

DoD
FLIGHT INFORMATION PUBLICATION
(ENROUTE) SUPPLEMENT
(TERMINAL) HIGH AND LOW ALTITUDE
EASTERN EUROPE AND ASIA

RADAR INSTRUMENT APPROACH MINIMUMS
STANDARD TERMINAL ARRIVALS
INSTRUMENT APPROACH PROCEDURES
STANDARD INSTRUMENT DEPARTURES
AIRPORT DIAGRAMMS

This Publication is issued EVERY SIXTEEN WEEKS

EFFECTIVE 0001L **8 JUN 2006**
TO 0001L 28 SEP 2006

ECN/TCN EFFECTIVE 0001L 3 AUG 2006

Consult NOTAMS for latest information

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EFF. DATE 06159

SPECIAL NOTICES SECTION

A Special Notice section concerning NEW FLIP FEATURES appears below and contains notices of new requirements or major modifications of existing FLIPs. New notices appearing for the first time will be shown first. New feature notices will be carried for three issues and then dropped. In the event there are no NEW FLIP FEATURES, the word "NONE" will be centered within the NEW FLIP FEATURES box.

Special Notices of a **permanent** nature will be carried for three issues and then incorporated in the appropriate section of the applicable FLIP product. Notices of a **temporary** nature will be carried in this section for the life of the notice. **New** or **modified** notices are emphasized by an outline and the date of first issuance at the top of the notice. Outline will be eliminated from temporary notices after one issue and issuance date will be relocated at the end of the notice.

8 JUNE 2006

SUNSET NOTICE: AREA ARRIVAL CHARTS DEPICTING TERRAIN DATA (AACDTD)

NGA and the FLIP Service representatives have identified there is no longer a requirement to produce all of the current Area Arrival Charts Depicting Terrain Data (AACDTD). NGA will sunset 35 of the 38 currently produced Area Arrival Charts Depicting Terrain Data (AACDTD) with the production of the 28 September 2006 effective date. The Alaska AACDTD charts (Adak, Anchorage, and Fairbanks) will continue in production, all other AACDTD's will expire at the end of the respective AIRAC cycle from the 28 September 2006 effective date. Any questions or concerns with this initiative should be forwarded to the respective Service representative as identified in General Planning, Chapter 10.

The following Area Arrival Charts Depicting Terrain Data (AACDTD) are scheduled for sunset:

Europe/North Africa/Middle East: Athinaï, Aviano, Bardufoss, Frankfurt, Incirlik, Madrid, Napoli, Pisa, Preswick, and Ramstein.

Pacific/Australasia/Antarctica: Atsugi, Daegu, Fukuoka, Gimhae, Gwangju, Iwakuna, Kunsan, Osan, Pochang, and Yecheon.

Caribbean/South America: LaPaz, Lima, Rio, and Santiago.

United States: Albuquerque, Colorado Springs, Denver, Las Vegas, Los Angeles, Palmdale, Salt Lake City, San Diego, San Francisco, and Seattle.

Africa: Johannesburg.

11 MAY 2006

DISCONTINUE PRINTING OF THE US PREFERRED ROUTES

With Army, Air Force and Navy approval, NGA will stop printing the US Preferred Routes in the Area Planning Book / 1 effective 28 September 2006. The information will be available at FAA website:

http://www.fly.faa.gov/Products/Coded_Departure_Routes/NFDC_Preferred_Routes_Database/nfdc_preferred_routes_database.html

NEW FLIP FEATURES

16 FEBRUARY 2006

AIRPORT/FACILITY DIRECTORY LEGEND ITEM 14 LIGHTING

&

ITEM 21 CLEARANCE STATUS

ITEM 14 LIGHTING: Two new types of lighting systems.

A. CALVERT II (British) -- FLIP Code: 29, Lgt Sys: J2

For depiction of the approach lighting system see FIH, NAT/INTL Flight Data/Procedures, Section B, Lighting System, Page B-36.

B. Rapid Exit Taxiway Indicator Lighting -- FLIP Code 49, Lgt Sys: RETIL

For description of the lighting system see General Planning, Chapter 2 Explanation of Terms, Airport Lighting, Item (9), Page 2-5.

ITEM 21 CLEARANCE STATUS: Two new codes for airfields designated as Airport of Entry.

A. R-AOE (Regular Airport of Entry), US Airports Only, See FCG.

B. L-AOE (Limited Airport of Entry), US Airports Only, See FCG.

16 FEBRUARY 2006

AERONAUTICAL INFORMATION TRANSITION

NGA, on 29 November 2005, announced that the Flight Information Publications (FLIP) and the Digital Aeronautical Flight Information File (DAFIFTM) will be removed from public access on 1 October 2006. This action will not affect Department of Defense (DoD) customers. DoD customers will continue to have web access to all DAFIFTM and FLIP products through a restricted website. Details will be made available at www.nga.mil.

22 DECEMBER 2005

FAA TO PUBLISH NEW US IFR ENROUTE HIGH ALTITUDE CHART H-12 ALONG ATLANTIC COAST

The FAA will publish a new US IFR Enroute High Altitude Chart H-12 with coverage along the Atlantic Coast for the 16 February 2006 effective date. The new H-12 Chart will be published on the back side of the H-11 Chart.

No change is required for DoD Customers who are currently receiving a copy of the H-11 Chart. For those DoD customers that are not currently receiving the H-11 Chart, but would like to receive a copy of the new H-12, Chart will have to update their DODAAC account with DLA.

Product Information for the FAA H-11 Chart:

FAA Product ID: EHUS11, NSN 7641015131644, NGA Ref No. ENRXXUSHCHT11

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GENERAL INFORMATION

1. GENERAL

a. The DoD Flight Information Publication (FLIP) combined Eastern Europe and Asia Enroute Supplement and Terminal High/Low Altitude is produced and distributed by the National Geospatial-Intelligence Agency. All information published in the basic volume and ECN/TCN is effective as of 0001 hours local time of the date shown on the front cover.

b. AMENDMENTS - The Eastern Europe and Asia Enroute Charts and combined Enroute Supplement and Terminal High/Low Altitude are issued every sixteen weeks. A scheduled Enroute/Terminal Change Notice (ECN/TCN) will be published at the eight week midpoint and will contain revisions, additions and deletions to the last complete issue. NOTAMs and unscheduled Urgent Change Notices (UCNs) will be issued when determined necessary. When UCNs are received, staple the new or revised page(s) to the inside front cover of the volume and make annotations on the affected page(s) as necessary.

2. SCOPE

a. ENROUTE SUPPLEMENT SECTION

(1) It is designed for use with the geographically corresponding DoD Enroute Charts and Flight Information Handbook (FIH). The DoD Enroute Supplement is intended to provide reference data and flight procedures for U.S. Military air operations only and the data and flight procedures contained herein may not be applicable to other users.

(2) Related FLIP information can be found in the FIH, the applicable FLIP Area Planning document, and the Terminal High/Low.

(3) The Enroute Supplement contains General Information, Airport/Facility Directory, Theater Flight Data and Procedures, and related aeronautical information that applies only to a geographically corresponding area. The FIH contains enroute flight information of a static nature that applies to two or more FLIP areas worldwide.

(4) New or revised data will be indicated by a vertical line down the left margin extending the full length of the new or revised data. The vertical line will not be applied to the Front Cover, the Airport/Facility Directory, or graphic data.

b. REVISIONS, CORRECTIONS, CHANGES, ADDITIONS to FLIP PRODUCTS

(1) See FLIP General Planning, Chapter 10.

(2) Call the appropriate military/civilian operating agencies listed below:

US NAVY/MARINES - DSN 288-3473/0974 or C202-433-3473/0974. FAX: DSN 288-3458

C202-433-3458. E-MAIL: Navfig@navy.mil

US AIR FORCE - CONUS - PAA, CSA C240-857-6721 or DSN 857-6721; OCONUS, ENAME, EEA, AFR C240-857-6713 or DSN 857-6713, FAX: C240-857-7996 or DSN 857-7996.

E-MAIL: affsa.xoia@andrews.af.mil

US ARMY - DSN 656-4871 or C703-806-4871. E-MAIL: harrisonw@belvoir.army.mil

US ARMY/EUROPE-NORTH AFRICA-MIDDLE EAST - DSN 373-8079/6426 or C06221-17-8079/6426

CIVILIAN ENTITIES - C314-263-4646. FAX: C314-263-4247.

c. TERMINAL SECTION - The Terminal High/Low is the official publication medium for terminal information for use by the U.S. Air Force, U.S. Navy and U.S. Army. The product does not contain all terminal instrument procedures available within the area of coverage. Contents are determined by military requirements.

2

Point of contact (POC): Questions pertaining to terminal instrument procedures should be directed to the appropriate DoD military service identified as the authority for the procedure.

USAF POC

PACIFIC

MAILING ADDRESS: PACAF AOS/AOOT
900 Hangar Ave. RM 112
Hickam AFB, HI 96853-5426
MESSAGE ADDRESS: PACAF AOS Hickam AFB//AOOT//
WORK NUMBER: DSN 448-2634/0677
FAX: DSN 448-0177
E-MAIL ADDRESS: TERPS@cidss.af.mil
WEB ADDRESS: <http://www.cidss.af.mil/aos/terps/html/terpsmain.html>
NOTE: OPR East of 88 Degrees and including India, Afghanistan, and Pakistan.

EUROPE

MAILING ADDRESS: HQ USAFE/DOYP
UNIT 3050 BOX 15
APO AE 09094-5015
MESSAGE ADDRESS: HQ USAFE RAMSTEIN AB GE//DOYP//
WORK NUMBER: DSN 480-7024/6053 COMM (49) 637147-7024
FAX: DSN 480-9816 COMM (49) 637147-9816
E-MAIL ADDRESS: usafe.terps@ramstein.af.mil

ARMY POC

MAILING ADDRESS: (MIL) USA Aeronautical Services Detachment (EUROPE)
UNIT # 29243
APO AE09102
(CIV) USA AERO SVCS DET EUR
69124 HEIDELBERG
MESSAGE ADDRESS: CDRUSAASDE HEIDELBERG GE//ATAS-AD//
WORK NUMBER: (MIL) DSN 373-8079/6426
(CIV) COMM (49) 6221-17-8079/6426
FAX: (MIL) DSN 373-8957
(CIV) COMM (49) 6221-17-8957
E-MAIL ADDRESS: usaasde@hq.hqusaeur.army.mil

NAVY POC

MAILING ADDRESSES: Department of the Navy
Head, Naval Flight Information Group
Building 176, Suite 301
1339 Patterson Avenue, SE
Washington Navy Yard, DC 20374-5088
WORK NUMBER: DSN 288-3473/0974 C202-433-3473/0974
FAX: DSN 288-3458 C202-433-3458
E-MAIL: navfltinfggrp@hq.navy.mil

3. REVISIONS, QUALITY REPORTS, REQUISITIONS, DISTRIBUTION and SCHEDULES - See FLIP General Planning, Chapter 10

4. INTERNET - DAFIF, E-CHUM, Enroute Supplements and Planning Documents are available at <http://164.214.2.62/products/digitalaero/index.html>

5. CUSTOMER HELP - For questions concerning this or other NGA products or services, please phone the NGA Operational Help Desk 1-800-455-0899, (314) 263-4864 or DSN 693-4864.

ICAO INTERNATIONAL PHONETIC ALPHABET/MORSE CODE

A	.-	Alfa	(AL-FAH)	S	...-	Sierra	(SEE-AIR-RAH)
B	-...	Bravo	(BRAH-VOH)	T	-	Tango	(TANG-GO)
C	-.-.	Charlie	(CHAR-LEE) (or SHAR-LEE)	U	...-	Uniform	(YOU-NEE-FORM) (or OO-NEE-FORM)
D	-..	Delta	(DELL-TAH)	V	...-	Victor	(VIK-TAH)
E	.	Echo	(ECK-OH)	W	.-	Whiskey	(WISS-KEY)
F	..-.	Foxtrot	(FOKS-TROT)	X	-.-.	Xray	(ECKS-RAY)
G	--.	Golf	(GOLF)	Y	-.-.	Yankee	(YANG-KEE)
H	Hotel	(HOH-TELL)	Z	----.	Zulu	(ZOO-LOO)
I	..	India	(IN-DEE-AH)	1	.-.-.-	Wun	
J	.-.-.	Juliett	(JEW-LEE-ETT)	2	..-.-	Too	
K	-.-	Kilo	(KEY-LOH)	3	...-.	Tree	
L	.-...	Lima	(LEE-MAH)	4-	Fow-er	
M	--	Mike	(MIKE)	5	Fife	
N	-.	November	(NO-VEH-BER)	6	-----	Six	
O	----	Oscar	(OSS-CAH)	7	-----	Sev-en	
P	.-.-.	Papa	(PAH-PAH)	8	-----	Ait	
Q	---.-	Quebec	(KEH-BECK)	9	-----	Nin-er	
R	.-.-	Romeo	(ROW-ME-OH)	0	-----	Ze-ro	

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SECTION A

AIRPORT/FACILITY DIRECTORY LEGEND

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AIRPORT/FACILITY DIRECTORY LEGEND A-2

SAMPLE

LESAPERANCE INTL, (TAVISH FLD) FL Keystone I **KLES** CIV (N)
 7— N24°01.90' W81°35.26' (32UMA2028522509) 301 UTC+2(+3DT)
 11— **SKETCH, H-4H, L-12F**
 12 (B) **RWY-09** L5,9,24,50
 13
 14
 16 (8596x148 ASP
 17 L5,9,50 **RWY-27**
 18— S80 T220 ST175 TT315 TDT800
 PCN 74 R/B/W/T)
 15— 8404→ ←7596
 19— ←NET BEFAB (35') HOOK BAK-12(B) (853') HOOK BAK-12(B) (796') NET BEFAB (34')→
SERVICE - AOE LGT - REIL Rwy 27 rqr 30 min PN.
 20
 21
 22
A-GEAR - Rwy 09 BAK-12 barrier hsg lctd 200' fr rwy cntrline. **JASU** - (C-26) 3(MA-1)
 4(MD-3) **FUEL** - A+ (DG AIR C636-555-1212) A J8 **FLUID** - PRESAIR LHOX LOX
OIL - O-128 **TRAN ALERT** - No reciprocating eng maint avbl. Exp delays on wkend.
 23
 24
REMARKS - Opr 0500-2300Z++. **RSTD** - OFFL BUS ONLY. Rwy 09 ldg 7925' ngt.
 25 **CAUTION** - Ints hvy jet tfc. **TFC PAT** - Rgt tfc. **NS ABTMT** - Mand quiet hr 2330-
 0400Z++. **CSTMS/AG/IMG** - CSTMS avbl PN rqr. **MISC** - Rwy 09-27 grooved. Class D
 Airspace eff 0400-2330Z++ OT Class G. **N** - PPR only.
 26
COMMUNICATIONS - **PTD** - 372.2 **ATIS** - 128.3 279.3 **AWOS-3** - C305-389-1056.
 27 135.375 **RDO** - 122.0 **APP** - Opr H24. (R) (E) 123.975 309.95 362.3 (123.975 Blw 5000'.)
 (309.95 Abv 5000'.) **TWR** - Opr 0400-2330Z++. 126.3 138.7 217.4 238.5 **GND** - 121.9
 348.6 **DEP** - (R) 121.3 263.0 **CLNC DEL** - 121.4 281.4 **KAYE COMD POST** - 128.1 293.7
 349.4 (349.4 AMC acft) **PMSV METRO** - 344.6 **REMARKS**: (Full svc dur wx fcst hr.) **A/G** -
 See Global HF Systems listing in FIH. **FSS-GAINESVILLE GNV-DL-NOTAM KLES**
 28
 29
 30
 31
 32
 33
NAVAIDS - **CLERMONT VOR-DME** - HA 117.500 CMF CH 122 (100/50) N24°01.15'
 W81°35.33' At Fld. 1060/(A)2°00.0'E **CLERMONT NDB** - MHW 390.000 AVI
 N24°55.59' W81°25.71' 047° 9.5 NM to Fld. Unk/1°2.3'E MP 0700-1000Z++ Wed. **VHF/**
UHF/DF
 34
 35
 CMF VOR-DME unuse 015°-070° byd 25 NM blw 4500'
 150°-180° byd 20 NM blw 6500'
 36 **ILS/RADAR** - → **ILS** - BRG 272° LCZR AV 110.7 GS 3° ■ **RADAR** - ASR - Call RADAR -
 140.675 362.1 344.0 279.6 385.4 PAR - Call GCA (123.3 279.6 362.1 Mil) (123.3 Civ)

AMMAN ACC, JO **OJAC** (CIV) (R) (V) **CON W SCTR** - 128.3 **E SCTR** - 128.5
APP - 128.9 TMA blw FL 145. **REMARKS** - Radar svc unavbl ev Mon btn 0730-1530Z++
 due maint. Non-radar svc avbl. **H-13A-14B-16G, L-16F,G**

TOULON NAVY CONTROL CENTER, FR **EDUF** (R) (E) 132.85 133.75
 d285.5 d306.9 322.3 **ALFA** - d319.2 **BRAVO** - 343.7 **H-1B-2C, L-11C, T-3D**
 39
 40

LEGEND

1. The following detailed legend is provided to assist users in becoming familiar with the format used in the Airport/Facility Directory. Information which is self-explanatory will not be covered in this legend.

- a. All bearings, radials, courses, and tracks are magnetic.
 - b. All mileages are nautical miles (NM).
 - c. All times are Coordinated Universal Time (UTC).
 - d. All elevations are in feet above/below Mean Sea Level (MSL).
 - e. All geographic coordinates are compatible with the World Geodetic System (WGS).
2. Section B contains an alphabetical listing of all: Airports (landplane and heliports) which meet one of the below listed criteria; Air Traffic Control Centers; Flight Information Centers; Communications Stations; and Radio Aids to Navigation.

a. US:

- (1) A published DoD (High/Low Altitude) Instrument Approach Procedure and/or ASR/PAR RADAR approach minima.
- (2) All airports located within Canada and Mexico portrayed on U.S. Enroute Charts for emergency use.
- (3) Selected airports and heliports not meeting the above criteria but specifically requested by DoD to meet operational requirements.

b. Foreign (non-US):

- (1) A published DoD Instrument Approach Procedure and/or approved RADAR minima.
- (2) Those airports published on Enroute Charts in accordance with applicable specifications.
- (3) Those airports or heliports with an arrival or departure procedure or a directory entry published in the VFR Arrival/Departure Books.
- (4) At least one 3000' or longer runway of hard surface where landings of DoD aircraft are not specifically prohibited.
- (5) Specifically requested by a DoD unit to meet operational requirements.
- (6) Heliports operated by a DoD military service, or requested by a DoD military service to meet operational requirements.

3. Symbol Legend -

- § Denotes Interphone drop to Army Flight Operations Detachment (AFOD)
- X Frequency available on request
- R Receive only
- T Transmit only
- d Discrete frequency
- (R) RADAR capability
- (V) VHF emergency frequency 121.5 monitored.
- (U) UHF emergency frequency 243.0 monitored.

AIRPORT/FACILITY DIRECTORY LEGEND A-4

(E) VHF and UHF emergency frequencies monitored.

Aeronautical Phone Patch Svc Capability

➡ ILS Instrument Approach Procedure not published in DoD FLIP Terminals.

■ RADAR with no minima published in DoD FLIP products.

4. Operating Times

a. Airports operate H24 unless otherwise specified in Remarks.

b. Airport Services (Fuel, Transient Service, etc.) and Communications (ATIS, PTD, UNICOM, APP, DEP, TWR, A/G, etc.) operate the same hours as airport unless otherwise specified.

c. Radio Navigational Aids operate and are monitored H24 unless otherwise specified.

5. NOTAM SERVICE

a. NOTAM information for DoD aircrews is obtained using the DoD Internet NOTAM Distribution System (DINS) which is derived from the United States Consolidated NOTAM Office at the FAA Air Traffic Control Systems Command Center, Herndon VA.

b. The primary DINS system NOTAM Web page <https://www.notams.jcs.mil> incorporates many features to assist the user when retrieving NOTAM requests. Real time NOTAM data is available, and contains all NOTAMs validated by the U.S. NOTAM System (USNS), which include domestic, international, military and from Flight Data Centers (FDC).

c. DINS will provide a plain language notice, highlighted in red, when a requested location is not in the U.S. NOTAM System. If the requested location is not covered, it does not transmit NOTAM information for the USNS. You must contact the requested location to receive NOTAM information.

d. ALTERNATE LOCATION - Use <https://www.notams.faa.gov> to retrieve NOTAMs should the primary DINS server be out of service.

6. Sample Legend - The legend items that follow explain in detail the contents of the Directory and are keyed to the boxed numbers on the Sample Listing.

1 NAMES - are listed alphabetically.

2 ALTERNATE NAMES

3 STATE/PROVINCE/COUNTRY - are shown by an abbreviation. See Abbreviations at end of Section A.

4 ISLAND/ISLAND GROUP - are shown when State/Province/Country names are not shown or for clarification purposes.

5 LOCATION IDENTIFIER - is shown by either a 4 character ICAO/4 character FAA/Host Nation Identifier or 2 character ICAO region followed by two dashes/4 character FAA/Host Nation Identifier. Zeros will appear with a slash to differentiate them from the letter "O". If two different codes are assigned for a Military/Civil airport or facility, the military code will be shown first followed by the civil code. If two different military codes are assigned, both codes will be shown with the primary operating agency's code listed first.

6 OPERATING AGENCY - is classified into two basic categories, Military/Federal Government, and Civil Airports open to the general public, plus some selected private airports. The type is shown by an abbreviation as listed below. When an organization is a tenant, the abbreviation is enclosed in parenthesis.

A US Army	NADEP Naval Air Depot
AF US Air Force	NAF Naval Air Facility
AFRC Air Force Reserve Command	NAS Naval Air Station
ANG Air National Guard	NASA National Air and Space Administration
AR US Army Reserve	NATO North Atlantic Treaty Organization
ARNG US Army National Guard	NS Naval Station
CG US Coast Guard	NSF US National Science Foundation
CIV Foreign Civil Government, (Landing Fees and Diplomatic Clearance may be Required)	NTC Naval Training Command
DNA Defense Nuclear Agency	P US Civil Airport Wherein Permit Covers Use by Transient Military Aircraft
DOE Dept of Energy	PMRF Pacific Missile Range Facility
FAA Federal Aviation Administration	PVT Private
JUSMAG Joint US Military Advisory Group	SAMTEC Space and Missile Test Center
MC Marine Corps	USBER US Mission Berlin
MIL Military	USFS US Forestry Service
MIL/CIV Military - Civil Joint Use Airport	
MUNI Municipal	
N Navy	

NOTE: No classification - Indicates the airport is open to the general public. For Military Use, arrangements must be made with the airport manager. USAF/USN pilots may use these airports for official business only upon approval of major Command/Operational Commander. US Army pilots refer to AR 95-1.

7 GEOGRAPHIC LOCATION - is shown in degrees, minutes, and hundreds-of-minutes. This is the Airport Reference Point.

8 UTM GRID LOCATION - is shown at airports when requested.

9 ELEVATION - is shown in feet above/below mean sea level and is the highest point on the landing surface. When elevation is sea level it will be indicated as 00; if below sea level, a minus (-) sign will precede the figure.

10 TIME CONVERSION - is shown by the number of hours to be added to/subtracted from UTC to obtain local standard time. In those areas where daylight saving time is observed it is indicated as UTC-4(-3DT) or UTC+4(+5DT). A ++ symbol following operating hours indicates that, during periods of daylight saving time, effective hours will be one hour earlier than shown.

NOTE: When UTC equals local standard time, a space zero will follow UTC, i.e., UTC 0(-1DT), UTC 0

NOTE: Daylight saving time is observed as follows:

AFRICA

REPUBLIC OF NAMIBIA - 1st Sunday in April to 1st Sunday in September.

CSA

BAHAMAS - 1st Sunday in April to last Sunday in October.

BERMUDA - 1st Sunday in April to last Sunday in October.

BRAZIL - 3rd Sunday in October to 3rd Sunday in February.

CHILE - 2nd Saturday in October to 2nd Saturday in March.

AIRPORT/FACILITY DIRECTORY LEGEND A-5

AIRPORT/FACILITY DIRECTORY LEGEND A-6

CUBA- Last Sunday in March to last Sunday in October.

FALKLAND ISLANDS - 2nd Saturday in September to 3rd Saturday in April.

GUANTANAMO BAY NS - 1st Sunday in April to last Sunday in October.

MEXICO - 1st Sunday in April to last Saturday in October, except in the province of Sonora.

PARAGUAY- 1 October to 1 April.

TURKS and CAICOS ISLANDS - Last Sunday in April to last Sunday in October.

EEA

ARMENIA - Last Saturday in March at 2300Z to last Saturday in October at 2300Z.

AZERBAIJAN - Last Saturday in March at 0300L to last Sunday in October at 0300L.

BELARUS - Last Sunday in March at 0200L to last Sunday in October at 0300L.

GEORGIA - Last Sunday in March at 0100Z to last Sunday in October at 0100Z.

KAZAKHSTAN - Last Sunday in March at 0300Z to last Sunday in October at 0300Z.

KYRGYZSTAN - Last Saturday in March at 2300Z to last Saturday in October at 2300Z.

MOLDOVA - Last Saturday in March at 2300Z to last Saturday in October at 2300Z.

RUSSIA - Last Sunday in March at 0200L to last Sunday in October at 0300L.

UKRAINE - Last Sunday in March at 0100Z to last Sunday in October at 0100Z.

ENAME

ALBANIA - Last Sunday in March to last Sunday in October.

AUSTRIA - Last Sunday in March to last Sunday in October.

AZORES - Last Sunday in March to last Sunday in October.

BELGIUM - Last Sunday in March to last Sunday in October.

BOSNIA AND HERZEGOVINA - Last Sunday in March to last Sunday in October.

BULGARIA - Last Sunday in March to last Sunday in October.

CROATIA - Last Sunday in March at 0100Z to last Sunday in October at 0100Z.

CYPRUS - Last Sunday in March to last Sunday in October.

CZECH REPUBLIC - Last Sunday in March to last Sunday in October.

DENMARK - Last Sunday in March to last Sunday in October.

EGYPT - Last Friday in April at 2101Z to last Thursday in September at 2100Z.

ESTONIA - Last Sunday in March to last Sunday in October.

FAROE ISLAND - Last Sunday in March to last Sunday in October.

FINLAND - Last Sunday in March to last Sunday in October.

FRANCE - Last Sunday in March to last Sunday in October.

GERMANY - Last Sunday in March to last Sunday in October.

GIBRALTAR - Last Sunday in March to last Sunday in October.

GREECE - Last Sunday in March to last Sunday in October.

HUNGARY - Last Sunday in March to last Sunday in October.

IRAQ - Dates by NOTAM.

IRELAND - Last Sunday in March at 0100Z to last Sunday in October at 0100Z.

ISRAEL - 27 March at 2300Z to 2 October at 2200Z.

ITALY - Last Sunday in March at 0100Z to last Sunday in October at 0100Z.

JORDAN - Dates by NOTAM.

LATVIA - Last Sunday in March to last Sunday in October.

LEBANON - Last Saturday in March to last Saturday in October.

LITHUANIA - Last Sunday in March at 0100Z to last Sunday in October at 0100Z.

LUXEMBOURG - Last Sunday in March to last Sunday in October.

MACEDONIA, THE FORMER YUGOSLAV REPUBLIC OF - Dates by NOTAM.

MADEIRA ISLAND - Last Sunday in March to last Sunday in October.

MALTA - Last Sunday in March to last Sunday in October.

NETHERLANDS - Last Sunday in March to last Sunday in October.

NORWAY - Last Sunday in March to last Sunday in October.

POLAND - Last Sunday in March at 0100Z to last Sunday in October at 0100Z.

PORTUGAL - Last Sunday in March to last Saturday in October.

ROMANIA - Last Sunday in March to last Sunday in October.

RUSSIA - Last Sunday in March at 0200L to last Sunday in October at 0300L.

SERBIA AND MONTENEGRO - Last Sunday in March to last Sunday in October.

SLOVAKIA - Last Sunday in March to last Sunday in October.

SLOVENIA - Last Sunday in March to last Sunday in October.
SPAIN - Last Sunday in March to last Sunday in October.
SWEDEN - Last Sunday in March to last Sunday in October.
SWITZERLAND - Last Sunday in March to last Sunday in October.
SYRIA - 1 April to 30 September.
TUNISIA - Last Sunday in May to last Sunday in September.
TURKEY - Dates by NOTAM.
UNITED KINGDOM - 24 March at 0100Z to last Sunday in October at 0100Z.

PAA

AUSTRALIA, except states in **WESTERN AUSTRALIA**, **QUEENSLAND**, and **NORTHERN TERRITORY** - 4th Sunday of October until the 1st Sunday of March
BRITISH INDIAN OCEAN TERRITORY, **DIEGO GARCIA NSF** - Year round
FIJI - 1 November to 28 February
NEW ZEALAND - 1st Sunday of October until 3rd Sunday of March
EASTER ISLAND - 2nd Saturday in October to 2nd Saturday in March
SRI LANKA - Year round
VANUATU - 4th Saturday in September to 4th Saturday in March.

US

Daylight saving time is in effect from 0200 local time the first Sunday in April to 0200 local time the last Sunday in October. **CANADA** and all **US CONTERMINOUS STATES** observe daylight saving time, except **ARIZONA** and that portion of **INDIANA** in the **EASTERN STANDARD TIME ZONE**. **MEXICO** observes daylight saving time the first Sunday in April to the last Saturday in October, except in the province of Sonora.

11 FLIP PUBLICATIONS -

- a. SKETCH - Enroute Supplement.
- b. VFR - VFR Arrival/Departure.
- c. Chart and Chart panel on which airport facility is portrayed.
- d. AACDTD - Area Arrival Chart Depicting Terrain Data on which the primary airport facility is portrayed.

12 AIRPORT BEACON - Omission of (B) indicates rotating beacon is not available.

13 RUNWAY DESIGNATION - Runways are normally numbered in relation to their magnetic orientation rounded off to the nearest 10 degrees. Single runways are shown with the lower number on the left side. Parallel runways can be designated Left/Right/Center with the left runway listed first. Multiple runways are shown in ascending order from top to bottom. Additionally, runways may be designated as STOL, Temporary, or assault strips. Assault strips are shown by magnetic bearing.

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14 LIGHTING - is shown in the Flight Information Handbook by the following codes:

<u>FLIP Code</u>	<u>Lgt Sys</u>	<u>Definition</u>	<u>FLIP Code</u>	<u>Lgt Sys</u>	<u>Definition</u>
1	PCL	Pilot Controlled Lighting	31	F	Left Row (High Intensity)
2	SF	Sequenced Flashing Lights	32	I	Air Force Overrun
3	TDZL	Touchdown Zone Lighting	33	J	Calvert I (British)
4	CL	Centerline Lighting System	34	M	Single Row Centerline
5	HIRL	High Intensity Runway Lights	35	N	Narrow Multi-cross
6	MIRL	Medium Intensity Runway Lights	36	O	Centerline (High Intensity)
7	LIRL	Low Intensity Runway Lights	37	Q	Alternate Centerline and Bar
8	RAIL	Runway Alignment Lights	38	S	Cross
9	REIL	Runway End Identifier Lights	39	T	Center Row
10	A	ALSF-2	40	U	Singapore Centerline
11	A1	ALSF-1	41	X	Centerline 2 Crossbars
12	A2	SALS or SALSF	42	ODALS	Omnidirectional Approach Lighting System
13	A3	SSALR	43	V (VASI)	Visual Approach Slope Indicator
14	A4	MALS and MALSF or SSALS and SSALF	44	V1 (T-VASI)	T-Visual Approach Slope Indicator
15	A5	MALS	45	V2 (PVASI)	PVASI
16	AF	Overrun Centerline	46	(Heli-PLASI)	Heli-PLASI
17	AI	Centerline and Bar	47	V3 (JUMBO)	VASI with a TCH to accommodate long bodied or jumbo aircraft
18	B	US Configuration (B)	48	V4	Tri-color Visual Approach Slope Indicator
19		Not used	49	V5 (APAP)	Alignment of Elements System
20	BF	Center Row	50	RETIL	Rapid Exit Taxiway Indicator Lights
21	BG	Left Single Row	51	PAPI	Precision Approach Path Indicator
22	BN	Former NATO Standard (C)	52	OLS	Optical Landing System
23	BO	Center Row	53	WAVE-OFF	
24	BP	NATO Standard	54	PORTABLE	
25	BQ	Center and Double Row	55	FLOODS	
26	BR	Portable Approach	56	LIGHTS	
27	BS	Center Row		LCVASI	Low Cost Visual Approach Slope Indicator
28	G	Helicopter Approach Lighting System (HALS)			
29	J2	Calvert II (British)			
30	E	Two Parallel Row			

NOTE: Approach lighting - A - If available but type unknown.

NOTE: Lights are in operation, available sunset to sunrise, or by request (circling the field or by radio through appropriate FSS). An asterisk (*) preceding the lighting entry indicates operation on prior request (phone call, telegram or letter) only. USN/USMC - Lights available only during hours of operation.

NOTE: Obstructions are usually lighted in accordance with Federal Aviation Regulations, Civil Air Regulations and Military Regulations; therefore, these have not been included as a part of the above code. If, however, information indicates there are unlighted obstruction(s) surrounding the airport, this will be indicated in the Remarks Section.

NOTE: When runway edge lights are positioned more than 10 feet from the edge of the usable runway surface a CAUTION note will be indicated in Remarks. This is applicable to Air Force, Air National Guard and Air Force Reserve Bases, and those joint use airfields on which they are tenants.

NOTE: See the Flight Information Handbook for Pilot Control of Airport Lighting.

15 DISPLACED THRESHOLD - is shown by the landing distance available (in feet) with an arrow indicating the direction. If available length differs from that stated with runway information, a note to that effect will be found in REMARKS - RSTD.

16 RUNWAY DIMENSIONS - are shown in feet. Length shown is runway end to end (includes displaced threshold but does not include overruns). Runways under construction and permanently closed and unserviceable runways will be depicted with the abbreviation CLSD preceding the runway length.

17 RUNWAY SURFACE - Surface material is classified as either Hard or Other. Surface material is the visible material or composition of the major landing portion of the runway.

HARD SURFACE COMPOSITION

ASP - Asphalt, asphaltic concrete, tar macadam, or bitumen-bound macadam - where asphalt or tar is used as a binder to create a surfacing. Includes those runways with concrete ends.

BRI - Brick, Laid or mortared

CON - Concrete or cement (white surface)

COP - Composite, 50 percent or more of the rwy length is permanent

PEM - Part concrete, part asphalt, or part bitumen-bound macadam

PER - Permanent, surface type unknown

OTHER THAN HARD SURFACE COMPOSITION

BIT - Bituminous Tar or Asphalt, mixed in place, oil or bitumen-bound.

CLA - Clay

COM - Composite, less than 50 percent of the rwy length is permanent

COR - Coral

GRE - Graded or rolled earth, grass on graded earth

GRS - Grass on earth not graded or rolled

GVL - Gravel

ICE - Ice

LAT - Laterite

MAC - Macadam - crushed rock water bound

MEM - Membrane - plastic or other coated fiber material

MIX - Mix in place using nonbituminous binders such as Portland Cement

PSP - Pierced steel plank

SAN - sand, graded, rolled or oiled

SNO - Snow

U - Surface unknown

18 RUNWAY BEARING STRENGTH - may be shown as follows:

a. The runway weight bearing capacity in thousands of pounds will be shown expressed in terms of gross weight which can be accepted for continuing operations. It is determined by adding 000 to the figure following S, T, ST, SBTT, TT, TDT, DDT, TRT, TTT and AUW. A blank space following the letter designators S or T is used to indicate the runway can sustain aircraft

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with the type landing gear, although definite runway weight bearing capacity figures are not available. If the T value is less than T63 then no ST value will be depicted. Aircraft weights higher than given require prior permission from the airport controlling authority. Applicable codes are:

S - Single wheel type landing gear (F15), etc.
T - Twin wheel type landing gear (C9A), etc.
ST - Single Tandem landing gear (C130), etc.
SBTT - Single Belly Twin Tandem landing gear (KC10), etc.
TT - Twin Tandem type (includes quadricycle) landing gear (C141), etc.
TDT - Twin Delta Tandem landing gear (C5), etc.
DDT - Double Dual Tandem type landing gear (747), etc.
TRT - Triple Tandem type landing gear (C17), etc.
TTT - Twin Triple Tandem type landing gear (777), etc.

Some USN and USMC airports may associate a runway weight bearing capacity with a specific tire pressure (TP), e.g. S67/TP-400PSI. This indicates the runway weight bearing capacity for aircraft operating with the specific tire pressure. When a runway weight bearing capacity is associated with a tire pressure, it is normally lower than the runway weight bearing capacity for aircraft of the same landing gear configuration operating with normal tire pressure.

If the above information is not available, the following data may be shown:

SWL - Single Wheel Loading (includes information submitted in terms of Equivalent Single Wheel Loading (ESWL) and Single Isolated Wheel Loading). SWL Figures are shown in thousands of pounds, the last three figures being omitted.

PSI - Pounds per square inch. PSI is the actual figure expressing maximum pounds per square inch runway will support.

AUW - All up weight maximum for any aircraft irrespective of landing gear configuration. AUW figures are shown in thousands of pounds, the last three figures being omitted.

C54, etc. - Aircraft by type based on past usage when more specific information is not known.

b. The ACN/PCN System is the ICAO standard method of reporting pavement strength for pavements with bearing strengths greater than 12,500 pounds. The Pavement Classification Number (PCN) is established by an engineering assessment of the runway. The PCN is for use in conjunction with an Aircraft Classification Number (ACN). Consult the Aircraft Flight Manual, FIH, or other appropriate source for ACN tables or charts. Currently, ACN data may not be available for all DoD aircraft. If an ACN table or chart is available, the ACN can be calculated by taking into account the aircraft weight, the pavement type, and the subgrade category. For runways that have been evaluated under the ACN/PCN system, the PCN will be shown as a five part code (e.g. PCN 80 R/B/W/T). Details of the coded format are as follows:

(1) The PCN NUMBER - The reported PCN indicates that an aircraft with an ACN equal or less than the reported PCN can operate on the pavement subject to any limitation on the tire pressure.

(2) The type of pavement:

R - Rigid

F - Flexible

(3) The pavement subgrade category:

A - High

B - Medium

C - Low

D - Ultra-low

(4) The maximum tire pressure authorized for the pavement:

W - High, no limit

X - Medium, limited to 217 psi

Y - Low, limited to 145 psi

Z - Very low, limited to 73 psi

(5) Pavement evaluation method:

T - Technical evaluation

U - By experience of aircraft using the pavement

NOTE: Prior permission from the airport controlling authority is required when the ACN of the aircraft exceeds the published PCN or aircraft tire pressure exceeds the published limits.

19 ARRESTING GEAR - is shown as it is located on the runway. The A-Gear distance from the end of the appropriate runway (or into the overrun) is indicated in parentheses. A-Gear which has a bi-directional capability and can be utilized for emergency approach end engagements is indicated by a (B). The direction of engaging device is indicated by an arrow. Up to 15 minutes advance notice may be required for rigging A-Gear for approach end engagement. Airport listings may show availability of other than US Systems. This information is provided for emergency requirements only.

US & FOREIGN SYSTEMS

Refer to current aircraft operating manuals for specific engagement weight and speed criteria based on aircraft structural restrictions and arresting system limitations.

CAUTION - Unless noted, US evaluation of the foreign systems listed below has not been verified. The comparison to U.S. Systems is based on best available data at time of publication and is not to be construed as clearance for use. If time permits, obtain engagement capabilities (speed/weight/compatibility) from tower prior to engagement.

Following is a list of current systems identified by both Air Force and Navy terminology:

a. BI-DIRECTIONAL CABLE (B)

<u>TYPE</u>	<u>DESCRIPTION</u>
BAK-6	Water Squeezer
BAK-9	Rotary friction brake
BAK-12A	Standard BAK-12 with 950 foot run out, 1-inch cable and 40,000 pound weight setting. Rotary friction brake.
	a. BAK-12B Extended BAK-12 with 1200 foot run out, 1 ¼ inch cable and 50,000 pound weight setting. Rotary friction brake.
Dual BAK-12	Two energy absorbers each side of the runway connected to a single cable. Run out varies.
BAK-13	Rotary Hydraulic (Water Brake)
E27	Rotary Friction
E28	Rotary Hydraulic (Water Brake)
M21	Rotary Hydraulic (Water Brake) Mobile
M31	Rotary Hydraulic (Water Brake) Mobile
MB100	Textile brake - an emergency one-time use, modular braking system employing the tearing of specially woven textile straps to absorb the kinetic energy.

The following device is used in conjunction with some aircraft arresting systems:

BAK-14	A device that raises a hook cable out of a slot in the runway surface and is remotely positioned for engagement by the tower on request. (In addition to personnel reaction time, the system requires up to five seconds to fully raise the cable.)
Type-H	A device that raises a hook cable out of a slot in the runway surface and is remotely positioned for engagement by the tower on request. (In addition to personnel reaction time, the system requires up to 1.5 seconds to fully raise the cable.)

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b. UNI-DIRECTIONAL CABLE

<u>TYPE</u>	<u>DESCRIPTION</u>
MB60	Textile brake - an emergency one-time use, modular braking system employing the tearing of specially woven textile straps to absorb the kinetic energy.
E5/E5-1/E5-3	Chain Type. At USN/USMC stations E-5 A-GEAR systems are rated, e.g., E-5 RATING-13R-1100 HW (DRY), 31L/R-1200 STD (WET). This rating is a function of the A-GEAR chain weight and length and is used to determine the maximum aircraft engaging speed. A dry rating applies to a stabilized surface (dry or wet) while a wet rating takes into account the amount (if any) of wet overrun that is not capable of withstanding the aircraft weight. These ratings are published under SERVICE.
MAAS	Essentially a BAK-12 system mobilized on a specially developed trailer. Basic system has 990 foot run out and is equivalent to standard BAK-12. MAAS may be modified to accommodate different configurations equivalent to various BAK-12 systems including Bi-Directional configurations when system is staked appropriately.

c. FOREIGN CABLE

<u>TYPE</u>	<u>DESCRIPTION</u>	<u>US EQUIVALENT</u>
34B-1A, 1B	Rotary Hydraulic (Water Brake)	
34B-1C	Rotary Hydraulic (Water Brake)	BAK-6
34D-1F	Rotary Hydraulic (Water Brake)	
44B-2B	Rotary Hydraulic (Water Brake)	BAK-12
44B-2C, 2D, 2E, 2F, 2H, 2I, 2L, 3A, 3H, 3L, 4C, 4E	Rotary Hydraulic (Water Brake)	
44B-4H	Rotary Hydraulic (Water Brake)	E-28/BAK-13
500S	Rotary Friction	BAK-12
500S-4, 500S-6	Rotary Friction	
500S-8 (TAG)	Rotary Friction (Trans Arresting Gear)	
500S-8	Rotary Friction	
1300	Rotary Hydraulic (Water Brake)	
2800	Rotary Hydraulic (Water Brake)	
AAE-64	Rotary Hydraulic (Water Brake)	
BEFAB 8:3, 20:4, 56:2	Pneumatic Disc Brake	
BEFAB 60:2	Pneumatic Disc Brake	BAK-12
CHAG	Chain	E-5
E6	Chain	
JET STOP	Rotary Friction Chain Gear	BAK-6
MAG I thru MAG X	Rotary Hydraulic (Mobile Arresting Gear)	
PAAG	Portable Aircraft Arresting Gear (British)	
PUAG MK-21	Rotary Hydraulic (Water Brake)	BAK-9
SPRAG MK-1	Linear Hydraulic (Water Squeezer)	BAK-9
RHAG MK-1	Rotary Hydraulic (Water Brake)	BAK-9
UNK AGEAR	Unknown Type Of Energy Absorber	

d. UNI-DIRECTIONAL BARRIER

<u>TYPE</u>	<u>DESCRIPTION</u>
MA-1A	Web barrier between stanchions attached to a chain energy absorber.
MA-1A/BAK-9	Web barrier between stanchions attached to a BAK-9 energy absorber.
BAK-15	Web barrier between stanchions attached to an energy absorber (water squeezer, rotary friction, chain). Designed for wing engagement.

e. UNI-DIRECTIONAL BARRIER WITH CABLE

The following systems are designed for main strut or wing engagement and modified with a pickup cable for hook arrestment.

<u>TYPE</u>	<u>DESCRIPTION</u>
MA-1A Mod	Web barrier between stanchions combined with a hook pickup cable and chain energy absorber.
MA-1A Mod/BAK-9	Web barrier between stanchions combined with a hook pickup cable and BAK-9 energy absorber.
MA-1A Mod/BAK-12	Web barrier between stanchions combined with a hook pickup cable and BAK-12 energy absorber.
BAK-15 (NI)	Web barrier between stanchions interconnected with a hook pickup cable energy absorber (water squeezer, rotary friction, chain). System is called BAK-15 with Net Interconnect (NI).

CAUTION: Landing short of the runway threshold on a runway with a BAK-15 in the underrun is a significant hazard. The barrier in the down position still protrudes several inches above the underrun. Aircraft contact with the barrier short of the runway threshold can cause damage to the barrier and substantial damage to the aircraft.

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f. FOREIGN BARRIER/CABLE

<u>TYPE</u>	<u>DESCRIPTION</u>	<u>US EQUIVALENT</u>
BEFAB 6:3*	Pneumatic Disc Brake	
BEFAB 12:3*	Pneumatic Disc Brake	
BEFAB 21:2	Pneumatic Disc Brake	
BEFAB 24:4**	Pneumatic Disc Brake	
RAF MK-6	Pneumatic Disc Brake	
RAF MK-12A	Pneumatic Disc Brake	All nylon net
RAF TYPE A	BEFAB 6:3 (Pneumatic Disc Brake)	
RAF TYPE B	BEFAB 12:3 (Pneumatic Disc Brake) (net only, may be attached to energy absorber from any A-GEAR)	
SAFE-BAR	(Safeland Barrier)	N/A Engage with closed canopy
61QSI	Barricade Net System	
62NI	Net Barrier With Hook Cable Interconnect	
63PI	Dual Cable Interconnect For Hook Engagement	
A30	Aerazur 30-Element Net (F30)	
A40	Aerazur 40-Element Net (F40)	
HOOK CABLE	Unspecified Type Of Tail Hook Engagement	
HP-NET	Adec High Performance Net	
J-BAR	Generic "Barrier" (Non-Hook Cable) Engagement	
MA-1	Net Barrier Main Gear Cable Engagement	
NET	Unspecified Type Of Net Engagement	
UNK	Unknown	

*May alternatively be fitted with a cable.

**Cable attached.

g. OTHER

<u>TYPE</u>	<u>DESCRIPTION</u>
EMAS	Engineered Material Arresting System, located beyond the departure end of the runway, high energy absorbing materials which will crush under the weight of an aircraft.

20 SERVICE - Specific services, e.g., CLEARANCE STATUS, LIGHTING, A-GEAR, JASU, FUEL, and TRAN ALERT available at the airport are listed under this general heading. Remarks applicable to any service are shown in the individual service listing.

21 CLEARANCE STATUS - See Foreign Clearance Guide for details.

AOE - Airport of Entry. R-AOE - Regular Airport of Entry (US Only). L-AOE - Limited Airport of Entry (US Only). Designated airport where initial entry to a country must be made to obtain border clearances. In the US, an airport where initial entry can be made without permission to land from US Customs. At least one hour advance notice of arrival is required.

LRA - Landing Rights Airport. In the US, an airport where initial entry can be made after application for permission to land is submitted in advance to US Customs and approved. At least one hour advance notice of arrival is required.

22 JET AIRCRAFT STARTING UNITS (JASU) - The numeral preceding the type of unit indicates the number of units available. The absence of the numeral indicates ten or more units available.

a. USAF JASU (For variations in technical data, refer to T.O. 35-1-7.)

(1) ELECTRICAL STARTING UNITS:

AF/M32A-10	AC: 115/208v, 400 cycle, 3 phase, 20 kva, 0.75 pf, 4 wire DC: 28v, 500 amp, 15 kw
A/M32A-86	AC: 115/200v, 3 phase, 90 kva, 0.8 pf, 4 wire DC: 28v, 1500 amp, 72 kw (with TR pack)
C-26B	AC: 115/208v, 380-800 cycles, 1 phase, 15 kva, 131 amp, 2 wire DC: 28v, 1500 amp, 45 kw
ESSEX B809	AC: 120/208v, 400 cycle, 3 phase, 90 kva DC: 28.5v, 1050 amp continuous, 2250 amp peak 270v, 259 amp
MC-1A	AC: 115/208v, 400 cycle, 3 phase, 37.5 kva, 0.8 pf, 108 amp, 4 wire DC: 28v, 500 amp, 14 kw
MD-1	AC: 120/208v, 400 cycle, 3 phase, 6.25 kva, 0.8 pf
MD-2	AC: 120/208v, 400 cycle, 3 phase, 10 kva, 0.8 pf
MD-3	AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire DC: 28v, 1500 amp, 45 kw, split bus
MD-3A	AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire DC: 28v, 1500 amp, 45 kw, split bus
MD-3B	AC: 115/208v, 400 cycle, 3 phase, 60 kva, 4 wire DC: 28v, 500 amp
MD-3M	AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire DC: 28v, 500 amp, 15 kw
MD-4	AC: 120/208v, 400 cycle, 3 phase, 62.5 kva, 0.8 pf, 175 amp, "WYE" neutral ground, 4 wire, 120v, 400 cycle, 3 phase, 62.5 kva, 0.8 pf, 303 amp, "DELTA" 3 wire, 120v, 400 cycle, 1 phase, 62.5 kva, 0.8 pf, 520 amp, 2 wire
MEP-116A	AC: 115/208v and 240/446v, 400 cycle, 3 phase, 100 kw, 0.8 pf

(2) AIR STARTING UNITS:

AM32-95	150 +/- 5 lb/min (2055 +/- 68 cfm) @ 51 +/- 2 psia
AM32A-95	150 +/- 5 lb/min @ 49 +/- 2 psia (35 +/- psig)
LASS	150 +/- 5 lb/min @ 49 +/- 2 psia
MA-1A	82 lb/min (1123 cfm) at 130° air inlet temp, 45 psia (min) air outlet press
MB-1	500 cu in cap, 3500 psig, 15 cfm
MB-9	4.01 cu ft cap (6930 cu in cap), 5 cfm
MC-1	15 cfm, 3500 psia
MC-1 (modified)	5,000 cu in cap, 3500 psia, 15 cfm
MC-1A	15 cfm, 3500 psia
MC-2A	15 cfm, 200 psia
MC-11	8,000 cu in cap, 4000 psig, 15 cfm
SGNSC	42 cfm, 200 psig max

(3) COMBINED AIR AND ELECTRICAL STARTING UNITS:

AGPU	AC: 115/200v, 400 cycle, 3 phase, 30 kw gen DC: 28v, 700 amp AIR: 60 lb/min @ 40 psig @ sea level
AM32A-60*	AIR: 120 +/- 4 lb/min (1644 +/- 55 cfm) @ 49 +/- 2 psia AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire, 120v, 1 phase, 25 kva DC: 28v, 500 amp, 15 kw
AM32A-60A	AIR: 150 +/- 5 lb/min (2055 +/- 68 cfm) @ 51 +/- 2 psia AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire DC: 28v, 200 amp, 5.6 kw
AM32A-60B*	AIR: 130 lb/min, 50 psia AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire DC: 28v, 200 amp, 5.6 kw
MA-3MPSU	AIR: 150 lb/min, 13.5 cfm, 60 psia AC: 115/208v, 400 cycle, 3 phase, 60 kva

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DC: 28v, 1000 amp, 30 kw

*NOTE: During combined air and electrical loads, the pneumatic circuitry takes preference and will limit the amount of electrical power available.

b. USN JASU

(1) ELECTRICAL STARTING UNITS:

AM32A-108 DC: 750 amp constant, 1000 amp intermittent, 28v;
AC: 90 kva, 115/200v, 3 phase, 400Hz.

MMG-1/1A DC: 500 amp constant, 1000 amp intermittent, 28v;
AC: 60 kva @ .8 pf, 115/200v, 3 phase 400 Hz;
Input (AC): 220/400v, 3-phase, 60 Hz.

MMG-2 DC: 500 amp constant, 28v,
AC: 30 kva @ .8 pf, 115/200v, 3 phase, 400 Hz;
Input (AC): 220/400v, 3 phase, 60 Hz.

NC-8A/A1 DC: 500 amp constant, 750 amp intermittent, 28v;
AC: 60 kva @ .8 pf, 115/200v, 3 phase, 400 Hz.

NC-10A/A1/B/C DC: 750 amp constant, 1000 amp intermittent, 28v;
AC: 90 kva, 115/200v, 3 phase, 400 Hz.

(2) AIR STARTING UNITS:

GTC-85/GTE-85 120 lbs/min @ 45 psi.

MSU-200NAV/ A/U47A-5
204 lb/min @ 56 psia.

WELLS AIR START 180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. Simultaneous multiple
SYSTEM start capability.

(3) COMBINED AIR AND ELECTRICAL STARTING UNITS:

A/M47A-4 AIR: 195 lb/min @ 75 +/- 5 psia or 120-127 lb/min @ 45 +/- psia.
AC: 115/208v, 15 kw, 0.75 pf.
DC: 28V, 100 amp.

NCPP-105/RCPT 180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. 700 amp, 28v DC.
120/208v, 400 Hz AC, 30 kva.

c. JASU (ARMY)

59B2-1B 28v, 7.5 kw, 280 amp.

d. OTHER JASU

(1) ELECTRICAL STARTING UNITS (DND):

CE1 AC 115/200v, 37.5 kva, 400 Hz, 3 phase

CE2 AC 120/208v, 10kw, 400 Hz, 3 phase

CE3 AC 120/208v, 15kw, 400 Hz, 3 phase

CE4 AC 120/208v, 18 kva, 400 Hz, 3 phase

CE5 AC 120/208v, 10 kva, 400 Hz, 3 phase

CE6 AC 120/208v, 15 kva, 400 Hz, 3 phase

CE7 AC 115v, 5 kva, 400 Hz, 1 phase

CE8 AC 115/200v, 40 kva, 400 Hz, 3 phase

CE9 AC 120/208v, 37.5 kva, 400 Hz, 3 phase

CE10 AC 115/200v, 20 kva, 400 Hz, 3 phase

CE11 AC 120/208v, 8.8 kva, 400 Hz, 3 phase

CE12 AC 115/200v, 140 kva, 400 Hz, 3 phase

CE13 AC 115/200v, 60 kva, 400 Hz, 3 phase

CE14 AC/DC 115/200v, 140 kva, 400 Hz, 3 phase, 28vDC, 1500 amp

CE15 DC 22-35v, 500 amp continuous 1100 amp intermittent

CE16 DC 22-35v, 500 amp continuous 1100 amp intermittent soft start

(2) AIR STARTING UNITS (DND):

CA1	MA1A 36-45 psig, 82-90 lb/min
CA2	ASA 45.5 psig, 116.4 lb/min
CA3	MC11 4000 psig, 15 cu ft/min

(3) COMBINED AIR AND ELECTRICAL STARTING UNITS (DND)

CEA1	AC 120/208v, 60 kva, 400 Hz, 3 phase DC 28v, 75 amp AIR 112.5 lb/min, 47 psig
CEA2	AC 120/208v, 75 kva, 400 Hz, 3 phase AIR 116.4 lb/min, 47 psig

(4) ELECTRICAL STARTING UNITS (OTHER)

AF/M32M-10	28v, 15kw 500 amp 115/200v 15kw 400 Hz 3 phase 20 kva at .75 PF 4 Wire
M32A-13	28v, 150v 300/140v 22 kva 115/200v 400 Hz 3 phase
20 KVA	20 kva, 115-200v AC, 55.5 amp, 3 phase, 4 wire, 400 Hz
A-3AE	DC 24/28, 5v22/40kw
B10, B10A, B10B	28v, 7.5kw, 3kw, 110v: 115/200v, 40 kva at .75 PF, 400 Hz 3 phase 4 wire
BC-3500	Technical data unknown.
C1	10 kva, 120/240v AC, 87 amp single phase, 400 Hz
C3	28/30v DC, 800/1000 amp, 24/30kw
C-21	28v 11kw 2 Wire: 115/200v 8kw 2 Wire 380-900 Hz
C-21-B	11kw 28v DC: 8 kva 380/980 Hz 115v 1 phase AC
C-22	28v 22kw 800-1200 amp: 115/200v 8kw 70 amp 2 wire 380-900 Hz
C-22A	28v 22kw 800-1200 amp: 115/200v 8kw 70 amp 2 wire 380-900 Hz
C-22B	28v 22kw 800-1200 amp: 115/200v 8kw 70 amp 2 wire 380-900 Hz
C-26	28v 45kw 115-200v 15kw 380-800 Hz 1 phase 2 wire
C-26-B, C-26-C	28v 45kw: Split Bus: 115-200v 15kw 380-800 Hz 1 phase 2 wire
C-26-M	DC 28v 1000 amp
DSA 150	28v DC 25 amp, 115/208v AC 15 kva 400 Hz 3 phase 4 wire
DSA 300	28v DC 35 amp 115/200v 30 kva 400 Hz 3 phase 4 wire
DSA 560	16kw 28v DC 800 amp 115/200v AC 400 Hz 3 phase 4 wire
ERNST	20 kva - 45 kva 115/280v, 400 Hz, 10 kw 28v DC
E1	DC 24v, 200-600 amp
E2	DC 28v/9kw
E3	DC 28v/10kw
E4	DC 28v/20kw
E5	DC 28v/35kw
E6	DC 28v/112v 10/40kw
E7	DC 28v/112v 12/50kw
E8	DC 28v/112v 6/44kw
E9	DC 24v
E10	DC/AC 28v/200v 10kw/15 kva
E11	DC/AC 28v/200v 6kw/25 kva
E12	DC/AC 28v/200v 10kw/60 kva
E13	AC 115v/10 kva 2400 Hz
E14	AC 200v/30 kva

(5) ELECTRICAL STARTING UNITS (OTHER) (Pacific, Australia and New Zealand)

E1	28v DC Battery Cart
E2	28v DC, 2.2kw
E3	28v DC, 7.5kw
E4	28v DC, 10kw
E5	28v DC, 15kw
E6	Rectifier starting 28v DC 6kw/30kw Peak
E7	Underground Power, 28v DC 15kw, 120/208 VAC 50 kva
E8	28v DC 10kw, 120/208v AC 60 kva
E9	28v DC 45kw, 120/208v AC 60 kva
E10	28v DC 14kw, 120/208v AC 45 kva
E11	28v DC 15kw, 120/208v AC 15 kva

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E12	28v DC 15kw, 120/208v AC 75 kva
E13	28v DC 15kw, 120/208v AC 90 kva
E14	28v DC 22.5kw, 120/208v AC 30 kva
E15	28v DC 25kw, 120/208v AC 30 kva
E16	28v DC 45kw, 120/208v AC 60 kva
EA1	7.8kw, 28v, 280 amp
EA3, EA3A	22kw, 28v, 800-1200 amp
EA7	28v 1050 amp DC
ECU-9M	28v 1000 amp: 220v, 130 amp, 440v 64 amp
G-6	6kw 28v DC Mk 3
G-10	10kw 28v DC Mk 4
G-38	38kw 24/28/32v DC 800/1000/1200 amp
G-40	40kw DC 1425 amp 28v
PE-75	AC 120v 22 amp
ST-22/28	22kw 28v DC
ST-38	38kw 22/28/33v DC 800/1000/1200 amp
ST-45	45kw 28v DC 60 kva 400 Hz 115/200v 3 phase AC
ST-56	56kw 28v DC 700-1500 amp
ST-60	45kw 28v DC 60 kva 400 \pm 1 Hz 115/200v 1 or 3 phase AC
STR-30	STRUVER 30 kva 115v AC 400 Hz 3 phase
STR-45	STRUVER 45 kva 115v AC 400 Hz 3 phase
TC1	30v DC, 800 amp, 24kw
U1000	DC 600 1200 amp 28v
U1003	DC 600 1200 amp 28v

(6) AIR STARTING UNITS (OTHER):

A1	40psi/1.5 lb per sec (Palouste, LPAS Mk 2A)
A2	38 psi/2 lb per sec (LPAS Mk 10)
A3	38.5 psi/2 lb per sec (LPAS Mk 11, LPAS Mk 4)
A4	40 psi/2 lb/sec (LPAS Mk12, Mk12L, Mk12A, Mk1, Mk2B)
A5	40-1200 psi (HP/LPAS 8 cylinder)
A6	38.5 psi/2 lb/sec (LPOAS Mk 17)
AC-35	Atlas Copco 35 psi/120 lb/min
ACE-37A	3600 psi, 18000 cu in capacity
F-52372	182 lb/min 52.8 psia
GSU-160	47 lb sq in, 112 lb/min
JAS	Turbo Compressor, 35 psi/124 lb/min
JEAS	2100 psia 99 lb/min
MA-1	150 Air HP, 115 lb/min 50 psia
MA-2	250 Air HP, 150 lb/min 75 psia
MJ-1	3000-5000 psi, 30 GPM Flow, 110 HP
TASU	Turbine Air Starting Unit
TC-50	Turbo Compressor

(7) COMBINED AIR AND ELECTRICAL STARTING UNITS (OTHER):

90G-20P	AC 115/200v 3 phase 400 Hz 90 kva
GPE-160	60 kva AC 120/20v, 3 phase 400 Hz AIR 112 lb/min @ 47 psi may have 28v max 1000 amp DC
KM1	30 kva, 115/200v AC 87 amp, 3 phase 4 wire, 400 Hz; 182 Air HP, 121 lb/min, 48 psi
KM2	30 kva, 115/200v AC 87 amp, 3 phase 4 wire, 400 Hz; 182 Air HP, 121 lb/min, 48 psi
KM3	30 kva, 115/200v AC 87 amp, 3 phase 4 wire, 400 Hz; 182 Air HP, 121 lb/min, 48 psi
KM4	15 kva, 115/200v AC 54.2 amp, 3 phase 4 wire, 117 lb/min, 48 psi

MA-1MPSU	28v 500-1000 amp Split Bus 115/200v 25 kw 3 phase 400 Hz 4 Wire, 30 kva 3500 psi 45 psia 1150 Air HP 117 lb/min 13 CFM
MA-2MPSU	30 kva AC 115/200v 3 phase 400 Hz AIR 110 lb/min @ 25 psi and 28v 500/1000 amp DC
RST-180	75 kva AC 115/200v 400 Hz AIR 145-155 lb/min @ 47-51 psi

(8) CARTRIDGE:

MXU-4A	USAF
MXU-129A	USAF
C	Series 9 and 10
CM	Type MXU/4/A/A
C1	Percussion Nr 1, Mk 1
C2	Initiating 1 PN, Nr 2, Mk 2
C3	Initiating 1 PN, Nr 2, Mk 3
C4	Electric Nr 5, Mk 2
C5	Electric Nr 9, Mk 2
C6	Electric Nr 10, Mk 3
C7	Electric Nr 14, Mk 2
F1	AVPIN Fluid
G-91	Cartridge (Shotgun)

23 FUEL - (Fuel, AvOil, supporting fluids/systems, and oxygen.) Fuel available through US Military Base supply, DESC Into-Plane Contracts (Fuel Only) and/or reciprocal agreement is listed first and is followed by (Mil). At commercial airports where Into-Plane contracts are in place, the name of the refueling agent is shown. Military fuel should be used first if it is available. When military fuel cannot be obtained but Into-Plane contract fuel is available, Government aircraft must refuel with the contract fuel and applicable refueling agent to avoid any breach in contract terms and conditions. Fuel not available through the above is shown preceded by NC (no contract). When fuel is obtained from NC sources, local purchase procedures must be followed.

The US Military Aircraft Identaplates DD Form 1896 (Jet Fuel), DD Form 1897 (Avgas) and AF Form 1245 (Avgas) are used at military installations only. The US Government Aviation Into-Plane Reimbursement (AIR) Card (currently issued by Multi Service Corporation (MSC)) is the instrument to be used to obtain fuel under a DESC Into-Plane Contract and for NC purchases if the refueling agent at the commercial airport accepts the AIR CARD. The crew member responsible for ordering, inspecting and accepting the fuel will certify on the ticket that the product type, quality, quantity, and other information is correct. If the AIR Card is electronically swiped, the data transmitted must be certified to be accurate by the appropriate crewmember.

Contractors with Into-Plane contracts are authorized to use commercial delivery receipts or the DD 1898 AVFUEL Sales slip. The responsible crewmember will certify on the ticket that the product type, quality, quantity, and price is correct. Should there be any question as to whether a contract exists at an individual location, a list of current contract locations is available online at:

<http://www.desc.dla.mil>

click "Commerical Airports" button

The Defense Energy Support Center, DESC/PH, Fort Belvoir, VA, can also be contacted by telephone at DSN 427-8500 or commercial (703) 767-8500. Request the Aviation Into-Plane Reimbursement (AIR) Card Program Manager.

a. **FUEL TYPES:** To determine usability and interchangeability of fuels (including fuels not listed); check the brand name, designation of the product available, and refer to: USAF TO 42B1-1-14 or USN current NAVAIR Inst 1034.1 and current NAVAIR Inst 10300.1 or US Army TB 55-9150-200-25.

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(1) US AVIATION FUELS (MIL SPECS)/COMMERCIAL AVIATION FUELS:

<u>FLIP CODE</u>	<u>GRADE</u>	<u>NATO CODE</u>	<u>EEFC</u>
80	(80/87 Mil spec) Grade 80 Gasoline (Red)	F-12	
100	Grade 100 Gasoline (Green)	None	
None	91/96 Octane Gasoline, leaded, No MIL Spec.	None	B91
100LL	(100/130 Mil spec) Grade 100 Gasoline Low Lead (Blue)	F-18	B95, B100
115	(115/145 Mil spec) (Purple)	F-22	BA
A	Jet A, Kerosene, without FS-II*, FP** minus 40°C	None	
A+	Jet A, Kerosene, with FS-II*, FP** minus 40°C	None	
A1	Jet A-1, Kerosene, without FS-II*, FP** minus 47°C	F-35	TS1
A1+	Jet A-1, Kerosene with FS-II*, FP** minus 47°C	F-34	
B	Jet B, Wide Cut, Turbine Fuel without FS-II*, FP** minus 50°C	None	
B+	Jet B, Wide Cut, Turbine Fuel with FS-II*, FP** minus 50°C	None	
J4 (JP4)	(JP-4 Mil spec) FP** minus 58°C	F-40	T2
J5 (JP5)	(JP-5 Mil spec) Kerosene with FS-II, FP** minus 46°C	F-44	T1, T5, T6, T7
J8 (JP8)	(JP-8 Mil spec) Jet A-1, Kerosene with FS-II*, FP** minus 47°C	F-34	
J8+100	(JP-8 Mil spec) Jet A-1, Kerosene with FS-II*, FP** minus 47°C, with fuel additive package that improves thermo stability characteristics of JP-8	None	
J	(Jet Fuel Type Unknown)		

* (Fuel System Icing Inhibitor)
 ** (Freeze Point)

(2) EASTERN EUROPE OIL CODES:

<u>FLIP CODE</u>	<u>DESIGNATION</u>	<u>NEAREST US EQUIVALENT (NEXT NEAREST)</u>
O-MK6	MK-6	MIL-O-6081B, Grade 1010 (1005)
O-MK8	MK-8	MIL-O-6081B, Grade 1010 (1005)
O-MK8P	MK-8P	MIL-O-6081B, Grade 1010 (1005)
O-MK22	MK-22	MIL-O-6082B, Grade 1100 (1065)
O-MS6	MS-6	MIL-O-6081B, Grade 1010 (1005)
O-MS24	MS-24	MIL-O-6081B, Grade 1100 (1065)

b. US AVIATION OILS (MIL SPECS):

<u>FLIP/NATO CODE</u>	<u>GRADE, TYPE</u>
O-113	1065, Reciprocating Engine Oil (MIL-L-6082)
O-117	1100, Reciprocating Engine Oil (MIL-L-6082)
O-117+	1100, O-117 plus cyclohexanone (MIL-L-6082)
O-123	1065, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type III)
O-128	1100, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type II)
O-132	1005, Jet Engine Oil (MIL-L-6081)
O-133	1010, Jet Engine Oil (MIL-L-6081)
O-147	None, MIL-L-6085A Lubricating Oil, Instrument, Synthetic
O-148	None, MIL-L-7808 (Synthetic Base) Turbine Engine Oil
O-149	None, Aircraft Turbine Engine Synthetic, 7.5c St
O-155	None, MIL-L-6086C, Aircraft, Medium Grade
O-156	None, MIL-L-23699 (Synthetic Base), Turboprop and Turboshaft Engines
JOAP	Joint Oil Analysis Program. JOAP support is furnished during normal duty hours, other times on request. (JOAP and SOAP programs provide essentially the same service, JOAP is now the standard joint service supported program)

SOAP

Spectrometric Oil Analysis Program. SOAP support is furnished during normal duty hours, other times on request.

c. SUPPORTING FLUIDS AND SYSTEMS:

FLIP CODE

ADI	Anti-Detonation Injection Fluid-Reciprocating Engine Aircraft
W	Water Thrust Augmentation-Jet Aircraft
WAI	Water-Alcohol Injection Type, Thrust Augmentation-Jet Aircraft
SP	Single Point Refueling
PRESAIR	Air Compressors rated 3,000 PSI or more
De-Ice	Anti-icing/De-icing/Defrosting Fluid (MIL-A-8243)

d. OXYGEN:

LPOX	Low pressure oxygen servicing.
HPOX	High pressure oxygen servicing.
LHOX	Low and high pressure oxygen servicing.
LOX	Liquid oxygen servicing.
OXRB	Oxygen replacement bottles. (Maintained primarily at Naval stations for use in acft where oxygen can be replenished only by replacement of cylinders.)

OX Indicates oxygen servicing when type of servicing is unknown.

NOTE: Combinations of above items is used to indicate complete oxygen servicing available;

LHOXRB Low and high pressure oxygen servicing and replacement bottles;

LPOXRB Low pressure oxygen replacement bottles only, etc.

NOTE: Aircraft will be serviced with oxygen procured under military specifications only. Aircraft will not be serviced with medical oxygen.

e. NITROGEN:

LPNIT - Low pressure nitrogen servicing.

HPNIT - High pressure nitrogen servicing.

LHNIT - Low and high pressure nitrogen servicing.

NIT - Indicates nitrogen servicing when type of servicing is unknown.

24 TRANSIENT ALERT (TRAN ALERT) - service is considered to include all services required for normal aircraft turn-around, e.g., servicing (fuel, oil, oxygen, etc.), debriefing to determine requirements for maintenance, minor maintenance, inspection and parking assistance of transient aircraft. Drag chute repack, specialized maintenance, or extensive repairs will be provided within the capabilities and priorities of the base. Delays can be anticipated after normal duty hours/holidays/weekends regardless of the hours of transient maintenance operation. Pilots should not expect aircraft to be serviced for TURN-AROUNDS during time periods when servicing or maintenance manpower is not available. In the case of airports not operated exclusively by US military, the servicing indicated by the remarks will not always be available for US military aircraft. When transient alert services are not shown, facilities are unknown. NO PRIORITY BASIS-means that transient alert services will be provided only after all the requirements for mission/tactical assigned aircraft have been accomplished.

25 REMARKS - which are pertinent are shown in order of applicability. Airport operating hours are listed first followed by the major headings-RESTRICTIONS (RSTD), CAUTION, TRAFFIC PATTERN (TFC PAT), NOISE ABATEMENT (NS ABTMT), CUSTOMS/AGRICULTURE/IMMIGRATION (CSTMS/AG/IMG), and MISCELLANEOUS (MISC). Remarks applicable to a tenant on the airport are shown as the last entry. Remarks are limited to information determined essential for operational use and are outlined in paragraph 25 a. If a special need exists for publication of data not covered, station commanders should forward request to the appropriate office (listed in Chapter 10 of FLIP General Planning) with full justification of operational need. Paragraph 25 b. contains data not normally published.

a. REMARKS CRITERIA

AIRPORT/FACILITY DIRECTORY LEGEND A-22

(1) Conditions of a permanent or indefinite (60 days or more, 30 days for Europe) nature, regarding aeronautical facilities, procedures or hazards, knowledge of which is essential for safe and efficient operation of aircraft.

(2) Type of Restrictions:

(a) **CLOSED (CLSD)**: When designated closed, the airport is restricted from use by all aircraft unless stated otherwise. Any closure applying to specific type of aircraft or operation will be so stated. USN/USMC/USAF airports are considered closed during non-operating hours. Closed airports may be utilized during an emergency provided there is a safe landing area.

(b) **OFFICIAL BUSINESS ONLY (OFFL BUS ONLY)** The airfield is closed to all transient military aircraft for obtaining routine services such as fueling, passenger drop off or pickup, practice approaches, parking, etc. The airfield may be used by aircrews and aircraft if official government business (including civilian) must be conducted on or near the airfield and PRIOR PERMISSION is received from the airfield manager.

(c) **AF OFFL BUS ONLY OR NAVY OFFL BUS ONLY**: Indicates that the restriction applies only to service indicated.

(d) **PRIOR PERMISSION REQUIRED (PPR)**: Airport is closed to transient aircraft unless approval for operation is obtained from the appropriate commander through Chief, Airfield Management or Airfield Operations Officer. OFFL BUS ONLY or PPR does not preclude the use of US Military airports as an alternate for IFR flights. If a non-US military airport is used as a weather alternate and requires a PPR, the PPR must be requested and confirmed before the flight departs. The purpose of PPR is to control volume and flow of traffic rather than to prohibit it. Prior permission is required for all aircraft requiring transient alert service outside the published transient alert duty hours. All aircraft carrying hazardous materials must obtain prior permission as outlined in AFJI 11-204, AR 95-27, OPNAVINST 3710.7.

NOTE: OFFL BUS ONLY AND PPR restrictions are not applicable to Special Air Mission (SAM) or Special Air Resource (SPAR) aircraft providing person or persons on board are designated Code 6 or higher as explained in AFJMAN 11-213, AR 95-11, OPNAVINST 3722-8J. OFFL BUS ONLY or PPR do not preclude the use of the airport as an alternate for IFR flights.

(3) Obstructions to aircraft operations on or near the airport landing area.

(4) Occurrence or correction of defects or changes in the landing or operating area.

(5) Caution notes relating to extensive aircraft maneuvers which may affect air navigation, i.e., flight training, aircraft testing, flights of uncontrolled or unmanned aircraft.

(6) Traffic pattern data for those USAF, USN and US Army bases (including those on which the US Army is a tenant) that deviate from the standard.

(7) Helicopter approach and departure directions, traffic pattern/holding pattern altitudes.

(8) Special VFR arrival procedures (these may be included in their entirety or by reference to the actual location in the FLIP).

(9) Information on customs, agriculture, and immigration facilities in addition to information, if any, in the Foreign Clearance Guide. If an airport is designated an AOE or LRA, the Foreign Clearance Guide must be consulted.

(10) Seasonal availability.

(11) When base commanders authorize the use of overruns for take-off purposes, a note to this effect may be shown.

b. DATA NOT NORMALLY PUBLISHED

- (1) Any condition which is expected to remain in effect for less than 60 days (30 days for Europe). This includes: Presence or removal of hazardous conditions due to snow, ice, water or temporary obstructions on or adjacent to the landing area; remarks such as "runway slippery when wet", "do not use runway or taxiway", etc.
- (2) Data regarding IFR arrival and departure procedures.
- (3) Temporary shortages of certain types of fuel, starting equipment or other aircraft services.
- (4) Data regarding closures or restrictions at stations due to air shows, close proximity to athletic events, etc.
- (5) Data regarding availability of box lunches, hotel reservations, government transportation, billeting, VIP arrivals, etc.
- (6) Instructions as to how to fly the VFR traffic pattern.

26 COMMUNICATIONS - consists of radio communications (call signs and frequencies) available. Applicable remarks follow appropriate entry.

27 FREQUENCIES - are listed in ascending order in groups following the call sign, e.g., LF/MF, VHF, UHF, HF (any suffix frequencies come last). The primary frequency (when known) will be listed first followed by the secondary. HF frequencies are AM unless otherwise indicated.

28 NAVAIDS - consists of radio aids to navigation which have the same name as the radio facility and/or airport, and different name radio aids to navigation which are located on the airport or are used to furnish final approach guidance on a published DoD instrument approach procedure (high or low) serving the airport. NAVAIDS "At Fld" are located less than 1 NM from the Airport Reference Point. When Bearing and Distance to Fld is used, it represents the magnetic bearing and nautical mile distance from the NAVAID to geographical coordinates shown in Item 7. Where VOR Test Facilities (VOT) are located, the designation VOT and frequency will follow the title "NAVAIDS". For stand-alone NAVAIDS in the continental U.S., "bearing and distance" may reference an airfield in the IFR-S or the VFR-S.

Additional capabilities:

AB Continuous automatic transcribed weather broadcast service.
B Scheduled Weather Broadcast.
CON . . . CONSOLAN LF/MF long range navigational aid; acft must have beat freq oscillator.
D DOPPLER
DME(Y). . TACAN Compatible Distance Measuring Equipment (formerly DMET). (Y) at VOR-DME stations indicates that TACAN must be placed in "Y" mode to receive distance information.

NSME . . Non Standard Measuring Equipment, not TACAN compatible (formerly civil DME)
S Simultaneous range, homing and voice signals available.
TVOR . . Low power terminal VOR.
VAR . . . Visual-aural VHF range.
W Without voice facilities.
Z VHF station location marker.
U Unknown

29 NAVIGATION AID TYPE - will be shown in the following order: VORTAC (combination VOR and TACAN), VOR (VHF omnidirectional range), VOR-DME, TACAN (Tactical Air Navigation) (UHF pulse type omni range and (DME) Distance Measuring Equipment), UHF NDB, LF/MF NDB, L (Locator - An LF/MF NDB used as an aid to final approach), LOM (Compass locator station when installed at outer marker site), LMM (Compass locator station when installed at middle marker site), and VHF/UHF/DF (Direction Finder Service).

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30 RADIO CLASS CODE - will be from the following list:

NDB, NDB-DME

MH - Non-directional radio beacon, power less than 50 watts (25 NM).

H - Non-directional radio beacon, power 50 watts to less than 2000 watts (50 NM).

HH - Non-directional radio beacon, power 2000 watts or more (75 NM).

VOR, VOR-DME, VORTAC, TACAN

HA - Normal anticipated interference-free service below 14,500' AGL - 40 NM; 14,500' - 60,000' AGL 100 NM (contiguous 48 states only); 18,000' - 45,000' AGL 130 NM.

L - Normal anticipated interference-free service 40 NM up to 18,000' AGL.

T - Normal anticipated interference-free service 25 NM up to 12,000' AGL.

U - Unknown.

31 NAVIGATION AID FREQUENCY - VORTAC and/or VOR-DME frequencies are shown with the VHF frequency preceding the Identification and the UHF channel following.

32 IDENTIFICATION - appropriate letter or numerical identifier.

33 FREQUENCY PROTECTION - from interference (where applicable), e.g., (40/50) where 40 indicates 40 NM and 50 indicates altitude in thousands of feet.

34 ELEVATION/VARIATION - is the elevation (MSL) and magnetic variation of the antenna. The airport elevation will be substituted when navaid elevation is unknown (applies to navaids at the field except NDB). The assigned antenna magnetic variation will be shown when available, and indicated by an (A) preceding the variation.

35 REMARKS - applicable remarks follow appropriate Navigation Aid entry. See ENAME, PAA, C&SA, and US IFR Supplement Section C, No-NOTAM PREVENTIVE MAINTENANCE PROCEDURES for weather restrictions.

36 ILS/RADAR - grouping shall consist of the availability of ILS, LOC, LDA, SDF, and RADAR. Pertinent remarks will be shown with the appropriate entry.

a. Instrument Landing System (ILS) used in an approved DoD Instrument Approach Procedure is indicated by the letters "ILS".

b. ILS not used in an approved DoD Instrument Approach Procedure is indicated by an arrowhead (➤) preceding the letters "ILS" followed by the appropriate data.
NOTE: Glide slope frequency is not shown when paired with localizer.

c. Airport Surveillance RADAR (ASR) and/or Precision Approach RADAR (PAR) with DoD approved minima is shown by the statement "RADAR - SEE TERMINAL FLIP FOR RADAR MINIMA".

d. Stations with no approved DoD minima are shown by a ■ preceding the word "RADAR".

e. Installations where IFF/SIF capability does not exist, or where IFF/SIF equipment has not passed an official flight check, will be indicated by the note "IFF/SIF svc not avbl" or "IFF gnd ck only awt flt ck".

37 LOW ALTITUDE FREQUENCIES - are shown in light type.

38 HIGH ALTITUDE FREQUENCIES - are shown in bold type. NOTE: Frequencies in entries containing UACC data only (high altitude) are shown in light type.

39 DISCRETE FREQUENCIES - are identified by the letter d preceding the frequency.

40 FREQUENCY DESIGNATIONS - an alphabetical sequence of services and/or sectors where specific frequencies are assigned, e.g., **ARR/DEP, EAST/WEST, RADAR,** etc., followed by the frequencies.

ABBREVIATIONS

The following abbreviations/acronyms are those used within this supplement. Those preceded by an asterisk are new and will be added to the next issue of FLIP Flight Information Handbook (FIH). Refer to the FIH for a complete list of abbreviations and/or acronyms authorized for FLIP and NOTAM use, or to the Airport/Facility Directory Legend of this supplement for abbreviations/acronyms or codes not included here. Most of the abbreviations presented in this section are intended to represent grammatical variations of the basic term. (Example: "trans" may mean "transmit", "transmitting", "transmitted", "transmitter", or "transmits").

A

AA	Aruba	A-G	Arresting Gear
AAF	Army Air Field	agcy	Agency
AAS	Airport Advisory Service	AGL	above ground level
AB	Airbase	AHP	Army heliport
abm	abeam	AIS	Aeronautical Information Services
abv	above	AJ	Azerbaijan
AC	Antigua & Barbuda	AL	Albania
ACC	Air Combat Command; Area Control Center	AL	Approach and Landing Chart
acft	aircraft	ALF	Auxiliary Landing Field
ACLS	Automatic Carrier Landing System	ALS	Approach Light System
act	activity	ALSF-1	High Intensity ALS Category I configuration with sequenced Flashers (code)
ADA	Advisory Area	ALSF-2	High Intensity ALS Category II configuration with sequenced Flashers (code)
ADCC	Air Defense Control Center	alt	altitude
ADCUS	Advise Customs	altn	alternate
addn	addition	AM	Amplitude Modulation
ADF	Automatic Direction Finder	AM	Armenia
adj	adjacent	AMC	Air Mobility Command
admin	administration	amdt	amendment
ADR	Advisory Route	AMSL	Above Mean Sea Level
adv	advise	AN	Andorra
advy	advisory	ANGS	Air National Guard Station
AE	United Arab Emirates	ant	antenna
AEIS	Aeronautical Enroute Information Service	AO	Angola
AF	Afghanistan	AOE	Airport/Aerodrome of Entry
AFA	Army Flight Activity	AP	Area Planning
AFB	Air Force Base	apch	approach
afct	affect	apn	apron
AFFF	Aqueous Film Forming Foam	APP	Approach Control
AFHP	Air Force Heliport	Apr	April
AFI	African/Indian Ocean (ICAO Region)	aprx	approximate
AFIS	Aerodrome Flight Information Service	APU	Auxiliary Power Unit
afld	airfield	apv	approve
AFOD	Army Flight Operations Detachment	apvl	approval
AFR	Air Force Regulation	AQ	American Samoa
AFRC	Armed Forces Reserve Center/ Air Force Reserve Command	AR	Argentina
AFRS	Armed Forces Radio Stations	ARB	Air Reserve Base
AG	Agriculture	ARCAL	
AG	Algeria	(CANADA)	Aircraft Radio Control of Aerodrome Lighting
A/G	air/ground	ARINC	Aeronautical Radio Inc.
		arg	arrange
		arpt	airport

arr. arrive
 ARS Air Reserve Station
 ARSA Airport Radar Service Area
 ARSR Air Route Surveillance Radar
 ARTCC Air Route Traffic Control
 Center
 AS. Air Station
 AS. Australia
 ASAP as soon as possible
 ASDA Accelerate-Stop Distance
 Available
 ASDE Airport Surface Detection
 asgn assign
 ASL. Above Sea Level
 ASOS Automated Surface Observing
 System
 ASR Airport Surveillance Radar
 ASU Aircraft Starting Unit
 AT. Ashmore & Cartier I
 ATA. Actual Time of Arrival
 ATC Air Traffic Control
 ATCC Air Traffic Control Center
 ATD Actual Time of Departure;
 Along Track Distance
 ATIS Automatic Terminal
 Information Service
 ATS. Air Traffic Service
 attn. attention
 AU Austria
 Aug August
 auth authority
 auto automatic
 AUW. All Up Weight (gross weight)
 aux auxiliary
 AV. Anguilla
 AVASI abbreviated VASI
 avbl available
 AvGas. Aviation gasoline
 avn aviation
 AvOil aviation oil
 AWOS Automatic Weather Observing
 System
 AWSS Automated Weather Sensor
 System
 awt await
 awy. airway
 AY. Antarctica
 az azimuth

B

BA Bahrain
 BA braking action
 BASH Bird Aircraft Strike Hazard
 BB. Barbados
 BC back course
 BC Botswana
 bcn. beacon
 bcst broadcast

BD Bermuda
 bdry boundary
 BE Belgium
 BF. The Bahamas
 BG Bangladesh
 BH Belize
 BK Bosnia and Herzegovina
 BL Bolivia
 bldg building
 blkd blocked
 blw. below
 BM Burma
 BN Benin
 BO Belarus
 BOQ. Bachelor Officers Quarters
 BP. Solomon I
 BQ Navassa I
 BR Brazil
 brg. bearing
 BT. Bhutan
 btn between
 BU Bulgaria
 bus. business
 BV Bouvet I
 BX Brunei
 BY Burundi
 byd. beyond

C

C Commercial Circuit (Telephone)
 CA Canada
 CAC. Centralized Approach Control
 cap. capacity
 CAR Caribbean (ICAO Region)
 CAT Clear Air Turbulence
 cat category
 CB Cambodia
 CCW or counterclockwise
 cntclkw
 CD Chad
 CE Sri Lanka
 ceil ceiling
 CERAP. Center Radar Approach
 Control
 CF Congo
 CG Democratic Republic of the
 Congo
 CGAF. Coast Guard Air Facility
 CGAS. Coast Guard Air Station
 CH channel
 CH China
 chan channel
 CHAPI Chase Helicopter Approach
 Path Indicator
 chg. change
 cht chart
 CI Chile, Easter I
 cir. circle; circling

AIRPORT/FACILITY DIRECTORY LEGEND A-28

CIS Commonwealth of
Independent States
civ. civil; civilian
CJ. Cayman I
ck. check
CK. Cocos (Keeling) I
CL. Centerline Lighting System
cl. class
clnc. clearance
clsd. closed
CM. Cameroon
CN. Comoros
CNATRA. Chief of Naval Air Training
cnl. cancel
cntr. center
cntrln. centerline
CO. Colombia
CO. Commanding Officer
Co. Company; County
com. communication
comd. command
Comdr. Commander
coml. commercial
compul. compulsory
comsn. commission
conc. concrete
cond. condition
const. construction
cont. continue
convl. conventional
coord. coordinate
copter. helicopter
corr. correct
CQ. Northern Mariana I
CR. Coral Sea I
crdr. corridor
cros. cross
CRP. Compulsory Reporting Point
crs. course
CS. call sign
CS. Costa Rica
CSTMS. Customs
CT. Central African Republic
CTA. Control Area
CTAF. Common Traffic Advisory
Frequency
ctc. contact
ctl. control
CTLZ. Control Zone
CU. Cuba
CV. Cape Verde
CVFR. Controlled Visual Flight Rules
Areas
CW. Clockwise; Continuous Wave;
Carrier Wave
CW. Cook I
CY. Cyprus

D

DA. Denmark
daylt. daylight
db. decibel
Dec. December
decom. decommission
deg. degree
dep. depart
DEP. Departure Control
destn. destination
det. detachment
DF. Direction Finder
DH. Decision Height
direc. directional
disem. disseminate
displ. displace
dist. district; distance
div. division
DJ. Djibouti
DL. Direct Line to FSS
dlt. delete
dly. daily
DME. Distance Measuring Equipment
(UHF standard, TACAN
compatible)
DNVT. Digital Non-Secure Voice
Telephone
DO. Dominica
DoD. Department of Defense
DQ. Jarvis I
DR. Dominican Republic
drct. direct
DSN. Defense Switching Network
DT. Daylight Savings Time
dur. during
DV. Distinguished Visitor

E

E. East
ea. each
EAT. Expected Approach Time
EC. Ecuador
ECN. Enroute Change Notice
eff. effect
EG. Egypt
E-HA. Enroute High Altitude
EI. Ireland
EK. Equatorial Guinea
E-LA. Enroute Low Altitude
elev. elevation
EMAS. Engineered Material Arresting
System
emerg. emergency
EN. Estonia
eng. engine
EOR. End of Runway
eqpt. equipment

ER.....Eritrea
 ERDA.....Energy Research and
 Development Administration
 ES.....El Salvador
 E-S.....Enroute Supplement
 est.....estimate
 estab.....establish
 ET.....Ethiopia
 ETA.....Estimated Time of Arrival
 ETD.....Estimated Time of Departure
 ETE.....Estimated Time Enroute
 ETS.....European Telephone System
 EU.....Europa I
 EUR.....European (ICAO Region)
 ev.....every
 evac.....evacuate
 exc.....except
 excld.....exclude
 exer.....exercise
 exm.....exempt
 exp.....expect
 extn.....extend; extension
 extv.....extensive
 EZ.....Czech Republic

F

FAA.....Federal Aviation
 Administration
 fac.....facility
 FAWS.....Flight Advisory Weather
 Service
 fax.....facsimile
 FBO.....Fixed Base Operator
 FCC.....Flight Control Center
 FCG.....Foreign Clearance Guide
 FCPL.....field carrier landing practice
 fcst.....forecast
 Feb.....February
 FG.....French Guiana
 FI.....Finland
 FIC.....Flight Information Center
 FIH.....Flight Information Handbook
 FIR.....Flight Information Region
 FIS.....Flight Information Service
 FJ.....Fiji
 FK.....Falkland I incl South Georgia I
 and South Sandwich I
 FL.....flight level
 fld.....field
 flg.....flashing
 FLIP.....Flight Information Publication
 flt.....flight
 flw.....follow
 FM.....Federated States of Micronesia
 FM.....Fan Marker, Frequency
 Modulation
 FO.....Faroe I

FOC.....Flight Operations Center
 FOD.....Foreign Object Damage
 fone.....telephone
 FP.....French Polynesia
 fpm.....feet per minute
 FQ.....Baker I
 FR.....France, Corsica
 fr.....from
 freq.....frequency; frequent
 Fri.....Friday
 frng.....firing
 FS.....French Southern & Antarctic I
 FSC.....Flight Service Center
 FSS.....Flight Service Station
 ft.....foot
 ftr.....fighter
 F/W.....Fixed Wing

G

GA.....Gambia
 GA.....Glide Angle
 gal.....gallon
 GAT.....General Air Traffic (Europe-
 Asia)
 GB.....Gabon
 GCA.....ground control approach
 GCO.....Ground Communication Outlet
 GG.....Georgia
 GH.....Ghana
 GI.....Gibraltar
 GJ.....Grenada
 GK.....Guernsey
 GL.....Greenland
 gldr.....glider
 GM.....Germany
 gnd.....ground
 GND.....Ground Control
 GO.....Glorioso I
 govt.....government
 GP.....Glide Path
 Gp.....Group
 GP.....Guadeloupe
 GPI.....Ground Point of Intercept
 GQ.....Guam
 GR.....Greece, Crete
 grad.....gradient
 grd.....guard
 GS.....glide slope
 GT.....Guatemala
 GV.....Guinea
 GWT.....gross weight
 GY.....Guyana
 GZ.....Gaza Strip

H

H.....Enroute High Altitude Chart
 (followed by identification)

AIRPORT/FACILITY DIRECTORY LEGEND A-30

H+Hours or hours plus ... minutes
past the hour
H24.continuous operation
HAHaiti
HAAHeight Above Airport/
Aerodrome
HALHeight Above Landing Area
HARHeight Above Runway
HATHeight Above Touchdown
hazhazard
hdg.heading
HDTAHigh Density Traffic Airport/
Aerodrome
HFHigh Frequency (3000 to
30,000 KHz)
hgrhangar
hgtheight
HIHawaii
hihigh
HIRLHigh Intensity Runway Lights
HIWASHazardous Inflight Weather
Advisory Service
HKHong Kong
HKSARHong Kong Special
Administrative Region
HMHeard I & McDonald I
HOHonduras
HOService available to meet
operational requirements
holholiday
HOLFHelicopter Outlying Field
hosphospital
HQHeadquarters
HQHowland I
HRCroatia
hrhour
HS.Service available during hours
of scheduled operations
hsghousing
HUHungary
hvyheavy
HW.Heavy Weight
hwy.highway
HXstation having no specific
working hours
Hz.Hertz (cycles per second)

I

IIsland
IASIndicated Air Speed
IAWin accordance with
ICIceland
ICAOInternational Civil Aviation
Organization
IDIndonesia
ident.identification
IFFIdentification, Friend or Foe

IFRInstrument Flight Rules
IFR-S.FLIP IFR Supplement
IFSSInternational Flight Service
Station
IM.Inner Marker
IM.Isle of Man/Ronaldsway
IMCInstrument Meteorological
Conditions
IMGImmigration
immedimmediate
INIndia
inactv.inactive
inbdinbound
IncIncorporated
inclinclude
indef.indefinite
info.information
inopinoperative
inst.instrument
instlinstall
instrinstruction
intintersection
intcntl.intercontinental
intcp.intercept
intlinternational
intmtintermittent
intsintense
IO.British Indian Ocean Territory
(Diego Garcia)
IPClipperton I
IRIran
ISIsrael
ISMLS.Interim Standard Microwave
Landing System
ITItaly, Sardinia, and Sicily
IVIvory Coast
IZIraq

J

JA.Japan, Bonin I, Volcano I,
Minami-Torishima I, Ryukyu I
and Okinawa
JanJanuary
JATOJet Assisted Take-Off
JEJersey
JMJamaica
JNJan Mayen
JOJordan
JOAPJoint Oil Analysis Program
JOSAC.Joint Operational Support
Airlift Center
JQJohnston Atoll
JRB.Joint Reserve Base
JU.Juan De Nova I
JulJuly
JunJune

K

K or KtKnots
 KE.....Kenya
 KG.....Kyrgyzstan
 kHz.....kilohertz
 KIAS.....Knots Indicated Airspeed
 KLIZ.....Korea Limited Identification
 Zone
 km.....Kilometer
 KN.....Korea, Dem. Peoples Rep. of
 (North)
 KQ.....Kingman Reef
 KR.....Kiribati (Butaritari, Canton,
 Christmas I, and Tarawa)
 KS.....Korea, Republic of (South)
 KT.....Christmas I
 KU.....Kuwait
 kw.....kilowatt
 KZ.....Kazakhstan

L

L.....Compass locator (Component
 of ILS system) under 25 Watts,
 15 NM; Enroute Low Altitude
 Chart (followed by
 identification)
 L.....Local Time
 LA.....Laos
 L-AOE.....Limited Airport of Entry
 LAWRS.....Limited Aviation Weather
 Reporting Station
 lb.....pound (weight)
 lcl.....local
 LCP.....French Peripheral Classification
 Line
 lctd.....located
 lctn.....location
 lctr.....locator
 LCVASI.....Low Cost Visual Approach
 Slope Indicator
 lczr.....localizer
 LDA.....Landing Distance Available
 ldg.....landing
 LDIN.....Lead-in Lights
 LE.....Lebanon
 len.....length
 LG.....Latvia
 lgt.....light
 lgtd.....lighted
 LH.....Lithuania
 LI.....Liberia
 LIRL.....Low Intensity Runway Lights
 LLWAS.....Low-Level Wind Shear Alert
 System
 LLZ.....Localizer (Instrument Approach
 Procedures Identification only)
 lo.....low

LO.....Slovakia
 LoALT or LA.....Low Altitude
 LOC.....Localizer (For Instrument
 Approach Procedures only)
 LQ.....Palmyra Atoll
 LR.....Long Range; Lead Radial
 LRA.....Landing Rights Airport
 LS.....Liechtenstein
 LSB.....lower side band
 LT.....Lesotho
 ltd.....limited
 LU.....Luxembourg
 LY.....Libya

M

M.....meters, magnetic (after a
 bearing); Military Circuit
 (Telephone)
 MA.....Madagascar
 MACC.....Military Area Control Center
 mag.....magnetic
 maint.....maintain; maintenance
 maj.....major
 MALS.....Medium Intensity Approach
 Lighting System
 MALSF.....MALS with Sequenced Flashers
 MALSR.....MALS with Runway Alignment
 Indicator Lights
 Mar.....March
 MARA.....Military Activity Restricted
 Area
 MATO.....Military Air Traffic Operations
 MATZ.....Military Aerodrome Traffic
 Zone
 max.....maximum
 MB.....Martinique
 mb.....millibars
 MC.....Macau
 MCAC.....Military Common Area Control
 MCAF.....Marine Corps Air Facility
 MCALF.....Marine Corps Auxiliary Landing
 Field
 MCAS.....Marine Corps Air Station
 MCB.....Marine Corps Base
 MCC.....Military Climb Corridor
 MCOLF.....Marine Corps Outlying Field
 MD.....Moldova
 MDA.....Minimum Descent Altitude
 MEA.....Minimum Enroute Altitude
 med.....medium
 MEHT.....Minimum Eye Height over
 Threshold
 mem.....memorial
 MET.....Meteorological; Meteorology
 METAR.....Aviation Routine Weather
 Report (in international MET
 figure code)
 METRO.....Pilot-to-Metro voice call

AIRPORT/FACILITY DIRECTORY LEGEND A-32

MFMayotte
 MFMedium Frequency (300 to
 3000 KHz);
 Mandatory Frequency (Canada)
 MFAMinimum Flight Altitude
 MGMongolia
 mgrmanager
 MHMontserrat
 MHzMegahertz
 MIMalawi
 MID/ASIA...Middle East/Asia (ICAO
 Region)
 MIJIMeaconing, Intrusion,
 Jamming, and Interference
 milmilitary
 minminimum; minute
 MIRLMedium Intensity Runway
 Lights
 mislmissile
 MKThe former Yugoslav
 Republic of Macedonia
 mkrmarker (beacon)
 MLMali
 MLSMicrowave Landing System
 MMMiddle Marker, ILS
 MMLSMobile Microwave Landing
 System
 MNMonaco
 mntmonitor
 MOMorocco
 MOAMilitary Operations Area
 MOCAMinimum Obstruction
 Clearance Altitude
 modmodify
 MonMonday
 MPmaintenance period
 MPMauritius
 MQMidway I
 MRMauritania
 MRMedium Range
 MRAMinimum Reception Altitude
 mrkmark; marker
 msgmessage
 MSLMean Sea Level
 msnMission
 MTMalta
 mtmount; mountain
 MTAFMandatory Traffic Advisory
 Frequency
 MTCAMilitary Terminal Control Area
 mthlymonthly
 MUOman
 MUACMilitary Upper Area Control
 municipal
 MVMaldives
 MXMexico
 MYMalaysia
 MZMozambique

N

NNorth
 N/Anot applicable
 NAnot authorized (For Instrument
 Approach Procedure take-off
 and alternate MINIMA only)
 NAASNaval Auxiliary Air Station
 NADCNaval Air Development Center
 NADEPNaval Air Depot
 NAESNaval Air Engineering Station
 NAFNaval Air Facility
 NALONavy Air Logistics Office
 NALFNaval Auxiliary Landing Field
 NASNaval Air Station
 NATNorth Atlantic (ICAO Region)
 natlnational
 navnavigation
 navaidnavigation aid
 NAVMTO...Navy Material Transportation
 Office
 NAWCNaval Air Warfare Center
 NAWSNaval Air Weapons Station
 NCNew Caledonia
 NCRPNon-Compulsory Reporting
 Point
 NDBNon-Directional Radio Beacon
 NENiue
 NENortheast
 necnecessary
 NEWNet Explosives Weight
 NFNorfolk I
 NGNiger
 ngtnight
 NHVanuatu
 NINigeria
 NLNetherlands
 NMnautical miles
 nmlnormal
 NONorway
 No or Nr ...number
 NOLFNaval Outlying Field
 NORDOLost communications or no
 radio installed/available in
 aircraft
 NOTAMNotice to Airmen
 NovNovember
 NPNepal
 NRNauru
 Nr or No ...number
 NSNaval Station
 NSSuriname
 NSANaval Support Activity
 NS ABTMT...Noise Abatement
 NSFNaval Support Facility
 nstdnonstandard
 NTNetherlands Antilles
 ntcnotice

NUNicaragua
 NVDNight Vision Devices
 NWNorthwest
 NWCNaval Weapons Center
 NZNew Zealand

O

O/AOn or about
 OATOperational Air Traffic
 obsnobservation
 obstobstruction
 OCAOceanic Control Area
 ocnloccasional
 OctOctober
 ODALSOmnidirectional Approach
 Lighting System
 OICOfficer In Charge
 ODOOperations Duty Officer
 offlofficial
 OLFOutlying Field
 OLSOptical Landing System
 OMOuter Marker, ILS
 oproperate; operator
 OPSOperations
 O/Ron request
 origoriginal
 OROCAOff Route Obstruction
 Clearance Altitude
 ORTCAOff Route Terrain Clearance
 Altitude
 O/Sout of service
 OTother times
 outbdoutbound
 ovftoverflight
 ovrnoverrun
 OXoxygen

P

PAParaguay
 PACPacific (ICAO Region)
 PALSPrecision Approach and
 Landing System (NAVY)
 PAPIPrecision Approach Path
 Indicator
 PARPrecision Approach Radar
 paraparagraph
 parlparallel
 patpattern
 PAXPassenger
 PCPitcairn I
 PEPeru
 pentpenetrate
 permpermanent
 permspermission
 perspersonnel
 PFParcel I
 PFCPorous Friction Courses

PGSpratly I
 PJEParachuting Activities/
 Exercises
 PKPakistan
 P/Lplain language
 PLPoland
 p-linepole/power line
 PMPanama
 PMPost meridian, noon til
 midnight
 PMRFPacific Missile Range Facility
 PMSVPilot-to-Metro Service
 PNprior notice
 POPortugal, incl Azores and
 Madeira I
 POBpersons on board
 POLPetrol, Oils and Lubricants
 posnposition
 PPPapua New Guinea
 PPRPrior Permission Required
 prchtparachute
 prefprefer
 prevprevious
 primprimary
 prkpark
 proprocedure
 prohprohibited
 PSRepublic of Palau
 ptpoint
 PTDPilot to Dispatcher
 PUGuinea-Bissau
 pubpublication
 publpublish
 PVASIPulsating Visual Approach
 Slope Indicator
 pvtprivate
 pwrpower

Q

QAQatar
 QFEAltimeter Setting above station
 QNEAltimeter Setting of 29.92
 inches which provides height
 above standard datum plane
 QNHAltimeter Setting which
 provides height above mean
 sea level
 qtrsquarters
 quadquadrant

R

R-AOERegular Airport of Entry
 RACONRadar Beacon
 radradius; radial
 RAILRunway Alignment Indicator
 Lights

AIRPORT/FACILITY DIRECTORY LEGEND A-34

RAMCCRegional Air Movement
 Control Center
 RAPCONRadar Approach Control
 (USAF)
 RATCFRadar Air Traffic Control
 Facility (Navy)
 RCAGRemote Center Air to Ground
 Facility
 RCLrunway centerline
 RCLSRunway Centerline Light
 System
 RCORemote Communications
 Outlet
 rcptreception
 RCRRunway Condition Reading
 rcvreceive
 rcvrreceiver
 rdoradio
 REReunion
 reconstreconstruct
 refuelrefueling
 regregulation; regular
 REILRunway End Identifier Lights
 relreliable
 relctdrelocated
 REPReporting Point
 reqrequest
 RETILRapid Exit Taxiway Indicator
 Light
 RgnRegion
 RgnlRegional
 rgtright
 rlgdrealigned
 RMRepublic of the Marshall I
 rmkremark
 rngrange; radio range
 RNPRequired Navigation
 Performance
 RORomania
 RONRemain Overnight
 Rot Lt or Bcn .Rotating Light or Beacon
 RPPhilippines
 RPIRunway Point of Intercept
 rptreport
 RQPuerto Rico
 rqrrequire
 RRRailroad
 RRPRunway Reference Point
 RSRussia
 RSDURadars Storm Detection Unit
 RSRsReduced Same Runway
 Separation
 rstdrestricted
 R/TRadiotelephony
 rteroute
 rufrough
 RVRRunway Visual Range

RVSMReduced Vertical Separation
 Minima
 R/WRotary/Wing
 RWRwanda
 rwyrunway

S

SSouth
 SASaudi Arabia
 SALSShort Approach Lighting
 System
 SARSearch and Rescue
 SatSaturday
 SAVASISimplified Abbreviated Visual
 Approach Slope Indicator
 SAWRSSupplement Aviation Weather
 Reporting Station
 SBSt. Pierre & Miquelon
 sbystandby
 SCSt. Kitts & Nevis
 Schedscheduled services
 sctrsector
 S/DSeadrome
 SDFSimplified Directional Facility
 SESeychelles
 SESoutheast
 secsecond; section
 secdsecondary
 SELCALSelective Calling System
 SEngSingle Engine
 SepSeptember
 SFSouth Africa
 SFASingle Frequency Approach
 sfcsurface
 SFLSequence Flashing Lights
 SGSenegal
 SHSt. Helena, incl Ascension I
 SISlovenia
 SIDStandard Instrument Departure
 SIFSelective Identification Feature
 skedschedule
 SLSierra Leone
 SMSan Marino
 SMstatute miles
 SNSingapore
 SOSomalia
 SOAPSpectrometric Oil Analysis
 Program
 SOFSupervisor of Flying
 SPSpain, incl Canary I
 SRSunrise
 SRESurveillance Radar Element of
 GCA (Instrument Approach
 Procedures Identification only)
 SSSunset
 SSALS/RSimplified Short Approach
 Lighting System/with RAIL
 SSBSingle Sideband

SSR.....Secondary Surveillance Radar
 ST.....St. Lucia
 std.....standard
 stn.....station
 stor.....storage
 str-in.....Straight-in
 stu.....student
 SU.....Sudan
 subj.....subject
 sum.....summer
 Sun.....Sunday
 sur.....surround
 survl.....survival; surveillance
 suspd.....suspended
 SV.....Svalbard
 svc.....service
 svcg.....servicing
 SW.....Southwest
 SW.....Sweden
 SY.....Syria
 sys.....system
 SZ.....Switzerland

T

TA.....Transition Altitude
 TAF.....Aerodrome (terminal or
 alternate) forecast in
 abbreviated form
 TALCE.....Tanker Aircraft Control
 Element
 TCA.....Terminal Control Area
 TCH.....Threshold Crossing Height
 TCTA.....Transcontinental Control Area
 TD.....Touchdown
 TD.....Trinidad and Tobago
 TDWR.....Terminal Doppler Weather
 Radar
 TDZ.....Touchdown Zone
 TDZL.....Touchdown Zone Lights
 TE.....Tromelin I
 tfc.....traffic
 TH.....Thailand
 thld.....threshold
 thou.....thousand
 thru.....through
 Thu.....Thursday
 TI.....Tajikistan
 til.....until
 TK.....Turks & Caicos I
 tkof.....take-off
 TL.....Tokelau
 TLv.....Transition Level
 tmpry.....temporary
 TN.....Tonga
 TO.....Togo
 TODA.....Take-Off Distance Available
 TORA.....Take-Off Run Available
 TP.....Sao Tome and Principe

TP.....Tire Pressure
 TRACON.....Terminal Radar Approach
 Control (FAA)
 tran.....transient
 trans.....transmit
 trml.....terminal
 trng.....training
 trns.....transition
 TRSA.....Terminal Radar Service Area
 TS.....Tunisia
 TT.....East Timor
 TU.....Turkey
 Tue.....Tuesday
 TV.....Television
 TV.....Tuvalu I
 TW.....Taiwan
 TWEB.....Transcribed Weather Broadcast
 twr.....tower
 twy.....taxiway
 TX.....Turkmenistan
 TZ.....United Republic of Tanzania

U

UACC.....Upper Area Control Center
 (used outside US)
 UCN.....Urgent Change Notice
 UDA.....Upper Advisory Area
 UDF.....Ultra High Frequency Direction
 Finder
 UFN.....until further notice
 UG.....Uganda
 UHF.....Ultra High Frequency (300 to
 3000 MHz)
 UK.....United Kingdom
 UIR.....Upper Flight Information
 Region
 unauthd.....unauthorized
 unavbl.....unavailable
 unctl.....uncontrolled
 unk.....unknown
 unlgtd.....unlighted
 unltd.....unlimited
 unmrk.....unmarked
 unmtto.....unmonitored
 unrel.....unreliable
 unrst.....unrestricted
 unsatfy.....unsatisfactory
 unsked.....unscheduled
 unsvc.....unserviceable
 unuse.....unusable
 UP.....Ukraine
 US.....United States
 USA.....United States Army
 USAF.....United States Air Force
 USB.....Upper Side Band
 USCG.....United States Coast Guard
 USN.....United States Navy
 UTA.....Upper Control Area

AIRPORT/FACILITY DIRECTORY LEGEND A-36

UTC Coordinated Universal Time
UV Burkina Faso
UY Uruguay
UZ Uzbekistan

V

V Defense Switching Network
(telephone, formerly
AUTOVON)
VAL Visiting Aircraft Line
VASI Visual Approach Slope
Indicator
VC St. Vincent and the Grenadines
vcnty vicinity
VDF Very High Frequency Direction
Finder
VE Venezuela
veh vehicle
vert vertical
VFR Visual Flight Rules
VFR-S FLIP VFR Supplement
VHF Very High Frequency (30 to 300
MHz)
VI Virgin I (UK)
VIP Very Important Person
vis visibility
VM Vietnam
VMC Visual Meteorological
Conditions
VOLMET Meteorological Information for
Aircraft in Flight
VOT VOR Receiver Testing Facility
VQ Virgin I (US)
V/STOL Vertical and Short Take-off and
Landing aircraft
VT Vatican City

W

W Warning Area (followed by
identification); Watts; West;
White
WA Namibia
WCH Wheel Crossing Height
WE West Bank
Wed Wednesday
WF Wallis and Futuna I
Wg Wing
WI Western Sahara
WIE with immediate effect
win winter
WIP work in progress
wk week
wkd weekday
wkly weekly
wng warning
wo without
WQ Wake I
WS Western Samoa
WSP Weather System Processor
wt weight
wx weather
WZ Swaziland

Y

yd yard
YI Serbia and Montenegro
YM Yemen
yr year

Z

Z Greenwich Mean Time (time
groups only)
ZA Zambia
ZI Zimbabwe

SECTION B

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AIRPORT/FACILITY DIRECTORY B-2

CITY/AIRPORT CROSS REFERENCE

Listing of airports in the Airport/Facility Directory are by the airport name. The following city/airport cross reference listing provides alphabetical listings by city to cover those specific instances where the two names differ, and where the city name is not the first part of the airport name. City names are in capitals and lower case followed by the state/country abbreviation. Airport names are in capitals.

A

Adler, RS SOCHI
Anadyr, RS UGOLNY
Anapa, RS VITYAZEVO
Arkhangelsk, RS TALAGI

B

Baku, AJ HEYDAR ALIYEV
Beijing, CH CAPITAL INTL
Bishkek, KG MANAS
Blagoveschensk, RS IGNATYEVO

C

Changchun, CH LONGJIA
Changsha, CH HUANGHUA
Chelyabinsk, RS BALANDINO
Chengdu, CH SHUANGLIU
Chita, RS KADALA
Chongqing, CH JIANGBEI

D

Dalian, CH ZHOUSHUIZI

F

Fuzhou, CH CHANGLE

G

Guanghouz, CH BAIYUN INTL
Guilin, CH LIANGJIANG
Gyumri, AM SHIRAK

H

Haikou, CH MEILAN
Hailar, CH DONGSHAN
Harbin, CH TAIPING
Hefei, CH LUOGANG
Hohhot, CH BAITA

J

Jinan, CH YAOQIANG

K

Kaliningrad, RS KHRABROVO

Kaunas, LH S DARIAUS
Khabarovsk, RS NOVY
Kharkiv, UP OSNOVA INTL
Krasnodar, RS PASHKOVSKIY
Krasnoyarsk, RS YEMELYANOVO
Kryvyi RIH, UP LOZUVATKA INTL
Kunming, CH WUJIABA
KUTAIISI, GG KOPITNARI
Kyiv, UP BORYSPIL INTL
Kyiv, UP ZHULIANI INTL

L

Lanzhou, CH ZHONGCHUAN

M

Magadan, RS SOKOL
Makhachkala, RS UYTASH
Moscow, RS DOMODEDOVO
Moscow, RS SHEREMETYEVO
Moscow, RS VNUKOVO
Mudanjiang, CH HAILANG

N

NANCHANG, CH CHANGBEI INTL
Nanjing, CH LUKOU
Nanning, CH WUXU
Neryungri, RS CHULMAN
Ningbo, CH LISHE
Nizhny Novgorod, RS STRIGINO
Norilsk, RS ALYKEL
Novosibirsk, RS TOLMACHEVO

O

Obukhovo, BO GRODNO
Omnogobi, MG DALANZADGAD

P

Perm, RS BOLSHOYE SAVINO
Petrovavlovsk-Kamchatsky, RS YELIZOVO
Petrozavodsk, RS BESOVETS

Q

Qingdao, CH LIUTING
QIQIHAR, CH SANJIAZI

S

Samara, RS KURUMOC
 Sankt Peterburg, RS PULKOVO
 Sanya, CH PHOENIX INTL
 Saratov, RS TSENTRALNY
 Shanghai, CH HONGQIAO INTL
 Shanghai, CH PUDONG
 Shenyang, CH TAOXIAN
 Shenzhen, CH BAOAN INTL
 Shijiazhuang, CH ZHENG DING
 Stavropol, RS SHPAKOVSKOYE
 Sukhbaatar, MG BARUUN URT

T

Taiyuan, CH WUSU
 Tashkent, UZ YUZHNY
 Tianjin, CH BINHAI
 Tver, RS MIGALOVO
 Tyumen, RS ROSCHINO

U

Ulaanbaatar, MG CHINGGIS KHAAN INTL
 Ulan Ude, RS MUKHINO
 Ulyanovsk, RS VOSTOCHNY
 Urumqi, CH DIWOPU

V

Vladikavkaz, RS BESLAN
 Vladivostok, RS KNEVICH
 Volgograd, RS GUMRAK
 Voronezh, RS CHERTOVITSKOYE

W

WEIHAI, CH DASHUIPO
 Wuhan, CH TIANHE

X

Xi'an, CH XIANYANG
 Xiamen, CH GAOQI
 Xichang, CH QINGSHAN
 Xishuangbanna, CH GASA

Y

Yantai, CH LAISHAN
 Yaroslavl, RS TUNOSHNA
 Yekaterinburg, RS KOLTSOVO
 Yerevan, AM ZVARTNOTS
 Ysykkul, KG TAMCHY
 Yuzno-Sakhalinsk, RS KHOMUTOVO

Z

Zaporizhzhia, UP ZAPORIZHZHIA INTL
 Zhengzhou, CH XINZHENG

AIRPORT/FACILITY DIRECTORY B-4

AIRPORT/FACILITY DIRECTORY

ABAKAN, RS UNAA CIV N53°44.40' E91°23.10' 831 UTC+7(+8DT) **6G**
RWY-02L (4265x92 ASP) **RWY-20R**
RWY-02C (8202x263 GR5) **RWY-20C**
RWY-02R L7,20 (10663x148 ASP PCN 98 F/B/W/T) **L7,20 RWY-20L**
9023→ ←9843

SERVICE - FUEL - (NC-TS-1)

COMMUNICATIONS - ATIS - 126.2 **APP** - Opr HO. **(R)** 134.3 **TWR** - Call START. Opr HO.
Also svc as TWR and TAXIING. 122.0 **ASR** - Call KRUG. Opr HO. 120.6

NAVAIDS - ABAKAN VORW-DME - HA 113.300 ABK CH 80 N53°44.70' E91°23.10' At Fld.
830/(A)4°00.0'E **ABAKAN NDB** - HHW 360.000 AK N53°46.00' E91°24.30' 199° 1.8 NM
to Fld. Unk/4°19.1'E **ABAKAN NDB** - HHW 360.000 AB N53°41.90' E91°21.00' 022°
2.8 NM to Fld. Unk/4°19.3'E **VHF/DF**

ILS/RADAR - ➔ **ILS** - BRG 021° LCZR IAB 110.3 GS 2.4° LOM AB 360 ➔ **ILS** - BRG 201° LCZR
IAK 109.9 GS 3.1° LOM AK 360 ■ **RADAR** - ASR - Call ABAKAN KRUG 120.6 Opr HO.

AGINSKOYE, RS NDB - HHW 921.000 RO N55°16.00' E94°49.00' Unk/2°55.9'E **6G**

AGOY, RS NDB - HHW 381.000 AG N44°08.00' E39°02.00' Unk/5°58.8'E **4J**

AKCHI, KZ NDB - HW 288.000 AI N43°58.33' E76°20.15' Unk/5°06.2'E **5D,7A**

AKHSU, AJ NDB - HW 420.000 AU N40°34.00' E48°23.00' Unk/5°28.3'E Opr
0100-1700Z++ **5A**

AKKOL, KZ NDB - HW 905.000 OL N43°25.00' E70°45.00' Unk/5°35.5'E **5C,7A**

AKSINYINO, RS NDB - HHW 732.000 QO N55°09.00' E38°17.40' Unk/9°34.5'E
2F,T-1E

AKTAU ACC, KZ UATE (R) CON - 134.3 134.3 **RDO** - (8951 daylt) (4669 ngt)
VHF/DF 5A, B, 6E

AKTAU, (AKSHUKYR) KZ UATE CIV N43°51.60' E51°05.52' 73 UTC+5 **5A**
RWY-12 L7,12 (8700x147 ASP PCN 30 F/C/Y/T) **L7,12 RWY-30**
RWY-12L (9630x150 GRE) **RWY-30R**

SERVICE - FUEL - (NC-B91, BA, A1) **FLUID** - OX **OIL** - O-MK8P, MS-22

REMARKS - RSTD - The first 328' (100m) of Rwy 12-30 unuse for tkof. **CAUTION** - 4-eng
acft should taxi via Rwy, Twy 1 and apron on inner eng pwr only.

COMMUNICATIONS - APP - Call KRUG 124.2 **TWR** - Call Start 120.7 **RDO** - 8951 4669

NAVAIDS - AKTAU VORW-DME - HA 113.300 AKT CH 80 N43°51.52' E51°06.12' At Fld.
72/(A)6°00.0'E **AKTAU NDB/LOM** - HW 670.000 TA N43°50.06' E51°08.83' 296° 2.9 NM
to Fld. Unk/6°36.7'E **AKTAU NDB/LOM** - HW 670.000 AU N43°53.18' E51°02.11' 116°
2.9 NM to Fld. Unk/6°37.8'E

ILS/RADAR - ➔ **ILS** - BRG 116° LCZR IAU 109.5 LOM AU 670 GS 2.4° ➔ **ILS** - BRG 296° LCZR
ITA 111.1 LOM TA 670 GS 2.4° ■ **RADAR** - ASR - Call Krug 124.2 Opr HO.

AKTYUBINSK ACC, KZ UATT (CIV) (V) CON - 132.1 132.1 **135.4** 135.4 **RDO** -
8951 Day 4669 Ngt **5B,6E**

AKTYUBINSK, KZ UATT CIV N50°14.75' E57°12.40' 738 UTC+5 **5B, 6E**
RWY-13 L2,5,11 (10160x196 CON PCN 28 R/A/X/T) **L2,5,11 RWY-31**

SERVICE - FUEL - (NC-B91, BA, A1) **FLUID** - OX **OIL** - O-MK8

REMARKS - CAUTION - Taxiing of widebody acft only on Twy 2. **MISC** - Parl grass rwy is S
of prim rwy. **RWY** - First 33' of Rwy 13/31 are unuse for tkof.

COMMUNICATIONS - APP - 120.9 **TWR** - 120.9

NAVAIDS - AKTYUBINSK VORW-DME - HA 113.400 AKB CH 81 N50°15.78' E57°11.03' 130° 1.4 NM to Fld. 735/(A)8°0.0'E **AKTYUBINSK LOM NDB/LOM** - HW 323.000 AT N50°16.86' E57°09.14' 125° 3.0 NM to Fld. Unk/9°44.5'E
AKTYUBINSK LOM NDB/LOM - HW 323.000 TU N50°12.66' E57°15.64' 305° 3.0 NM to Fld. Unk/9°42.3'E **VHF/DF**

ILS/RADAR - ➔ **ILS** - BRG 126° LCZR IAT 111.7 GS 2.67° LOM AT 323 ➔ **ILS** - BRG 306° LCZR ITU 110.5 GS 2.67° LOM TU 323

ALATYR, RS NDB - HHW 696.000 BT N54°49.00' E46°35.00' Unk/11°10.1'E **2H,6E**

ALDAN ACC, RS UEEA (CIV) (R) (V) CON - **133.2** 133.2 **RDO** - (2986 Ngt) (5568 Dayt) (CHULMAN ACC for all hgt.) **6H**

ALDAN, RS NDB - HHW 451.000 AD N58°37.10' E125°25.80' Unk/14°05.1'W **6H**

ALEKSANDROVKA, RS NDB - HHW 1130.000 AK N49°35.00' E44°19.00' Unk/8°22.5'E **3D,5A**

ALGASOVO, RS NDB - HHW 694.000 QL N53°41.00' E41°41.00' Unk/9°41.3'E **2G,3C**

ALI, GG NDB - HW 353.000 BT N42°06.00' E43°38.93' Unk/5°47.1'E **5A**

ALMATY ACC, KZ UAAA (R) (V) CON - **Sctr A1A - 135.4** 135.4 **Sctr A2A - 132.4** 132.4 **Sctr A3A - 132.9** 132.9 **134.6** 134.6 (SRE O/R) **RDO** - (8951 10018 Dayt)(3467 4669 Ngt) 4728 **VHF/DF 5C, D,7A**

ALMATY, (ALMA ATA) KZ UAAA CIV N43°21.12' E77°02.43' 2234 UTC+6 **5D, 7A**
RWY-05 L2,3,4,5,9,11,50 (14427x147 ASP PCN 54 R/B/X/T) L2,3,4,5,9,10,50 **RWY-23**

SERVICE - AOE **FUEL** - (NC-A1) **FLUID** - OX **OIL** - O-MK8 O-MK22

REMARKS - **RSTD** - Acft with wingspan of 190' or more proh fr using Twy 3. **CAUTION** - Obst lctd .25 NM S of ARP 47' high. Rwy 05 ALS shortened to 720m (2362').

COMMUNICATIONS - **ATIS** - 129.8 **APP** - 131.6 **TWR** - 119.4 124.0 **GND** - 121.7 **RADAR** - 120.8 **REMARKS**: Call Krug

NAVAIDS - **ALMATY VORW-DME** - HA 112.300 ALM CH 70 N43°22.47' E77°05.15' 232° 2.4 NM to Fld. 2211/(A)4°00.0'E **ALMATY NDB/LOM** - HW 443.000 AL N43°22.95' E77°06.13' 231° 3.3 NM to Fld. Unk/4°45.3'E **ALMATY NDB/LOM** - HW 415.000 LM N43°19.23' E76°58.62' 051° 3.4 NM to Fld. Unk/4°45.0'E **VHF/DF**

ILS/RADAR - ➔ **ILS** - BRG 052° LCZR ILM 110.3 GS 3° ➔ BRG 232° LCZR IAL 108.1 GS 2.4°
■ **RADAR** - ASR - Call Krug 120.8

ALTAI, MG NDB - HW 364.000 GA N46°21.87' E96°17.47' Unk/0°28.8'E **7B**

ALTAY, CH NDB - HW 415.000 VZ N47°43.20' E88°09.70' Unk/3°39.0'E **7B**

ALUSHTA, UP NDB - HHW 384.000 AL N44°40.48' E34°23.81' Unk/5°35.0'E **4I**

ALYKEL, RS UOOO CIV N69°18.66' E87°19.93' 574 UTC+7+(8DT) **6F, ENAME T2-G**
RWY-01 L5,33 (11290x145 CON PCN 47 R/A/X/T) L3,5,33 **RWY-19**

SERVICE - **FUEL** - (NC-TS-1)

REMARKS - **RSTD** - Afld for emerg ldg of flt opr along the cross-polar rte. **MISC** - Arpt has 2 NDB one call sign BF freq 535 the other call sign (dash dash dash dot, dot dash dash dot) freq 535.

COMMUNICATIONS - **APP** - Call NORILSK KRUG **(R) (V)** 120.4 **TWR** - Call START or LANDING. 118.3 **GND** - Call NORILSK TAXIING. 121.7

NAVAIDS - **NORILSK NDB** - HHW 535.000 BF N69°21.10' E87°24.50' 194° 2.9 NM to Fld. Unk/18°55.1'E

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ILS/RADAR - ➔ **ILS** - BRG 194° LCZR IBF 110.3 GS 2.4° LOM BF 535. ➔ **ILS** - BRG 014° LCZR IAP 109.5 GS 2.4° LOM AP 535. ■ **RADAR**- APP-Call KRUG 120.4 124.0X.

AMDERMA ACC, RS **ULDD** (CIV) **CON** - 129.4 129.4 **6F**

ANADYR ACC, RS **UHMA** (CIV) **(R) CENTER** - 135.4 abv FL200 all alt 0400-2100Z++ Mon-Fri Sat-Sun H24 . **CON** - 131.0 FL200 and blw. Opr 2100-0400Z++ Mon-Fri. **RDO** - (2884 Ngt) (5550 Daylt) **9C, D**

ANADYR, RS **NDB** - HHW 790.000 KB N64°41.40' E177°42.60' 013° 2.8 NM to UGOLNY. Unk/3°28.5'E Opr HO. **NDB** - HHW 790.000 UX N64°47.10' E177°46.20' 190° 3.1 NM to UGOLNY. Unk/3°31.0'E Opr HO. **9D**

ANAPA, RS **NDB** - HHW 443.000 AN N44°58.10' E37°18.30' 036° 2.7 NM to VITYAZEVO. Unk/6°00.2'E Opr 0500-2000Z++. **NDB** - HHW 443.000 AP N45°02.10' E37°23.50' 218° 2.7 NM to VITYAZEVO. Unk/6°01.8'E Opr 0500-2000Z++. **4I**

ANDIZHAN, UZ **NDB** - HW 422.000 AD N40°44.00' E72°18.00' Unk/4°21.6'E **NDB** - HHW 422.000 AN N40°41.90' E72°15.00' Unk/4°21.1'E **5D,7A**

ANDONG, CH **VORW-DME** - HA 114.800 AND CH 95 N30°15.20' E121°13.10' 17/4°59.0'W Opr HO. **7D,8F**

ANDRANIK, AM **NDB** - HW 1220.000 AND N39°49.82' E44°59.55' Unk/5°13.7'E **5A**

ANJU, KN **NDB** - HW 275.000 KP N39°36.55' E125°40.28' Unk/8°15.9'W **8E**

ANTONOV INTL, UP **UKKM** CIV N50°36.21' E30°11.52' 517 UTC+2(+3DT)
1D, 3A, T-1E
RWY-15 L3,4,5,10 (11483x184 CON PCN 68 R/C/X/U) L4,5,11,50 **RWY-33**
SERVICE - FUEL - (NC-A1)
REMARKS - Opr 0730-1500Z++, PPR 48 hr. **CSTMS/IMG** - avbl HS.
COMMUNICATIONS - TWR - 118.15
ILS/RADAR - ➔ **ILS** - BRG 149° LCZR ILC 111.9 GS 3° LOM LC 534 LMM C 257. ➔ **ILS** - BRG 329° LCZR IGO 108.7 GS 3° LOM GO 590 LMM O 286.

ARALSK ACC, KZ **UATA** (CIV) **CON** - **(R) 132.0** 132.0 **RDO** - 8951 Day, 4669 Ngt. **VHF/DF 5B,6E**

ARKHANGELSK ACC, RS **ULAA** (CIV) **(R) CON** - 133.8 Blw FL197 Opr 0530-1730Z++ Mon-Fri OT 134.4. **134.3** Abv FL197 Opr H24. **RDO** - 4672 (3422 Ngt) (5596 Daylt). **6E**

ARKHANGELSK, RS **NDB** - HW 690.000 AZ N64°36.40' E40°35.20' 082° 3.4 NM to TALAGI. Unk/15°5.0'E Opr 0300-1900Z++. **NDB** - HW 690.000 KM N64°35.70' E40°50.20' 276° 3.1 NM to TALAGI. Unk/15°10.0'E Opr 0300-1900Z++. **6E, ENAME T-2G**

ARKHARA ACC, RS **UHBA** (CIV) **(R) CON** - 133.3 133.3 **RDO** - 4465 (6589 daylight)(3461 night) **6H,8H,9A**

ARTEMOVSKY, RS **NDB** - HHW 187.000 AR N57°20.00' E61°55.00' Unk/14°22.6'E **6E**

ARVAIKHEER, MG **NDB** - HW 350.000 OG N46°12.68' E102°51.18' Unk/2°12.3'W **7B**

ASHGABAT ACC, TX **UTAA (R) (V) CON** - 129.0 118.1R **RDO** - (8951 10018 Day)
(4669 8951 Ngt) 4728 (5658 O/R) **VHF/DF 5B, C**

ASHGABAT, (ASHKHABAD) TX **UTAA CIV** N37°59.21' E58°21.66' 692 UTC+5 **5B**
RWY-11 (5907x114 ASP) **RWY-29**
4917→ ←3942
RWY-12L L2,3,4,5,10,50 (12467x151 CON PCN 66 R/B/W/T) L2,3,4,5,10,50 **RWY-30R**
RWY-12R L2,7,12 (9806x196 CON PCN 13 R/A/X/T) L2,7,12 **RWY-30L**

SERVICE - AOE **FUEL** - (NC-A1) **FLUID** - OX **OIL** - O-MK8

REMARKS - **RSTD** - The fst 328' (100m) of Rwy 12L-30R unuse for tkof. **CAUTION** - Dur apch to Rwy 30L/R, road lgt on road leading to terminal may be confused with rwy lgt. Road is 2300' N of Rwy 30L and 1200' S of Rwy 30R. Road lgt are brighter than rwy lgt. RR lights lctd 330' S of Rwy 12R LOM are similar to rwy lights. When apch Rwy 30L during daylight, Rwy 29 is more visible. Rwy 11-29 is rstd to AN-2 Colt and smaller acft. A secd afld is lctd 8.6 NM W with Rwy 15-33, 8661'x144'.

COMMUNICATIONS - **APP** - 123.5 **TWR** - Call Start 120.0 **GND** - Call Taxiing 121.7
APP - Call Krug 118.7

NAVAIDS - **ASHGABAT VORW-DME** - HA 114.500 ASB CH 92 N37°59.10' E58°21.10'
At Fld. 710/(A)4°00.0'E **ASHGABAT NDB** - HW 320.000 GH N38°00.20' E58°20.10' 125°
1.6 NM to Fld. Unk/4°22.1'E **ASHGABAT NDB** - HW 407.000 AD N38°00.30' E58°18.40'
109° 2.8 NM to Fld. 689/4°22.2'E **ASHGABAT NDB** - HW 295.000 PQ N37°57.50'
E58°24.80' 300° 3.0 NM to Fld. Unk/4°20.9'E **VHF/DF**

ILS/RADAR - ➔ **ILS** - BRG 115° LCZR IAD 111.1 GS 3.0° LOM AD 407. ➔ **ILS** - BRG 295° LCZR
IPQ 110.5 GS 3.0° LOM PQ 295. - ■ **RADAR** - ASR - Call Krug 118.7.

ASHKHABAD, TX See ASHGABAT

ASTANA ACC, KZ **UACC (CIV) (R) - 133.4** 133.4 **132.8** 132.8 **RDO** - 4728 **6E, F**

ASTANA INTL, KZ **UACC CIV (AIRPORT AUTHORITY)** N51°01.33' E71°28.02' 1165
UTC+6 **6F**
RWY-04 L2,3,4,5,10,50 (11484x147 ASP PCN 79 F/C/W/T) L2,3,4,5,10,50 **RWY-22**

SERVICE - **FUEL** - (NC A1) **FLUID** - OX **OIL** - O-MK-8

REMARKS - **RSTD** - The first 328' (100m) Rwy 04-22 unuse for tkof. **MISC** - Rwy 04/22 is apv for Cat II ops, special aircrew and certification rqr.

COMMUNICATIONS - **ATIS** - 128.3 **APP** - 124.6 **TWR** - Call Start/Taxiing 118.7
RADAR - 124.6

NAVAIDS - **ASTANA VORW-DME** - L 114.200 AST CH 89 N51°00.07' E71°26.05' 035°
1.8 NM to Fld. 1178/9°19.6'E **ASTANA NDB** - HW 318.000 AK N51°03.60' E71°31.57'
215° 3.2 NM to Fld. Unk/9°21.0'E **ASTANA NDB** - HW 318.000 MO N50°59.05'
E71°24.47' 035° 3.2 NM to Fld. Unk/9°19.3'E

ILS/RADAR - ➔ **ILS** - BRG 036° LCZR IMO 109.5 GS 2.66° LOM MO 654 ➔ **ILS** - BRG 216°
LCZR IAK 111.7 GS 2.66° LOM AK 654 ■ **RADAR** - ASR - Call Krug 119.8 Opr HO.

ASTRAKHAN ACC, RS **URWA (CIV) CON** - N **Sctr** - **132.5** 132.5 **133.8x** 133.8x **S**
Sctr - 134.1 134.1 **VHF/DF 3D,5A**

ASTRAKHAN, RS **URWA CIV** N46°17.00' E48°00.38' -66 UTC+3(+4DT) **5A**
RWY-09 L5,39,50 (8202x138 PEM PCN 25 R/B/X/T) L7,20,50 **RWY-27**

SERVICE - **FUEL** - (NC-TS-1)

COMMUNICATIONS - **ATIS** - 131.5 **APP** - (R) (V) 126.0 **START** - Call START. 118.6
TWR - Also svc as TAXIING. 123.4 5375 3924

NAVAIDS - **ASTRAKHAN NDB** - HHW 650.000 BJ N46°16.60' E48°04.40' 271° 2.8 NM
to Fld. Unk/7°25.3'E **ASTRAKHAN NDB** - HHW 650.000 GV N46°17.30' E47°56.40' 089°
2.8 NM to Fld. Unk/7°25.1'E **VHF/DF**

ILS/RADAR - ➔ **ILS** - BRG 090° LCZR IGV 110.3 GS 3.0° LOM GV 650. ➔ **ILS** - BRG 270° LCZR
IBJ 110.5 GS 2.4° LOM BJ 650. ■ **RADAR** - ASR-Call KRUG 118.6.

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ATBASAR, KZ **NDB** - HW 420.000 AB N51°53.00' E68°24.00' Unk/10°15.5'E **6E**

ATYRAU ACC, KZ **UATG (R) CON - 130.9** 130.9 **RDO** - 8951 Day 4669 Ngt **VHF/DF**
3D,5A, B,6E

ATYRAU, KZ **UATG** CIV N47°07.32' E51°49.28' -72 UTC+5 **5A**
RWY-14 L3,4,7,10,50 (9842x144 ASP PCN 84 F/C/X/T) L4,7,11 **RWY-32**

SERVICE - FUEL - (NC-B91, BA, A1) **FLUID** - OX

REMARKS - MISC - C141 PPR. Afl'd not avbl for A310-300 and B737-200 or heavier acft UFN.

COMMUNICATIONS - APP - Call KRUG **(R)** 123.7 **TWR** - 118.1

NAVAIDS - ATYRAU VORW-DME - HA 112.300 ATR CH 70 N47°06.03' E51°50.57' 318°
1.6 NM to Fld. -82/(A)7°00.0'E **ATYRAU NDB/LOM** - HW 315.000 TY N47°09.56'
E51°47.57' 145° 2.5 NM to Fld. Unk/7°59.9'E **ATYRAU NDB/LOM** - HW 315.000 YR
N47°04.76' E51°51.63' 320° 3.0 NM to Fld. Unk/7°57.8'E

ILS/RADAR - ➔ **ILS** - BRG 142° LCZR ITY 109.9 GS 3.0° LOM TY 315 ■ **RADAR** - Call Krug
123.7

AULIE ATA, KZ See TARAZ

AULY, UP **NDB** - HHW 1083.000 AU N48°34.99' E34°28.70' Unk/6°33.0'E **1D,3B**

AYAGUZ, KZ **NDB** - HW 485.000 ZU N47°55.91' E80°26.95' Unk/5°57.4'E **7A**

BAGAYEVSKY, RS **NDB** - HHW 1175.000 BA N47°19.00' E40°22.00' Unk/7°02.8'E **3C**

BAIHESI, CH **VORW-DME** - HA 117.900 BHS CH 126 N30°30.50' E104°12.20' 288°
13.9 NM to SHUANGLIU. 1667/1°47.0'W Opr HO. **7C ,8F**

BAITA, (HOHHOT) CH **ZBHH** CIV N40°51.09' E111°49.45' 3556 UTC+8 **7C,8G**
RWY-08 L2,4,5,9,11,50,55 (10501x148 CON PCN 39 R/B/W/T) L4,5,9,11,50,55 **RWY-26**
9516→
RWY-08R (CLSD 11800x150 CON) **RWY-26L**

SERVICE - FUEL - (NC-100LL, J)

REMARKS - Opr HS or O/R. **CSTMS/AG/IMG** - Avbl.

COMMUNICATIONS - HOHHOT TWR - 118.1 **HOHHOT GND** - Opr HO. 121.65

NAVAIDS - HOHHOT NDB - HW 434.000 KJ N40°52.20' E111°53.30' 249° 3.1 NM to Fld.
Unk/5°6.0'W

ILS/RADAR - ➔ **ILS-DME** - BRG 077° LCZR IFX 108.9 CH 116 GS 3° LOM FX 372 Opr HO.
U/S byd 15° left lczr to 12 nm 5600'.

BAIYUN INTL, (GUANGZHOU) CH **ZGGG** CIV (CAAC) N23°23.55' E113°17.93' 50
UTC+8 **7D,8E**

(B) **RWY-02L** L2,4,5,11,50,55 (11811x148 CON PCN 109 R/B/W/T) L2,4,5,11,50,55 **RWY-20R**
RWY-02R L2,4,5,10,50,55 (12467x197 CON PCN 109 R/B/W/T) L2,4,5,10,50,55 **RWY-20L**
←11797

SERVICE - AOE

COMMUNICATIONS - ATIS - Opr HO 128.6 **GUANGZHOU** - Opr H24 120.4 126.35 119.6
119.7 120.4 Area 1, 126.35 Area 2, 119.6 Area 3, 119.7 Area 4 **TWR** - HO 118.1 118.8
124.3 118.1 **RWY 02R/20L**, 118.8 **RWY 02L/20R** **GND** - Opr HO 121.75 121.85 121.6
121.75 **RWY 02R/20L**, 121.85 **RWY 02L20R** **CLD** - 121.95 Opr HO

NAVAIDS - CENCUN VORW-DME - HA 114.600 CEN CH 93 N23°09.00' E113°25.00' 336°
15.9 NM to Fld. 342/2°19.0'W Opr h24 **YUANTAN VORW-DME** - HA 108.600 TAN
CH 23 N23°40.10' E113°14.40' 169° 16.8 NM to Fld. 598/2°23.0'W Opr H24

CONGHUA VORW-DME - HA 113.000 CON CH 77 N23°35.30' E113°35.10' 234° 19.7 NM
to Fld. 239/2°25.0'W

BAKU ACC, AJ **UBBB (R) (V) CON** - Sctr East **133.1** 133.1 **133.3** 133.3 Sctr West
135.1 135.1 **129.0** 129.0 Sctr South **127.9** 127.9 **RDO** - (8918 11333 Intl) **5A, B**

BAKU, AJ **VORW-DME** - HA 114.100 GYD CH 88 N40°28.34' E50°03.04'
At HEYDAR ALIYEV. 7/5°26.6'E **NDB/LOM** - HW 360.000 BN N40°25.20' E50°03.90' 344°
3.0 NM to HEYDAR ALIYEV. Unk/5°25.6'E **NDB/LOM** - HW 470.000 BI N40°30.90'
E50°01.10' 156° 3.1 NM to HEYDAR ALIYEV. Unk/5°27.4'E **NDB/LOM** - HW 515.000 BU
N40°31.30' E50°03.80' 193° 3.3 NM to HEYDAR ALIYEV. Unk/5°27.5'E **5A**

BALAGANNOYE, RS **NDB** - HHW 920.000 BA N59°40.60' E149°08.70'
Unk/11°41.7'W Opr HO. **9B**

BALANDINO, RS **USCC** CIV N55°18.35' E61°30.20' 769 UTC+5(+6DT) **6E**
RWY-09 L4,5,39,50 (10440x215 CON PCN 60 R/A/W/T) L4,5,39,50 **RWY-27**

SERVICE - FUEL - (NC-TS1) **OIL** - O-MK8

COMMUNICATIONS - CHELYABINSK APP - Svc as KRUG. **(R)** 124.7 124.0

CHELYABINSK START - Svc as LANDING and TAXIING. 125.2

CHELYABINSK METEO - 128.3

NAVAIDS - CHELYABINSK VORW-DME - HA 113.300 LBN CH 80 N55°18.40' E61°31.20'
At Fld. 769/12°54.9'E **BALANDINO NDB** - HW 452.000 LB N55°19.00' E61°25.30' 103°
2.9 NM to Fld. Unk/12°55.0'E **BALANDINO NDB** - HW 412.000 KS N55°17.60'
E61°35.30' 285° 3.0 NM to Fld. Unk/12°54.0'E **VHF/DF**

ILS/RADAR - ➔ **ILS** - BRG 091° LCZR ILB 109.9 GS 2.8° LOM LB 452. ➔ **ILS** - BRG 271° LCZR
IKS 108.7 GS 2.8° LOM KS 412.

BALKHASH, KZ **UAAH** MIL/CIV N46°53.60' E75°00.30' 1446 UTC+6(+7DT) **6E, 7A**
RWY-05 L7,20 (8208x131 CON PCN 20 R/A/X/T) L7,20 **RWY-23**

SERVICE - LGT - Rwy Lgt 05/23 O/S til 01 Jan 05 est. **FUEL** - (NC-TS-1) **FLUID** - OX **OIL** -
O-MK8P O-MS24

REMARKS - Opr 0100-1000Z++. **RSTD** - The first 427' (130m) of Rwy 23 unuse for tkof.
MISC - 10,826x466 grass strip N of Rwy 05-23.

COMMUNICATIONS - TWR - 128.0

NAVAIDS - BALKHASH VORW-DME - HA 113.700 BLH CH 84 N46°52.87' E74°58.90' 046°
1.2 NM to Fld. 1326/(A)6°00.0'E **BALKHASH NDB** - HW 456.000 BA N46°52.09'
E74°57.43' 046° 2.5 NM to Fld. Unk/6°34.7'E

BALTI INTL, MD **LUBL** CIV N47°50.29' E27°46.89' 758 UTC+2(+3DT) **4G**
RWY-15 L7,20 (7245x140 CON PCN 16 R/A/W/T) L7,20 **RWY-33**

SERVICE - FUEL - (NC-A1)

REMARKS - Opr 0600-1500Z++ OT O/R, fone C+37 32 23 12 33 10. **CSTMS/IMG** - Opr
O/R.

COMMUNICATIONS - TWR - Opr 0600-1800Z++. 122.3

NAVAIDS - BALTI NDB/LOM - MHW 790.000 BL N47°47.88' E27°48.84' 326° 2.7 NM
to Fld. Unk/5°09.1'E Opr O/R **BALTI NDB** - HHW 790.000 LC N47°52.88' E27°45.00' 149°
2.9 NM to Fld. Unk/5°09.3'E Opr O/R **VHF/DF**

ILS/RADAR - ➔ **ILS** - BRG 329° LCZR IBL 109.1 GS 2.4° LOM BL 790 LMM B 389 Opr O/R.

BALYKCHI, KG **NDB** - HW 855.000 BL N42°26.00' E76°08.00' Unk/4°32.3'E Opr
0100-1300Z++ **5C, 7A**

BANTAJI, CH **NDB** - HW 340.000 OF N32°39.60' E118°34.90' Unk/5°7.0'W Opr HO.
7C, 8F

BAOAN INTL, (SHENZHEN) CH **ZGSZ** CIV N22°38.36' E113°48.64' 13 UTC+8 **7D, 8F**
RWY-15 L2,3,4,5,10,50,55 (11155x148 CON PCN 72 R/B/W/T) L3,4,5,10,50,55 **RWY-33**

SERVICE - FUEL - (NC-A1)

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REMARKS - Opr HS or O/R. **RSTD** - SSR transponder rqr for tkof and ldg.
CSTMS/AG/IMG - Avbl.

COMMUNICATIONS - ATIS - Opr H24. 127.45 **ZHUHAI APP** - Opr H24. (R) 120.35
124.25 **TWR** - Opr H24. 118.45 118.05 **GND** - Opr 0030-1400Z 121.65 121.875
CLD - Til 31 Dec 05. 0001-1400 DLY. 127.95

NAVAIDS - SHENZHEN VORW-DME - HA 115.300 SZX CH 100 N22°38.70' E113°48.20'
At Fld. 98/2°17.0'W Opr HO. **SHENZHEN NDB** - HW 253.000 QJ N22°47.70'
E113°43.80' 154° 10.3 NM to Fld. Unk/2°17.0'W Opr HO.

ILS/RADAR - ➔ **ILS-DME** - BRG 155° LCZR IQJ 111.3 CH 50 GS 3.0° Opr HO. ➔ **ILS-DME** -
BRG 335° LCZR IMH 110.7 CH 44 GS 3.0° Opr HO.

BAOLONG, CH **NDB** - HHW 426.000 WL N18°29.30' E109°24.30' 178° 11.1 NM
to PHOENIX INTL. Unk/1°11.0'W Opr HO. **8E**

BAOTOU, CH **NDB** - HW 489.000 ZQ N40°34.00' E110°00.50' Unk/4°23.0'W Opr HO.
VORW-DME - HA 117.300 BAV CH 120 N40°33.60' E109°59.70' 3330/4°23.0'W Opr HO.
7C,8G

BARABINSK, RS **NDB** - HHW 965.000 SZ N55°21.40' E78°18.20' Unk/10°32.6'E Opr
HO. **6F**

BARNAUL ACC, RS **UNBB** (CIV) (R) (V) **CON** - - **125.8** 125.8 **RDO** - 3046 ngt 6704
daylt **6F,7B**

BARNAUL, RS **UNBB** CIV N53°21.83' E83°32.31' 837 UTC+6(+7DT) **6F**
RWY-06 L7,9,20,50 (9350x164 CON PCN 44 R/B/X/T) L5,9,33,50 **RWY-24**
8202→

SERVICE - FUEL - (NC-TS-1)

REMARKS - RWY - First 328' of rwy unuse for tkof.

COMMUNICATIONS - APP - (R) (V) 120.3 124.0X 129.0X **TWR** - Svc as KRUG, START,
LANDING, TAXIING. 123.5

NAVAIDS - BARNAUL NDB/LOM - HHW 428.000 AR N53°22.80' E83°36.70' 242° 2.8 NM
to Fld. Unk/7°34.7'E **BARNAUL NDB** - HHW 428.000 BU N53°20.70' E83°27.90' 059°
2.9 NM to Fld. Unk/7°36.9'E

ILS/RADAR - ➔ **ILS** - BRG 059° LCZR IBU 110.3 GS 2.4° LOM BU 428. ➔ **ILS** - BRG 239° LCZR
IAR 108.7 GS 2.4° LOM AR 428.

BARUUN URT, MG **ZMBU** CIV N46°39.62' E113°17.12' 3205 UTC+8 **7C,8G**
RWY-18 (7217x164 BIT) **RWY-36**
6234→ ←6234

REMARKS - RSTD - Tkof rwy 18, ldg rwy 36 only.

COMMUNICATIONS - SHARGA - SR-SS 5505 ADDL FREQ RDO 2435 KHZ
SHARGA - SR-SS 130.0

NAVAIDS - BARUUN-URT NDB - HW 330.000 SB N46°40.31' E113°17.08' At Fld.
Unk/6°41.3'W Opr HO.

BATAGAY ACC, RS **UEBB** (CIV) (R) **CON** - 133.4 Opr 2200-1200Z++ Sun and
Mon-Fri, OT ctc YAKUTSK CON 134.3 for awy G493, G494, G495 abv FL266. **6H**

BATAGAY, RS **NDB** - HHW 375.000 ZA N67°36.30' E134°37.80' Unk/16°59.0'W Opr
HO. **6H**

BATUMI, GG **UGSB** CIV N41°36.62' E41°35.98' 105 UTC+3(+4DT) **4J, 5A**
RWY-13 L3,6,A (7325x150 ASP PCN 13 F/C/Y/T) L6 **RWY-31**

SERVICE - FUEL - (NC-TS1) **OIL** - O-MK8P

REMARKS - Opr 0400-1800Z++. **CAUTION** - Unlgt'd obst in the arpt area.

COMMUNICATIONS - TWR - 120.0 **REMARKS**: Russian only.

NAVAIDS - BATUMI NDB - HHW 430.000 LU N41°36.05' E41°36.83' At Fld. Unk/5°32.7'E
ILS/RADAR - ➔ILS - BRG 127° LCZR ILU 110.3 GS 2.5°

BAYANKHONGOR, MG ZMBH CIV N46°09.80' E100°42.25' 6085 UTC+8(+9DT)
7B
RWY-16 L7,55 (9186x114 ASP PCN 45 F/A/Y/U) L9,50 **RWY-34**
RWY-16R L55 (6889x164 GRE) L43,55 **RWY-34L**

COMMUNICATIONS - RDO - O/R 5715 ADDL FREQ 2435 KHZ **APP** - O/R 130.0
NAVAIDS - BAYANKHONGOR NDB - HW 480.000 BH N46°07.15' E100°43.85' 337° 2.9 NM
to Fld. Unk/1°18.9'W

BAYKIT, RS NDB - HHW 326.000 AL N61°42.40' E96°30.00' Unk/4°08.6'E **6G**

BAZARNYE MATAKI, RS NDB - HHW 445.000 RD N54°53.00' E49°55.00'
Unk/11°44.6'E Opr HO. **2H,6E**

BAZHENOVO, RS NDB - HHW 520.000 LF N55°38.00' E73°06.00' Unk/12°02.4'E **6F**

BEGISHEVO, RS UWKE CIV N55°33.88' E52°05.55' 643 UTC+3(+4DT) **2H, 6E**
RWY-03 (5620x190 GR5) **RWY-21**
RWY-04 L7,39,50 (8165x148 ASP PCN 44 R/C/X/T) L7,39,50 **RWY-22**
SERVICE - FUEL - (NC-TS1)
REMARKS - RSTD - First 328' fo Rwy 04-22 unuse for tkof.
COMMUNICATIONS - APP - (R) (V) 127.9 124.0X 129.0X **TWR** - Svc as KRUG, START,
LANDING, and GND. **(V)** 121.2
NAVAIDS - BEGISHEVO NDB - HHW 370.000 NA N55°32.00' E52°02.10' 034° 2.7 NM
to Fld. Unk/12°25.2'E **BEGISHEVO NDB** - HHW 370.000 NK N55°35.80' E52°09.50' 217°
3.0 NM to Fld. Unk/12°28.5'E **VHF/DF**
ILS/RADAR - ➔ ILS - BRG 216° LCZR INK 109.9 GS 2.7° LOM NK 370.

BEIJING ACC, CH ZBPE CAAC **CON - AREA 1** - **125.9** 125.9 **134.45** 134.45
(2200-1600Z) **AREA 2** - **134.2** 134.2 **132.7** 132.7 (2200-1400Z) **AREA 3** - **125.6** 125.6
132.7 132.7 (0000-1000Z) **AREA 4** - **128.3** 128.3 **134.7** 134.7 **AREA 5** - **133.2** 133.2
134.7 134.7 (2200-1400Z) **RDO** - 8897 (0001-1200Z) 3016 (1201-0000Z) 6571 **7C, D, 8G**

BEIJING, CH VORW-DME - HA 114.700 PEK CH 94 N40°03.00' E116°36.00' 339° 1.9 NM
to CAPITAL INTL. 30/6°22.0'W Opr HO. **7C, D,8G**

BELGOROD, RS UUOB CIV N50°38.63' E36°35.41' 735 UTC+3(+4DT) **3B**
RWY-11 L7,34 (7546x138 ASP PCN 30 F/D/X/T) L7,34 **RWY-29**
SERVICE - FUEL - (NC-TS1)
COMMUNICATIONS - APP - Opr HO. **(R) (V)** 133.0 124.0X (APP 1 Blw FL207)(APP 2 Blw
FL108) **TWR** - Opr HO. Call START. 118.2 **TAXIING** - Opr HO. 121.7
NAVAIDS - BELGOROD NDB - HHW 718.000 AN N50°39.90' E36°31.60' 111° 2.7 NM
to Fld. Unk/7°31.3'E **BELGOROD NDB** - HHW 718.000 BX N50°37.30' E36°39.50' 290°
2.9 NM to Fld. Unk/7°31.9'E **VHF/DF**
ILS/RADAR - ■ RADAR - PAR - Call APP 133.0 Opr HO.

BELOKHOLUNITSKY, RS NDB - HHW 630.000 QT N58°53.00' E50°52.00'
Unk/14°22.7'E **2H-6E**

BELOZYORSK/OZYORSK, RS NDB - HHW 791.000 SU N60°02.00' E37°45.00'
Unk/11°38.6'E **2F,6E**

BELY, RS NDB - HHW 1290.000 TU N55°51.00' E32°56.00' Unk/8°26.7'E **2E**

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BERINGOVSKY, RS NDB - HHW 640.000 BE N63°02.00' E179°18.00' Unk/4°23.6'E
Opr HO. **9D**

BERYOZOVO ACC, RS USHB (CIV) (R) (V) CON - 132.1 132.1 6E, F

BERYOZOVO, RS NDB - HHW 752.000 BB N63°54.40' E64°56.30' Unk/19°58.4'E **6F**

BESLAN, (VLADIKAVKAZ) RS URMO CIV N43°12.31' E44°36.40' 1673 UTC+3(+4DT) **5A**
RWY-10 L7,20 (9828x148 CON PCN 28 R/B/X/T) **L7,20 RWY-28**

SERVICE - FUEL - (NC-TS-1)

REMARKS - Opr 0600-1800Z++.

COMMUNICATIONS - START - Also svc as TWR.. 118.1 **KRUG - (R)** 125.2

NAVAIDS - VLADIKAVKAZ NDB - HHW 1050.000 CH N43°12.90' E44°32.30' 095° 3.1 NM
to Fld. Unk/6°09.2'E Opr HO.

ILS/RADAR - ➔ ILS - BRG 096° LCZR ICH 110.5 GS 3.0° LOM CH 1050 Opr HO. **■ RADAR** -
ASR - Call VLADIKAVKAZ KRUG 125.2

BESOVETS, (PETROZAVODSK NORTHWEST) RS ULPB CIV N61°53.11' E34°09.28' 151
UTC+3(+4DT) **2E**
RWY-02 L9 (8202x157 CON PCN 38 R/A/X/T) **L7,9,23 RWY-20**

SERVICE - FUEL - (NC-TS-1)

REMARKS - Opr Mon-Fri 0600-1630Z++.

COMMUNICATIONS - TWR - Opr HO 128.0

NAVAIDS - BESOVETS NDB - HHW 340.000 QD N61°56.40' E34°12.40' 193° 3.6 NM to Fld.
Unk/11°17.4'E Opr HO. **BESOVETS NDB** - HHW 340.000 XO N61°49.20' E34°05.90' 011°
4.2 NM to Fld. Unk/11°11.8'E Opr HO. **VHF/DF**

BIBRKA, UP NDB - HHW 432.000 BB N49°38.58' E24°16.79' Unk/4°46.0'E **1C**

BINA, AJ See HEYDAR ALIYEV

BINHAI, (TAINJIN) CH ZBTJ CIV N39°07.46' E117°20.77' 10 UTC+8 **7C-D, 8G**
RWY-16 L4,5,9,11,50,55 (10499x164 CON PCN 83 F/B/W/T) **L2,4,5,9,11,50,55 RWY-34**

SERVICE - AOE FUEL - (NC-J)

REMARKS - Opr HS or O/R. **MISC** - Flt alt within area of N39°09' E117°14' to N39°16'
E117°14' to N39°18' E117°22' to N39°13' E117°27.5' to begin is rstd to at or blw 2600'
unless otherwise req.

COMMUNICATIONS - ATIS - Opr HO. 126.4 **TIANJIN APP** - Opr H24. (R) 118.2 120.9
TIANJIN TWR - Opr H24. 127.9 130.0 **RAMP CON** - Opr HO. 121.75

NAVAIDS - TIANJIN VORW-DME - HA 112.100 TAJ CH HS N39°06.40' E117°21.50' 332°
1.2 NM to Fld. 10/6°23.0'W Opr HO. **TIANJIN NDB** - HW 339.000 CG N39°04.40'
E117°22.70' 334° 3.4 NM to Fld. 13/6°22.0'W Opr HO.

ILS/RADAR - ➔ ILS-DME - BRG 160° LCZR IJS 110.9 CH 46 GS 3.0° LOM JS 452 Opr HO. ➔
ILS-DME - BRG 340° LCZR ICG 110.5 CH 42 GS 3.0° Opr HO.

BIRYUCHA KOSA, RS NDB - HHW 722.000 YO N45°43.00' E47°36.00' Unk/7°10.7'E
Opr HO. **5A**

BISERT, RS NDB - HHW 435.000 BI N56°51.00' E59°04.00' Unk/13°56.5'E **6E**

BISHKEK ACC, KG UAFM (R) (V) CON - (134.9 up to 14,800'.) (132.2 14,800' and
above) **RDO** - 4688 **VHF/DF** **5C, D,7A**

BISHKEK, KG **VORW-DME** - HA 113.400 MNS CH 81 N43°04.10' E74°31.30' 253° 2.0 NM to MANAS. 127° 19.3 NM to KANT. 2051/(A)5°00.0'E **NDB/LOM** - HW 975.000 BK N43°04.30' E74°33.10' 254° 3.3 NM to MANAS. Unk/4°59.8'E **NDB/LOM** - HW 975.000 MN N43°03.10' E74°24.30' 075° 3.2 NM to MANAS. Unk/5°00.5'E **5D,7A**

BIYSK, RS **NDB** - HHW 375.000 LE N52°28.00' E85°23.00' Unk/6°27.8'E **6F**

BLAGOVESCHENSK ACC, RS **UHBB** (CIV) **(R) CON** - **126.6** - FL240 and abv. 123.5 - up to FL240.) **RDO** - (3461 ngt) (6589 daylt) 4465 **6H,8H,9A**

BLAGOVESCHENSK, RS **NDB** - HW 350.000 BM N50°28.50' E127°23.80' 169° 3.0 NM to IGNATYEVO. Unk/11°54.0'W Opr HO. **NDB/LOM** - HW 350.000 LZ N50°22.50' E127°25.70' 001° 3.1 NM to IGNATYEVO. Unk/11°52.0'W Opr HO. **VORW-DME** - HA 113.600 BLG CH 83 N50°23.60' E127°25.60' 356° 2.0 NM to IGNATYEVO. 751/(A)11°00.0'W **6H,8H,9A**

BODAYBO AUX ACC, RS **UIKB** (CIV) **(R) CON** - **133.1** 133.1 **RDO** - (2986 3425 ngt) (5568 6670 daylt) 4728. (Kirensk ACC for all hgt.) **6G, H**

BODAYBO, RS **NDB** - HHW 405.000 IA N57°52.00' E114°13.00' Unk/9°24.6'W **6H**

BOGDANOVO, RS **NDB** - HHW 360.000 BD N57°06.00' E37°43.00' Unk/10°16.2'E **2F,H**

BOGUCHANY ACC, RS **UNKB** (CIV) **(R) CON** - 133.6 **6G**

BOGUCHANY, RS **NDB** - HHW 410.000 RI N58°22.50' E97°22.20' Unk/2°11.5'E **6G**

BOHDANIVKA, UP **NDB** - HHW 1290.000 BO N50°37.69' E30°53.39' Unk/6°24.0'E **1D,3A, T-1F**

BOKHAN, RS **NDB** - HHW 779.000 BQ N53°09.00' E103°47.00' Unk/2°44.3'W **6G**

BOLSHAYA MURTA, RS **NDB** - HHW 497.000 BZ N56°54.00' E93°10.00' Unk/4°29.8'E **6G**

BOLSHAYA NIKOLAYEVKA, RS **NDB** - HHW 1150.000 BN N55°28.00' E63°01.00' Unk/13°00.8'E **6E**

BOLSHEVIK, RS **NDB** - HHW 507.000 ND N45°46.00' E40°14.00' Unk/6°33.3'E Opr 0500-1900Z++ exc Sun and Hol. **4J**

BOLSHOYE GOLOUSTNOYE, RS **NDB** - HHW 475.000 PF N52°02.00' E105°25.00' Unk/3°38.7'W **6G**

BOLSHOYE SAVINO, RS **USPP** CIV N57°54.87' E56°01.27' 404 UTC+5(+6DT) **6E**
RWY-03L5 (10520x150 ASP PCN 55 R/C/X/T) **L5,33RWY-21**
8200→

SERVICE - FUEL - (NC-TS-1)

COMMUNICATIONS - PERM ATIS - 126.4 **PERM APP** - Svc as PERM KRUG. 127.1

TWR - Call PERM START. Svc as PERM TWR. 124.0 **GND** - Call PERM TAXIING. 121.7

NAVAIDS - PERM NDB - HHW 705.000 BK N57°52.90' E55°57.50' 031° 2.8 NM to Fld.

Unk/14°26.0'E **PERM NDB** - HHW 705.000 PX N57°57.00' E56°05.40' 212° 3.1 NM to Fld.

Unk/14°29.7'E **VHF/DF**

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ILS/RADAR - ➔ ILS - BRG 213° LCZR IPX 109.9 GS 2.7° LOM PX 705. ■ **RADAR** - PAR - Call PERM TAXIING 124.0.

BOMNAK, RS NDB - HHW 225.000 JQ N54°43.00' E128°51.00' Unk/13°27.2'W **6H,9A**

BORYSPIL INTL, (KYIV) UP UKBB CIV N50°20.70' E30°53.68' 427 UTC+2(+3DT)

1D, 3A, T-1F

RWY-18L L4,5,11,50 (13123x197 CON PCN 80 R/C/W/T)

L3,4,5,10,50 **RWY-36R**

RWY-18R L5,11 (11483x206 CON PCN 39 R/C/W/T)

L5,11 **RWY-36L**

SERVICE - AOE **FUEL** - (NC A1)

REMARKS - **CSTMS/IMG** - Avbl.

COMMUNICATIONS - **ATIS** - 126.7 **TWR** - 119.65 119.3 124.0 (119.65 Rwy 18R/36L)(119.3 Rwy 18L/36R)(124.0(MIL) Opr HX) **GND** - 118.05 **KYIV RADAR** - 124.675 127.725

128.175 120.9 (127.725 TC-1)(124.675 TC-2)(128.175 TC-3)(120.9 TC-4) **OPS** - 131.775

REMARKS: At least 30 min before ETA, provide the number of passengers, luggage, and other pertinent information to Boryspil Operations Control.

NAVAIDS - **BORYSPIL VORW-DME** - HA 115.900 BRP CH 106 N50°17.14' E30°53.96' 356° 3.6 NM to Fld. 499/6°18.0'E

ILS/RADAR - ➔**ILS** 36L - BRG 358° LCZR IKE 110.5 GS 3.0° LOM KE 825 LMM E 405 ➔**ILS** 18R - BRG 178° LCZR IKB 108.9 GS 3.00° LOM KB 825 LMM B 405 ➔**ILS** 36R - BRG 358° LCZR INO 109.7 GS 3.0° LOM NO 310 LMM O 640 ➔**ILS** 18L - BRG 178° LCZR IBI 111.3 GS 3.0° LOM BI 310 LMM I 640

BOSE, CH VORW-DME - HA 115.900 BSE CH 106 N23°53.70' E106°38.90' 520/1°33.0'W Opr HO. O/S til 31 Dec 05. **NDB** - HW 358.000 OX N23°53.90' E106°39.00' Unk/1°33.0'W Opr HO. **8E**

BRATSK ACC, RS UIBB (CIV) (R) (V) CON - (R) 132.2. **RDO** - (3046 ngt) (6704 daylt) **6G**

BRATSK, RS UIBB CIV N56°22.23' E101°41.90' 1610 UTC+8(+9DT) **6G**

RWY-12 L5,20 (10367x197 CON PCN 54 R/A/W/T)

L5,8,11,50 **RWY-30**

SERVICE - **FUEL** - (NC- TS1) **OIL** - O-MK8

REMARKS - **RWY** - First 328' of rwy unuse for tkof.

COMMUNICATIONS - **TWR** - Call START. (R) 118.1 **GND** - Call TAXIING. 121.8

NAVAIDS - **BRATSK VORW-DME** - HA 113.600 BRT CH 83 N56°22.30' E101°41.20' At Fld. 1608/(A)0°00.0'E **BRATSK NDB** - HHW 374.000 BS N56°21.00' E101°46.70' 296° 2.9 NM to Fld. Unk/1°18.4'W **BRATSK NDB** - HHW 374.000 GG N56°23.50' E101°36.80' 115° 3.1 NM to Fld. Unk/1°11.4'W **VHF/DF**

ILS/RADAR - ➔ **ILS** - BRG 296° LCZR IBS 110.3 GS 3.0° LOM BS 374.

BREST, BO UMBB CIV N52°06.50' E23°53.88' 468 UTC+2(+3DT) **1C**

RWY-11 L5,33,50 (8596x138 ASP PCN 25 R/B/X/T)

L5,33,50 **RWY-29**

SERVICE - **FUEL** - (NC-TS1)

REMARKS - Opr by NOTAM.

COMMUNICATIONS - **APP** - Opr HO. Svc as KRUG, START, LANDING, and TAXIING. (R) 127.7

NAVAIDS - **BREST NDB** - HHW 985.000 CP N52°07.60' E23°49.80' 109° 2.7 NM to Fld. Unk/5°02.6'E Opr HO. **BREST NDB** - HHW 985.000 BY N52°05.40' E23°58.00' 289° 2.8 NM to Fld. Unk/5°04.3'E Opr HO. **VHF/DF**

ILS/RADAR - ➔ **ILS** - BRG 290° LCZR IBY 110.3 GS 2.7° LOM BY 985 Opr HO.

BRYANSK, RS UUBP CIV N53°12.85' E34°10.59' 663 UTC+3(+4DT) **3B**

RWY-17 L7,20 (7874x138 CON PCN 24 R/B/W/T)

L7,20 **RWY-35**

SERVICE - **FUEL** - (NC-TS1)

REMARKS - Opr 0500-1700Z+.

COMMUNICATIONS - **TWR** - Opr HO. 129.8 **KRUG** - Opr HO. (R) 119.2

NAVAIDS - **BRYANSK NDB/LOM** - HW 325.000 NU N53°10.20' E34°11.30' 343° 2.7 NM to Fld. Unk/7°51.0'E **BRYANSK NDB** - HW 325.000 OD N53°15.60' E34°10.00' 173° 2.8 NM to Fld. Unk/7°54.0'E **VHF/DF**

ILS/RADAR - ➔ **ILS** - BRG 346° LCZR INU 109.9 GS 2.7° LOM NU 325.

BUCHA, KN **NDB** - HW 211.000 GG N39°35.80' E126°20.70' Unk/8°21.2'W **8G**

BUINSK, RS **NDB** - HHW 825.000 YK N54°59.00' E48°16.00' Unk/11°32.7'E Opr HO. 2H,6E

BUKHARA, UZ **UTSB** CIV N39°46.50' E64°29.00' 751 UTC+5 **5C**
RWY-01 L2,5,8,11,50 (9843x147 ASP PCN 40 R/A/X/T) L5,20,50 **RWY-19**

SERVICE - FUEL - (NC-A1) **FLUID** - OX

REMARKS - MISC - Helipad located 820' SE of Rwy 01 thld.

COMMUNICATIONS - APP - 124.6 **TWR** - 120.1 119.4 **REMARKS:** (Russian-English)(Start)

NAVAIDS - BUKHARA NDB/LOM - HW 795.000 UH N39°43.70' E64°28.30' 011° 2.8 NM to Fld. Unk/4°37.5'E **BUKHARA NDB** - HW 795.000 BR N39°49.40' E64°29.70' 191° 2.9 NM to Fld. Unk/4°39.5'E

ILS/RADAR - ➔ **ILS** - BRG 005° LCZR 110.3 IUH GS Unk LOM UH 795

BULGAN, MG **NDB** - HW 300.000 BU N48°51.25' E103°29.13' Unk/2°32.7'W opr Ho **7B**

BULGAN SUM, MG **NDB** - HW 345.000 BS N46°06.23' E91°34.85' Unk/2°08.3'E Opr HO **7B**

BULUNGUR, UZ **NDB** - HHW 405.000 PD N39°45.00' E67°16.00' Unk/4°26.1'E **5C**

BUTURLINO, RS **NDB** - HHW 905.000 UD N55°34.00' E44°55.00' Unk/11°15.0'E Opr HO. **2G,6E**

BUYANT UKHAA ULAANDAATAR INTL, MG See
CHINGGIS KHAAN INTL

BUZHAROVO, RS **NDB** - HHW 1080.000 AR N55°59.00' E36°48.00' Unk/9°32.8'E 2F, H,T-1E

CAPITAL INTL, (BEIJING) CH **ZBAA** CIV N40°04.81' E116°35.07' 116 UTC+8
7C, D-8G
RWY-18L L4,5,33,50 (12468x197 ASP PCN 108 F/B/W/T) L2,3,4,5,10,50 **RWY-36R**
RWY-18R L2,3,4,5,10,50 (10499x164 ASP PCN 95 F/B/W/T) L4,5,33,50 **RWY-36L**

SERVICE - AOE FUEL - (NC-100LL, A1, J)

REMARKS - RSTD - SSR transponder rqr for tkof and ldg. **CAUTION** - Dev to W for acft apch fr/dep to S of arpt proh. Do not mistake lgtd arpt access road for Rwy 36L/R.

COMMUNICATIONS - BEIJING ATIS - 127.6 **BEIJING APP AREA 1** - HO 119.6 125.05

BEIJING APP AREA 2 - HO 126.1 129.0 **BEIJING APP AREA 3** - H24 120.6 125.05

BEIJING APP AREA 4 - HO 119.7 129.0 **BEIJING APP AREA 5** - HO 127.75 126.5

BEIJING APP AREA 6 - HO 121.1 126.5 **BEIJING EAST TWR** - 118.5 118.3

BEIJING WEST TWR - 124.3 118.3 **GND EAST** - Opr 0001-1200Z. 121.7

GND WEST - Opr 0001-1200Z. 121.9 **BEIJING GND** - Opr 1201-0000Z. 121.7 121.9

BEIJING DEL - 121.6 121.9

NAVAIDS - BEIJING VORW-DME - HA 114.700 PEK CH 94 N40°03.00' E116°36.00' 339° 1.9 NM to Fld. 30/6°22.0'W Opr HO. **SHAZIYING VORW-DME** - HA 117.200 SZY CH 119 N40°06.10' E116°27.70' 103° 5.8 NM to Fld. 17/6°22.0'W Opr HO. **HUAIROU NDB** - HW 380.000 OB N40°17.00' E116°32.00' 169° 12.4 NM to Fld. 170/6°25.0'W

ILS/RADAR - **ILS** - SEE TERMINAL FLIP FOR ILS-DME 18L, 18R, 36L and 36R DATA.

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CENCUN, CH **VORW-DME** - HA 114.600 CEN CH 93 N23°09.00' E113°25.00' 336°
15.9 NM to BAIYUN INTL. 342/2°19.0'W Opr h24 **7D,8E**

CHAGDA, RS **NDB** - HHW 325.000 UR N58°45.00' E130°39.00' Unk/14°52.2'W Opr
2300-1100Z+-. **6H**

CHALDOVAR, KG **NDB** - HW 768.000 DW N42°49.00' E73°33.00' Unk/5°01.4'E Opr
0300-1600Z+-. **5D,7A**

CHANGBEI INTL, (NANCHANG) CH **ZSCN** MIL/CIV N28°51.90' E115°54.00' 143
UTC+8 **7C, 8F**
RWY-03 L2,4,5,9,A,50 (9186x148 CON PCN 70 R/B/W/T) L4,5,9,A,50 **RWY-21**

COMMUNICATIONS - **ATIS** - 128.4 **NANCHANG TWR** - 118.65 130.0
NANCHANG GND - 121.7

NAVAIDS - **CHANGBEI VORW-DME** - HA 115.100 NCH CH 98 N28°53.10' E115°54.80'
210° 1.4 NM to Fld. 143/3°47.0'W Opr H24 **XIANGTANG VORW-DME** - HA 112.700
KHN CH 74 N28°25.80' E115°55.40' 357° 26.1 NM to Fld. 143/3°40.0'W **LIJIA NDB** - HW
210.000 RP N28°37.30' E115°42.50' 035° 17.7 NM to Fld. 200/3°42.0'W

CHANGDU, CH **NDB** - MHW 247.000 RG N31°09.10' E97°10.60' 3215/0°39.0'W **7B**

CHANGLE, (FUZHOU) CH **ZSFZ** CIV N25°56.10' E119°39.80' 46 UTC+8 **8F**
(B) **RWY-03** L2,3,4,5,10,50 (11841x150 CON PCN 83 R/B/W/T) L4,5,11,50 **RWY-21**

SERVICE - **FUEL** - (NC-J)

REMARKS - Opr HS or O/R. **RSTD** - SSR transponder rqr for tkof and ldg. Dev to the E or W
of arpt area proh. **CSTMS/AG/IMG** - Avbl 2 hr PN.

COMMUNICATIONS - **ATIS** - 126.4 **FUZHOU APP** - Opr H24. 119.45 133.05
FUZHOU TWR - 118.45 124.35 **FUZHOU GND** - 121.9

NAVAIDS - **FUZHOU VORW-DME** - HA 116.800 FOC CH 115 N25°56.40' E119°39.70'
At Fld. 46/3°43.0'W Opr HO. **LIANJIANG VORW-DME** - HA 117.600 LJG CH 123
N26°13.20' E119°32.80' 160° 18.2 NM to Fld. 151/3°46.0'W Opr HO.
FUQING VORW-DME - HA 117.400 FQG CH 121 N25°44.40' E119°23.00' 052° 19.1 NM
to Fld. 378/3°38.0'W Opr HO.

ILS/RADAR - ➔ **ILS-DME** - BRG 030° LCZR ICL 110.7 CH 44 GS 3.0° Opr HO. ➔ **ILS-DME** -
BRG 210° LCZR INN 110.3 CH 115 GS 3.0° Opr HO.

CHANGSHA ACC, CH **ZGCS** CAAC **CON** - **E Sctr** - **123.20** 132.55 **125.0** 125.0 **W**
Sctr - **132.55** 123.2 **133.15** 133.15 (0100-1200Z) **RDO** - 8897 (0001-1200Z) 3016
(1201-0000Z) 6571 **7C,8F**

CHANGSHA, CH **VORW-DME** - HA 113.300 CSX CH 80 N28°12.20' E113°13.00'
At HUANGHUA. 289/3°9.0'W Opr HO. **7C,8F**

CHANGSHENGQIAO, CH **NDB** - HHW 306.000 WX N29°30.90' E106°39.60' 356°
12.3 NM to JIANGBEI. Unk/2°7.0'W Opr HO. **7C,8F**

CHANGWU, CH **NDB** - HW 375.000 HO N35°12.10' E107°46.40' Unk/3°0.0'W Opr
HO. **7C,8F**

CHAOYANG, CH **VORW-DME** - HA 114.500 CHG CH 92 N41°32.20' E120°26.00'
603/7°48.0'W Opr HO. **NDB** - HW 226.000 FJ N41°35.00' E120°26.00' Unk/7°47.0'W
Opr HO. **7C,8G**

CHAPAEV, RS **NDB** - HHW 740.000 ML N56°15.00' E73°57.00' Unk/12°18.3'E **6F**

CHARDZHOU, TX See TURKMENABAT

CHAYBUKHA, RS **NDB** - HHW 460.000 MA N61°49.50' E160°30.80' Unk/6°40.4'W Opr
HO. **9C**

CHEBOKSARY, RS **UWKS** CIV N56°05.42' E47°20.84' 558 UTC+4(+5DT) **2G,6E**
RWY-06 L7,20 (8241x161 ASP PCN 29 R/B/X/T) L7,20 **RWY-24**
RWY-06R (4950x270 GRS) **RWY-24L**

SERVICE - FUEL - (NC-TS-1)

COMMUNICATIONS - TWR - Svc as KRUG and START. Opr HO. 119.3

NAVAIDS - CHEBOKSARY NDB - HHW 510.000 CR N56°06.30' E47°25.70' 240° 2.9 NM
to Fld. Unk/12°01.7'E Opr HO. **CHEBOKSARY NDB** - HHW 510.000 LA N56°04.40'
E47°15.70' 059° 3.1 NM to Fld. Unk/11°58.8'E Opr HO. **VHF/DF**

ILS/RADAR - ➔ ILS - BRG 062° LCZR ILA 110.3 GS 3° LOM LA 510 LMM L 1035 Opr HO. ➔
ILS - BRG 242° LCZR ICR 108.3 GS 2.4° LOM CR 510 LMM C 1035 Opr HO.

CHELOBITYEVO, RS **NDB** - HHW 680.000 BP N55°54.00' E37°41.00' Unk/9°44.4'E
2F, H,T-1E

CHELYABINSK ACC, RS **USCC** (CIV) (R) **CON - Sctr 008°-105°** 133.2 **Sctr**
105°-245° 125.5 **Sctr 245°-008°** 125.4 **RDO -** 4712 **6E**

CHELYABINSK, RS **VORW-DME** - HA 113.300 LBN CH 80 N55°18.40' E61°31.20'
At BALANDINO. 769/12°54.9'E **6E**

CHENGDU ACC, CH **ZUUU** (CIV) **CON - AREA 1 -** (**120.9** 120.9 **125.95** 125.95)
AREA 2 - (**122.8** 122.8 **133.3** 133.3) **AREA 3 -** (**133.8** 133.8 **133.3** 133.3) **AREA 4 -**
(**123.7** 123.7 **133.3** 133.3 Opr 0200-1100Z) **RDO -** 6571 (8897 Opr 0001-1200Z) (3016
Opr 1201-2400Z) **7B,C, 8E, F**

CHENGDU, CH **VORW-DME** - HA 115.700 CTU CH 104 N30°34.50' E103°56.60'
At SHUANGLIU. 1612/1°44.0'W Opr HO. **7C-8F**

CHERKASY INTL, UP **UKKE** CIV N49°24.93' E31°59.72' 375 UTC+2(+3DT) **1D, 3A**
RWY-15 L7,12 (8180x138 ASP PCN 28 F/C/Y/T) L7,12 **RWY-33**

SERVICE - FUEL - (NC-A1) Opr 0500-1700Z **OIL** - MS-20, O-MK8, SM 4.5

REMARKS - Opr 0500-1700Z++ **CSTMS/IMG** - O/R

COMMUNICATIONS - TWR - 128.7

ILS/RADAR - ➔ ILS - BRG 325° LCZR ICC 109.9 GS3.0° LOM CC 345 LMM C 705.

CHERNIAKHIV, UP **NDB** - HHW 525.000 CH N50°27.38' E28°41.49' Unk/5°53.0'E
1C,3A

CHERNIVTSI INTL, UP **UKLN** CIV N48°15.56' E25°58.85' 826 UTC+2(+3DT) **1C**
RWY-15 L7,12 (7270x138 ASP PCN 23 F/D/Y/T) L7,12 **RWY-33**

SERVICE - FUEL - (NC-A1)

REMARKS - Opr 0530-1800Z++, submit PPR before 1300Z. **CSTMS/IMG** - avbl **MISC** -
Fone C+380 3722 7 64 77.

COMMUNICATIONS - TWR - 121.3 **METEO** - 134.9

ILS/RADAR - ➔ ILS - BRG 149° LCZR ICN 109.5 GS 3° LOM CN 805 LMM N 509. ➔ **ILS** - BRG
329° LCZR ICR 110.3 GS 3° LOM CR 805 LMM R 509.

CHERNUKHA, RS **NDB** - HHW 430.000 MB N55°36.00' E43°47.00' Unk/11°02.0'E Opr
HO. **2G**

CHERNYSHEVKA, RS **NDB** - HHW 605.000 BL N44°12.00' E133°07.00'
Unk/10°17.8'W **8H**

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CHERSKY ACC, RS **UESS** (CIV) (R) **CON - 133.4** 133.4 Opr 2100-1100Z++. **9C, D**

CHERTOVITSKOYE, RS **UUOO** CIV N51°48.85' E39°13.78' 514 UTC+3(+4DT) **3B**
RWY-13 L7,20 (7546x161 CON PCN 19 R/C/X/T) L7,20 **RWY-31**
7316→ ←7343

SERVICE - FUEL - (NC-TS1)

REMARKS - RSTD - First 164' of Rwy 13-31 unuse for tkof.

COMMUNICATIONS - VORONEZH APP - (R) (V) 125.9 124.0X FL49-FL206

VORONEZH TWR - Call START. (V) 118.3 **VORONEZH TAXIING** - 121.8

VORONEZH KRUG - (R) (V) 119.2 **VORONEZH METEO** - 120.8

NAVAIDS - CHERTOVITSKOYE NDB - HW 289.000 WR N51°50.70' E39°10.60' 133°

2.7 NM to Fld. Unk/8°26.0'E Opr HO. **CHERTOVITSKOYE NDB** - HW 289.000 AP

N51°46.60' E39°18.20' 309° 3.6 NM to Fld. Unk/8°26.0'E Opr HO.

ILS/RADAR - ➔ ILS - BRG 125° LCZR IWR 110.5 GS 2.7° LOM WR 289 Opr HO. ➔ **ILS** - BRG 305° LCZR IAP 111.9 GS 2.7° LOM AP 289 Opr HO.

CHERUSTI, RS **NDB** - HHW 410.000 SF N55°33.00' E40°00.00' Unk/10°09.6'E **2F**

CHERVONYI, UP **NDB** - HHW 960.000 CY N50°04.09' E31°23.39' Unk/6°21.0'E
1D, 3A, T-1F

CHINGGIS KHAAN INTL, (BUYANT UKHAA ULAANBAATAR INTL) MG **ZMUB**
CIV N47°50.58' E106°46.00' 4364 UTC+8(+9DT) **7C**
(B) **RWY-14** L7,9,12,50 (10170x197 ASP PCN 48 R/A/W/T) L5 **RWY-32**
RWY-15 (6560x131 GRE) **RWY-33**

SERVICE - AOE FUEL - (NC-A1)

REMARKS - RSTD - Turbojet and acft abv 12,500 lbs land Rwy 14 and tkof Rwy 32 only.

CAUTION - ATC clnc may be unrel. Exer extreme caution.

COMMUNICATIONS - ATIS - 126.0 **ULAANBAATAR CON - (V)** 126.0

ULAANBAATAR APP - (V) 120.0 **REMARKS**: Provides APP CON svc.

NAVAIDS - ULAANBAATAR VORW-DME - HA 116.000 UDA CH 107 N47°52.06'

E106°44.02' 142° 2.0 NM to Fld. 3984/(A)4°00.0'W **ULAANBAATAR NDB** - HW 315.000

DA N47°52.74' E106°43.13' 138° 2.9 NM to Fld. Unk/4°01.0'W

ILS/RADAR - ➔ ILS - BRG 142° LCZR IDA 110.3 GS 2.67° LOM DA 315

CHISINAU ACC, MD **LUKK** (CIV) (R) **CON - 129.7 131.0** abv FL285, 127.8 FL55 to FL285 **RDO** - 5745 8976 **1C, 3A, 4G, H**

CHISINAU INTL, MD **LUKK** CIV N46°55.66' E28°55.86' 399 UTC+2(+3DT) **4H**
RWY-08 L3,4,5,10,50 (11779x145 CON PCN 42 R/B/X/T) L4,5,11,50 **RWY-26**

SERVICE - AOE FUEL - (NC-A1)

REMARKS - MISC - Admin opr 0600-1500Z++ Mon-Fri, fone C+373 22 52 60 60, fax C+373 22 52 60 87.

COMMUNICATIONS - ATIS - 133.7 **APP - (V)** 125.9 **TWR - (R)** 118.1 **GND** - 121.8

NAVAIDS - CHISINAU VORW-DME - HA 113.700 CHN CH 84 N46°55.58' E28°53.95' 081°

1.3 NM to Fld. 418/5°11.3'E **CHISINAU NDB** - HHW 398.000 RG N46°55.60' E28°51.40'

089° 3.1 NM to Fld. Unk/5°10.8'E Opr HO. **CHISINAU NDB** - HHW 398.000 LD

N46°55.80' E29°00.70' 263° 3.3 NM to Fld. Unk/5°12.5'E Opr HO.

ILS/RADAR - ➔ ILS BRG 084° LCZR IRG 110.3 CH40 GS 3.0° LOM RG 398 LMM R 473 ➔ **ILS** BRG 264° LCZR ILD 109.9 CH36 GS 3.0° LOM LD 398 LMM L 473.

CHITA ACC, RS **UIAA** (CIV) (R) (V) **CON - E Sctr** - 134.9 **W Sctr** - 135.6 (132.3 Opr 0500-1300Z for MOGOCHA CTA) 126.0X 123.5X **RDO** - (6670 6589 daylight) (3425 3461 ngt) **6G, H, 7C, 8H**

CHITA, RS **NDB** - HHW 518.000 DG N52°01.00' E113°22.70' 290° 2.8 NM to KADALA.
Unk/7°48.4'W Opr HO. **NDB** - HHW 518.000 ZM N52°02.40' E113°11.20' 108° 4.5 NM
to KADALA. Unk/7°43.2'W Opr HO. **6H**

CHOIBALSAN, (CHOIBALSAN NORTHEAST) MG **ZMCD** CIV N48°08.14' E114°38.78'
2457 UTC+8(+9DT) **6H**
RWY-12 (8530x131 CON PCN 53 R/B/W/U) L11,55 **RWY-30**
COMMUNICATIONS - ONON RDO - O/R 5505 ADDL FREQ 2435 KHZ
ONON APP - O/R 130.0

CHOKURDAKH ACC, RS **UESO** (CIV) **(R) CON** - 132.1 Opr 2200-1200Z++ Sun
and Mon-Fri, OT ctc Tiksi CON on 134.3 for awy G494, G495 abv FL266. **Tiksi RDO** - 4712
ENAME T-2G

CHOKURDAKH, RS **NDB** - HHW 600.000 LT N70°38.20' E148°00.90' Unk/13°34.1'W
Opr HO. **T-2G**

CHONGQING, CH See JIANGBEI

CHONGZHOU, CH **VORW-DME** - HA 114.500 CZH CH 92 N30°38.90' E103°41.20'
1645/1°42.0'W **7C**

CHUDOVO, RS **NDB** - HHW 940.000 UD N59°07.00' E31°39.00' Unk/9°13.5'E Opr HO.
2E

CHULMAN ACC, RS **UELL** (CIV) **(R) (V) CON** - **N Sctr** - Chulman CON 1 - **129.7**
129.7 **S Sctr** - Chulman CON 2 - **121.7** 121.7 **RDO** - (2986 3461 ngt) (5568 6589 daylt)
4465 4728 **6H**

CHULMAN, RS **UE--/UE40** CIV N56°54.84' E124°54.83' 2812 UTC+9(+10DT) **6H**
RWY-08 L7,9,30 (11811x148 CON auw 190 tons) L7,9,30 **RWY-26**
REMARKS - Opr 2300-1100Z++. **RSTD** - Afl'd for emerg l'dg of flt operting along the
cros-polar rte.
COMMUNICATIONS - TWR - 118.3
NAVAIDS - CHULMAN VORW-DME - HA 113.800 NRG CH 85 N56°54.50' E124°52.60' 088°
1.3 NM to Fld. 2697/(A)12°00.0'W **CHULMAN NDB** - HHW 458.000 RQ N56°53.60'
E124°48.90' 083° 3.5 NM to Fld. Unk/13°25.2'W
ILS/RADAR - ➔ **ILS** - BRG 081° LCZR IRQ 110.3 GS 2.8° LOM RQ 458. ■ **RADAR** - ASR - Call
KRUG 118.3.

CONGHUA, CH **VORW-DME** - HA 113.000 CON CH 77 N23°35.30' E113°35.10' 234°
19.7 NM to BAIYUN INTL. 239/2°25.0'W **7D,8F**

DAHUSHAN, CH **VORW-DME** - HA 116.500 DHN CH 112 N41°38.50' E122°07.00'
23/8°13.0'W Opr HO. **NDB** - HW 276.000 KM N41°38.30' E122°06.90' Unk/8°13.0'W
Opr HO. **7C,8G**

DALANZADGAD, (OMNOGOBI) MG **ZMDZ** CIV N43°35.50' E104°25.79' 4787
UTC+8 **7B**
RWY-03 (7545x164 CON) **RWY-21**
REMARKS - **RSTD** - Tkof rwy 03, lndg rwy 21 only.
COMMUNICATIONS - HONGOR RDO - ON REQUEST 5505 ADDL FREQ 2435 KHZ
HONGOR APP - O/R 128.0
NAVAIDS - DALANZADGAD NDB - HW 430.000 UG N43°36.54' E104°26.54' 208° 1.2 NM
to Fld. Unk/2°44.1'W

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DALIAN ACC, CH **ZYTL** CAAC **CON** - **AREA 1** - 123.2 132.55 **AREA 2** - **122.15**
132.55 (0100-1200Z) **RDO** - 8897 (0001-1200Z) 3016 (1201-0000Z) 6571 **7C, 8G**

DALIAN, CH **VORW-DME** - HA 112.300 DLC CH 70 N38°57.60' E121°30.80' 074° 1.2 NM
to ZHOUSHUIZI. 141/7°20.0'W Opr HO. **7C-8G**

DALNA, RS **NDB** - HHW 1010.000 PT N61°53.70' E34°05.20' Unk/11°13.5'E **2E,6E**

DALVERZIN, UZ **NDB** - HW 955.000 FC N40°24.00' E69°17.00' Unk/4°31.0'E **5C**

DANDONG, CH **VORW-DME** - HA 113.900 DDG CH 86 N40°15.60' E124°17.30'
213/8°15.0'W Opr HO. **8G**

DANGSHAN, CH **VORW-DME** - HA 117.300 DSH CH 120 N30°08.90' E120°29.90' 331°
5.9 NM to XIAOSHAN. 43/4°51.0'W Opr HO. **7D**

DARONGJIANG, CH **NDB** - HW 398.000 VQ N25°33.50' E110°28.70' Unk/2°16.0'W
Opr HO. **7C, 8E**

DASHOGUZ ACC, TX **UTAT** (CIV) **CON** - **133.8** 133.8 **130.4R** 130.4R (**130.4**
130.4 til 1 Mar 04 est.) **RDO** - 4728 **5B,C**

DASHOGUZ, (KHODZHAKUMBET) TX **UTAT** CIV N41°45.67' E59°49.60'
(40TGM3498227115) 272 UTC+5 **5B**
RWY-09L L7,20 (8858x138 ASP PCN 32 R/C/X/T) L7,20 **RWY-27R**
RWY-09R (CLSD 4921x98 ASP) **RWY-27L**

SERVICE - FUEL - (NC-TS-1)

REMARKS - Opr 0000-1800Z++ **MISC** - A 6560' GRS Rwy 9-27 lctd S of Rwy 9R-27L. A
2130' GRS NW-SE Rwy lctd off app end of Rwy 27L. **RWY** - Rwy 09R/27L perm clsd.

COMMUNICATIONS - TRANSIT - 131.7 **APP** - 130.4

NAVAIDS - DASHOGUZ NDB - HW 322.000 RP N41°45.70' E59°45.90' 085° 2.8 NM to Fld.
Unk/5°40.6'E **DASHOGUZ NDB** - HW 322.000 VH N41°45.60' E59°53.50' 266° 2.9 NM
to Fld. Unk/5°40.2'E

ILS/RADAR - ➔ **ILS** - 09L - BRG 085° LCZR IRP 108.3 GS 2.4° LOM RP 322 ➔ **ILS** 27R - BRG
265° LCZR IVH 111.3 GS 2.4° LOM VH 322

DASHUIPO, (WENDENG WEIHA) CH **ZSWH** MIL/CIV N37°11.23' E122°13.73' 145
UTC+8 **8G**
RWY-02 L4,5,17,50 (8530x148 CON PCN 52 R/B/W/T) L4,5,17,50 **RWY-20**
←NET UNK (625' OVRN)

REMARKS - CAUTION - No eng runup near boarding area. **MISC** - Twr perms rqr before
pwr push-back.

COMMUNICATIONS - ATIS - 127.05 **WEIHAI TWR** - Opr HO 130.0 118.65

NAVAIDS - WEIHAI VORW-DME - T 115.800 WEH CH 105 N37°11.20' E122°13.60' At Fld.
145/6°59.2'W

DATUOPU, CH **NDB** - HW 520.000 ZK N28°01.00' E112°57.90' 250/3°5.0'W **7C,8F**

DAVYDO-MYKIL'S'KE, UP **NDB** - MHW 1110.000 DW N48°30.09' E39°50.40'
Unk/7°22.0'E **3C**

DAWANGZHUANG, CH **VORW-DME** - HA 112.700 VYK CH 74 N39°11.50'
E116°34.30' 100/6°11.0'W Opr HO. **NDB** - MHW 489.000 YK N39°11.50' E116°34.30'
100/6°11.0'W Opr HO. **7C, D-8G**

DENGKOU, CH **VORW-DME** - HA 113.500 DKO CH 82 N40°18.90' E107°00.00'
3335/3°21.0'W Opr HO. **7C, 8G**

DEXIN, CH **NDB** - MHW 332.000 JA N42°52.20' E129°20.30' 081° 5.0 NM to YANJL.
Unk/9°42.0'W Opr HO. **8H**

DIKSON ACC, RS **UODD** (CIV) **(R) CON** - **133.4** 133.4 to FL69 (NORILSK NORTH
CONTROL 133.4 6672 8822X abv FL79). **6F,T-2G**

DIKSON, RS **NDB** - HHW 405.000 SU N73°31.00' E80°22.90' Unk/29°40.7'E **T-2G**

DIWOPU, (WULUMUQI DIWOPU) CH **ZWWW** CIV N43°54.43' E87°28.45' 2125 UTC+8
7B
RWY-07 L4,5,11,50 (11811x148 CON PCN 74 R/A/W/T) L2,3,4,5,10,50 **RWY-25**
SERVICE - **FUEL** - Opr 2200-1600Z. (NC-J)
REMARKS - Opr HS or O/R. **CSTMS/AG/IMG** - Avbl.
COMMUNICATIONS - **ATIS** - Opr H24. 126.7 **TWR** - Opr H24. 118.1 125.0
GND - Opr H24. 121.65
NAVAIDS - **URUMQI VORW-DME** - HA 115.700 URC CH 104 N43°54.40' E87°28.50' At Fld.
2151/2°48.0'E Opr HO. **FUKANG VORW-DME** - HA 116.300 FKG CH 110 N44°10.00'
E87°59.00' 235° 27.0 NM to Fld. 1805/2°45.0'E Opr HO. **FUKANG NDB** - HW 369.000
FK N44°10.00' E87°59.00' 235° 27.0 NM to Fld. Unk/2°45.0'E Opr O/R.
ILS/RADAR - ➔ **ILS-DME** - BRG 070° LCZR IOY 109.7 CH 104 GS 3.0° LOM OY 352 Opr HO.
➔ **ILS-DME** - BRG 250° LCZR IRM 110.3 CH 104 GS 3.0° LOM RM 398 Opr HO.

DMYTRIVKA, UP **NDB** - HW 690.000 DM N45°28.69' E35°03.21' Unk/5°51.0'E **4I**

DNIPROPETROVS'K AUX ACC, UP **UKDD** (CIV) **(R) CON** - Sctr NORTH -
126.55 128.3, Sctr SOUTH - 128.3 **1D, 3B,4I**

DNIPROPETROVSK INTL, UP **UKDD** CIV N48°21.43' E35°06.03' 481
UTC+2 (+3DT) **3B**
RWY-09 L5,11,50 (9320x144 CON PCN 36 R/C/X/T) L5,11,50 **RWY-27**
REMARKS - **CSTMS/IMG** - avbl
COMMUNICATIONS - **RADAR** - 119.4 **TWR** - 118.6 **GND** - 121.8 **METEO** - 134.9
NAVAIDS - **DNIPROPETROVSK VORW-DME** - HA 112.500 DNP CH 72 N48°21.57'
E35°06.15' At Fld. 509/6°35.0'E
ILS/RADAR - ➔ **ILS** - BRG 085° LCZR IDP 109.5 GS 2.5° LOM DP 335 LMM P 687. ➔ **ILS** - BRG
265° LCZR IDR 110.3 GS 3.0° LOM DR 335 LMM R 687■ **RADAR** - ASR -Call
DNIPROPETROVSK RADAR 119.4

DOBRUSHYN, UP **NDB** - HHW 1175.000 DO N45°22.58' E33°21.61' Unk/5°36.0'E **4I**

DOBRYNSKOYE, RS **NDB** - HHW 307.000 VA N56°16.00' E40°36.00' Unk/10°38.2'E
2F, G-6E

DOMODEDOVO, RS **UDD** CIV N55°24.53' E37°54.38' 588 UTC+3(+4DT)
2F, H, T-1E
RWY-14L L4,5,27,50 (12448x174 CON PCN 78 R/C/W/T) L3,4,5,27,50 **RWY-32R**
RWY-14C L7 (8531x148 CON PCN 57 R/A/W/T) L7 **RWY-32C**
RWY-14R L5,24,50 (11483x230 CON PCN 53 R/C/X/U) L5,24,50 **RWY-32L**
SERVICE - **FUEL** - (NC- TS1)
REMARKS - **RSTD** - Rwy 14C-32C for tkof only. First 394' of Rwy 14C and first 328' of Rwy
14R-32L, Rwy 14L-32R unuse for tkof. Twy 9 clsd. **CAUTION** - Do not confuse lgt hwy with
Rwy 14R or 14L.

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COMMUNICATIONS - ATIS - 128.3 **APP - (R) (V)** 120.6 124.4X 129.0X Blw FL39
TWR - (V) 118.6 119.7 (118.6 Rwy 14R-32L, Rwy 14C-32C) (119.7 Rwy 14L-32R)
TAXIING - 119.0 **DELIVERY** - 123.75 **KRUG - (R) (V)** 127.7 Abv TLv to FL39 within TCA
APRON - 130.6 **VOLMET** - 127.875 **TRANSIT** - 129.15

NAVAIDS - DOMODEDOVO NDB/LOM - HW 659.000 DO N55°21.90' E37°56.50' 326°
2.9 NM to Fld. Unk/9°34.0'E **DOMODEDOVO NDB/LOM** - HW 437.000 DW N55°27.20'
E37°52.50' 158° 2.9 NM to Fld. Unk/9°36.0'E **DOMODEDOVO NDB/LOM** - HW 659.000
DM N55°27.10' E37°50.30' 138° 3.5 NM to Fld. Unk/9°35.0'E
DOMODEDOVO NDB/LOM - HW 437.000 DE N55°22.00' E37°58.70' 316° 3.5 NM to Fld.
Unk/9°35.0'E

ILS/RADAR - ➔ILS 14R - BRG 137° LCZR IDM 110.1 GS 3.0° LOM DM 659. ➔**ILS** 32L - BRG
317° LCZR IDO 109.3 GS 3.0° LOM DO 659. ➔**ILS** 14L - BRG 137° LCZR IDW 108.5 GP 3.0°
LOM DW 437. ➔**ILS-DME** 32R - BRG 317° LCZR IDE 111.9 CH 56X GP 3.0° LOM DE 437.

DONETSK ACC, UP **UKCC** (CIV) **(R) CON** - 127.3 **VHF/DF** **3B,C, 4I**

DONETSK INTL, UP **UKCC** CIV N48°04.42' E37°44.38' 791 UTC+2 (+3DT) **3B**
RWY-08 L3,4,5,10 (8150x157 ASP PCN 39 F/D/X/T) L4,5,11 **RWY-26**

SERVICE - FUEL - (NC-A1)

REMARKS - CSTMS/IMG - IMG avbl

COMMUNICATIONS - APP - 127.3 134.0 **TWR** - 118.3 **GND** - 119.0 **RADAR** - 120.7
METEO - 121.3

NAVAIDS - DONETSK VORW-DME - HA 115.000 DON CH 97 N48°04.31' E37°44.15'
At Fld. 758/6°56.0'E

ILS/RADAR - ➔ ILS - BRG 083° LCZR IDN 109.3 GS 3.0° LOM DN 390 LMM N 795. ➔ **ILS** -
BRG 263° LCZR IDO 111.7 GS 2.4° LOM DO 390 LMM O 795.

DONGMULANTOU, CH **VORW-DME** - HA 112.700 MLT CH 74 N20°09.10'
E110°40.40' 223° 17.7 NM to MEILAN. 190/1°32.0'W Opr HO. **8E**

DONGSHAN, (HAILAR) CH **ZBLA** CIV N49°12.30' E119°49.50' 2169 UTC+8 **6H, 8H**
RWY-09 L5,20 (8530x148 CON PCN 34 R/B/W/T) L5,11 **RWY-27**

REMARKS - Opr HS and O/R by 0800Z of prev day. **CSTMS/AG/IMG** - Avbl.

COMMUNICATIONS - HAILAR TWR - Opr HO. 118.1 130.0

NAVAIDS - HAILAR VORW-DME - HA 115.100 HLD CH 98 N49°12.10' E119°49.40' At Fld.
2188/9°42.0'W Opr HO. **DONGSHAN NDB** - HW 347.000 HL N49°12.70' E119°47.70'
109° 1.2 NM to Fld. 2240/9°42.0'W Opr HO.

ILS/RADAR - ➔ ILS-DME - BRG 273° LCZR IUC 110.3 CH 98 GS 3.0° LOM UC 351 Opr HO.

DONGSHAN, CH **NDB** - HW 413.000 KN N27°44.60' E120°39.00' Unk/4°16.0'W Opr
HO. **8F**

DONGYANGJIAO, CH **NDB** - HW 296.000 PU N41°30.40' E123°17.60' 047°
11.7 NM to TAOXIAN. Unk/8°25.0'W Opr HO. **7C, 8G**

DONGYING, CH **NDB** - HW 345.000 JB N37°35.40' E118°47.10' 250/6°21.0'W **7C,8G**

DUDINKA, RS **NDB** - HHW 700.000 BI N69°25.00' E86°14.00' Unk/19°54.0'E **6F, T-2G**

DUSHANBE ACC, TI **UTDD (R) (V) CON** - 133.1 133.1 **RDO** - (4728 Days) 3467
5658 9955 10018 **INFO** - (4095 Opr 1600-0100Z.) (8145 Opr 0100-1600Z.) **VHF/DF**
5C, D, 7A

DUSHANBE, TI **UTDD** MIL/CIV N38°32.60' E68°49.50' 2575 UTC+5 **5C, 7A**
RWY-09 L7,20 (10170x147 ASP PCN 72 F/C/W/T) L7 **RWY-27**
←8835

SERVICE - AOE **FUEL** - Fuel Stock Low - Call Aerocontrol C+42 060 5943176 (TS-1)
FLUID - OX **OIL** - O-MK8

REMARKS - **RSTD** - The first 328' (100m) of Rwy 09-27 unusue for tkof. **CAUTION** - PAR O/S til 31 Dec 05 est. Rwy 27 ALS O/S til 31 Dec 05 est. Twy 4 clsd for cl 1 and 2 acft til 31 Dec 05 est.

COMMUNICATIONS - **ATIS** - 126.2 *REMARKS:* (Russian - English) **APP** - 127.1
TWR - 119.2 **GND** - 121.7 *REMARKS:* (CS Taxiing)

NAVAIDS - **DUSHANBE VORW-DME** - HA 113.600 DNB CH 83 N38°32.50' E68°48.70'
At Fld. 2589/3°52.7'E **DUSHANBE NDB** - HW 420.000 WG N38°32.60' E68°53.10' 266°
2.8 NM to Fld. Unk/3°52.5'E **DUSHANBE NDB** - HW 372.000 FN N38°32.60' E68°45.30'
090° 3.3 NM to Fld. Unk/3°53.1'E **VHF/DF**

ILS/RADAR - ➡ **ILS** - BRG 086° LCZR IFN 110.3 GS 3° LOM FN 420 ■ **RADAR** - ASR - Call KRUG 119.2

DYURTYULI, RS **NDB** - HHW 380.000 DT N55°28.55' E54°53.62' Unk/12°42.3'E **6E**

DZHIZAK, UZ **NDB** - HW 480.000 KA N40°17.00' E67°57.00' Unk/4°35.0'E **5C**

DZHUBGA, RS **NDB** - HHW 420.000 DV N44°19.00' E38°42.00' Unk/5°59.6'E Opr
0500-1900Z++ exc Sun and Hol. **4J**

EKIBASTUZ, KZ **NDB** - HW 396.000 YZ N51°36.70' E75°15.80' Unk/8°59.9'E Opr HO.
6F

EKIMCHAN ACC, RS **UHBP** (CIV) **(R) CON - 134.0** 134.0 **RDO** - (3461 ngf) (6589
daylt) 4465 (KHABAROVSK ACC for all hgt) **6H, 9A**

EKIMCHAN, RS **NDB** - HHW 680.000 QA N53°08.00' E132°49.00' Unk/13°11.5'W
6H, 9A

ELISTA, RS **URWI** CIV N46°22.44' E44°19.85' 501 UTC+3(+4DT) **3D, 5A**
RWY-09L7 (6930x148 ASP PCN 26 R/B/X/T) **L7,20 RWY-27**
RWY-09L (7555x280 GRE) **RWY-27R**

SERVICE - **FUEL** - (NC-TS1)

COMMUNICATIONS - **APP** - Opr 0400-1800Z++ **(R)** 124.2 **TWR** - Svc as START, TAXIING
and KRUG. Opr 0400-1400Z++ **(R)** 118.3

NAVAIDS - **ELISTA NDB** - HHW 311.000 SA N46°22.80' E44°16.20' 098° 2.6 NM to Fld.
Unk/7°09.7'E Opr 0400-1800Z++. **ELISTA NDB** - HHW 311.000 BV N46°22.10'
E44°23.70' 270° 2.7 NM to Fld. Unk/7°10.2'E Opr 0400-1800Z++. **VHF/DF**

ELSHANKA, RS **NDB** - HHW 970.000 US N51°48.80' E46°23.60' Unk/9°38.0'E Opr HO.
3D, 5A

ENSHI, CH **VORW-DME** - HA 114.700 ENH CH 94 N30°17.50' E109°35.90' 3450/2°48.0'W
Opr HO. **7C, 8F**

EREN, CH **NDB** - MHW 411.000 PK N43°38.00' E112°00.00' Unk/5°38.0'W Opr HO.
VORW-DME - HA 114.900 ERE CH 96 N43°38.30' E111°57.20' 3203/5°37.0'W Opr HO.
7C, 8G

ERTANG, CH **NDB** - HW 213.000 QP N24°39.40' E110°47.60' Unk/2°12.0'W Opr HO.
7C, 8E

FAYZABAD, TI **NDB** - HW 475.000 JD N38°32.60' E69°18.80' Unk/3°50.4'E Opr
0400-1200Z++ Mon-Fri til 31 Dec 05 est. **5C**

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FENGHUANG, CH See PHOENIX INTL

FENGHUO, CH **NDB** - HW 460.000 GF N34°33.20' E108°37.80' 137° 8.8 NM
to XIANYANG. Unk/3°10.0'W Opr HO. **7C, 8F**

FENGNING, CH **NDB** - HW 374.000 GM N41°14.20' E116°37.60' Unk/6°39.0'W Opr
HO. **7C, 8G**

FUJIACHANG, CH **VORW-DME** - HA 113.900 FJC CH 86 N29°55.70' E104°18.30'
1527/1°45.0'W Opr HO. **NDB** - HW 352.000 VW N29°55.70' E104°18.10' Unk/1°44.0'W
Opr HO.
FJC VOR unuse 182° byd 48 NM blw 11,900'
7C, 8F

FUJIAZHUANG, CH **NDB** - HW 414.000 FC N38°52.40' E121°38.20' 320° 7.2 NM
to ZHOUSHUIZI. Unk/7°21.0'W Opr HO. **8G**

FUKANG, CH **VORW-DME** - HA 116.300 FKG CH 110 N44°10.00' E87°59.00' 235°
27.0 NM to DIWOPU. 1805/2°45.0'E Opr HO. **NDB** - HW 369.000 FK N44°10.00'
E87°59.00' 235° 27.0 NM to DIWOPU. Unk/2°45.0'E Opr O/R. **7B**

FULING, CH **NDB** - HW 295.000 JH N29°42.10' E107°22.60' Unk/2°16.0'W Opr HO.
VORW-DME - HA 114.000 FLG CH 87 N29°41.80' E107°22.50' 1534/2°17.0'W Opr HO.
7C-8F

FUQING, CH **VORW-DME** - HA 117.400 FQG CH 121 N25°44.40' E119°23.00' 052°
19.1 NM to CHANGLE. 378/3°38.0'W Opr HO. **8F**

FUYU, CH **VORW-DME** - HA 113.700 FYU CH 84 N44°54.70' E124°48.30' 456/9°43.0'W
6H,7C

FUZHOU, CH **VORW-DME** - HA 116.800 FOC CH 115 N25°56.40' E119°39.70'
At CHANGLE. 46/3°43.0'W Opr HO. **8F**

GAGARIN, RS **NDB** - HHW 985.000 FK N55°33.00' E35°02.00' Unk/8°54.5'E **2F**

GANLANBA, CH **VORW-DME** - HA 112.500 JHG CH 72 N21°51.80' E100°55.90' 305°
11.7 NM to GASA. 1850/0°55.0'W Opr HO. **8E**

GANZHOU, CH **VORW-DME** - HA 112.100 KOW CH 58 N25°49.30' E114°54.90'
338/3°1.0'W Opr HO. **7C, 8F**

GAOLAN, CH **NDB** - HHW 204.000 UJ N21°53.20' E113°15.60' Unk/2°4.0'W Opr HO.
8E

GAOQI, (XIAMEN) CH **ZSAM** CIV N24°32.64' E118°07.66' 59 UTC+8 **8F**
RWY-05 L2,3,4,5,10,50 (11155x148 ASP PCN 83 F/B/W/T) L4,5,11,50 **RWY-23**
10665→ ←10495

SERVICE - FUEL - (NC-J)

REMARKS - Opr HS or O/R. **RSTD** - Deviations SE of ext rwy cntr line not permitted. 180°
turns on rwy proh. SSR transponder req for tkof and ldg. **CAUTION** - Bird haz.

CSTMS/AG/IMG - Avbl.

COMMUNICATIONS - ATIS - Opr H24. 126.25 **XIAMEN APP** - OPR 0100-1200 121.35
119.05 **XIAMEN TWR** - 118.25 only Opr H24. 118.25 130.0 **XIAMEN GND** - Opr
0001-1200Z. 121.7

NAVAIDS - XIAMEN VORW-DME - HA 114.500 XMN CH 92 N24°32.50' E118°07.30'
At Fld. 98/3°12.0'W Opr HO. **XINGLIN NDB** - HW 296.000 WF N24°34.00' E118°01.00'
103° 6.2 NM to Fld. Unk/3°11.0'W Opr HO.

ILS/RADAR - ➔ **ILS-DME** - BRG 055° LCZR IWF 110.3 CH 92 GS 3° Opr HO. ➔ **ILS-DME** - BRG
235° LCZR IKK 109.7 CH 34 GS 3° Opr HO.

GAOYAO, CH **VORW-DME** - HA 116.500 GYA CH 112 N23°04.20' E112°29.20'
53/2°11.0'W Opr HO. **NDB** - HW 317.000 BH N23°04.20' E112°29.20' Unk/2°11.0'W Opr
HO. **7D, 8E**

GASA, (XISHUANGBANNA) CH **ZPJH** CIV N21°58.43' E100°45.58' 1815 UTC+8 **8E**
RWY-16L9 (7218x148 CON PCN 33 R/B/W/T) **L9,11,50 RWY-34**

REMARKS - Opr HS or O/R. **CSTMS/AG/IMG** - Avbl, 3 day PN rqr.

COMMUNICATIONS - **BANNA TWR** - Opr HO. 130.0 118.6

NAVAIDS - **XISHUANGBANNA VORW-DME** - HA 116.300 BNN CH 110 N21°59.08'
E100°45.15' At Fld. 1840/0°54.0'W **GANLANBA VORW-DME** - HA 112.500 JHG CH 72
N21°51.80' E100°55.90' 305° 11.7 NM to Fld. 1850/0°55.0'W Opr HO.

ILS/RADAR - ➔ **ILS-DME** - BRG 341° LCZR ILK 110.3 CH 40 GS 3° Opr HO.

GENGMA, CH **VORW-DME** - HA 114.700 GMA CH 94 N23°31.90' E99°24.70'
3763/0°52.0'W Opr HO. **NDB** - HW 322.000 QK N23°32.00' E99°24.00' 3760/0°51.0'W
Opr HO. **8E**

GLOTAYEVO, RS **NDB** - HHW 1020.000 DK N55°09.70' E37°48.10' Unk/9°27.6'E
2F, T-1E

GOLITSYNO, RS **NDB** - HHW 490.000 FI N53°36.00' E44°07.00' Unk/10°06.9'E **2G, 3C**

GOMEL, BO **UMGG** CIV N52°31.62' E31°01.00' 472 UTC+2(+3DT) **1D, 3A**
RWY-11L5,11,50 (8432x141 ASP PCN 53 F/D/X/T) **L5,11,50 RWY-29**

COMMUNICATIONS - **APP** - Serves as Krug **(R) (V)** 126.1 **TWR** - Call START. Provides
GND svc. **(V)** 118.1

NAVAIDS - **GOMEL VORW-DME** - HA 113.100 GOL CH 78 N52°31.20' E31°03.10' 283°
1.3 NM to Fld. 482/(A)5°00.0'E **GOMEL NDB** - MHW 247.000 MV N52°30.70' E31°05.00'
291° 2.6 NM to Fld. Unk/6°55.1'E Opr HO. **GOMEL NDB** - MHW 247.000 GM
N52°32.70' E30°56.80' 106° 2.8 NM to Fld. Unk/6°53.8'E Opr HO. **VHF/DF**

ILS/RADAR - ➔ **ILS** - BRG 106° LCZR IGM 109.3 GS 2.67° LOM GM 247 Opr HO. ➔ **ILS** -
BRG 286° LCZR IMV 108.7 GS 2.67° LOM MV 247 Opr HO. ■ **RADAR** - APP - Call KRUG
126.1.

GORI, GG **NDB** - HW 462.000 OZ N42°01.00' E44°07.93' Unk/5°47.1'E **5A**

GORKIY STRIGINO, RS See STRIGINO

GRODNO, BO **UMMG** CIV N53°36.12' E24°03.23' 443 UTC+2(+3DT) **1C**
RWY-09 (2172x92 ASP) **RWY-27**
1952→

RWY-17L7,20,50 (8399x138 CON PCN 25 R/A/X/T) **L7,20,50 RWY-35**

SERVICE - **FUEL** - (NC-TS1)

REMARKS - Opr by NOTAM.

COMMUNICATIONS - **APP** - Opr HO. Svc as KRUG, TOWER, START and TAXIING. **(R) (V)**
134.5

NAVAIDS - **GRODNO NDB** - HW 452.000 GP N53°39.00' E24°03.10' 173° 2.9 NM to Fld.
Unk/5°22.0'E Opr HO **GRODNO NDB** - HW 452.000 WF N53°33.20' E24°03.50' 357°
2.9 NM to Fld. Unk/5°21.0'E Opr HO **VHF/DF**

ILS/RADAR - ➔ **ILS** - BRG 174° LCZR IGP 109.5 GS 2.7° LOM GP 452 Opr HO.

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GUANGZHOU ACC, CH **ZGZU** CAAC **CON - AREA 1 - 118.95 132.4**
(0100-1100Z) **AREA 2 - 120.75 134.25** (by ATC) **AREA 3 - 120.95 120.95 124.45** 124.45
(by ATC) **AREA 4 - 122.5 122.5 132.65 132.65** (0030 - 1630Z) **AREA 5 - 126.1 126.1**
125.85 125.85 AREA 6 - 125.35 125.35 134.35 134.35 (by ATC) **AREA 7 - 133.95**
133.95 132.35 132.35 (Opr HO) **AREA 8 - 128.35 134.2** (Opr HO) **RDO - 10066**
(0001-1200Z) 3491 (1201-0000Z) 6556 **7C, D, 8E, F**

GUANGZHOU, CH See BAIYUN INTL

GUANLAN, CH **VORW-DME** - HA 112.000 GLN CH 57 N22°42.60' E114°02.10'
348/2°18.0'W Opr HO. **7D, 8E**

GUBEIKOU, CH **NDB** - HW 215.000 LR N40°38.00' E117°05.00' Unk/6°40.0'W Opr
HO. **7C, D, 8G**

GUILIN ACC, CH **ZGKL** (CIV) **CON - 123.75 123.75 133.6 133.6** Opr HO. 6556
(10066 Opr 0001-1200Z) (3491 Opr 1201-2400Z) **7C, 8E**

GUILIN, CH **VORW-DME** - HA 114.900 KWL CH 96 N25°12.60' E110°02.30'
At LIANGJIANG. 570/2°9.0'W Opr HO. **7C, 8E**

GUIYANG ACC, CH **ZUGY** (CIV) **CON - AREA 1 - (122.2 122.2 128.15 128.15)**
AREA 2 - (132.25 132.25 128.15 128.15 Opr 2300-1100Z) (3491 Opr 1201-2400Z) 6556
(10066 Opr 0001-1200Z) **7C, 8E**

GUIYANG, CH **VORW-DME** - HA 114.300 KWE CH 90 N26°31.20' E106°47.70' 016°
1.1 NM to LONGDONGBAO. 3812/1°49.0'W Opr HO. **7C, 8E**

GUMRAK, (VOLGOGRAD GUMRAK) RS **URWW** CIV N48°46.95' E44°20.73' 482
UTC+4(+5DT) **3D, 5A**

RWY-08	(1595x350 GRS)	RWY-26
RWY-11 L5,36,50	(8101x161 ASP PCN 44 F/D/X/T)	L5,36,50 RWY-29
RWY-11R	(5575x330 GRS)	RWY-29L

SERVICE - FUEL - (NC-TS-1)

COMMUNICATIONS - VOLOGRAD ATIS - 132.8 **VOLGOGRAD APP - (R) (V)** 125.3

TWR - Call START. **(V)** 128.0 **GND** - Call TAXIING. 119.0 **ASR** - Call VOLGOGRAD KRUG.
(R) (V) 122.0 **GCA** - Call VOLGOGRAD TWR. **(R) (V)** 128.0

NAVAIDS - GUMRAK NDB - HHW 325.000 WG N48°48.30' E44°17.20' 112° 2.7 NM to Fld.
Unk/8°03.7'E **GUMRAK NDB** - HHW 325.000 WD N48°45.60' E44°24.40' 291° 2.8 NM
to Fld. Unk/8°03.5'E **VHF/DF**

ILS/RADAR - ➔ ILS - BRG 113° LCZR IWG 111.7 GS 2.4° LOM WG 325 LMM G 672 ➔ **ILS** -
BRG 293° LCZR IWD 110.5 GS 2.4° LOM WD 325 LMM D 672 ■ **RADAR** - ASR - Call KRUG
122.0 PAR - Call TWR 128.0.

GUZAR, UZ **NDB** - HW 592.000 GR N38°37.10' E66°14.30' Unk/4°05.9'E **5C**

GYANDZHA, AJ **UBBG** CIV N40°44.26' E46°19.05' 1083 UTC+4(+5DT) **5A**
RWY-12 L7,20 (8217x144 CON PCN 70 R/B/X/T) L7,20 **RWY-30**

SERVICE - FUEL - (NC-TS1) **FLUID** - OX **OIL** - O-MK8

COMMUNICATIONS - ATIS - 119.25 **REMARKS:** (Russian - English) **APP** - 124.0
TWR - 124.0

NAVAIDS - GYANDZHA NDB - HW 486.000 ZW N40°46.00' E46°16.14' 123° 2.8 NM to Fld.
Unk/5°30.2'E **GYANDZHA NDB** - HW 486.000 KM N40°41.90' E46°22.80' 304° 3.7 NM
to Fld. Unk/5°29.2'E Opr O/R

ILS/RADAR - ➔ ILS - BRG 304° LCZR 110.3 GS 3.1° LOM KM 486. Opr O/R.

GYUMRI, AM **VORW-DME** - HA 113.400 GRM CH 81 N40°43.76' E43°50.83' 018° 1.4 NM
to SHIRAK. 5090/5°25.5'E **NDB** - HW 325.000 GM N40°43.73' E43°50.81' 024° 1.4 NM
to SHIRAK. Unk/5°25.7'E **5A**

HAIKOU, CH See MEILAN

HAILANG, (MUDANJIANG) CH **ZYMD** CIV N44°31.44' E129°34.14' 883 UTC+8 **8H**
RWY-04 L4,5,9,12 (8530x148 CON PCN 60 R/B/W/T) L4,5,9,11 **RWY-22**

SERVICE - FUEL - (NC-J)

REMARKS - Opr HS or O/R. **CAUTION** - Bird haz. **CSTMS/AG/IMG** - Avbl.

COMMUNICATIONS - MUDANJIANG TWR - Opr HO. 130.0 118.6

NAVAIDS - HAILANG NDB - MHW 251.000 O N44°32.20' E129°34.60' At Flt.
Unk/10°16.0'W

ILS/RADAR - ➔ **ILS** - BRG 216° LCZR IQM 109.9 GS 3° Opr HO.

HAILAR ACC, CH **ZBLA** (CIV) **CON** - **123.9** 123.9 **134.45** 134.45 Opr HO. 6571
(3016 Opr 1201-2400Z) (8897 Opr 0001-1200Z) **6H, 7C, 8H**

HAILAR, CH **VORW-DME** - HA 115.100 HLD CH 98 N49°12.10' E119°49.40'
At DONGSHAN. 2188/9°42.0'W Opr HO. **6H, 8H**

HAIQING, CH **NDB** - HW 394.000 IJ N47°52.10' E134°38.80' Unk/11°28.0'W Opr HO.
8H, 9A

HAMI, CH **VORW-DME** - HA 115.100 HMI CH 98 N42°50.00' E93°39.00' 2712/0°55.0'E Opr
HO. **NDB** - HW 315.000 RL N42°51.00' E93°38.00' Unk/0°56.0'E Opr O/R. **7B**

HANGZHOU, CH **VORW-DME** - HA 113.000 GHG CH 77 N30°14.40' E120°27.50' 248°
1.4 NM to XIAOSHAN. 43/4°52.0'W **7D**

HARBIN ACC, CH **ZYHB** (CIV) **CON** - **125.0** 125.0 **120.75** 120.75 Opr HO. 6571
(8897Opr 0001-1200Z) (3016 Opr 1201-2400Z) **6H, 7C, 8H**

HARBIN, CH **VORW-DME** - HA 112.500 HRB CH 72 N45°37.40' E126°15.60' At TAIPING.
448/10°12.0'W Opr HO. **6H, 8H**

HEBAOHU, CH **NDB** - MHW 274.000 DA N30°41.90' E113°58.40' Unk/3°46.0'W Opr
HO. **7C, 8F**

HEFEI ACC, CH **ZSOF** (CIV) **CON** - **125.75** **133.55** 122.05 133.55 Opr 0030-1100Z. (
8897Opr 0001-1200Z) (3016 Opr 1201-2400Z) (6571 Opr HO.) **7C, 8F**

HEFEI, CH See LUOGANG

HEIHE, CH **NDB** - HW 578.000 QD N50°06.00' E127°20.10' Unk/11°46.0'W Opr HO.
6, 8H, 9A

HEKOU, CH **NDB** - MHW 369.000 ZF N31°20.00' E114°26.00' Unk/3°58.0'W Opr HO.
7C, 8F

HELIUSHUI, CH **NDB** - HW 250.000 DS N30°12.00' E106°50.70' Unk/2°13.0'W Opr
HO. **7C, 8F**

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HELMIAZIV, UP **NDB** - HHW 910.000 GE N49°49.59' E31°51.10' Unk/6°23.0'E
1D, 3B, T-1F

HENGSHA, CH **VORW-DME** - HA 114.400 HSH CH 91 N31°22.10' E121°50.60' 188°
13.6 NM to PUDONG. 13/5°22.0'W Opr HO. **7D, 8F**

HENGSHUI, CH **NDB** - HW 350.000 HG N37°43.40' E115°42.60' Unk/5°37.0'W Opr
HO **7C, 8G**

HEXI, CH **NDB** - HW 319.000 SB N27°44.20' E102°09.80' 004° 15.1 NM to QINGSHAN.
Unk/1°17.0'W Opr HO. **7B, 8E**

HEYDAR ALIYEV, AJ **UBBB** CIV N40°28.05' E50°02.80' 10 UTC+4(+5DT) **5A**
RWY-16 L5,9,11,50 (8858x197 ASP PCN 50 R/B/X/T) L5,9,11,50 **RWY-34**
RWY-18 L3,4,5,9,10,50 (10499x167 CON PCN 150 F/A/W/T) L3,4,5,9,10,50 **RWY-36**
←10055

SERVICE - AOE **FUEL** - (NC-TS1)

REMARKS - **CAUTION** - Road lgt lctd btn Rwy 34 and Rwy 36 are similar to Rwy 36 Rwy lgt.

COMMUNICATIONS - **BAKU ATIS** - 126.8 126.4 **REMARKS**: (126.8 English)(126.4 Russian)

BAKU APP - (V) 129.3 123.9 **BAKU TWR** - 119.2 **BAKU GND** - 121.7

BAKU RADAR - (V) 120.8 128.0 **BAKU PRECISION** - 119.2

NAVAIDS - **BAKU VORW-DME** - HA 114.100 GYD CH 88 N40°28.34' E50°03.04' At Fld.

7/5°26.6'E **BAKU NDB/LOM** - HW 360.000 BN N40°25.20' E50°03.90' 344° 3.0 NM

to Fld. Unk/5°25.6'E **BAKU NDB/LOM** - HW 470.000 BI N40°30.90' E50°01.10' 156°

3.1 NM to Fld. Unk/5°27.4'E **BAKU NDB/LOM** - HW 515.000 BU N40°31.30' E50°03.80'

193° 3.3 NM to Fld. Unk/5°27.5'E **VHF/DF**

ILS/RADAR - **ILS** - ■ **RADAR** - APP - Baku Radar 120.8 128.0. PAR - Baku Precision 119.2.

HOHHOT ACC, CH **ZBHH** (CIV) **AREA 1 CON** - **133.7** 133.7 **120.5** 120.5 **AREA 2**
CON - Opr 2300-0800Z **125.35** 125.35 **120.5** 120.5 **7C, 8G**

HOHHOT, CH **NDB** - HW 434.000 KJ N40°52.20' E111°53.30' 249° 3.1 NM to BAITA.
Unk/5°6.0'W **7B, 8G**

HONGQIAO INTL, (SHANGHAI HONGQIAO) CH **ZSSS** CIV

N31°11.87' E121°20.18' 10 UTC+8 **7D, 8F**

RWY-18 L2,3,4,5,10,50 (10498x190 ASP PCN 74 R/B/W/T)

L2,3,4,5,10,50 **RWY-36**

9841→

←9841

SERVICE - AOE **FUEL** - (NC-A1)

REMARKS - Opr HS or O/R. **RSTD** - SSR transponder rqr for tkof and ldg. Turns greater
than 90° proh on rwy and twy.

COMMUNICATIONS - **ATIS** - Opr H24. 132.25 **SHANGHAI APP SCTR 2** - Opr H24.

119.75 120.8 EAST SCTR **SHANGHAI APP SCTR 1** - Opr H24. 120.3 120.8

SHANGHAI APP SCTR 3 - Opr 121.3 (119.2) 0001-1400, 119.75 (120.8) 1401-2400 121.3

119.2 119.75 120.8 **SHANGHAI APP SCTR 4** - Opr 0030-1430 123.8 119.2

TWR - Opr H24. 118.1 124.3 **GND** - Opr H24. 121.6 118.1 **DELIVERY** - 121.75

NAVAIDS - **HONGQIAO VORW-DME** - HA 117.200 SHA CH 119 N31°12.00' E121°19.90'

At Fld. 46/5°14.0'W **JIUTING VORW-DME** - HA 109.600 JTN CH 33 N31°07.50'

E121°20.40' 358° 4.4 NM to Fld. 98/5°14.0'W **HONGQIAO NDB/LMM** - MHW 313.000 C

N31°13.40' E121°20.00' 174° 1.5 NM to Fld. 10/5°15.0'W Opr HO.

NANXIANG NDB/LOM - HHW 369.000 PK N31°17.20' E121°19.80' 177° 5.3 NM to Fld.

80/5°16.0'W Opr HO.

ILS/RADAR - **ILS-DME** - SEE TERMINAL FLIP FOR ILS 18-36 DATA.

HOTAN, CH **VORW-DME** - HA 113.100 HTN CH 78 N37°02.20' E79°52.30' 4672/2°21.0'E
Opr HO. **7A**

HUAILAI, CH **NDB** - HW 360.000 KM N40°23.60' E115°29.50' Unk/6°7.0'W Opr HO.
7C, D, 8G

HUAIROU, CH **VORW-DME** - HA 113.600 HUR CH 83 N40°19.80' E116°44.90'
127/6°28.0'W **NDB** - HW 380.000 OB N40°17.00' E116°32.00' 169° 12.4 NM
to CAPITAL INTL. 170/6°25.0'W **7C, D, 8G**

HUANGCHENG, CH **VORW-DME** - HA 116.100 HCH CH 108 N37°39.30' E120°32.70'
74/6°46.0'W **8G**

HUANGHUA, (CHANGSHA) CH **ZGHA** CIV N28°11.35' E113°13.18' 217 UTC+8
7C, 8F
RWY-18 L4,5,12,50 (8530x148 CON PCN 53 R/B/W/T) L2,4,5,11,50 RWY-36
SERVICE - FUEL - (NC-J)
REMARKS - Opr HS or O/R. **CAUTION** - Bird haz. **CSTMS/AG/IMG** - CSTMS avbl.
COMMUNICATIONS - **ATIS** - Opr HO. 128.8 **CHANGSHU** - Opr H24 119.65 120.6
TWR - Opr HO. 118.55 128.0 **GND** - 121.75
NAVAIDS - **CHANGSHA VORW-DME** - HA 113.300 CSX CH 80 N28°12.20' E113°13.00'
At Fld. 289/3°9.0'W Opr HO.
ILS/RADAR - ➔ **ILS-DME** - BRG 360° LCZR ISV 109.9 CH 80 GS 3.0° Opr HO. ➔ **ILS-DME** -
BRG 180° LCZR IWW 110.3 CH 80 GS 3.0° Opr HO.

HUAYUAN, CH **NDB** - HW 241.000 HY N28°35.00' E109°27.00' Unk/2°31.0'W Opr
O/R. **7C, 8F**

HUGUANG, CH **NDB** - HW 356.000 LH N21°07.90' E110°20.20' Unk/1°38.0'W Opr
HO. **8E**

HULUTAOTUN, CH **NDB** - HW 230.000 UL N39°15.00' E121°37.00' Unk/7°26.0'W
Opr HO. **7C, 8G**

HUNSHUITANG, CH **NDB** - HW 443.000 QB N25°06.50' E102°56.00' 236° 12.5 NM
to WUJIABA. Unk/1°14.0'W Opr HO. **8E**

IGARKA, RS **VORW-DME** - HA 112.300 IGR CH 70 N67°25.80' E86°38.50'
82/(A)18°00.0'E **6F**

IGNATYEVO, RS **UHBB** CIV N50°25.52' E127°24.75' 638 UTC+9(+10DT) **6H, 8H, 9A**
RWY-18 L5,20 (9256x148 ASP PCN 50 F/D/W/T) L5,33 RWY-36
SERVICE - FUEL - (NC-TS1)
REMARKS - **RWY** - Win PCN 73/F/D/W/T. Sum PCN 50/F/D/W/T.
COMMUNICATIONS - **BLAGOVESCHENSK START** - Svc as KRUG. 127.2
BLAGOVESCHENSK METEO - 126.4
NAVAIDS - **BLAGOVESCHENSK VORW-DME** - HA 113.600 BLG CH 83 N50°23.60'
E127°25.60' 356° 2.0 NM to Fld. 751/(A)11°00.0'W **BLAGOVESCHENSK NDB** - HW
350.000 BM N50°28.50' E127°23.80' 169° 3.0 NM to Fld. Unk/11°54.0'W Opr HO.
BLAGOVESCHENSK NDB/LOM - HW 350.000 LZ N50°22.50' E127°25.70' 001° 3.1 NM
to Fld. Unk/11°52.0'W Opr HO. **VHF/DF**
ILS/RADAR - ➔ **ILS** - BRG 360° LCZR ILZ 108.7 GS 3.0° LOM LZ 350 Opr HO.

IRKUTSK ACC, RS **UIII** (CIV) **(R) (V) CON** - **Sctr 1** - 133.4 133.8R. **Sctr 2** - 124.7
132.8X. **Sctr 3** - 134.1 133.8X. **RDO** - (6670 6704 daylt)(3046 3425 ngt). **6G, H**

IRKUTSK, RS **UIII** CIV N52°16.08' E104°23.34' 1675 UTC+8(+9DT) **6G**
RWY-12 L5,9,20,50 (10384x148 CON PCN 72 R/C/X/T) L5,9,36,50 RWY-30
9072→
SERVICE - FUEL - (NC-TS1) **OIL** - O-MK8

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REMARKS - RSTD - Rwy 12-30 clsd for lgt maint Thu 0630-0730Z (0700-0800Z sum).

COMMUNICATIONS - ATIS - 124.85 126.9 (ARR 126.9) (DEP 124.85) **APP** - Provides
RADAR svc 1330-2400Z++. **(R) (V)** 125.2 124.0X **TWR - (V)** 118.1 **TAXIING** - 121.7
RADAR - Opr 2400-1330Z++. **(R) (V)** 119.3 **VOLMET** - 125.475 **TRANSIT** - 131.7

NAVAIDS - IRKUTSK VORW-DME - HA 112.300 IRK CH 70 N52°16.20' E104°23.30' At Fld.
1673/(A)2°32.0'W **IRKUTSK NDB** - HHW 514.000 CN N52°17.10' E104°19.60' 116°
2.5 NM to Fld. Unk/3°02.8'W **IRKUTSK NDB** - HHW 514.000 IR N52°14.90' E104°27.80'
296° 3.0 NM to Fld. Unk/3°07.3'W **VHF/DF**

ILS/RADAR - ➔ ILS - BRG 115° LCZR ICN 111.3 GS 3.2° LOM CN 514. ➔ **ILS** - BRG 295° LCZR
IIR 110.3 GS 3.2° LOM IR 514.

ISHIM, RS NDB - HHW 615.000 OL N56°08.00' E69°25.00' Unk/13°01.0'E **6F**

IVANO FRANKIVSK INTL, UP UKLI CIV N48°53.05' E24°41.17' 919

UTC+2(+3DT) **1C**

RWY-10 L5,11 (8226x144 CON PCN 22 R/B/X/T)

L5,11 **RWY-28**

SERVICE - FUEL - (NC-A1)

REMARKS - Opr 0500-1800Z++ **CSTMS/IMG** - avbl

COMMUNICATIONS - FRANKO APP - Opr 0500-2000Z++ 127.3

FRANKO START - HX 128.5 **REMARKS**: MIL O/R **FRANKO TWR** - Opr 0500-2000Z++
118.3 **FRANKO START** - HX 124.0 **REMARKS**: MIL O/R **FRANKO METEO** - Opr
0500-2000Z++ 126.4

NAVAIDS - IVANO FRANKIVSK VORW-DME - HA 114.200 IVF CH 89 N48°53.08'
E24°41.39' At Fld. 937/4°44.0'E **VHF/DF**

ILS/RADAR - ➔ ILS - BRG 101° IIV 108.7 GS 3° LOM IV 290 LMM V 598 ➔ **ILS** - BRG 281° IIF
109.3 GS 3° LOM IF 290 LMM F 598

IVANOVSKOYE, RS NDB - HHW 405.000 UM N55°52.00' E36°55.00' Unk/9°31.7'E
2F, H, T-1E

IVENETS, BO NDB - HHW 355.000 KI N53°53.00' E26°44.00' Unk/6°09.6'E **1C**

JIAMUSI, CH ZYJM CIV N46°50.60' E130°27.92' 262 UTC+8 **8H**

RWY-06 L2,4,5,11,50

(7218x148 CON PCN 60 R/B/W/T)

L4,5,12,50 **RWY-24**

SERVICE - FUEL - (NC-J)

REMARKS - Opr HS or O/R. **RSTD** - 180° turns on twy proh. **CAUTION** - Do not mistake
lgt'd road for rwy 24. Bird haz. **CSTMS/AG/IMG** - Avbl.

COMMUNICATIONS - TWR - Opr HO. 130.0 118.85

NAVAIDS - JIAMUSI VORW-DME - HA 113.500 JMU CH 82 N46°50.30' E130°27.70' At Fld.
289/11°4.0'W Opr HO.

ILS/RADAR - ➔ ILS-DME - BRG 058° LCZR IRQ 108.3 CH 82 GS 3.0° Opr HO.

JIANGBEI, (CHONGQING) CH ZUCK CIV N29°43.15' E106°38.50' 1365 UTC+8 **7C-8F**

RWY-02 L4,5,11,50

(10499x148 CON PCN 52 R/B/W/T)

L4,5,11,50 **RWY-20**

SERVICE - FUEL - (NC-J)

REMARKS - **RSTD** - SSR transponder rqr for tkof and ldg. 180° on twy proh.
CSTMS/AG/IMG - Avbl.

COMMUNICATIONS - ATIS - Opr HO. 126.4 **CHONGQING APP** - Opr HO. 125.2
119.55 **CHONGQING TWR** - Opr HO. 118.2 130.0 **CHONGQING GND** - Opr HO.
121.75

NAVAIDS - CHONGQING VORW-DME - HA 116.100 CKG CH 108 N29°43.30' E106°38.60'
At Fld. 1463/2°8.0'W Opr HO. **CHANGSHENGQIAO NDB** - HHW 306.000 WX
N29°30.90' E106°39.60' 356° 12.3 NM to Fld. Unk/2°7.0'W Opr HO.
TONGJINGCHANG NDB - HHW 241.000 OS N29°50.90' E106°50.70' 234° 13.1 NM
to Fld. Unk/2°12.0'W Opr HO.

ILS/RADAR - ➔ ILS-DME - BRG 019° LCZR IWX 109.7 CH 108 GS 3.0° Opr HO. ➔ **ILS-DME** -
BRG 199° LCZR IOS 108.1 CH 108 GS 3.0° Opr HO.

JIANQIAO, CH **NDB** - HW 324.000 CJ N30°18.10' E120°09.80' 107° 14.7 NM
to XIAOSHAN. 1/4°50.0'W **7D,8F**

JIAYUGUAN, CH **VORW-DME** - HA 114.500 CHW CH 92 N39°51.00' E98°21.00'
5091/0°39.0'W Opr HO. **NDB** - HW 341.000 WR N39°49.00' E98°23.00' Unk/0°40.0'W
Opr O/R. **7B**

JINAN ACC, CH **ZSTN** (CIV) **CON** - (**AREA 1** abv- **27,500 128.35 133.85**) (**AREA 2**
blw- **27,500 122.9 133.85** Opr 0000-1200Z) (8897 0001-1200Z) (3016 1201-2400Z) 6571
Opr HO. **7, 8F, G**

JINAN, CH **VORW-DME** - HA 113.700 YQG CH 84 N36°49.80' E117°13.00' 005° 1.6 NM
to YAOQIANG. 76/5°48.0'W Opr HO. **7C, 8G**

JINGNING, CH **VORW-DME** - HA 113.700 JIG CH 84 N35°31.70' E105°43.20'
5479/2°31.0'W Opr HO. **NDB** - HHW 162.000 QI N35°31.40' E105°42.60' Unk/2°30.0'W
Opr HO. **7C, 8F**

JINGTAI, CH **NDB** - HHW 475.000 PT N37°11.60' E104°04.10' Unk/2°12.0'W Opr HO.
VORW-DME - HA 114.900 JTA CH 96 N37°11.70' E104°04.80' 5353/2°12.0'W Opr HO.
7C, 8F

JINTANG, CH **VORW-DME** - HA 115.400 JTG CH 101 N30°52.30' E104°23.60'
1619/1°50.0'W Opr HO. **7C, 8F**

JIUTING, CH **VORW-DME** - HA 109.600 JTN CH 33 N31°07.50' E121°20.40' 358° 4.4 NM
to HONGQIAO INTL. 98/5°14.0'W **7D,8F**

KADALA, RS **UIAA** CIV N52°01.58' E113°18.33' 2272 UTC+9(+10DT) **6H**
RWY-11L7,20,50 (9430x184 CON PCN 49 R/A/W/T) L5,7,33,50 **RWY-29**
←9190

SERVICE - FUEL - (NC-TS1)

REMARKS - Opr 2200-1100Z++Mon-Fri, 2200Z++Sat-0300Z++Sun.

COMMUNICATIONS - **ATIS** - Opr HO. 126.4 **CHITA TWR** - **(R) (V)** 118.1

CHITA RADAR - **(R) (V)** 122.0 **CHITA VOLMET** - 128.3

NAVAIDS - **CHITA NDB** - HHW 518.000 DG N52°01.00' E113°22.70' 290° 2.8 NM to Fld.
Unk/7°48.4'W Opr HO. **CHITA NDB** - HHW 518.000 ZM N52°02.40' E113°11.20' 108°
4.5 NM to Fld. Unk/7°43.2'W Opr HO. **VHF/DF**

ILS/RADAR - ➔ **ILS** - BRG 289° LCZR IDG 110.3 GS 3.5° LOM DG 518 LMM D 553 Opr HO.

KAIYUAN, CH **VORW-DME** - HA 114.900 KYU CH 96 N42°38.00' E124°00.50'
324/8°54.0'W Opr HO. **NDB** - MHW 512.000 FB N42°34.00' E124°01.00' Unk/8°52.0'W
Opr HO. **7C, 8G**

KAKAYDY, UZ **NDB** - HW 205.000 GZ N37°34.40' E67°29.70' Unk/3°38.8'E Opr HO.
NDB - HW 205.000 TD N37°39.80' E67°32.40' Unk/3°40.4'E Opr HO. **5C**

KAKHOVKA, UP **NDB** - HHW 485.000 KH N46°48.49' E33°29.70' Unk/5°56.0'E **4I**

KALA, AJ **NDB** - HW 320.000 KL N40°21.30' E50°12.00' Unk/5°24.3'E Opr HO. **5A**

KALININGRAD ACC, RS **UMKK** (CIV) **(R) (V) CON** - **123.7 123.7 124.0X**
124.0X **1B ENAME H-2H-5E, L-2G**

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KALININGRAD, RS **NDB/LOM** - HHW 840.000 KR N54°54.60' E20°40.30' 246° 3.0 NM
to KHRABROVO. Unk/4°35.4'E **1B ENAME H-5E, L-2G**

KALINOVKA, KG **NDB** - HW 825.000 KL N42°42.00' E75°22.00' Unk/4°44.6'E Opr
HO. **5D, 7A**

KAMENKA, RS **NDB** - HHW 230.000 WZ N55°13.00' E37°00.00' Unk/9°17.1'E Opr HO.
2F, T-1E

KAMENSKOE, RS **NDB** - HHW 430.000 KM N62°25.00' E166°06.00' Unk/3°34.5'W
9C

KAMIANETS PODILSKYI, UP **NDB** - HW 732.000 KP N48°41.58' E26°36.30'
Unk/5°5.0'E **1C**

KAMYSHIN, RS **NDB** - HHW 387.000 KM N50°04.00' E45°25.00' Unk/8°43.0'E **3D, 5A**

KANT, KG **UAFW** MIL/CIV N42°51.19' E74°50.79' 2549 UTC+5(+6DT) **5D**
RWY-11 (8859x164 CON PCN 27 R/B/X/T) **RWY-29**

SERVICE - FUEL - (NC-TS-1)

COMMUNICATIONS - BISHKEK APP - (R) 124.6 **TWR** - 124.0

NAVAIDS - BISHKEK VORW-DME - HA 113.400 MNS CH 81 N43°04.10' E74°31.30' 127°
19.3 NM to Fld. 2051/(A)5°00.0'E **KANT NDB** - HW 568.000 PD N42°52.70' E74°46.70'
112° 3.4 NM to Fld. 2549/4°53.3'E

KARAGANDA, KZ **UAKK** CIV N49°40.25' E73°20.07' 1765 UTC+6 **6F**
RWY-05 L25,11,50 (10831x197 CON PCN 43 R/A/X/T) L25,11,50 **RWY-23**

SERVICE - FUEL - (NC-TS-1) **FLUID** - OX

REMARKS - RSTD - Acft. taxiing on Twy 3 with a wing span exceeding 131' (40m) is by tow
only.

COMMUNICATIONS - APP - 122.0 **TWR** - 118.3 **REMARKS:** (START)(GND)

NAVAIDS - KARAGANDA VORW-DME - HA 113.400 KRG CH 81 N49°41.17' E73°21.80'
222° 1.5 NM to Fld. 1748/(A)8°00.0'E **KARAGANDA NDB/LOM** - HW 299.000 RG
N49°38.67' E73°16.13' 050° 3.0 NM to Fld. 1765/8°15.9'E **KARAGANDA NDB/LOM** -
HW 299.000 KA N49°41.90' E73°24.22' 230° 3.2 NM to Fld. 1765/8°16.3'E

ILS/RADAR - ➔ **ILS** - BRG 050° LCZR IRG 109.9 GS 2.67° LOM RG 299 ➔ **ILS** - BRG 230° LCZR
IKA 111.7 GS 2.67° LOM KA 299 ■ **RADAR** Call App 122.0

KARAKHTAY, UZ **NDB** - HW 490.000 SW N40°55.00' E69°48.00' Unk/4°40.2'E **5C, 7A**

KARAKOL ACC, KG **UAFP** (R) **CON** - **133.8** 133.8 (Up to FL239) **VHF/DF** **5D, 7A**

KARAKOL, KG **NDB** - HW 912.000 KA N42°31.10' E78°21.50' Unk/4°14.6'E Opr
0100-1000Z++ sum Opr 0200-1100Z++ win. **5D, 7A**

KARGOPOL, RS **NDB** - HHW 705.000 KP N61°32.00' E38°58.00' Unk/12°48.2'E **2E, 6E**

KARMANOVO, RS **NDB** - HHW 745.000 BG N55°50.00' E34°52.00' Unk/8°58.2'E **2F**

KARTINO, RS **NDB** - HHW 1215.000 WT N55°35.00' E37°47.00' Unk/9°37.9'E
2F, H, T-1E

KASAN, UZ **NDB** - HW 365.000 YU N39°03.00' E65°35.02' Unk/4°17.9'E **5C**

KASHI, CH **ZWSH** CIV N39°32.58' E76°01.20' 4529 UTC+8 **5D, 7A**
RWY-08 L4,5,12,50 (10499x135 CON PCN 71 R/B/X/T) L4,5,11,50 **RWY-26**
SERVICE - FUEL - (NC-J)
REMARKS - Opr HS or O/R. **CSTMS/AG/IMG** - Avbl.
COMMUNICATIONS - TWR - Opr 0200-1400Z. 118.5 130.0
NAVAIDS - KASHI VORW-DME - HA 115.700 KHG CH 104 N39°32.80' E76°01.40' At Fld.
4564/3°32.0'E Opr HO.
ILS/RADAR - ➔ **ILS-DME** - BRG 262° LCZR ILL 111.1 CH 48 GS 3.0° Opr HO. ➔ **ILS-DME** -
BRG 082° LCZR IXX 109.9 CH 104 GS 3.0° Opr HO.

KAUKEY, KZ **VORW** - HA 113.600 QK N45°16.00' E61°46.00' Unk/(A)6°00.0'E O/S UFN.
NDB - HW 510.000 EY N45°16.00' E61°46.00' Unk/7°07.1'E O/S UFN. **5B, 6E**

KAUNAS INTL, LH **EYKA** CIV N54°57.84' E24°05.09' 256 UTC+2(+3DT) **IC**
RWY-08 L7,34 (10335x148 ASP PCN 50 F/B/X/T) L7,34 **RWY-26**
9219➔ ←9547
SERVICE - AOE FUEL - (NC-A1, AvGas) **FLUID** - De-Ice
REMARKS - Opr 0500-2000Z++, OT O/R fone C370 37 399 250, fax C370 37 399 345.
MISC - Ldg fees. Class C Airspace eff ATS hr, OT Class G.
COMMUNICATIONS - APP - (R) (V) 124.2 **TWR** - (V) 118.5 **HANDLING** - 121.6
NAVAIDS - KAUNAS VORW-DME - HA 114.400 KNA CH 91 N54°57.59' E24°03.92' At Fld.
256/(A)4°00.0'E **KAUNAS NDB/LMM** - HW 343.000 KUS N54°57.95' E24°07.32' 261°
1.3 NM to Fld. Unk/5°38.8'E Opr HO **VHF/DF**
ILS/RADAR - ILS-DME - 08, 26

KAZAN ACC, RS **UWKD** (CIV) (R) (V) **CON - Sctr N** - 133.6 123.7X **Sctr S** - 133.1
127.7X **RDO** - 4712 (5520 daylight) (3440 ngt) **2G, H, 6E**

KAZAN, RS **UWKD** CIV N55°36.37' E49°16.72' 411 UTC+3(+4DT) **2H, 6E**
RWY-11L L5,33,50 (12218x144 CON PCN 44 R/A/W/T) L5,33,50 **RWY-29R**
11381➔
RWY-11R L7 (8196x148 CON PCN 24 R/B/X/T) L7 **RWY-29L**
SERVICE - FUEL - (NC-TS1) **OIL** - O-MK8P
COMMUNICATIONS - ATIS - 126.8 **TWR** - Call START. (R) (V) 120.3 **TAXIING** - 121.7
RADAR - Svc as APP up to FL99. (R) (V) 119.4 129.0X 124.0X
NAVAIDS - KAZAN VORW-DME - HA 112.700 KZN CH 74 N55°36.30' E49°16.30' At Fld.
409/12°3.0'E **KAZAN NDB** - HW 475.000 AM N55°37.90' E49°12.50' 123° 2.8 NM to Fld.
Unk/12°5.0'E **KAZAN NDB** - HW 292.000 PS N55°38.10' E49°12.40' 125° 3.0 NM to Fld.
Unk/12°5.0'E **KAZAN NDB** - HW 475.000 BL N55°34.60' E49°21.40' 304° 3.2 NM to Fld.
Unk/12°5.0'E **KAZAN NDB** - MHW 292.000 DJ N55°34.70' E49°21.50' 290° 3.2 NM
to Fld. 407/12°03.5'E
ILS/RADAR - ➔ **ILS** - Rwy 11L BRG 112° LCZR IPS 108.5 GS 3.0° LOM PS 292. ➔ **ILS** - Rwy 29R
BRG 292° LCZR IDJ 111.7 GS 3.0° LOM DJ 292. ➔ **ILS** - Rwy 11R BRG 112° LCZR IAM 110.5
GS 2.7° LOM AM 475. ➔ **ILS** - Rwy 29L BRG 292° LCZR IBL 111.7 GS 2.7° LOM BL 475.

KEM, RS **NDB** - HHW 445.000 KM N64°56.80' E34°29.80' Unk/12°47.4'E **T-2G**

KEMEROVO ACC, RS **UNEE** (CIV) (R) **CON** - 129.3 128.5X **6F**

KEMEROVO, (KEMEROVO SOUTHEAST) RS **UNEE** CIV N55°16.21' E86°06.43' 863
UTC+7(+8DT) **6F**
RWY-05 L7,9,20,50 (10499x197 CON PCN 45 R/A/W/T) L5,9,39,50 **RWY-23**
RWY-05L (8655x155 ASP) **RWY-23R**
SERVICE - FUEL - (NC-TS-1)
COMMUNICATIONS - APP - Svc as KRUG. 125.5 128.5 **TWR** - Call START. Svc as
LANDING and TAXI. 118.3 129.0

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NAVAIDS - KEMEROVO NDB - HHW 489.000 NC N55°18.00' E86°10.80' 227° 3.1 NM
to Fld. Unk/7°31.2'E **VHF/DF**

ILS/RADAR - ➔ ILS - BRG 226° LCZR INC 109.1 GS 2.45° LOM NC 489.

KEMEROVO SOUTHEAST, RS See KEMEROVO

KEPERVEYEM ACC, RS UHMK (CIV) (R) CON - 132.6 132.6 Opr 2100-0600Z++
Mon-Fri. (PEVEK ACC for all hgt) **9C, D**

KERCH, UP DME - HA KER CH 110 N45°22.25' E36°24.31' 144/6°0.0'E **4I**

KHABAROVSK ACC, RS UHHH (CIV) (R) (V) CON - Sctr 2 - 124.5 Sctr 3 - 128.8
Sctr 4 - 128.3 Sctr 5 - (127.1 Opr 0100-0700Z++) (128.8 Opr 0700-0100Z++) RDO -
(10048 daylt) (2932 ngt) 5664. **8H, 9A**

KHABAROVSK, RS VORW-DME - HA 112.300 HAB CH 70 N48°32.67' E135°12.55'
232° 1.3 NM to NOVY. 243/11°40.0'W **NDB** - HW 528.000 BD N48°29.40' E135°08.00'
044° 3.2 NM to NOVY. Unk/11°39.0'W Opr 1300-2200Z++ **NDB** - HW 528.000 GE
N48°34.00' E135°14.20' 220° 3.0 NM to NOVY. Unk/11°40.0'W Opr 1300-2200Z++
NDB/LOM - HW 469.000 HI N48°34.10' E135°14.70' 223° 3.3 NM to NOVY.
Unk/11°40.0'W Opr 1300-2200Z++. **NDB/LOM** - HW 469.000 UF N48°29.30' E135°08.20'
041° 3.2 NM to NOVY. Unk/11°39.0'W Opr 1300-2200Z++. **VHF/DF 8H, 9A**

KHALAKTYRKA, RS NDB - HHW 685.000 HY N53°00.10' E158°47.50' Unk/6°12.1'W
Opr HO. **9B**

KHANLAR, AJ NDB - HW 1359.000 MO N40°37.00' E46°20.00' Unk/5°27.8'E **5A**

KHANTY MANSIYSK, RS USHH CIV N61°01.71' E69°05.16' 76 UTC+5(+6DT) 6F
RWY-06 L5,9,33,50 (9180x141 ASP PCN 38 F/B/X/T) **L5,9,33,50 RWY-24**

SERVICE - FUEL - (NC-TS-1)

REMARKS - CSTMS/IMG - H24

COMMUNICATIONS - ASR - Call KRUG 120.4 **TWR** - 118.1 **METEO** - 126.4

NAVAIDS - KHANTY MANSIYSK VORW-DME - HA 113.800 ZJ CH 85 N61°02.00'
E69°08.00' 243° 1.4 NM to Fld. 138/(A)15°00.0'E **KHANTY MANSIYSK NDB** - MHW
707.000 BD N61°01.00' E68°59.40' 059° 2.9 NM to Fld. Unk/17°03.1'E
KHANTY MANSIYSK NDB - MHW 707.000 ZJ N61°02.50' E69°11.20' 238° 3.0 NM to Fld.
Unk/17°03.0'E

ILS/RADAR - ➔ ILS - BRG 238° LCZR IZJ 110.1 GS 3.0° LOM ZJ 707. ➔ **ILS** - BRG 058° LCZR
IBD 111.9 GS 3.0° LOM BD 707. **■ RADAR** - ASR - Call KRUG 120.4. par par d

KHANTY-MANSIYSK ACC, RS USHH (CIV) (R) (V) CON - Sctr 1 - 129.4
129.4 **Sctr 2 - 135.6** 135.6 **6F**

KHARASAVEY, RS NDB - HHW 525.000 ZG N71°13.00' E66°54.50' Unk/27°57.0'E
Opr dur periods of flt. **6F**

KHARKIV ACC, UP UKHH (CIV) (R) (V) CON - Sctr NORTH 1 - 133.9 129.25, Sctr
NORTH 2 - 129.25, Sctr SOUTHEAST - 135.8, Sctr SOUTHWEST - 135.3 135.8. Sctr NORTH
1 joined to Sctr NORTH 2 129.25 1900-0600Z or by ATS decision, Sctr SOUTHWEST joined
to Sctr SOUTHEAST 135.8 1900-0600Z or by ATS decision. 1D, 3B, C, 4H, I

KHARKIV, UP See OSNOVA INTL

KHATANGA ACC, RS UOHH (CIV) (R) CON - 128.0 RDO - 4720 5550X. 6G

KHATANGA, RS **UOHH** CIV N71°58.68' E102°29.43' 95 UTC+7(+8DT)
6G ENAME **T-2G**
RWY-06 L5,20 (8872x158 CON PCN 16 R/A/X/T) L3,5,20 **RWY-24**
←8216

SERVICE - FUEL - (NC-TS1)
REMARKS - RSTD - First 492' of Rwy 06 unse for tkof of cat C, D acft. First 262' of Rwy 24 unuse for tkof. **MISC** - Afld for emerg ldg of flt opr along the cross-polar rte.
COMMUNICATIONS - TWR - 118.1 **KRUG** - Addn svc as **LANDING (R) (V)** 118.1 129.0X
METEO - 126.6
NAVAIDS - KHATANGA NDB - HW 332.000 ZT N71°59.40' E102°37.70' 254° 2.7 NM to Fld. Unk/5°19.0'E **KHATANGA NDB/LOM** - HW 332.000 OA N71°56.50' E102°18.40' 051° 4.1 NM to Fld. Unk/5°42.0'E
ILS/RADAR - ➡ ILS - BRG 056° LCZR IOA 110.3 GS 2.8° LOM OA 332.

KHODZHAKUMBET, TX See DASHOGUZ

KHOMUTOVO, (YUZHINO SAKHALINSK KHOMUTOVO) RS **UHSS** CIV
N46°53.32' E142°43.05' 59 UTC+10(+11DT) **9A**
RWY-01 L7,9,20 (11155x148 CON PCN 43 R/A/X/T) L7,9,20,50 **RWY-19**
←9075

SERVICE - LGT - PAPI Rwy 19 GS 3.3° **FUEL** - (NC-TS-1)
REMARKS - Opr 2100-1200Z+., **RWY** - Frm 20 Nov-20 Mar PCN 49-R-A-X-T.
COMMUNICATIONS - TWR - Call YUZHNO-SAKHALINSK START. 120.6 **RDR** - Call YUZHNO-SAKHALINSK KRUG. Also Svc as TAXIING. **(R)** 120.6
NAVAIDS - KHOMUTOVO NDB - HHW 505.000 PI N46°56.20' E142°43.00' 190° 2.9 NM to Fld. Unk/10°11.3'W Opr HO. **KHOMUTOVO NDB** - HHW 505.000 SL N46°50.00' E142°42.80' 013° 3.3 NM to Fld. Unk/10°09.4'W Opr HO. **VHF/DF**
ILS/RADAR - ➡ ILS - BRG 012° LCZR ISL 109.5 GS 2.4° LOM SL 505 Opr HO. **■ RADAR** - ASR - Call YUZHNO-SAKHALINSK KRUG 120.6

KHORINSK, RS **NDB** - HHW 320.000 GR N52°10.00' E109°47.00' Unk/6°01.5'W **6G**

KHOVD, (HOVD) MG **ZMKD** MIL/CIV N47°57.25' E91°37.69' 4898 UTC+8(+9DT) **7B**
(B) **RWY-16** (9352x160 ASP PCN 45 F/B/Y/U) L7,50,55 **RWY-34**
RWY-16L (6535x164 GRE) **RWY-34R**

REMARKS - Opr HO.
COMMUNICATIONS - KHAR US RDO - O/R 5715 ALT FREQ 2435 KHZ
KHAR US APP - O/R 130.0
NAVAIDS - KHOVD NDB - HW 450.000 JA N47°54.49' E91°39.32' 338° 3.0 NM to Fld. Unk/2°30.7'E Opr HO.

KHRABROVO, RS **UMKK** MIL/CIV N54°53.40' E20°35.56' 42 UTC+2(+3DT)
1B ENAME **H-2H-5E, L-2G**
RWY-06 L5,50 (8202x148 CON PCN 34 R/C/X/T) L5,33,50 **RWY-24**

SERVICE - FUEL - (NC-TS1)
REMARKS - Opr 0600-1900Z+.
COMMUNICATIONS - KALININGRAD TWR - Opr HO. **(V)** 129.425
KALININGRAD GND - Opr HO. 126.0 **KALININGRAD RADAR** - Opr HO. **(R) (V)** 126.0
KALININGRAD METEO - Opr HO. 122.05 **KALININGRAD TRANSIT** - Opr HO. 131.7
NAVAIDS - KALININGRAD NDB/LOM - HHW 840.000 KR N54°54.60' E20°40.30' 246° 3.0 NM to Fld. Unk/4°35.4'E
ILS/RADAR - ➡ ILS - BRG 243° LCZR IKR 109.5 GS 2.7° LOM KR 840. **■ RADAR** - PAR KALININGRAD RADAR 126.0 Opr HO.

KHUDZHAND, TI **UTDL** CIV N40°12.92' E69°41.68' 1450 UTC+5 **5C**
RWY-08 L7,20 (10450x164 ASP PCN 43 F/B/X/T) L7,20 **RWY-26**
9475→ ←9475

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SERVICE - FUEL - (NC-TS-1) **FLUID** - OX **OIL** - O-MK8

REMARKS - **RSTD** - Twy's 5 and 6 clsd.

COMMUNICATIONS - **APP** - 124.8 **TWR** - 120.3 **REMARKS**: (CS Start) **KRUG** - 120.3

REMARKS: (R) **METEO** - 127.2

NAVAIDS - **KHUDZHAND NDB** - HW 655.000 HD N40°12.50' E69°38.20' 081° 2.7 NM to Fld. Unk/4°24.9'E **KHUDZHAND NDB** - HW 655.000 HV N40°13.30' E69°45.50' 263° 2.9 NM to Fld. Unk/4°24.5'E **VHF/DF**

ILS/RADAR - ➔ **ILS** - BRG 258° LCZR IHV 109.9 GS 2.4° LOM HV 655 ■ **RADAR** - ASR - Call KRUG 120.3 PAR - Call TWR 120.3

KHUJIRT, MG **NDB** - HHW 390.000 HU N46°55.20' E102°45.60' Unk/2°10.6'W **7B**

KHURBA, RS **NDB** - HHW 440.000 DP N50°24.50' E136°56.00' Unk/12°09.1'W Opr HO
NDB - HHW 440.000 KA N50°24.52' E136°56.00' Unk/12°09.1'W **9A**

KIKERINO, RS **NDB** - HHW 535.000 KE N59°27.00' E29°38.00' Unk/8°38.5'E Opr HO.
2E

KIRENSK ACC, RS **UIKK** (CIV) (R) (V) **CON** - **Sctr 1** - 135.4 135.4 **Sctr 2** - 133.3 133.3 **RDO** - (3046 3425 ngt) (4728 6704 daylt) **6G**

KIRENSK, RS **NDB** - HHW 309.000 KI N57°46.40' E108°08.60' Unk/5°37.2'W **6G**

KIRISHI, RS **NDB** - HHW 885.000 KR N59°27.00' E32°03.00' Unk/9°29.2'E Opr HO. **2E**

KIROV ACC, RS **USKK** (CIV) (R) **CON** - **Sctr 190°-360°** - 125.2 125.2 **Sctr 0°-190°** - 132.2 132.2 **VHF/DF** **2G, H, 6E**

KIROV, RS **NDB** - HW 438.000 OR N58°30.00' E49°21.00' Unk/13°50.3'E Opr HO. **2H, 6E**

KISLOVODSK, RS **NDB** - HHW 995.000 KW N43°56.50' E42°39.00' Unk/6°14.7'E
4J, 5A

KIZLYAR, RS **NDB** - HHW 455.000 KZ N43°50.00' E46°43.00' Unk/6°27.8'E **5A**

KLIMOVSK, RS **NDB** - HHW 1005.000 LO N55°21.00' E37°32.00' Unk/9°28.3'E
2F, T-1E

KNEVICH, RS **UHHW** CIV N43°23.94' E132°08.88' 46 UTC+10(+11DT) **8H**
RWY-06 (3191x65 ASP) **RWY-24**
RWY-07LL7,9 (11483x197 CON PCN 52 R/B/X/T) L7,9,20,50 **RWY-25R**
RWY-07R (8202x197 ASP PCN 37 R/B/X/T) **RWY-25L**
RWY-16 (1975x65 ASP) **RWY-34**

SERVICE - FUEL - (NC-TS1)

REMARKS - Opr 2200-1200Z++, clsd 0400-0800Z++ Thu. **RSTD** - First 328' of Rwy 07L-25R unuse for tkof. Rwy 07R-25L is twy only.

COMMUNICATIONS - **VLADIVOSTOK ATIS** - 127.8 **START** - (V) 119.5 124.0X

TAXIING - 121.7 124.0X **KRUG** - (R) (V) 126.0 124.0X

VLADIVOSTOK VOLMET - (R) (V) 126.4 124.0X

NAVAIDS - **KNEVICH** **NDB** - HHW 400.000 QD N43°22.00' E132°04.10' 071° 4.0 NM to Fld. Unk/10°00.6'W **KNEVICH** **NDB** - HHW 400.000 KW N43°28.20' E132°19.40' 251° 8.8 NM to Fld. Unk/10°03.0'W **VHF/DF**

ILS/RADAR - ➔ **ILS** - BRG 250° LCZR IKW 109.7 GS 3.0° LOM KW 400. ■ **RADAR** - PAR - Call KRUG 126.0 or TWR 119.5.

KOBONA, RS **NDB** - HHW 420.000 KN N60°02.00' E31°33.00' Unk/9°31.9'E Opr HO.
2E

KOGALYM, RS **USRK** CIV N62°11.43' E74°32.03' 220 UTC+5(+6DT) **6F**
RWY-17 L5,36,50 (8225x138 CON PCN 25 R/A/X/T) L5,36,50 **RWY-35**

SERVICE - FUEL - (NC-TS1)

REMARKS - Opr 0200-1700Z+-. **RSTD** - First 368' of Rwy 17-35 unuse for tkof.

COMMUNICATIONS - ATIS - 123.4 **TWR** - Svc as START, TAXIING and KRUG. 119.4
TRANSIT - 131.5

NAVAIDS - KOGALYM NDB - HHW 490.000 OL N62°08.80' E74°31.10' 352° 2.7 NM to Fld.
Unk/17°04.9'E Opr 0200-1700Z+-. **KOGALYM NDB** - HHW 490.000 KG N62°14.80'
E74°33.30' 173° 3.4 NM to Fld. Unk/17°10.0'E Opr 0200-1700Z+-.
ILS/RADAR - ➔ **ILS**- BRG 173° LCZR IKG 108.5 GS 3.0° LOM KG 490. ➔ **ILS**- BRG 353° LCZR
IOL 109.5 GS 3.0° LOM OL 490.

KOKAND AUX ACC, UZ (R) **UTKR CON** - 132.1 132.1 **VHF/DF** **5C, D, 7A**

KOKSHETAU, KZ **NDB** - HHW 975.000 OT N53°19.00' E69°36.00' Unk/11°01.8'E
NDB - HW 975.000 KW N53°19.00' E69°36.00' Unk/11°01.8'E **6F**

KOLPASHEVO ACC, RS **UNLL** (CIV) (R) (V) **CON** - 128.0 128.0 **RDO** - 4712
6F

KOLPASHEVO, RS **NDB** - HHW 410.000 FB N58°22.20' E82°55.00' Unk/10°53.1'E **6F**

KOLTSOVO, (YEKATERINBURG KOLTSOVO) RS **USSS** CIV N56°44.59' E60°48.16' 764
UTC+5(+6DT) **6E**
RWY-08L (8192x140 ASP PCN 62 F/D/W/T) **RWY-26R**
RWY-08R L5,36,50 (9925x148 CON PCN 46 R/B/W/T) L5,33,50 **RWY-26L**
←8859

REMARKS - RWY - Rwy 08L/26R avbl for tkof and ldg day only.

COMMUNICATIONS - ATIS - 127.8 **APP - (R) (V)** 125.9 **TWR** - 120.0 **GND** - 119.0
ASR - Call KRUG. (R) 118.7 **GCA** - Call TWR. (R) (V) 120.0

NAVAIDS - KOLTSOVO NDB - HHW 786.000 EL N56°44.70' E60°43.10' 078° 2.8 NM to Fld.
Unk/13°55.5'E **KOLTSOVO NDB** - HHW 370.000 KQ N56°44.70' E60°43.10' 078° 2.8 NM
to Fld. Unk/13°55.5'E **KOLTSOVO NDB** - HHW 370.000 KU N56°44.70' E60°53.50' 254°
2.9 NM to Fld. Unk/13°55.8'E **KOLTSOVO NDB** - HHW 786.000 ED N56°44.20'
E60°54.60' 262° 3.6 NM to Fld. Unk/13°55.4'E **VHF/DF**

ILS/RADAR - ➔ **ILS** - BRG 262° LCZR IED 109.5 GS 2.5° LOM ED 786. ➔ **ILS** - BRG 082° LCZR
IEL 109.9 GS 2.4° LOM EL 786. ➔ **ILS** - BRG 258° LCZR IKU 110.5 GS 3.0° LOM KU 370. ■
RADAR - Call KRUG 118.7 **GCA** - Call TWR 120.0.

KOLYVAN, RS **NDB** - HHW 660.000 GV N55°19.00' E82°43.00' Unk/8°59.6'E **6F**

KOMINTERN, KZ **NDB** - HW 820.000 VQ N41°23.00' E68°48.00' Unk/4°56.4'E **5C**

KOMSOMOLSK-NA-AMURE ACC, RS **UHKK** (R) **KHABAROVSK CON** -
120.9 120.9 **9A**

KONSTANTINOVSK, RS **NDB** - HHW 1100.000 KA N47°37.00' E41°07.00'
Unk/7°14.4'E **3C**

KOPITNARI, GG **UGKO** CIV N42°10.60' E42°28.95' (38TKM9208472458) 223
UTC+3(+4DT) **5A**
RWY-08 L7,34 (8202x144 CON PCN 26 R/C/Y/T) L7,34 **RWY-26**

SERVICE - LGT - Rwy lgt may be inop. **FUEL** - (NC-TS1) **FLUID** - OX **OIL** - MK-8P

REMARKS - Opr 0400-1600Z++ OT PPR 12 Hr before Dep.

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AIRPORT/FACILITY DIRECTORY B-38

COMMUNICATIONS - KUTAI SI TWR - 0400-1600Z++ 125.5

NAVAIDS - KUTAI SI VORW-DME - HA 113.600 KTS CH 83 N42°10.41' E42°27.36' 075°
1.2 NM to Fld. 200/(A)5°00.0'E **KUTAI SI NDB** - MHW 477.000 TIG N42°10.40' E42°27.28'
075° 1.3 NM to Fld. Unk/5°44.4'E Opr O/R **KUTAI SI NDB** - MHW 842.000 UY N42°11.07'
E42°32.64' 255° 2.8 NM to Fld. Unk/5°44.9'E Opr O/R

KOSHANY, UP **NDB** - HHW 490.000 KO N50°56.79' E30°58.59' Unk/6°29.0'E
1D,3A, T-1F

KOSHKI, RS **NDB** - HHW 915.000 UF N54°13.00' E50°28.00' Unk/11°26.3'E **2H, 6E**

KOSTANAY ACC, KZ **UAUU CON** - (R) **135.1** 135.1 **RDO** - 4728 **VHF/DF 6E**

KOSTANAY, (NARIMANOVKA) KZ **UAUU CIV** N53°12.42' E63°33.02' 595 UTC+6 **6E**
RWY-15L720 (8150x157 ASP PCN 26 R/B/X/T) **L720 RWY-33**

SERVICE - FUEL - (NC-TS-1, B91/115) **FLUID** - OX **OIL** - O-MK8 MS20

COMMUNICATIONS - TWR - 129.3

NAVAIDS - KOSTANAY NDB - HW 512.000 KT N53°15.00' E63°31.17' 145° 2.8 NM to Fld.
594/11°29.7'E **KOSTANAY NDB** - HW 512.000 NA N53°09.74' E63°34.96' 325° 2.9 NM
to Fld. 594/11°26.2'E Opr HO

ILS/RADAR - ➔ **ILS** - BRG 326° LCZR INA 110.7 GS 2.67° LOM NA 512 ➔ **ILS** - BRG 146°
LCZR IKT 111.7 GS 2.67° LOM KT 512

KOSTINO, RS **NDB** - HHW 642.000 KN N56°18.00' E37°43.00' Unk/9°55.2'E **2F, H, T-1E**

KOLTAS ACC, RS **ULKK (CIV)** (R) **CON -135.2** abv FL285 (or blw FL285
1730-0330Z++). 133.4 blw FL285 0330-1730Z++. **RDO** - 4672 (5586 daylgt)(3440 ngt).
VHF/DF 2G,6E

KOTLAS, RS **VORW-DME** - HA 117.800 KTL CH 125 N61°14.50' E46°42.80'
180/(A)13°00.0'E **6E**

KOTLY, RS **NDB** - HHW 635.000 KO N59°36.80' E28°46.40' Unk/8°23.2'E Opr HO **2F**

KOVIAHY, UP **NDB** - HHW 735.000 KW N49°54.99' E35°32.60' Unk/7°7.0'E **3B**

KOZHEVNIKOVO, RS **NDB** - HHW 482.000 NN N56°14.00' E83°58.00'
Unk/9°01.8'E **6F**

KRABOR, UP **NDB** - HHW 600.000 KR N50°36.39' E29°16.69' Unk/6°2.0'E **1C, 3A, T-1F**

KRASITSKY, RS **NDB** - HHW 457.000 PS N47°38.00' E134°53.00' Unk/11°23.4'W
8H, 9A

KRASNAYA GORBATKA, RS **NDB** - HHW 485.000 CW N55°52.00' E41°46.00'
Unk/10°43.3'E **2G, 6E**

KRASNOARMEYSK, RS **NDB** - HHW 932.000 KR N51°02.60' E45°38.90'
Unk/9°10.5'E Opr HO. **3D, 5A**

KRASNODAR, RS **NDB** - HW 750.000 BA N45°03.80' E39°12.10' 218° 2.2 NM
to PASHKOVSKIY. Unk/6°14.0'E **NDB** - HW 493.000 KR N45°00.30' E39°08.00' 042°
2.4 NM to PASHKOVSKIY. Unk/6°13.0'E **NDB** - HW 493.000 LD N45°03.90' E39°14.80'
241° 3.7 NM to PASHKOVSKIY. Unk/6°14.0'E **NDB** - HW 750.000 WP N45°00.50'
E39°06.20' 061° 3.3 NM to PASHKOVSKIY. Unk/6°13.0'E **4J**

KRASNODAR, RS See PASHKOVSKIY

KRASNOHRAD, UP **NDB** - HHW 778.000 GR N49°23.29' E35°26.80' Unk/6°57.0'E
3B

KRASNOYARSK ACC, RS **UNKL** (CIV) (R) (V) **CON** - **Sctr 065°-180°** - 132.9 **Sctr**
180°-297° - 133.3 **Sctr 297°-065°** - 132.1 **Sctr S** - 133.1 **RDO** - (6704 daylight) (3046 ngt)
6F, G

KRASNOYARSK, RS **VORW-DME** - HA 113.200 KRS CH 79 N56°10.20' E92°30.50'
At YEMELYANOVO. 965/(A)4°00.0'E **6G**

KRASNY, RS **NDB** - HHW 1025.000 KS N47°12.00' E40°21.00' Unk/7°00.4'E **3C, 4J**

KRASNY SULIN, RS **NDB** - HHW 486.000 KL N47°53.00' E40°06.00' Unk/7°11.7'E
3C

KRASNYI LUCH, UP **NDB** - HHW 1155.000 LS N48°10.89' E38°56.30' Unk/7°8.0'E
3C

KRYVYI RIH, UP **DME** - L KVR CH 107 N48°03.05' E33°12.70' At LOZUVATKA INTL.
397/6°11.0'E **1D, 3B**

KRYVYI RIH, UP See LOZUVATKA INTL

KUKAN, RS **NDB** - HHW 942.000 FE N49°13.00' E133°27.00' Unk/11°56.1'W Opr
2130-0930Z++. **8H, 9A**

KUKUSHTAN, RS **NDB** - HHW 672.000 KT N57°39.10' E56°30.60' Unk/14°19.5'E **6E**

KULYAB, TI **UT-/UTDK** CIV N37°59.01' E69°48.01' (42SWH7026404277) 2293 UTC+5
5D
RWY-01 L7,36,50 (9843x137 ASP PCN 35 F/B/X/T) **RWY-19**
SERVICE - **FUEL** - (NC-TS1) **OIL** - 0-MK8P
REMARKS - Opr HO.
COMMUNICATIONS - **TWR** - 118.5
NAVAIDS - **KULYAB NDB** - HW 298.000 CG N37°56.01' E69°47.01' 011° 3.1 NM to Fld.
Unk/3°35.7'E Opr HO
ILS/RADAR - **→ILS** - BRG 013° LCZR ICG 108.1 GS 3.02° LOM CG 298 Opr HO.

KUNMING ACC, CH **ZPKM** (CIV) **CON** - (AREA 1- blw 29,500 125.75 127.5)
(AREA 2- blw 29,500 124.55 125.35) (AREA 3- abv 29,500 132.85 125.35) 6556 (10066
0001-1200Z) (3491 1201-2400Z) **7A, B, C, 8E, F**

KUNMING, CH **VORW-DME** - HA 112.900 KMG CH 76 N25°01.00' E102°44.00' 159°
1.6 NM to WUJIABA. 6421/1°12.0'W Opr HO. **NDB** - MHW 225.000 LR N24°52.25'
E102°39.59' 032° 8.6 NM to WUJIABA. 6781/1°12.0'W Opr HO. **8E**

KUQA, CH **VORW-DME** - HA 114.500 KCA CH 92 N41°43.00' E83°00.00' 325/3°12.0'E
Opr HO. **7A**

KURDAYSKY, KZ **NDB** - HW 925.000 KD N43°18.00' E74°57.00' Unk/5°02.1'E Opr
1700-1900Z++. **5D, 7A**

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KURGAN ACC, RS **USUU** (CIV) (R) **CON** - 134.3 134.3 **RDO** - 3588 ngt 4840
daylt. **6E, F**

KURSK, (VOSTOCHNY) RS **UUOK** CIV N51°45.04' E36°17.74' 686 UTC+3(+4DT) **3B**
RWY-12L7,20 (8202x131 CON PCN 22 R/A/X/T) **L7 RWY-30**

SERVICE - FUEL - Avbl 0600-1500Z++ Mon-Fri (NC-TS1). **FLUID** - De-ice avbl
0600-1500Z++ Mon-Fri.

REMARKS - Opr 0400-0700Z++, 1500-1900Z++ for cat B, C, D acft and 0400-1500Z++ for
cat A acft and copter Mon-Fri. OT acft arr by prior coord. **RSTD** - First 394' of Rwy 12-30
unuse for tkof.

COMMUNICATIONS - KRUG - Opr HO (R) (V) 131.5 **START** - Opr HO 131.5
TAXIING - Opr HO 120.6 **METRO** - Opr HO 127.8

NAVAIDS - KURSK NDB - HHW 742.000 GE N51°46.60' E36°14.00' 116° 2.8 NM to Fld.
Unk/7°50.0'E Opr HO. **KURSK NDB** - HHW 742.000 WA N51°43.50' E36°21.50' 296°
2.8 NM to Fld. Unk/7°50.5'E Opr HO.

KURUMOCH, RS **UWWW** CIV N53°30.29' E50°09.86' 477 UTC+4(+5DT) **2H, 6E**
RWY-05L7 (8360x197 ASP PCN 30 R/B/X/T) **L7,33,50 RWY-23**
RWY-15L7,33,50 (9846x148 CON PCN 36 R/B/W/T) **L7,33 RWY-33**

SERVICE - FUEL - (NC-TS1) **OIL** - O-MK8P

COMMUNICATIONS - SAMARA ATIS - 134.9 **SAMARA APP** - (APP 1 crdr 1,4-7 Opr H24,
crdr 2,3 2000-0200Z++)(APP 2 crdr 2,3 0200-2000Z++) (R) (V) 124.6 118.7 128.7X 163.9X
(124.6 APP 1 crdr 1-7)(118.7 APP 2 crdr 2, 3) **SAMARA TWR** - Call START. (R) (V) 118.2
128.7X **SAMARA TAXIING** - 119.0 128.7X **SAMARA KRUG** - (R) (V) 128.0 128.7X
SAMARA VOLMET - 126.875 **SAMARA TRANSIT** - 131.6

NAVAIDS - SAMARA NDB/LOM - HW 287.000 FK N53°31.60' E50°13.30' 238° 2.4 NM
to Fld. Unk/11°1.0'E **SAMARA NDB/LOM** - HW 287.000 AZ N53°27.70' E50°12.30' 331°
3.0 NM to Fld. Unk/11°0.0'E **SAMARA NDB/LOM** - HW 287.000 WG N53°33.20'
E50°08.90' 169° 3.0 NM to Fld. Unk/11°1.0'E **SAMARA NDB** - HW 287.000 BE
N53°28.80' E50°04.70' 064° 3.4 NM to Fld. Unk/11°0.0'E

ILS/RADAR - ➔ **ILS** - BRG 150° LCZR IWG 111.9 GS 2.7° LOM WG 287. ➔ **ILS** - BRG 231°
LCZR IFK 109.7 GS 2.7° LOM FK 287. ➔ **ILS** - BRG 330° LCZR IAZ 111.1 GS 2.7° LOM AZ
287. ■ **RADAR** - PAR - Call SAMARA TWR 118.2.

KUTAIISI, GG **VORW-DME** - HA 113.600 KTS CH 83 N42°10.41' E42°27.36' 075° 1.2 NM
to KOPITNARI. 200'(A)5°00.0'E **NDB** - MHW 477.000 TIG N42°10.40' E42°27.28' 075°
1.3 NM to KOPITNARI. Unk/5°44.4'E Opr O/R **NDB** - MHW 842.000 UY N42°11.07'
E42°32.64' 255° 2.8 NM to KOPITNARI. Unk/5°44.9'E Opr O/R **5A**

KYIV ACC, UP **UKBV** (CIV) (R) (V) **CON** - Sctr CTR - 136.4 132.45, Sctr LIV - 132.45, Sctr
MOW - 132.375, Sctr NTH - 135.15 132.375, Sctr ODS - 135.45, Sctr STH - 133.05 135.45.
Sctr CEN joined to Sctr LIV 132.45 1900-0600Z or by ATS decision, Sctr NTH joined to Sctr
MOW 132.375 1900-0600Z or by ATS decision, Sctr SOU joined to Sctr ODS 135.45
1900-0600Z or by ATS decision. **1C, D, 3A, B, 4H, I, T-1F (KYIV)**

KYIV, UP See BORYSPIL INTL

KYIV ZHULIANY, UP See ZHULIANY INTL

KYZYL ACC, RS **UNKY** (CIV) (R) **CON** - 125.3 **6F,G, 7B**

KYZYL, RS **VORW-DME** - HA 112.300 KZL CH 70 N51°35.40' E94°12.40' 2142'(A)1°00.0'E
NDB - HHW 490.000 PS N51°42.00' E94°27.70' Unk/2°11.2'E Opr HO. **NDB** - HHW
490.000 UY N51°39.40' E94°22.40' Unk/2°13.2'E Opr HO. **6G**

KYZYLORDA ACC, KZ **UAOO CON** - (R) (V) - 127.3 127.3 **135.9** 135.9 **RDO** -
(4669 ngt) (8951 daylt) **VHF/DF 5B, C, 6E, 7A**

KYZYLORDA, KZ **VORW-DME** - HA 112.700 KZO CH 74 N44°42.40' E65°36.00'
213/(A)5°00.0'E **NDB** - HW 486.000 KZ N44°42.10' E65°36.00' Unk/6°37.8'E **NDB** - HW
486.000 OR N44°42.08' E65°36.00' Unk/6°37.8'E **5C**

LADOZHSKAYA, RS **NDB** - HHW 324.000 RF N45°17.00' E39°55.00' Unk/6°22.9'E
Opr 0500-1900Z++ exc Sun and Hol. **4J**

LAIBIN, CH **VORW-DME** - HA 113.700 LBN CH 84 N23°44.60' E109°12.70' 361/1°51.0'W
Opr HO. **NDB** - HW 393.000 KC N23°44.60' E109°12.90' 361/1°51.0'W Opr HO.
LBN VOR unusable 145°-185° -
KC NDB unusable 221° byd 39 NM blw 9800'
8E

LAISHAN, (YANTAI) CH **ZSYT** CIV N37°24.10' E121°22.30' 59 UTC+8 **8G**
(B) **RWY-04** L4,5,11,50 (8530x148 CON PCN 52 R/B/W/T) L4,5,20 **RWY-22**

SERVICE - FUEL - (NC-J)

REMARKS - Opr HS or O/R. **RSTD** - SSR transponder rqr for tkof and ldg. **CAUTION** - Wx
balloon release 0001-0100Z dly fr arpt ARP. **CSTMS/AG/IMG** - Avbl.

COMMUNICATIONS - YANTAI TWR - Opr H24. 118.45 118.1

NAVAIDS - YANTAI VORW-DME - HA 112.500 YNT CH 72 N37°23.20' E121°21.40' 039°
1.1 NM to Fld. 51/6°53.0'W Opr HO. **TUNLI NDB** - HHW 247.000 FZ N37°27.10'
E121°10.70' 108° 9.7 NM to Fld. Unk/6°52.0'W

ILS/RADAR - ➔ **ILS-DME** - BRG 044° LCZR IFZ 111.7 CH 82 GS 3.0° Opr HO. ➔ **ILS-DME** -
BRG 224° LCZR IJN 110.9 CH 82 LOM JN 275 GS 3° Opr HO.

LANZHOU ACC, CH **ZLHW** (CIV) **CON** - (**132.8** 132.8 **120.75** 120.75 Opr HO)
6571 (8897 0001-1200Z) (3016 1201-2400Z) **7B-C, 8F**

LANZHOU, CH **VORW-DME** - HA 114.300 ZGC CH 90 N36°30.90' E103°37.50'
At ZHONGCHUAN. 6388/2°2.0'W Opr HO. **7B, 8F**

LAOLIANGCANG, CH **VORW-DME** - HA 116.200 LLC CH 109 N28°04.10'
E112°12.70' 472/2°56.0'W Opr HO. **NDB** - HW 245.000 GJ N28°05.00' E112°13.00'
Unk/2°57.0'W Opr HO. **7C, 8F**

LARIONOVO, RS **NDB** - HHW 478.000 MF N56°02.00' E39°38.00' Unk/10°17.4'E **2F**

LARYAK, RS **NDB** - HHW 940.000 ZZ N61°07.00' E80°14.00' Unk/14°12.5'E **6F**

LAVRENTIYA, RS **NDB** - HHW 445.000 LA N65°35.00' W171°00.80' Unk/10°33.4'E Opr
HO. **9D**

LAZAREVSKOYE, RS **NDB** - HHW 307.000 LA N43°55.00' E39°20.00' Unk/5°57.2'E
4J

LEGOSTAYEVO, RS **NDB** - HHW 320.000 OC N54°38.00' E83°49.00' Unk/8°10.2'E
6F

LENSK, RS **NDB** - HHW 678.000 IG N60°44.40' E114°53.80' Unk/10°20.0'W **6G**

LESHUKONSKOYE ACC, RS **ULAL** (CIV) (R) **CON** - **131.2** **134.3** 131.2 Up to
FL226. Opr 0500-1900Z++, OT Arkhangelsk ctl (ARKHANGELSK ACC). **6E**

LESHUKONSKOYE, RS **NDB** - HHW 678.000 WJ N64°54.02' E45°45.02'
Unk/17°08.4'E **NDB** - HW 678.000 VC N64°54.00' E45°45.00' Unk/17°08.4'E Opr HO **6E**

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LHASA, CH **VORW-DME** - HA 113.100 LXA CH 78 N29°18.10' E91°00.10' 11724/0°4.0'W
HO
LXA VOD-DME unuse 170°-210° byd 20 NM blw 27,500' 069° byd 6NM blw
27,500 -
7B

LHASA ACC, CH **ZP CAAC BAIHUA CON** - **122.2** 122.2 **125.35** 125.35 Opr HO.
(10066 Opr 0001-1200Z) (3491 Opr 1201-2400Z) 6556 **7A, B**

LIANGCHENG, CH **NDB** - MHW 282.000 SZ N40°31.50' E112°29.50' Unk/5°12.0'W
Opr HO. **7C, 8G**

LIANGJIANG, (GUILIN) CH **ZGKL CIV** N25°13.09' E110°02.35' 570 UTC+8 **7C, 8E**
RWY-01 L4,5,11,50 (9186x147 CON PCN 86 R/B/X/T) L4,5,11,50 **RWY-19**
SERVICE - FUEL - (NC-J)
REMARKS - Opr HS or O/R. **CSTMS/AG/IMG** - Avbl.
COMMUNICATIONS - **ATIS** - Opr HO. 126.45 **TWR** - Opr HO. 118.0 130.0
GND - Opr HO. 121.65
NAVAIDS - **GUILIN VORW-DME** - HA 114.900 KWL CH 96 N25°12.60' E110°02.30' At Fld.
570/2°9.0'W Opr HO.
ILS/RADAR - ➔ **ILS-DME** - BRG 007° LCZR IJJ 110.1 CH 38 GS 3.0° Opr HO. ➔ **ILS-DME** -
BRG 187° LCZR IPA 108.5 CH 22 GS 3° Opr HO.

LIANGXIANG, CH **NDB** - HW 475.000 JR N39°43.40' E116°05.90' 170/6°10.0'W Opr
HO. **7D,G,8G**

LIANJIANG, CH **VORW-DME** - HA 117.600 LJG CH 123 N26°13.20' E119°32.80' 160°
18.2 NM to CHANGLE. 151/3°46.0'W Opr HO. **8F**

LIANSHENGWEI, CH **VORW-DME** - HA 116.700 ZUH CH 114 N22°13.30'
E113°28.00' 21/2°10.0'W Opr HO. **NDB** - HW 322.000 MA N22°13.40' E113°28.00'
21/2°10.0'W Opr HO. **8E**

LIJIA, CH **NDB** - HW 210.000 RP N28°37.30' E115°42.50' 035° 17.7 NM to CHANGBEI INTL.
200/3°42.0'W **7C,8F**

LILING, CH **VORW-DME** - HA 112.400 LIG CH 71 N27°37.60' E113°31.60' 279/3°6.0'W
Opr HO. O/S til 31 Dec 05. **NDB** - HW 361.000 LZ N27°38.00' E113°32.00' Unk/3°6.0'W
Opr HO. **7C, 8F**

LINLI, CH **NDB** - HW 365.000 FM N29°21.00' E111°38.00' Unk/3°4.0'W Opr HO. **7C, 8E**

LISHE, (NINGBO) CH **ZSNB CIV** N29°49.50' E121°27.90' 13 UTC+8 **7D, 8F**
RWY-13 L4,5,9,12 (10499x148 CON PCN 66 R/B/W/T) L4,5,9,12,50 **RWY-31**
10007→
SERVICE - FUEL - (NC-J)
REMARKS - Opr HS or O/R. **CAUTION** - WIP. **CSTMS/AG/IMG** - Avbl.
COMMUNICATIONS - **NINGBO TWR** - 118.35 130.0
NAVAIDS - **NINGBO VORW-DME** - HA 116.300 NGB CH 110 N29°49.60' E121°27.60'
At Fld. 49/4°53.0'W Opr HO. **NINGBO NDB** - HW 227.000 BK N29°53.70' E121°19.90'
121° 8.1 NM to Fld. Unk/4°54.0'W Opr HO.
ILS/RADAR - ➔ **ILS-DME** - BRG 128° LCZR IBK 108.9 CH 110 GS 3.0° Opr HO. Unsvc byd 22°
right of CL.

LISHUI, CH **NDB** - HW 297.000 GS N31°38.20' E119°02.60' 304° 11.2 NM to LUKOU.
Unk/4°57.0'W Opr HO. **7D, 8F**

LIUBYMIVKA, UP **NDB** - HHW 670.000 LB N45°37.49' E34°53.81' Unk/5°52.0'E **4I**

LIUTING, (QINGDAO) CH **ZSQD** CIV N36°15.97' E120°22.47' 33 UTC+8 **7C, 8G**
RWY-17 L2,4,5,11,50 (11155x148 CON PCN 52 R/B/W/T) L2,4,5,11,50 **RWY-35**
SERVICE - FUEL - (NC-J)
REMARKS - Opr HS or O/R. **CSTMS/AG/IMG** - Avbl.
COMMUNICATIONS - ATIS - Opr HO. 127.2 **QINGDAO TWR** - Opr H24. 118.7 124.3
QINGDAO GND - Opr HO. 121.65
NAVAIDS - QINGDAO VORW-DME - HA 117.500 TAO CH 122 N36°17.10' E120°22.20'
169° 1.2 NM to Fld. 60/6°22.0'W Opr HO. **XUEJIADAO VORW-DME** - HA 117.000 XJT
CH 117 N35°57.70' E120°14.40' 020° 19.4 NM to Fld. 70/6°17.0'W
ILS/RADAR - ➔**ILS-DME** - BRG 171° LCZR INX 110.7 CH 44 GS 3° Opr HO. ➔**ILS-DME** - BRG
351° LCZR IPP 111.7 CH 122 GS 3° Opr HO.

LIYUANTUN, CH **NDB** - MHW 285.000 BS N34°25.00' E114°13.10' Unk/4°33.0'W Opr
HO. **7C, 8F**

LOCHINI, GG See TBILISI

LONGCHANG, CH **VORW-DME** - HA 117.600 LCH CH 123 N40°51.70' E123°08.00'
213/8°12.0'W **8G**

LONGDONGBAO, (GUIYANG) CH **ZUGY** N26°32.31' E106°48.04' 3736 UTC+8
7C, 8E
RWY-01 L2,4,5,12,50 (10500x197 CON PCN 71 R/B/W/T) L2,4,5,12,50 **RWY-19**
COMMUNICATIONS - GUIYANG APP - 126.05 119.45 **GUIYANG TWR** - 118.3 130.0
NAVAIDS - GUIYANG VORW-DME - HA 114.300 KWE CH 90 N26°31.20' E106°47.70' 016°
1.1 NM to Fld. 3812/1°49.0'W Opr HO. **LONGLI NDB-DME** - HW 311.000 JK CH 92
N26°27.50' E106°58.80' 298° 10.8 NM to Fld. 3812/1°51.0'W

LONGJIA, (CHANGCHUN LONGJIABAO) CH **ZYCC** CIV N43°59.77' E125°41.12' 706
UTC+8 **8H**
RWY-06 L4,5,12,50 (10500x148 CON PCN 96 R/B/W/T) L4,5,12,50 **RWY-24**
COMMUNICATIONS - ATIS - Opr HO 126.25 **CHANGCHUN APP** - Opr HO 119.6
125.25 **TWR** - Opr HO 118.45 118.85
NAVAIDS - WANCHANG VORW-DME - HA 115.900 LJB CH 106 N43°46.40' E125°51.10'
341° 15.2 NM to Fld. 653/9°34.0'W Opr H24

LONGKOU, CH **VORW-DME** - HA 115.800 LKO CH 105 N29°55.00' E113°41.80'
103/3°33.0'W Opr HO. **NDB** - HW 395.000 KG N29°57.00' E113°46.00' Unk/3°34.0'W
Opr HO. **7C,D, 8E**

LONGLI, CH **NDB-DME** - HW 311.000 JK CH 92 N26°27.50' E106°58.80' 298° 10.8 NM
to LONGDONGBAO. 3812/1°51.0'W **7C, 8E**

LONGMEN, CH **NDB** - HW 275.000 UF N23°38.80' E114°19.80' Unk/2°31.0'W Opr
HO. **VORW-DME** - HA 116.300 LMN CH 110 N23°39.00' E114°19.60' 128/2°31.0'W Opr
HO. **7C-D, 8E**

LONGZHOU, CH **NDB** - MHW 238.000 NL N22°22.00' E106°52.00' Unk/1°24.0'W Opr
HO. O/S til 31Dec 04. **8E**

LOZUVATKA INTL, (KRYVYI RIH) UP **UKDR** CIV N48°02.60' E33°12.60' 408
UTC+2(+3DT) **1D, 3B**
RWY-18 L7,12 (8202x138 CON PCN 32 R/B/W/U) L7,12 **RWY-36**
SERVICE - FUEL - (NC A1) **FLUID** - De-ice

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REMARKS - CSTMS/IMG - avbl H24

COMMUNICATIONS - KRYVYI RIH TWR - 120.3 **KRYVYI RIH METEO** - 125.875

NAVAIDS - KRYVYI RIH DME - L KVR CH 107 N48°03.05' E33°12.70' At Fld. 397/6°11.0'E

ILS/RADAR - ➔ **ILS** - BRG 181° LCZR IRG 110.1 GS 3.0° LOM RG 340 LMM G 697. ➔ **ILS** - BRG 001° LCZR IRO 108.3 GS 3.0° LOM RO 340 LMM O 697.

LUANXIAN, CH **VORW-DME** - HA 117.100 LUX CH 118 N39°44.30' E118°43.70' 134/6°53.0'W Opr HO. **7C, 8G**

LUHANSK INTL, UP **UKCW** CIV N48°25.04' E39°22.45' 636 UTC+2(+3DT) **3C**
RWY-09 L5,33 (9450x140 PEM PCN 19 R/B/X/T) L5,11 **RWY-27**

SERVICE - FUEL - (NC-A1)

REMARKS - CSTMS/IMG - IMG avbl **MISC** - Fone C+380 642 58 15 36, email lugairport@ltk.com.ua

COMMUNICATIONS - APP - 132.0 **TWR** - 120.6 **METEO** - 124.8

ILS/RADAR - ➔ **ILS** - BRG 094° LCZR ILU 108.3 GS 3° LOM LU 1255 LMM U 617. ➔ **ILS** - BRG 274° LCZR ILG 109.5 GS 3° LOM LG 1255 LMM G 617.

LUKOU, (NANJING) CH **ZSNJ** CIV N31°44.52' E118°51.72' 49 UTC+8 **8F**
RWY-06 L2,3,4,5,10,50 (11811x148 CON PCN 82 R/B/W/T) L4,5,11,50 **RWY-24**

SERVICE - FUEL - (NC-J)

REMARKS - Opr HS and O/R. **CSTMS/AG/IMG** - Avbl.

COMMUNICATIONS - ATIS - 126.25 **NANJING APP** - 119.25 120.35

NANJING TWR - 118.85 118.15 **NANJING GND** - 121.7

NAVAIDS - NANJING VORW-DME - HA 112.000 NSE CH 57 N31°44.70' E118°51.80'

At Fld. 49/4°57.0'W Opr HO. **XIAODANYANG NDB** - HW 440.000 ID N31°40.00'

E118°42.90' 059° 8.8 NM to Fld. Unk/4°55.0'W Opr HO. **QUNLI NDB** - HW 276.000 GT

N31°47.00' E119°03.10' 256° 10.0 NM to Fld. 100/5°0.0'W Opr HO **LISHUI NDB** - HW

297.000 GS N31°38.20' E119°02.60' 304° 11.2 NM to Fld. Unk/4°57.0'W Opr HO.

ILS/RADAR - ➔ **ILS-DME** - BRG 062° LCZR IMI 110.3 CH 57 GS 3.0° Opr HO. ➔ **ILS-DME** - BRG 242° LCZR IGG 110.9 CH 57 GS 3.0° Opr HO.

LUNINO, RS **NDB** - HHW 523.000 BK N53°34.00' E45°12.00' Unk/10°17.4'E **2G, 6E**

LUOGANG, (HEFEI) CH **ZSOF** CIV N31°46.80' E117°17.91' 108 UTC+8 **7C, 8F**
RWY-14 L2,5,11,50 (9843x164 CON PCN 50 R/B/W/T) L5,11,50 **RWY-32**

SERVICE - FUEL - (NC-J)

REMARKS - Opr HS or O/R. **RSTD** - SSR transponder rqr for tkof and ldg. **CAUTION** - Bird haz. **CSTMS/AG/IMG** - Avbl.

COMMUNICATIONS - ATIS - 128.85 **HEFEI TWR** - Opr H24. 118.75 118.1

NAVAIDS - HEFEI VORW-DME - HA 116.700 HFE CH 114 N31°46.80' E117°18.10' At Fld.

124/4°40.0'W Opr HO. **LUOGANG NDB** - MHW 232.000 SB N31°50.40' E117°14.00'

137° 4.9 NM to Fld. Unk/4°40.0'W Opr HO.

ILS/RADAR - ➔ **ILS-DME** - BRG 139° LCZR ISB 109.1 CH 114 GS 3° LOM SB 232 Opr HO. ➔ **ILS-DME** - BRG 319° LCZR IGV 108.3 CH 114 GS 3° LOM GV 260 Opr HO.

LUXI, CH **VORW-DME** - HA 112.300 LXI CH 70 N24°32.30' E103°44.60' 5592/1°17.0'W Opr HO. **NDB** - HW 387.000 ZN N24°31.00' E103°45.00' Unk/1°16.0'W Opr HO. **8E**

LVIV ACC, UP **UKLV** (CIV) **(R) (V) CON** - Sctr CENTER 1 - 135.6, Sctr CENTER 2 - 134.05, Sctr EAST - 125.5 135.1, Sctr WEST - 135.1. Sctr CENTER 2 joined to Sctr CENTER 1 135.6 1900-0600Z or by ATS decision, Sctr EAST joined to Sctr WEST 135.1 1900-0600Z or by ATS decision. **1B, C, 3A, 4G**

LVIV INTL, UP **UKLL** CIV N49°48.75' E23°57.37' 1071 UTC+2(+3DT) **1C**
RWY-13 L5,12 (8235x148 ASP PCN 28 R/B/X/T) L5,11 **RWY-31**

SERVICE - AOE FUEL - (NC-JET A-1)

REMARKS - CSTMS/IMG - avbl

**COMMUNICATIONS - ATIS - 128.7 RADAR - 126.0 TWR - 128.0 START - REMARKS: MIL
NAVAIDS - LVIV VORW-DME - HA 115.500 LIV CH 102 N49°48.70' E23°57.06' At Fld.
1094/4°43.0'E**

**ILS/RADAR - ➔ ILS - BRG 132° LCZR ILO 109.5 GS 3.0° LOM LO 315. ➔ ILS - BRG 312° LCZR
ILV 110.3 GS 3.0° LOM LV 315.**

LYKHACHEVE, UP NDB - HHW 430.000 LI N49°22.09' E36°12.40' Unk/7°4.0'E 3B

LYSKOVO, RS NDB - HHW 564.000 OK N56°00.00' E45°02.00' Unk/11°30.1'E 2G, 6E

**MAGADAN ACC, RS UHMM (CIV) (R) (V) CON - S Sctr - 135.6 135.6 N Sctr -
133.4 133.4 RDO - S Sctr 3102 ngt 6692 daylt N Sctr 2884 ngt 5550 daylt MAGADAN
OCEANIC Sctr 4712 8837 11390. 6H, 9B, C T2-G, H**

MAGADAN SOKOL, RS See SOKOL

**MAGADAN, RS NDB - HHW 375.000 FK N59°54.80' E150°36.90' 104° 3.2 NM
to SOKOL. Unk/11°09.3'W NDB - HHW 375.000 WA N59°54.50' E150°49.30' 285°
3.1 NM to SOKOL. Unk/11°04.1'W 9B**

**MAGDAGACHI ACC, RS UHBI (CIV) CON - 129.4 129.4 RDO - 4465 (3461 ngt)
(6589 daylt) 6H, 8H, 9A**

**MAGDAGACHI, RS NDB - HHW 344.000 GU N53°28.20' E125°48.70' Unk/12°34.6'W
By req 6H, 8H**

**MAGNITOGORSK ACC, RS USCM (CIV) (R) CON - 132.2 132.2
(CHELYABINSK ACC) 6E**

**MAGNITOGORSK, RS USCM CIV N53°23.59' E58°45.34' 1430 UTC+5(+6DT) 6E
RWY-01 L5,9,20 (10663x148 CON PCN 43 R/B/W/T) L5,9,36 RWY-19**

SERVICE - FUEL - (NC-TS-1) OIL - O-MK8P

COMMUNICATIONS - TWR - (V) 120.8 124.0X

**NAVAIDS - MAGNITOGORSK VORW-DME - L 114.100 MGR CH 88 N53°24.20' E58°45.40'
At Fld. 1426/11°37.0'E MAGNITOGORSK NDB - HHW 480.000 CP N53°26.40'
E58°46.80' 186° 2.9 NM to Fld. Unk/11°38.6'E MAGNITOGORSK NDB - HHW 480.000
RF N53°20.70' E58°44.00' 004° 3.0 NM to Fld. Unk/11°35.0'E**

**ILS/RADAR - ➔ ILS - BRG 005° LCZR IRF 108.7 GS 2.7° LOM RF 480 Opr HO. ➔ ILS - BRG
185° LCZR ICP 109.9 LOM CP 480 Opr HO.**

**MAGUOHE, CH NDB - HW 307.000 SL N25°26.90' E103°17.50' Unk/1°18.0'W Opr
HO. 8E**

**MAKHACHKALA, RS NDB - HHW 365.000 HC N42°51.30' E47°37.20' 142° 2.7 NM
to UYTASH. Unk/6°10.5'E NDB - HHW 365.000 SM N42°46.50' E47°41.10' 324° 2.9 NM
to UYTASH. Unk/6°09.1'E NDB - HHW 822.000 TA N42°58.50' E47°31.40' 143° 11.1 NM
to UYTASH. Unk/6°12.7'E 5A**

**MAKHTALY, KZ NDB - HW 193.000 RC N40°59.00' E68°14.00' Unk/4°49.8'E Opr
0300-1500Z++. O/S till 01 Jan 03 est. 5C**

**MAKSIM GORKY, RS NDB - HHW 1255.000 DX N54°18.00' E56°47.00'
Unk/12°06.1'E Opr HO. 6E**

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MAKSIMKIN YAR, RS **NDB** - HHW 510.000 CE N58°38.00' E86°44.00'
Unk/9°10.2'E **6F**

MALINOVKA, RS **NDB** - HHW 535.000 SP N56°42.00' E85°21.00' Unk/8°41.1'E **6F**

MALKA, RS **NDB** - HHW 345.000 MK N53°19.00' E157°32.00' Unk/6°50.5'W Opr HO **9B**

MALOYE SKURATOVO, RS **NDB** - HHW 975.000 GD N53°34.00' E37°03.00'
Unk/8°39.1'E **3B**

MAMA, RS **NDB** - HHW 420.000 RM N58°19.00' E112°53.00' Unk/8°43.2'W Opr HO. **6G**

MAMADYSH, RS **NDB** - HHW 425.000 HJ N55°44.00' E51°24.00' Unk/12°27.4'E
2H, **6E**

MANAS, KG **UAFM** MIL/CIV (AF) N43°03.68' E74°28.65' 2058 UTC+6(+7DT) **5D, 7A**
RWY-08 L25,11,50 (13780x180 CON PCN 85 R/A/W/T) L25,11,50 **RWY-26**

SERVICE - AOE **JASU** - (A/M32A-86) 4 (AM32-95) **FUEL** - J8 (NC-TS-1) **FLUID** - LOX NIT
De-Ice (Type I and II) **OIL** - O-MK8P **TRAN ALERT** - 24 hr PN. Ltd avbl maint. Blocking and
towing avbl. No drag chute repack.

REMARKS - RSTD - PPR, 24 hr PN for all missions that are not entered into the GDSS. Ctc coalition afld Mgmt (not host nation) at DSN 318-476-0930 or com 011-996-312-903-523. Due to extremely ltd prk space and svc capability, ctc afld Mgmt with mission updates to ensure that acft can be accommodated. US mil acft can expect to use AVCARD for payment of fees and svc. When turning acft on rwy, min FOD haz by turning jet/prop blast away from adj twy's. Large acft such as KC-135's should taxi to the end of the rwy before initiating turns. Haz Cargo-Manas has one haz cargo prk lctn twy H. Haz class/division 1.1, 1.2.1, 1.2.2 haz cargo being onload/offload cannot exceed 30,000 lbs net explosive wt. 1.3 max is 100,000 lbs. 1.4 no max, physical cap of acft. Acft turns not auth wi 984' of fire dept tent lctd on Twy A btn Twy D and Twy F. The Manas Intl arpt's ILS LOC and GS critical areas for rwy 08 are not protected. Aircrews conducting AUTOLAND or COUPLED OPS should be aware of possible interference which occurs when meteorological conditions are less than reported ceiling of 800 feet and/or vsby less than 2 miles. All US-led coalition acft, to include civ contracted acft, shall plan on operating on a one-at-a-time basis within the Bishkek ATC Traffic zone. Aircrews should only request and fly the full TACAN and/or the ILS apch as published in DOD FLIP. Expect and plan for extn holding at RENAT, KALIN, or MANAS. **CAUTION** - Dist Remaining Mrks instld only wi fst 5000ft at app and dep end of Rwy 08/26. Hi bird act +/- one hr btn SR and SS due to migratory routes; bird watch ALERT during Phase II (Apr-May/Sep-Oct). All mov sfc deteriorated, use min pwr to prevent FOD. Use ctn when flw lcl arpt marshalling ref safety of wingtip clnc, ctc US Twr or Base Ops before cont. Twy A unlgtd btn F and H Twys. Fst 900' of Rwy 08 not vis fr twr. For coalition acft, host nation ATC have implemented pro providing QNH alt throughout the apch to ldg. When this occurs, no conversion is required. QNH/QFE pro at Manas IAP: All ATC asgn alt are given in meters. When tran Manas IAP, aircrews must confirm QNH settings when flying blw 1800M. Below 1800M, host nation controllers will use QNH altimeter settings for all coalition acft. Host nation acft (excluding coalition acft) will be asgn QFE alt blw 1800M. If unsure of an assigned alt, please cnt the AFCAP Radar Liaison on VHF 132.6 or UHF 309.55. **CSTMS/AG/IMG** - Handled by host nation H24. **MISC** - Plan min gnd time due to ltd prk. Ctc Ganci OPS 3 hrs prior to arrival on HF 6525.60 or HF 14837. Ctc Ganci OPS 20 min prior to arrival with ETA, msn status, cargo, pax and special rqr on UHF 347.075/VHF 119.725. AMC Contract carriers such as the personnel rotator acft and acft carrying DV's, ctc GANCI Ops 1 hr prior to arrival or ASAP with ETA. HF 6525.60 is valid from 1400Z til 2259Z. HF 14837 is valid from 2300Z til 1359Z. Host nation wx obsv is used by ATC and determines the offl operational status of afld. Host nation wx obsv and fcst avbl under UAFM ident. USAF wx obsv and fcst for planning purposes avbl under KQHT ident. Inbd coalition acft ck in with rdr AFCAP Liaison asap after initial ctc with host nation on freq 309.55/132.6 for ATIS info and rdr mnt. Dep coalition acft ck in with twr AFCAP Liaison on freq 307.825/120.15 prior to movement and for req svc.

COMMUNICATIONS - GANCI DISPATCH - 262.95 *REMARKS:* (PTD)
BISHKEK ACC - 132.2 **OSH ACC** - 133.4 **DUSHANBE ACC** - 133.1
ALMATY ACC - 132.8 **APP** - 124.6 *REMARKS:* (R) **TWR** - 118.1 *REMARKS:* (CS Bishkek Start) **GND** - 121.7 *REMARKS:* (CS Bishkek Taxiing) **GND** - 309.35 **METRO** - 309.9
GANCI OPS - 347.075 6525.6 **RADAR LIAISON** - 309.55 132.6 **TWR LIAISON** - 120.15 307.825
NAVAIDS - BISHKEK VORW-DME - HA 113.400 MNS CH 81 N43°04.10' E74°31.30' 253° 2.0 NM to Fld. 2051/(A)5°00.0'E **MANAS TACAN** - T AFM CH 67 N43°03.73' E74°28.24' At Fld. 2091/5°00.1'E TACAN will be O/S for PMI every Sunday from 0100-0500Z++.
BISHKEK NDB/LOM - HW 975.000 MN N43°03.10' E74°24.30' 075° 3.2 NM to Fld. Unk/5°00.5'E **BISHKEK NDB/LOM** - HW 975.000 BK N43°04.30' E74°33.10' 254° 3.3 NM to Fld. Unk/4°59.8'E **VHF/DF**
ILS/RADAR - ILS ■ RADAR - ASR - Call Bishkek APP CON 124.6.

MANYCHSKY, RS **NDB** - HHW 705.000 MN N47°03.00' E40°22.00' Unk/6°57.7'E **3C**

MARIUPOL INTL, UP **UKCM** CIV N47°04.57' E37°26.97' (37TCN8229614790) 251 UTC+2(+3DT) **3C, 4I**
RWY-02 L7,12,50 (8431x164 ASP PCN 32 R/C/X/U) L7,12,50 **RWY-20**
SERVICE - FUEL - (NC-A1) **OIL** - MS-20, MS-8, MS-4.5
REMARKS - Opr 0500-2000Z++
COMMUNICATIONS - TWR - 0500-2000Z++ 131.5
NAVAIDS - MARIUPOL DME - L MRP CH 109 N47°04.51' E37°27.10' At Fld. 269/6°36.0'E

MARKOVO ACC, RS **UHMO** (CIV) **(R) CON** - **132.1** 132.1 Opr 2200-0800Z++ working days, 0000-0600Z++ Sat-Sun. (Other times ANADYR ACC provides ATC 135.4 on Awy B244, B337 and G212.) **RDO** - 2884 ngt 5550 daylight **9C**

MARKOVO, RS **NDB** - HHW 325.000 AM N64°40.10' E170°18.60' Unk/1°08.1'W Opr HO. **9C**

MARY, (MARY NORTHEAST) TX **UTAM** CIV N37°37.17' E61°53.80' (41SMB0263064165) 728 UTC+5 **5C**
RWY-18L L25,11,50 (9107x147 CON PCN 80 R/B/X/T) L25,11,50 **RWY-36R**
RWY-18R L7 (7994x98 CON PCN 13 R/B/X/T) L7,20 **RWY-36L**
SERVICE - A-GEAR - A-Gear lctd 98' fm all rwy thlds. **FUEL** - (NC-TS-1) **OIL** - MS-20
REMARKS - CAUTION - WIP Rwy 18R/36L clsd til 01 Dec 05 est.
COMMUNICATIONS - TWR - Opr HO 122.2 *REMARKS:* (CS Start) **RADAR** - Opr HO 124.0 **METEO** - Opr HO 128.3
NAVAIDS - MARY NDB - HW 439.000 MP N37°34.30' E61°53.98' 353° 2.9 NM to Fld. Unk/4°01.1'E Opr HO. **MARY NDB** - HW 480.000 NS N37°34.30' E61°53.88' 355° 2.9 NM to Fld. Unk/4°01.1'E Opr HO.

MARY NORTHEAST, TX See MARY

MARYINO, RS **NDB** - HHW 493.000 RW N55°42.00' E38°13.00' Unk/9°47.4'E 2F, H, T-1E

MATVEYEVSKY, RS **NDB** - HHW 1170.000 EB N54°56.00' E83°05.00' Unk/8°37.6'E 6F

MAYKOP, RS **NDB** - MHW 682.000 MA N44°37.10' E40°08.90' Unk/6°13.2'E Opr HO. 4J

MEGRI, AM **NDB** - HW 787.000 MGR N38°56.33' E46°20.83' Unk/5°00.7'E **5A**

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MEILAN, (HAIKOU) CH **ZJHK** CIV N19°56.09' E110°27.54' 75 UTC+8 **8E**
RWY-09 L2,3,4,5,10,50 (11811x148 CON PCN 95 R/B/W/T) L4,5,11,50 **RWY-27**

SERVICE - FUEL - (NC-J)

REMARKS - Opr HS or O/R. **CAUTION** - Wx balloon launch 315° 8.5 NM fr ARP, sfc to unltld, 1115Z, 1715Z, and 2315Z dly. **CSTMS/AG/IMG** - Avbl. **MISC** - Parking stands have wing span restrictions, call to confirm parking availability.

COMMUNICATIONS - ATIS - Opr HO. 127.65 **HAIKOU APP** - Opr HO. 119.15 123.85
HAIKOU TWR - Opr HO. 118.6 124.3 **GND** - Opr HO. 121.65

NAVAIDS - DONGMULANTOU VORW-DME - HA 112.700 MLT CH 74 N20°09.10'
E110°40.40' 223° 17.7 NM to Fld. 190/1°32.0'W Opr HO.

NANYINGBINDAO VORW-DME - HA 113.300 NYB CH 80 N20°00.80' E110°08.20' 104°
18.8 NM to Fld. 75/1°27.0'W Opr HO.

ILS/RADAR - ➔ **ILS-DME** - BRG 091 LCZR IHH 111.5 CH 52 GS 3.0 Opr HO. ➔ **ILS-DME** - BRG
271 LCZR IPP 108.5 CH 22 GS 3.0 Opr HO.

MENDELEYEVO, RS **NDB** - HHW 940.000 MN N58°10.00' E54°58.70'
Unk/14°31.3'E **6E**

MEZEN, RS **NDB** - HHW 555.000 MZ N65°52.00' E44°12.00' Unk/17°14.3'E Opr
0400-1800Z++. **6E, T-2G**

MIGALOVO, (TVER MIGALOVO) RS **UUEM** CIV N56°49.48' E35°45.46' 469
UTC+3(+4DT) **2F**
RWY-07 L5,8,30 (8202x160 CON PCN 36 R/A/W/T) L5,8,30 **RWY-25**

SERVICE - FUEL - (NC-TS-1) Avbl during daylight hours only **OIL** - O-MK8

REMARKS - Opr Daylight only. **CAUTION** - Useable rwy width is 161'. Apch lgts not used.
CSTMS/IMG - Avbl during daylight hours

COMMUNICATIONS - RDR - Call Tver KRUG. 120.2 **TWR** - Call Tver START. 120.2
GND - Call TAXIING. 124.0

NAVAIDS - MIGALOVO NDB - HHW 449.000 MW N56°48.80' E35°40.70' 067° 2.7 NM
to Fld. Unk/9°34.8'E Opr HO. **MIGALOVO NDB** - HHW 449.000 KU N56°50.20'
E35°50.50' 246° 2.9 NM to Fld. Unk/9°38.2'E Opr HO. **VHF/DF**

ILS/RADAR - ■ **RADAR** - ASR - Call TVER KRUG 120.2.

MIKHAYLOVKA, RS **NDB** - HHW 770.000 MI N55°04.00' E57°04.00' Unk/12°36.7'E
Opr HO. **6E**

MIKHAYLOVSK, RS **NDB** - HHW 825.000 MH N56°27.00' E59°08.00' Unk/13°39.7'E
6E

MILKOVO ACC, RS **UHPM** (CIV) (R) **CON** - **126.0** 126.0 Opr 2000-0800Z++.
(PETROPAVLOVSK-KAMCHATSKY ACC provides ATC abv FL266.) **9B**

MILKOVO, RS **NDB** - HHW 592.000 MW N54°42.40' E158°36.60' Unk/6°36.4'W Opr
HO. **9B**

MINERALNYYE VODY, RS **URMM** CIV N44°13.50' E43°04.91' 1054
UTC+3(+4DT) **4J, 5A, D**
RWY-12 L3,4,5,27,50 (12795x197 CON PCN 48 R/C/X/T) L4,5,36,50 **RWY-30**

SERVICE - FUEL - (NC-TS1)

COMMUNICATIONS - ATIS - 127.4 **APP** - (R) 119.3 **START** - 128.0 **TAXIING** - 121.9
KRUG - (R) 120.7

NAVAIDS - MINERALNYYE VODY NDB - HHW 583.000 MW N44°11.70' E43°09.10' 295°
3.5 NM to Fld. Unk/6°21.5'E **MINERALNYYE VODY NDB** - HHW 583.000 MD
N44°15.50' E43°00.50' 116° 3.7 NM to Fld. Unk/6°22.0'E

ILS/RADAR - ➔ ILS - BRG 117° LCZR IMD 111.7 GS 2.7° LOM MD 583 ➔ **ILS** - BRG 297° LCZR
IMW 109.3 GS 2.7° LOM MW 583.

MINSK ACC, BO **UMMV** (CIV) (R) (V) **CON - 129.0X** 129.0X. **Sctr 1 S - 135.075**
135.075 **133.875X** 133.875X. **Sctr 2 W - 124.825** 124.825 **127.625X** 127.625X. **Sctr 3 N**
- **118.975** 118.975. **Sctr 4 Centre** - (**119.375** Opr 0600-1800Z) (**132.1** Opr 1800-0600Z).
Sctr 5 W-2 - (120.575 Opr 0600-1800Z) (**124.825** Opr 1800-0600Z) **127.625X**.
1C, D, 2E, 3A

MINSK 1, BO **UMMM** CIV N53°51.87' E27°32.38' 748 UTC+2(+3DT) **1C, 3A**
RWY-12 L7,20 (6562x197 ASP PCN 44 F/D/X/T) L7,20 **RWY-30**
6234➔

SERVICE - FUEL - (NC-TS1)

REMARKS - Opr by NOTAM. **RSTD** - First 328' of Rwy 12 unused for Idg.

COMMUNICATIONS - START - Opr HO. Svc as LANDING and TAXIING. 128.0

METEO - Opr HO. 118.4

NAVAIDS - MINSK-1 NDB - HHW 321.000 GK N53°53.60' E27°28.40' 120° 2.9 NM to Fld.
Unk/6°21.8'E Opr HO. **MINSK-1 NDB** - HHW 321.000 NE N53°50.20' E27°36.40' 299°
2.9 NM to Fld. Unk/6°23.1'E Opr HO.

ILS/RADAR - ➔ ILS - BRG 120° LCZR IGK 110.5 GS 3.0° LOM GK Opr HO.

MINSK 2, BO **UMMS** CIV N53°52.95' E28°01.84' 670 UTC+2(+3DT) **1C, 3A**
RWY-13 L4,5,11,50 (11946x197 CON PCN 51 R/B/X/T) L3,4,5,10,50 **RWY-31**

SERVICE - AOE

COMMUNICATIONS - ATIS - 128.85 **MINSK APP** - 1800-0700Z++ svc as RADAR. (R) (V)

125.9 129.0X **TWR** - 118.3 **GND** - 121.7 **MINSK RADAR** - Opr 0700-1800Z++. (R)

125.25 **MINSK VOLMET** - 126.675

NAVAIDS - MINSK-2 VORW-DME - HA 113.600 MNS CH 83 N53°53.10' E28°01.30'
At Fld. 666/6°30.5'E **MINSK-2 NDB** - MHW 635.000 VX N53°55.30' E27°58.50' 134°
3.1 NM to Fld. Unk/6°30.3'E Opr HO. **MINSK-2 NDB** - MHW 635.000 GH N53°50.60'
E28°05.50' 312° 3.2 NM to Fld. Unk/6°31.0'E Opr HO.

ILS/RADAR - ➔ ILS - BRG 133° LCZR IVX 108.9 GS 2.7° LOM VX 635 Opr HO. ➔ **ILS** - BRG
313° LCZR IGH 109.7 GS 2.7° LOM GH 635 Opr HO.

MIRNY ACC, RS **UERR** (CIV) (R) (V) **CON - 126.0X** 126.0X **N Sctr - 135.6** 135.6 **S**
Sctr - 134.1 134.1 **RDO** - (2986 ngt) (5568 daylt) 4712 **6G, H**

MIRNY, RS **UERR** CIV N62°32.08' E114°02.34' 1155 UTC+9(+10DT) **6G**
RWY-06 L5,20 (9140x148 CON PCN 45 R/A/W/T) L3,5,33 **RWY-24**

REMARKS - RSTD - Afd for emerg Idg of flt operating along the cross-polar rte.

COMMUNICATIONS - ATIS - 126.6 **APP** - Also svc as KRUG and TAXIING. (R) (V) 125.9
TWR - Svc as LANDING and START. 120.8

NAVAIDS - MIRNY VORW-DME - L 113.800 DEM CH 85 N62°32.40' E114°01.20' At Fld.
1155/10°03.2'W **MIRNY NDB** - HHW 385.000 SG N62°33.70' E114°07.30' 245° 2.8 NM
to Fld. Unk/10°07.5'W **MIRNY NDB** - HHW 385.000 NZ N62°30.60' E113°57.30' 067°
2.8 NM to Fld. Unk/10°00.6'W

ILS/RADAR - ➔ ILS - BRG 244° LCZR ISG 110.3 GS 2.4° LOM SG 385. ■ **RADAR** - ASR - Call
APP 125.9.

MOGILEV, BO **UMOO** CIV N53°57.29' E30°05.71' 637 UTC+2(+3DT) **1D, 3A**
RWY-13 L7,20,50 (8422x138 ASP PCN 21 R/C/X/T) L7,20,50 **RWY-31**

SERVICE - FUEL - (NC-TS1)

REMARKS - Opr by NOTAM.

COMMUNICATIONS - APP - Svc as RADAR, TWR and GND. Opr HO. (R) (V) 127.1

NAVAIDS - MOGILEV NDB - HW 485.000 CO N53°55.60' E30°08.70' 314° 2.5 NM to Fld.
Unk/7°4.0'E Opr HO. **MOGILEV NDB/LOM** - HW 485.000 UF N53°59.20' E30°02.70'
130° 2.6 NM to Fld. Unk/7°4.0'E Opr HO.

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ILS/RADAR - ➔ ILS - BRG 131° LCZR IUF 111.1 GS 2.7° LOM UF 485 Opr HO.

MOGOCHA ACC, RS **UIAM** (CIV) **(R) CON** - 132.2 Opr 1300-0500Z OT ctc CHITA
CTA. **RDO** - (6589 6670 daylt) (3425 3461 ngt) **6H-8H**

MOGOCHA, RS **NDB** - HHW 450.000 KU N53°44.00' E119°46.00' Unk/10°56.7'W **6H**

MOSCOW ACC, RS **UUWV** (CIV) **(R) (V) CON** - **124.4X** 124.4X. **Sctr NORTH 130.5**
130.5. **Sctr GORKIY 2 - 135.5** (FL230 and Abv.) **Sctr GORKIY 5 - 132.5** (To FL230) **Sctr**
GORKIY 4 - 133.2 133.2. **Sctr GORKIY 3 - 132.1** (FL200 And Abv) **Sctr GORKIY 6 -**
129.4 (To FL200) **Sctr PENZA 1 - 119.5** (FL200 And Abv) **Sctr PENZA 2 120.0** (To
FL200) **Sctr VORONEZH 1 - 134.7** (FL200 and abv.) **Sctr VORONEZH 3 - 125.2**
(FL240 and abv.) **Sctr VORONEZH 4 - 119.8** (To FL240) **Sctr VORONEZH 2 - 126.9** (
FL217 and abv.) **Sctr KHARKIV 1 - 122.0** 122.0 **Sctr KHARKIV 2 - 124.5** 124.5 **Sctr**
KYIV 2 - 132.2 132.2 **Sctr KYIV 1 - 128.8** 128.8 **Sctr WEST 1 - 132.95** (FL240 And
Abv) **Sctr WEST 2 - 125.5** (To FL240) **Sctr LENINGRAD 1 - 127.5** 127.5. **RDO** -
11390. **1D, 2E, F, G, 3A, B, C, 6E, T-1E**

MOSCOW TCA, RS (CIV) **(R) (V) APP 1** - (127.2 within air CRDR2 and 3,
FL118-FL397.) **APP 2** - (122.7 within air CRDR2 and 3, FL39-FL118.) **APP 3** - (128.0 within
air CRDR4 and 5, FL118-FL397.) **APP 4** - (123.4 within air CRDR4 and C5, FL39-FL118.)
APP 5 - (134.0 within air CRDR6, CRDR7, and on awy seg fr Sukhotino NDB to Oktyabrsky
NDB, FL118-FL397.) **APP 6** - (125.3 within air CRDR6, CRDR7, and on awy seg fr
Sukhotino NDB to Oktyabrsky NDB, FL39-FL118.) **APP 7** - (131.2 within awy CRDR8 and
9, FL118-FL397.) **APP 8** - (129.8 within air CRDR8 and 9, FL39-FL118.) **APP 9** - (135.9
within air CRDR1 and 10, FL39-FL397.) All air crdr 124.4X 129.0X **VHF/DF**
2E, F, G, H, T-1E

MUDANJIANG, CH See HAILANG

MUKHINO, RS **UIUU** CIV N51°48.47' E107°26.26' 1690 UTC+8(+9DT) **6G**
RWY-08L9 (9780x150 CON PCN 23 R/A/X/T) L7,9,20,50 **RWY-26**
RWY-08L (6700x340 GRS) **RWY-26R**
RWY-14 (4630x315 GRS) **RWY-32**

SERVICE - FUEL - (NC-TS-1)

COMMUNICATIONS - ATIS - 126.6 **ULAN UDE APP - (R)** 129.3

ULAN UDE TWR - Svc as START, TAXIING, and LANDING. 118.1

NAVAIDS - ULAN-UDE NDB - MHW 349.000 ZD N51°49.20' E107°31.40' 262° 3.3 NM
to Fld. Unk/4°46.9'W **VHF/DF**

ILS/RADAR - ➔ ILS - BRG 263° LCZR IZD 110.3 GS 3.2° LOM ZD 349 **RADAR** - ASR - Call
ULAN UDE KRUG 120.6.

MUKHRANI, GG **NDB** - HW 520.000 DF N41°55.00' E44°33.93' Unk/5°46.6'E **5A**

MURAVEYKA, RS **NDB** - HHW 920.000 BG N43°53.00' E133°15.00' Unk/10°11.5'W
8H

MUREN, (MORON) MG **ZMMN** CIV N49°39.80' E100°05.96' 4272 UTC+8(+9DT) **6G, 7B**
RWY-10L7A,55 (8005x137 ASP PCN 45 F/B/Y/U) L50 **RWY-28**

REMARKS - Opr O/R.

COMMUNICATIONS - CON - Opr H24. 128.0 **RDO** - Opr H24. 5715 (2435 Khz altn freq)

APP - Opr H24. 130.0

NAVAIDS - MUREN NDB - MHW 570.000 MU N49°39.18' E100°10.47' 282° 3.0 NM to Fld.
Unk/0°55.3'W

MURMANSK ACC, RS **ULMM** (CIV) (R) **CON - 132.1** 132.1 **RDO - 3920**
MURMANSK OCEANIC CON - 126.9 126.9 3920 5694 8950 11390.
ENAME H-1D, L-1D, T2-G

MURMANSK, RS **ULMM** CIV N68°46.90' E32°45.05' 266 UTC+3(+4DT)
ENAME H-1D, L-1D
RWY-14L7,20 (8202x148 CON PCN 29 R/B/X/T) L7,33,50 **RWY-32**
SERVICE - FUEL - Opr H24. (NC-TS1)
REMARKS - Opr 0400-2100Z+.
COMMUNICATIONS - TWR - Opr H24. 120.3 **METEO -** Opr H24. 127.4
NAVAIDS - MURMANSK NDB/LOM - HW 635.000 RD N68°44.60' E32°49.10' 328°
2.7 NM to Fld. Unk/13°45.0'E **MURMANSK NDB/LOM -** HW 635.000 PF N68°49.40'
E32°40.10' 144° 3.1 NM to Fld. Unk/13°42.0'E
ILS/RADAR - ➔ ILS - BRG 135° LCZR IPF 110.3 GS 2.7° LOM PF 635. ➔ **ILS -** BRG 315° LCZR
IRD 108.5 GS 3.0° LOM RD 635.

MUROVLYANKA, RS **NDB -** HHW 1025.000 US N53°45.00' E38°30.00'
Unk/9°02.8'E **3B**

MUYNAK, UZ **NDB -** HW 453.000 SO N43°46.00' E59°02.00' Unk/6°32.3'E Opr on req.
5B

MYKOLAIV INTL, UP **UKON** CIV N47°03.47' E31°55.19' 184 UTC+2(+3DT) **4H**
RWY-05L7,12 (8438x144 ASP PCN 37 R/B/X/T) L7,12 **RWY-23**
RWY-05L (5905x250 GRS) **RWY-23R**
SERVICE - FUEL - (NC-A1)
REMARKS - Opr 0630-1800Z+.
CSTMS/IMG - avbl HS **MISC -** Fone C+380 512 43 95 95
COMMUNICATIONS - TWR - Opr 0600-1800Z++ 120.7
ILS/RADAR - ➔ ILS - BRG 046° LCZR INI 110.7 GS 3.0° LOM NI 1030 LMM I 509. ➔ **ILS -** BRG
226° LCZR INK 108.9 GS 3.0° LOM NK 1030 LMM K 509.

MYS KAMENNY ACC, RS **USDK** (CIV) (R) **CON- 132.9** 132.9 **RDO - 5632** 3072
(0200-1700Z O/R) **6F**

MYS KAMENNY, RS **NDB -** HHW 372.000 ZL N68°30.50' E73°34.80' Unk/24°16.6'E
6F

MYS SCHMIDTA ACC, RS **UHMI** (CIV) (R) **CON - 135.1** 135.1 Opr
2100-0600Z+.
9D

MYS SCHMIDTA, RS **NDB -** HHW 440.000 WJ N68°54.30' W179°27.40' Unk/5°35.8'E
Opr HO. **9D**

NADYM ACC, RS **USMM** (CIV) (R) (V) **CON - 135.4** 135.4 **124.0x** 124.0x blw
FL266 (SALEKHARD ACC) **6F**

NADYM, RS **NDB -** HHW 485.000 NO N65°28.80' E72°42.20' Unk/20°54.4'E **NDB -** HHW
485.000 PZ N65°28.82' E72°42.20' Unk/20°54.4'E **6F**

NAGORNAYA, UZ **NDB -** HW 598.000 DY N39°45.00' E66°24.00' Unk/4°30.0'E **5C**

NAKHCHIVAN, AJ **UBBN/UB15** MIL/CIV N39°11.33' E45°27.51' 2863
UTC+4(+5DT) **5A**
RWY-14LL6,34 (10826x138 ASP PCN 40 F/B/X/T) L6 **RWY-32R**
←9826
RWY-14RL5,11,50 (10826x148 CON PCN 150 R/A/W/T) L5,11,50 **RWY-32L**
←10451

AIRPORT/FACILITY DIRECTORY B-52

SERVICE - FUEL - (NC-TS1)

COMMUNICATIONS - ATIS - 127.5 *REMARKS: ATIS RUS/ENG* **APP** - 127.9

TWR - 118.2

NAVAIDS - NAKHCHIVAN NDB - HW 493.000 NO N39°09.90' E45°29.16' 313° 1.9 NM

to Fld. Unk/5°03.9'E **NAKHCHIVAN NDB** - HW 680.000 NT N39°13.56' E45°24.86' 137°
3.0 NM to Fld. Unk/5°04.8'E Opr O/R.

NALCHIK, RS **URMN** CIV N43°30.77' E43°38.19' 1461 UTC+3(+4DT) **5A, D**
RWY-06L7 (7218x138 ASP PCN 28 F/C/Y/T) **L7,20 RWY-24**

SERVICE - FUEL - (NC-TS-1)

COMMUNICATIONS - APP - (R) 126.9 **TWR** - Call START. 118.3 **ASR** - Call KRUG. (R)
126.9

NAVAIDS - NALCHIK NDB - HHW 718.000 NL N43°32.00' E43°41.60' 238° 2.8 NM to Fld.
Unk/6°11.9'E **VHF/DF**

ILS/RADAR - ➔ **ILS** - BRG 237° LCZR INL 110.5 GS 2.4° LOM NL 718. **■ RADAR** - ASR - Call
KRUG 126.9 PAR - Call TWR 118.3

NAMANGAN, UZ **NDB** - HW 329.000 SA N40°59.00' E71°36.00' Unk/4°31.5'E **5C, 7A**

NANCHANG ACC, CH **ZSCN** (CIV) **CON - NE Sctr - 120.5** 120.5 **130.30** 130.30
Opr HO. **SW Sctr - 125.9** 125.9 **130.30** 130.30 Opr HO. 6571 (8897 0001-1200Z) (3016
1201-2400Z) **7C, 8F**

NANCHANG, CH See CHANGBEI INTL

NANCHENGZI, CH **NDB** - HW 314.000 KR N39°08.70' E114°36.00' Unk/5°35.0'W Opr
HO. **7C, 8G**

NANCHONG, CH **VORW-DME** - HA 117.400 GAO CH 121 N30°48.40' E106°11.20'
909/2°11.0'W **7C, 8F**

NANFENG, CH **NDB** - HW 292.000 NF N27°13.00' E116°34.00' Unk/3°32.0'W Opr HO.
8F

NANHUI, CH **VORW-DME** - HA 114.600 NHW CH 93 N31°04.90' E121°34.40' 073°
12.5 NM to PUDONG. 21/5°14.0'W Opr HO. **7D, 8F**

NANJING, CH **VORW-DME** - HA 112.000 NSE CH 57 N31°44.70' E118°51.80'
At LUKOU. 49/4°57.0'W Opr HO. **8F**

NANLANG, CH **VORW-DME** - HA 117.700 NLG CH 124 N22°31.90' E113°33.80'
361/2°14.0'W Opr HO. **7D,8E**

NANNING ACC, CH **ZGNN** (CIV) **CON - 132.7** 132.7 **132.35** 132.35 Opr HO.
6556 (10066 Opr 0001-1200Z.) (3491 Opr 1201-2400Z.) **7C, 8E**

NANNING, CH **VORW-DME** - HA 114.500 NNG CH 92 N22°37.50' E108°11.80' 233°
1.7 NM to WUXU. 420/1°34.0'W Opr HO. **8E**

NANTONG, CH **VORW-DME** - HA 115.600 NTG CH 103 N32°03.80' E120°58.70'
9/5°24.0'W **8F**

NANXIANG, CH **NDB/LOM** - HHW 369.000 PK N31°17.20' E121°19.80' 177° 5.3 NM
to HONGQIAO INTL. 80/5°16.0'W Opr HO. **7D, 8F**

NANXIONG, CH **NDB** - HW 333.000 NS N25°05.80' E114°16.50' Unk/2°47.0'W Opr
HO. **VORW-DME** - HA 115.600 NNX CH 103 N25°06.00' E114°16.30' 128/2°47.0'W Opr
HO. **7C-8F**

NANXUN, CH **NDB** - MHW 391.000 SX N30°53.00' E120°25.00' Unk/5°0.0'W Opr HO.
7D, 8F

NANYINGBINDAO, CH **VORW-DME** - HA 113.300 NYB CH 80 N20°00.80'
E110°08.20' 104° 18.8 NM to MEILAN. 75/1°27.0'W Opr HO. **8E**

NARIMANOVKA, KZ See KOSTANAY

NARYAN-MAR ACC, RS **ULAM** (CIV) **(R) CENTER - 133.2** 133.2 FL231 and Abv.
CON - (blw FL231 **133.2** 133.2 Opr 1700-0600Z++. **128.0** 128.0 Opr 0600-1700Z++).
RDO - (3422 ngt) (5596 daylt) 4672. (ARKHANGELSK ACC) **6E, F**

NARYAN-MAR, RS **NDB** - HHW 680.000 GA N67°38.40' E53°07.50' Unk/21°34.0'E
6E, F

NARYN GES, KG **NDB** - HW 691.000 NS N41°10.00' E72°10.00' Unk/4°32.2'E Opr
0000 1530Z++. **5D, 7A**

NEMYRIV, UP **NDB** - HHW 1060.000 NM N48°57.98' E28°50.90' Unk/5°36.0'E . **1C, 3A**

NERL, RS **NDB** - HHW 900.000 NE N57°02.00' E38°00.00' Unk/10°19.1'E **2F**

NIKOLA, UP **NDB** - HHW 326.000 NL N44°57.98' E33°37.11' Unk/5°33.0'E **4I**

NIKOLAYEVSK-NA-AMURE ACC, RS **UHNN** (CIV) **(R) NIKOLAYEVSK**
CON - 127.8 **NIKOLAYEVSK RDO** - (5557 6692 7870X daylt)(3665 3102 2868 ngt)
6H, 9A, B

NIKOLAYEVSK -NA- AMURE, RS **NDB** - HHW 394.000 ME N53°09.00'
E140°38.10' Unk/12°29.1'W **9A**

NIKOLSK, RS **NDB** - HHW 699.000 NH N52°45.00' E104°28.00' Unk/3°07.9'W **6G**

NIKOLSKOYE, RS **NDB** - HHW 595.000 NK N55°11.00' E165°59.00' Unk/2°57.5'W
Opr HO. **9C**

NIKOLSKOYE, RS **NDB** - HHW 995.000 DW N54°02.00' E49°11.00' Unk/11°09.6'E Opr
HO. **2H**

NINGBO, CH **VORW-DME** - HA 116.300 NGB CH 110 N29°49.60' E121°27.60' At LISHE.
49/4°53.0'W Opr HO. **NDB** - HW 227.000 BK N29°53.70' E121°19.90' 121° 8.1 NM
to LISHE. Unk/4°54.0'W Opr HO. **7D**

NINGSHAN, CH **NDB** - HW 402.000 RQ N33°19.20' E108°18.60' Unk/2°54.0'W Opr
HO. **VORW-DME** - HA 116.300 NSH CH 110 N33°19.10' E108°18.70' 2575/2°55.0'W Opr
HO. **7C, 8E**

NIZHNAYA TAVDA, RS **NDB** - HHW 305.000 SD N57°40.00' E66°12.00'
Unk/14°30.2'E **6E**

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NIZHNEUDINSK ACC, RS UINN (CIV) (R) (V) CON - 118.475 118.475 RDO -
(3046 ngt) (6704 daylt) (IRKUTSK ACC for all hgt.) 6G

NIZHNEUDINSK, RS VORW - HA 112.700 NVD N54°53.00' E99°04.00'
Unk/(A)2°47.3'E NDB - HHW 526.000 FV N54°51.20' E99°07.50' Unk/0°12.8'E 6G

NIZHNEVARTOVSK, RS USNN CIV N60°56.96' E76°29.02' 177 UTC+6(+7DT) 6F
RWY-03 L36,50 (10499x197 ASP PCN 54 R/B/X/T) L36,50 RWY-21

REMARKS - RSTD - Afd for emerg ldg of flt operating along the cross-polar rte.

COMMUNICATIONS - APP - 134.3 **TWR** - 118.1 **GND** - Opr 0200-1100Z++. Call
TAXIING. 121.7 **ASR** - Call KRUG. 120.4

NAVAIDS - NIZHNEVARTOVSK VORW-DME - HA 112.300 NJC CH 70 N60°56.60'
E76°28.10' At Fld. -144/15°25.2'E **NIZHNEVARTOVSK NDB** - HHW 450.000 JH
N60°54.70' E76°24.90' 026° 3.0 NM to Fld. Unk/15°24.5'E Opr HO.

NIZHNEVARTOVSK NDB - HHW 450.000 NZ N60°59.20' E76°33.10' 206° 3.0 NM to Fld.
Unk/15°25.9'E Opr HO.

ILS/RADAR - ➔**ILS** - BRG 026° LCZR IJH 110.5 GS 2.7° LOM JH 450 Opr HO. ➔**ILS** - BRG
206° LCZR INZ 111.9 GS 2.7° LOM NZ 450 Opr HO.

NIZHNEYE SANCHELEEVO, RS NDB - HHW 885.000 KS N53°41.00'
E49°26.00' Unk/11°00.2'E 2H

NIZHNY NOVGOROD, RS NDB - HHW 327.000 UV N56°15.10' E43°47.70' 185°
1.3 NM to STRIGINO. Unk/11°22.2'E Opr HO. **NDB** - HHW 327.000 BO N56°12.30'
E43°46.70' 356° 1.5 NM to STRIGINO. Unk/11°20.6'E Opr HO. **NDB** - HHW 245.000 ST
N56°16.50' E43°47.90' 179° 2.7 NM to STRIGINO. Unk/11°23.0'E Opr HO. **NDB** - HHW
245.000 NG N56°10.60' E43°45.90' 000° 3.3 NM to STRIGINO. Unk/11°19.5'E Opr HO.
2G

NIZHNYAYA PESHA, RS NDB - HHW 599.000 GL N66°45.00' E47°46.00'
Unk/19°08.4'E 6E

NORILSK ACC, RS UOOO (CIV) (R) CON - Sctr WEST 132.5 132.5 Sctr NORTH -
133.4 133.4 6672 8822 Sctr EAST - 6672 8822X 8882X. 6F, G

NORILSK, RS NDB - HHW 535.000 BF N69°21.10' E87°24.50' 194° 2.9 NM to ALYKEL.
Unk/18°55.1'E 6F

NOVOKAZALINSK, KZ NDB - HW 510.000 NK N45°49.85' E62°07.82'
Unk/7°22.3'E **VORW-DME** - L 113.600 NKZ CH 83 N45°49.85' E62°07.72' 252/7°22.2'E
5B

NOVOKUZNETSK ACC, RS UNWW (CIV) (R) (V) CON - 126.9 126.9 6F

NOVOKUZNETSK, RS NDB - HHW 300.000 UF N53°51.30' E86°54.30'
Unk/6°28.9'E 6F

NOVOSIBIRSK ACC, RS UNNT (CIV) (R) (V) CON - Sctr N - 129.6 129.6 (Opr
1630-0230Z++) 135.4 135.4 (Opr 0230-1630Z++). Sctr SE - 124.5 124.5. Sctr W - 127.0
127.0. RDO - 4712. 6F

NOVOSIBIRSK, RS VORW-DME - HA 113.300 NSK CH 80 N55°00.80' E82°38.40'
At TOLMACHEVO. 388/8°50.6'E 6F

NOVOTYRYSKINO, RS NDB - HHW 715.000 KD N55°17.00' E82°24.00'
Unk/9°05.8'E 6F

NOVY, RS **UHHH** CIV N48°31.68' E135°11.30' 244 UTC+10(+11DT) **8H, 9A**
RWY-05L L7,20,50 (11483x148 ASP PCN 56 R/C/X/T) L7,20,50 **RWY-23R**
RWY-05R L5,33 (13124x197 CON PCN 46 R/A/X/T) L5,33 **RWY-23L**
SERVICE - FUEL - (NC-TS1) OIL - O-MK8
REMARKS - Opr 2200-0300Z++, 0500-1000Z++, 1000-2200Z++ as Altn Arpt, OT O/R.
COMMUNICATIONS - KHABAROVSK ATIS - 124.875 KHABAROVSK APP - (R) 125.2
129.3 (125.2 Sctr 0-138) (129.3 Sctr 138-360). **KHABAROVSK TWR -** Svc as START and
TAXIING. 119.3 **KHABAROVSK KRUG - (R) 120.3 KHABAROVSK VOLMET - 127.875**
KHABAROVSK TRANSIT - 131.8
NAVAIDS - KHABAROVSK VORW-DME - HA 112.300 HAB CH 70 N48°32.67' E135°12.55'
232° 1.3 NM to Fld. 243/11°40.0'W **KHABAROVSK NDB -** HW 528.000 GE N48°34.00'
E135°14.20' 220° 3.0 NM to Fld. Unk/11°40.0'W Opr 1300-2200Z++
KHABAROVSK NDB - HW 528.000 BD N48°29.40' E135°08.00' 044° 3.2 NM to Fld.
Unk/11°39.0'W Opr 1300-2200Z++ **KHABAROVSK NDB/LOM -** HW 469.000 UF
N48°29.30' E135°08.20' 041° 3.2 NM to Fld. Unk/11°39.0'W Opr 1300-2200Z++.
KHABAROVSK NDB/LOM - HW 469.000 HI N48°34.10' E135°14.70' 223° 3.3 NM to Fld.
Unk/11°40.0'W Opr 1300-2200Z++. **VHF/DF**
ILS/RADAR - ➔ ILS - BRG 054° LCZR IUF 110.3 GS 2.7° LOM UF 469. ➔ **ILS -** BRG 234° LCZR
IHI 110.9 GS 2.7° LOM HI 469. ■ **RADAR -** PAR - Call KRUG 120.3.

NOVY VASYUGAN ACC, RS **UNLW** (CIV) **(R) CON - 135.9** 135.9 FL200 and
abv 0400-1400Z++. All alt 1400-0400Z++. 126.1 Up to FL200 0400-1400Z++. **RDO - 4712**
(KOLPASHEVO ACC) **6F**

NOVY VASYUGAN, RS **NDB -** HHW 350.000 XV N58°35.00' E76°30.00'
Unk/13°25.4'E **6F**

NOYABRSK, RS **NDB -** HHW 615.000 ZE N63°11.00' E75°16.20' Unk/17°53.3'E Opr
HO. **6F**

NUKUS ACC, UZ **UTNR** (CIV) **(R) CON - 132.2** 132.2 **VHF/DF 5B, C-6E**

NURATA, UZ **NDB -** HW 470.000 HK N40°34.00' E65°42.00' Unk/4°51.7'E **5C**

NYAZEPETROVSK, RS **NDB -** HHW 350.000 NZ N56°03.00' E59°35.00'
Unk/13°24.0'E **6E**

NYURBA ACC, RS **UENN** (CIV) **(R) CON - 133.6** 133.6 **RDO - 4712** (MIRNY ACC for
all hgt.) **6G, H**

ODESA ACC, UP **UKOV** (CIV) **(R) (V) CON -** Sctr 1 - 132.2, Sctr 2 - 126.9, Sctr 3 -
134.675 126.9. Sctr 3 joined to Sctr 2 1900-0600Z or by ATS decision. **1D, 3A, B, 4H**

ODESA INTL, UP **UKOO** MIL/CIV N46°25.61' E30°40.59' 172 UTC+2(+3DT) **4H**
RWY-07 (1815x197 GR5) **RWY-25**
RWY-16L5,33 (9183x184 PEM PCN 33 R/B/X/T) L5,33 **RWY-34**
RWY-18 (CLSD 2950x190 BRI) **RWY-36**

SERVICE - AOE FUEL - (NC-A1)

REMARKS - RSTD - B737-600 and B737-700 acft rstd to one tkof and ldg pro per day with
MTOW 64.76 metric tons and PPR. **CSTMS/IMG -** avbl **MISC -** Fone C+380 48 731 28 25

COMMUNICATIONS - ATIS - 124.8 RADAR - 120.9 127.7 TWR - 125.5 GND - 121.8

NAVAIDS - ODESA VORW-DME - HA 113.950 ODS CH 86(Y) N46°25.80' E30°40.22' At Fld.
197/5°24.0'E

ILS/RADAR - ➔ ILS - BRG 160° LCZR IOD 108.3 GS 3.0° LOM OD 348 LMM D 715. ➔ **ILS -**
BRG 340° LCZR IOE 110.3 GS 3.0° LOM OE 348 LMM E 715.

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OKHA ACC, RS **UHS**H (CIV) (R) **CON** - 119.5 119.5 **RDO** - 3102 ngt 6692 daylt
6G, H

OKHOTSK ACC, RS **UHOO** (CIV) (R) **CON** - 133.6 133.6 2868 3102 6692 7870
6H, 9B

OKTYABRSKY, RS **NDB** - HHW 570.000 FE N54°14.00' E38°54.00' Unk/9°20.0'E
2F-3B

OKTYABRSKY, TI **NDB** - HW 310.000 PR N38°32.00' E68°24.10' Unk/3°54.5'E 5C

OLEKMINSK ACC, RS **UEMO** (CIV) (R) (V) **OLEKMA CON** - 133.4 133.4 **RDO** -
(2986 ngt) (5568 daylt) 4728. (YAKUTSK ACC.) 6G, H

OLEKMINSK, RS **NDB** - HHW 520.000 ON N60°24.30' E120°33.60' Unk/13°04.5'W Opr
HO. 6H

OLENEK, RS **NDB** - HHW 300.000 NL N68°28.40' E112°28.30' Unk/8°45.5'W Opr HO
6G

OLZONY, RS **NDB** - HHW 1020.000 KA N52°57.00' E105°13.00' Unk/3°34.0'W 6G

OMOLON ACC, RS **UHMN** (CIV) (R) **CON** - 132.3 132.3 (Opr 2200-0500Z++
Mon-Fri) 9C

OMSK ACC, RS **UNOO** (CIV) (R) **CON** - Sctr 1 - 132.9 (abv FL266) Sctr 2 - 132.5
(abv FL266) Sctr 3 - 131.2 131.2 (to FL266) **RDO** - 4712. 6F

OMSK, (TSENTRALNY) RS **UNOO** CIV N54°58.02' E73°18.63' 311 UTC+(+7DT) 6F
RWY-06 (9435x270 GRS) RWY-24
RWY-07 L7,20,50 (8202x148 ASP PCN 45 F/C/X/T) L7,20,50 RWY-25
RWY-15 (2380x250 GRS) RWY-33

SERVICE - FUEL - (NC-TS1)

REMARKS - RSTD - First 328' of Rwy 07-25 unuse for tkof.

COMMUNICATIONS - ATIS - 126.4 **START** - 119.0 **TAXIING** - 121.7 **KRUG** - Addn svc as
APP. (R) (V) 119.0 124.0X

NAVAIDS - OMSK NDB - HHW 332.000 RM N54°57.40' E73°13.80' 066° 2.9 NM to Fld.
Unk/11°32.4'E **OMSK NDB** - HHW 332.000 TK N54°58.70' E73°24.40' 259° 3.4 NM
to Fld. Unk/11°31.2'E

ILS/RADAR - ➔ **ILS** - BRG 066° LCZR IRM 108.3 GS 2.7° LOM RM 332. ➔ **ILS** - BRG 246°
LCZR ITK 110.1 GS 3.0° LOM TK 332. ■ **RADAR** - PAR - Call KRUG 119.0.

ONEGA, RS **NDB** - HHW 430.000 OG N63°55.00' E38°07.00' Unk/13°45.4'E Opr
0400-1900Z+-. T-2G

OPALIKHA, RS **NDB** - HHW 565.000 KS N55°50.00' E37°16.00' Unk/9°36.3'E 2F, T-1E

OREL, RS **NDB** - HHW 605.000 UY N52°59.02' E36°06.02' Unk/8°13.5'E Opr HO.. **NDB** -
HHW 605.000 QD N52°59.00' E36°06.00' Unk/8°13.4'E Opr HO. 3B

ORENBURG ACC, RS **UWOO** (CIV) (R) **CON** - 132.0 132.0 **RDO** - (3440 Ngt)
(5586 Days) 4712 **VHF/DF** 5A, B, 6E

ORENBURG, (ORENBURG TSENTRALNY) RS **UWOO** CIV N51°47.75' E55°27.40' 387
UTC+5(+6DT) 6E
RWY-08 L5,36,50 (8212x138 CON PCN 35 R/B/X/T) L5,36,50 RWY-26

SERVICE - FUEL - (NC-TS-1)

REMARKS - MISC - Orenburg ACC serves as APP CON to FL197.

COMMUNICATIONS - ATIS - 126.4 **ACC** - Call ORENBURG CONTROL. 132.0 133.3
(132.0 SCTR 0-180 TO FL197) (133.3 SCTR 180-360 TO FL197) **TWR** - Call START. 128.0
GND - Call TAXIING. 121.7 **ASR** - Call KRUG. 120.4 **REMARKS**: Call ORENBURG KRUG.
GCA - Call TWR. 128.0

ILS/RADAR - ➔ **ILS** - BRG 080° LCZR IWP 109.0 GS 2.4° LOM WP 415. ➔ **ILS** - BRG 260° LCZR
ILM 109.3 GS 2.4° LOM LM 415. ■ **RADAR** - ASR - Call ORENBURG KRUG 120.4 PAR - Call
ORENBURG TWR 128.0

ORENBURG TSENTRALNY, RS See ORENBURG

ORSK ACC, RS **UWOR** (CIV) **CON** - 129.4 129.4 **RDO** - 4720 (ORENBURG ACC)
6E

ORSK, RS **UWOR** CIV N51°04.35' E58°35.74' 909 UTC+5(+6DT) **6E**
RWY-01 (1980x160 GRS) **RWY-19**
RWY-07L9 (9550x150 ASP PCN 30 F/C/X/T) L7,9,20 **RWY-25**
RWY-07R (5840x300 GRS) **RWY-25L**
RWY-16 (2030x170 GRS) **RWY-34**

SERVICE - FUEL - (NC-TS-1)

COMMUNICATIONS - CON - Svc as APP (FL59/FL128). (R) (V) 129.4 123.1
TWR - 122.7

NAVAIDS - ORSK NDB - HHW 385.000 OR N51°05.00' E58°40.20' 247° 2.9 NM to Fld.
Unk/10°13.2'E **ORSK NDB** - HHW 385.000 SF N51°03.60' E58°31.10' 065° 3.0 NM to Fld.
Unk/10°12.3'E **VHF/DF**

ILS/RADAR - ➔ **ILS** - BRG 246° LCZR IOR 108.1 GS 2.4° LOM OR 385 Opr HS.

OSA, RS **NDB** - HHW 420.000 CS N53°23.00' E103°52.00' Unk/2°47.2'W **6G**

OSH ACC, KG **UAFO** (R) **CON** - 121.8 121.8 **RDO** - 4688 **VHF/DF** **5C, D, 7A**

OSH, KG **UAFO** CIV N40°36.54' E72°47.60' 2927 UTC+5(+6DT) **5D, 7A**
RWY-12L7,20 (8576x164 ASP PCN 32 F/C/X/T) L7 **RWY-30**

SERVICE - FUEL - (NC-TS-1) **OIL** - O-MK8P

REMARKS - RSTD - The first (100m) 328' of Rwy 12-30 unusable for tkof. **CAUTION** - Rwy
12/30 clsd 0500-1240 til 31 Dec 05 est.

COMMUNICATIONS - APP - Opr HO. (R) 124.2 **REMARKS**: (R) **TWR** - Opr HO. Call Start.
118.3 **GND** - Opr HO. Call Taxiing. 121.8 **GCA** - Opr HO. Call Krug. 120.6
METEO - Opr HO 134.2

NAVAIDS - OSH NDB - HW 780.000 OU N40°38.20' E72°44.60' 122° 2.8 NM to Fld.
Unk/4°16.7'E Opr HO. **OSH NDB** - HW 780.000 DZ N40°34.82' E72°50.68' 302° 2.9 NM
to Fld. Unk/4°14.8'E

ILS/RADAR - ➔ **ILS** - BRG 122° LCZR IOU 111.1 GS Unk LOM OU 780 Opr HO. ■ **RADAR** -
ASR - Call KRUG 120.6

OSMINO, RS **NDB** - HHW 650.000 OS N59°00.00' E29°07.00' Unk/8°18.6'E Opr HO. **2E**

OSNOVA INTL, (KHARKIV) UP **UKHH** CIV N49°55.49' E36°17.40' 508 UTC+2(+3DT)
3B
RWY-08L5,12 (7285x165 PEM PCN 40 R/C/X/T) L5,11 **RWY-26**

SERVICE - AOE FUEL - (NC-A1)

REMARKS - RSTD - A320 type acft rstd to one tkof and ldg pro per day with MTOW 69.2
metric tons, twy 1 max GWT 69.4 metric tons, twy 2 max GWT 67.0 tons, prk stands 9 and
10 only, prk by tow tractor only. **CSTMS/IMG** - avbl **MISC** - Fone C+380 48 731 28 25

COMMUNICATIONS - KHARKIV RADAR - 118.1 123.7 **KHARKIV TWR** - 118.1
KHARKIV GND - 119.0 **KHARKIV METEO** - 127.6

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NAVAIDS - KHARKIV VORW-DME - HA 116.500 KHR CH 112 N49°55.61' E36°17.12'
At Fld. 538/7°15.0'E

ILS/RADAR - ➔ **ILS** - BRG 083° LCZR IHA 111.7 GS 2.8° LOM HR 330 LMM R 678. ➔ **ILS** -
BRG 263° LCZR IHA GS 2.8° LOM HA 330 LMM A 678. **RADAR** - PAR - Call Precision 118.1

OSSORA ACC, RS **UHPD** (CIV) **(R) CON** - **134.6** 134.6 Opr 2000-0800Z++.
(PETROPAVLOVSK-KAMCHATSKY ACC FL266 and abv) **9B, C**

OSSORA, RS **NDB** - HHW 600.000 OS N59°14.30' E163°04.10' Unk/5°00.2'W Opr HO.
9C

PARUTYNE, UP **NDB** - HHW 905.000 PA N46°41.68' E31°54.20' Unk/5°40.0'E **4H**

PASHKOVSKIY, RS **URKK** CIV N45°02.08' E39°10.23' 118 UTC+3(+4DT) **4J**
RWY-05LL7,20 (7218x160 ASP PCN 20 R/B/X/T) L7,20 **RWY-23R**
RWY-05RL5,24 (9835x145 CON PCN 37 R/B/X/T) L5,24 **RWY-23L**

SERVICE - FUEL - (NC-TS1)

COMMUNICATIONS - KRASNODRA ATIS - 121.8 **KRASNODAR APP** - Opr(E and W sctr
0500-1900Z++) (0-360x 1900-0500Z++) **(R) (V)** 129.6 127.7 129.0X 124.0X (129.6 E sctr
010-155)(127.7 W sctr 155-010)(129.6 0-360 ° fr SM NDB) **KRASNODAR TWR** - Svc as
START. **(R) (V)** 118.2 120.6 (118.2 Rwy 05R-23L)(120.6 Rwy 05L-23R)

KRASNODAR TAXIING - 119.0 **KRASNODAR KRUG** - **(R) (V)** 121.3

NAVAIDS - KRASNODAR NDB - HW 750.000 BA N45°03.80' E39°12.10' 218° 2.2 NM
to Fld. Unk/6°14.0'E **KRASNODAR NDB** - HW 493.000 KR N45°00.30' E39°08.00' 042°
2.4 NM to Fld. Unk/6°13.0'E **KRASNODAR NDB** - HW 750.000 WP N45°00.50'
E39°06.20' 061° 3.3 NM to Fld. Unk/6°13.0'E **KRASNODAR NDB** - HW 493.000 LD
N45°03.90' E39°14.80' 241° 3.7 NM to Fld. Unk/6°14.0'E

ILS/RADAR - ➔ **ILS** - 05R - BRG 047° LCZR IKR 110.7 GS 2.7° LOM KR 493. ➔ **ILS** - 23L - BRG
227° LCZR ILD 109.5 GS 2.7° LOM LD 493.

PAVLIVKA, UP **NDB** - HHW 815.000 PW N47°44.89' E37°13.40' Unk/6°45.0'E **3B**

PAVLODAR, (PAVLODAR SOUTH) KZ **UASP** CIV N52°11.70' E77°04.43'
(43UFT4174684754) 410 UTC+6 **6F**

RWY-03L7,12 (8202x148 CON PCN 31 R/B/X/T) L7,12 **RWY-21**

SERVICE - FUEL - (NC-TS-1) **OIL** - MK-8,MS-20.

REMARKS - Opr HO. **RSTD** - Acft class 5,6 should taxi via twy 1 strictly along the markings.
Acft type IL-76 should taxi under two inner engine pwr. Stands 27-30 unuse.
CSTMS/IMG - Avbl.

COMMUNICATIONS - TWR - 119.8

NAVAIDS - PAVLODAR NDB - HW 440.000 PW N52°13.68' E77°07.42' 214° 2.7 NM to Fld.
Unk/8°55.9'E **PAVLODAR NDB** - HW 440.000 WL N52°09.71' E77°01.47' 033° 2.7 NM
to Fld. Unk/8°55.1'E

ILS/RADAR - ➔ **ILS** - BRG 213° LCZR IPW 110.7 GS 2.4° LOM PW 440.0

PAVLODAR SOUTH, KZ See PAVLODAR

PAVLOVSHINA, RS **NDB** - HW 776.000 PA N56°45.00' E93°34.00' Unk/4°11.5'E **6G**

PAVLOVSK, RS **NDB** - HHW 399.000 SR N53°18.00' E83°00.00' Unk/7°45.6'E **6F**

PECHORA ACC, RS **UUYP** (CIV) **(R) (V) CON** - **133.1** Abv FL290 (Blw FL290
1700-0330Z) . 123.7 Blw FL290 0330-1700Z. **RDO** - (3422 ngt) (5596 daylight) 4712. **6E, F**

PECHORA, RS **NDB** - HHW 330.000 PM N65°07.30' E57°07.80' Unk/20°20.6'E Opr HO.
NDB - HHW 330.000 QH N65°07.30' E57°07.80' Unk/20°20.6'E Opr HO. **6F**

PECHORY, RS **NDB** - HHW 906.000 PE N57°49.00' E27°36.00' Unk/7°26.0'E **2E**

PENZA ACC, RS **UWPP** (CIV) **(R) (V) CON** - **Sctr 0°-180°** - (134.3 129.7X FL266 and abv)(132.6 Blw FL266) **Sctr 180°-360°** - (134.3 FL266 and abv)(132.6 Blw FL266) **RDO** - (5586 daylight)(3440 ngt) 4712. **2G,H, 3C,D, 5A, 6E**

PENZA, RS **NDB** - HHW 591.000 WH N53°07.02' E45°01.00' Unk/10°02.4'E Opr HO.
NDB - HHW 591.000 RN N53°06.60' E45°01.40' Unk/10°02.3'E Opr HO. **3C**

PEREDOVAYA, RS **NDB** - HHW 1210.000 PR N44°07.00' E41°28.00' Unk/6°12.0'E **4J**

PERM ACC, RS **USPP** (CIV) **(R) CON** - **Sctr North - 135.1** 135.1 **Sctr South - 133.7**
133.7 **RDO** - 4712 **6E**

PERM, RS **NDB** - HHW 705.000 BK N57°52.90' E55°57.50' 031° 2.8 NM
to BOLSHOYE SAVINO. Unk/14°26.0'E **NDB** - HHW 705.000 PX N57°57.00' E56°05.40'
212° 3.1 NM to BOLSHOYE SAVINO. Unk/14°29.7'E **6E**

PETROPAVLOVSK-KAMCHATSKY ACC, RS **UHPP** (CIV) **(R) CON** -
135.4 135.4 **RDO** - (5632 6544 10039 11285 daylight) (2964 3401 3407 3443 ngt)
9A, B, C, D

PETROPAVLOVSK, KZ **NDB** - HW 360.000 PT N54°45.20' E69°11.20'
Unk/12°03.4'E **NDB** - HW 360.000 RP N54°47.00' E69°11.00' Unk/12°04.7'E **6E**

PETROPAVLOVSK KAMCHATSKY YELIZOVO, RS See YELIZOVO

PETROVSKOYE, RS **NDB** - HHW 475.000 ZG N51°43.00' E40°11.00' Unk/8°34.8'E
Opr HO. **3C**

PETROZAVODSK ACC, RS **ULPB** (CIV) **CON** - **133.6** 133.6 **131.0x** 131.0x
RDO - 3885. **2E, F-6E**

PETROZAVODSK NORTHWEST, RS See BESOVETS

PEVEK ACC, RS **UHMP** (CIV) **(R) CON** - **134.1** 134.1 Opr 2100-0600Z++ Mon-Fri.
9C, D

PEVEK, RS **UHMP** CIV N69°47.00' E170°35.82' 11 UTC+12(+13DT)
EEA 9D ENAME T-2G
RWY-17 L7,9,20 (8202x138 CON PCN 23 R/A/X/T) **L9 RWY-35**
8042→
SERVICE - FUEL - (NC-TS-1)
REMARKS - Opr 2100-0600Z++ Mon-Thu. **RSTD** - Afd for emerg ldg of flt opr along the
cross-polar rte. **RWY** - Fst 164' of Rwy 17/35 unuse for tkof.
COMMUNICATIONS - APP - Opr 2100-0600Z++ Mon-Fri. Call KRUG. Svc as APP, START,
and TAXIING. 124.2
NAVAIDS - PEVEK NDB - HHW 272.000 PK N69°49.30' E170°34.10' 166° 2.4 NM to Fld.
Unk/0°52.2'W Opr 2100-0600Z++ **PEVEK NDB** - HHW 272.000 BM N69°44.10'
E170°37.60' 349° 3.0 NM to Fld. Unk/0°50.3'W Opr 2100-0600Z++
ILS/RADAR - ➔ **ILS** - BRG 347° LCZR IBM 108.3 GS 2.5° LOM BM 272 Opr 2100-0600Z++.

PHOENIX INTL, (FENGHUANG SANYA) CH **ZJSY** CIV N18°18.17' E109°24.74' 92
UTC+8 **8E**
RWY-08 L4,5,11,50 (11155x148 CON PCN 78 R/B/W/T) **L4,5,12,50 RWY-26**
SERVICE - FUEL - (NC-J)

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REMARKS - Opr HS or O/R. **RSTD** - 180° on rwy proh. **CSTMS/AG/IMG** - Avbl.

COMMUNICATIONS - **FENGHUANG TWR** - Opr HO. 118.15 130.0

NAVAIDS - **SANYA VORW-DME** - HA 112.500 SYX CH 72 N18°18.40' E109°10.40' 091°
13.6 NM to Fld. 1476/1°8.0'W Opr HO. **BAOLONG NDB** - HHW 426.000 WL N18°29.30'
E109°24.30' 178° 11.1 NM to Fld. Unk/1°11.0'W Opr HO.

ILS/RADAR - ➔ **ILS-DME** - BRG 082° LCZR IKK 109.5 CH 32 GS 3° Opr HO.

PIL, UP **NDB** - HHW 425.000 PI N49°52.39' E31°07.40' Unk/6°15.0'E **1D,3A, T-1F**

PINGZHOU, CH **VORW-DME** - HA 114.100 POU CH 88 N23°01.20' E113°11.40'
20/2°15.0'W Opr HO. **NDB** - HW 353.000 XK N23°01.20' E113°11.40' 20/2°15.0'W Opr
HO. **7D, 8E**

PINSK, BO **VORW-DME** - L 113.400 PNK CH 81 N52°09.20' E26°07.90' 476/(A)4°00.0'E
1C

PIXIAN, CH **VORW-DME** - HA 117.800 PIX CH 125 N34°18.90' E117°58.80' 98/5°22.0'W
Opr HO. **7C, 8G**

POCHINOK, RS **NDB** - HHW 375.000 DB N57°43.00' E34°58.00' Unk/9°44.5'E **2F**

PODKAMENNAYA TUNGUSKA ACC, RS **UNIP** (CIV) **(R) (V) TUNGUS**
CON - 133.2 **6F, G**

PODKAMENNAYA TUNGUSKA, RS **VORW-DME** - HA 113.400 PTG CH 81
N61°35.90' E89°59.40' 213/(A)10°00.0'E **NDB** - HHW 342.000 AB N61°35.50' E89°56.50'
Unk/9°08.8'E **6G**

PODSTEPNYY, KZ See URALSK

POLIARNY ACC, RS **UERP** (CIV) **(R) CON** - **132.1** 132.1 (MIRNY ACC for all hgt.)
6G

POLIARNY, RS **UERP** CIV N66°24.03' E112°01.82' 1660 UTC+9(+10DT) **6G**
RWY-17L7 (10170x138 CON PCN 25 R/A/W/T) **L7,20 RWY-35**

SERVICE - **FUEL** - (NC-TS1)

REMARKS - Opr 2230-1330Z++, **RSTD** - First 328' of Rwy 17-35 unuse for tkof. **MISC** -
Afld for emerg ldg of flt opr along the cross-polar rte.

COMMUNICATIONS - **CON** - Also svc as START and LANDING. **(V)** 132.1 124.0X

METEO - Opr 2230-1430Z++. 127.2

NAVAIDS - **POLIARNY NDB** - HW 525.000 WN N66°22.20' E112°04.00' 334° 2.0 NM to Fld.
Unk/8°43.0'W

ILS/RADAR - ➔ **ILS** - BRG 056° LCZR IPU 108.1 GS 2.7° LOM WN 525 Opr HO.

POTOU, CH **VORW-DME** - HA 115.900 BTO CH 106 N38°06.50' E116°34.70' 50/5°55.0'W
Opr HO. **NDB** - HW 370.000 PM N38°05.00' E116°33.00' Unk/5°54.0'W Opr HO. **7C, 8G**

PRETORIA, RS **NDB** - HHW 730.000 PO N52°15.00' E54°19.00' Unk/10°42.6'E Opr HO.
5A, 6E

PROVIDENIYA BAY, RS **NDB** - HHW 960.000 BC N64°22.60' W173°14.60'
Unk/9°02.9'E Opr MON-FRI 2100-0400Z++ **VHF/DF 9D**

PSKOV, RS **ULOO** CIV N57°47.04' E28°23.74' 154 UTC+3(+4DT) **2E**
RWY-01L7 (6562x144 CON PCN 70 R/B/X/T) **L7,20 RWY-19**
RWY-01R (5578x144 GRE) **RWY-19L**

SERVICE - FUEL - (NC-TS1)

REMARKS - Opr 0600-1500Z++ Mon-Fri.

COMMUNICATIONS - TWR - Opr HO. 122.0

NAVAIDS - **PSKOV NDB** - HW 300.000 NP N57°49.60' E28°25.40' 199° 2.7 NM to Fld.
Unk/7°42.0'E Opr HO. **PSKOV NDB** - HW 300.000 PK N57°44.30' E28°22.20' 009°
2.9 NM to Fld. Unk/7°39.0'E Opr HO.

PUDONG, (SHANGHAI INTL) CH **ZSPD** CIV N31°08.60' E121°48.31' 13 UTC+8 **7D,8F**
RWY-16 L2,3,4,10,50 (12467x197 CON PCN 109 R/B/W/T) L2,3,4,10,50 **RWY-34**
RWY-17 L2,3,4,5,10,50 (13123x197 CON PCN 121 R/B/W/T) L2,3,4,5,10,50 **RWY-35**

SERVICE - FUEL - (NC-A1)

REMARKS - Opr HS or O/R **RSTD** - SSR transponder rqr for tkof and ldg. **CAUTION** - 33 cranes working btn Rwy. Fm Rwy thld to 3800' on CL, hgt up to 150', mrk with flags and red lgts. Till Mar 06. **CSTMS/AG/IMG** - Avbl.

COMMUNICATIONS - ATIS - Opr H24. 127.85 **SHANGHAI APP SCTR 2** - Opr H24. 119.75 120.8 **SHANGHAI APP SCTR 1** - Opr H24. 120.3 120.8
SHANGHAI APP SCTR 3 - OPR 121.3 (119.2) 0001-1400, 119.75 (120.8) 1401-2400 121.3 119.2 119.75 120.8 **SHANGHAI APP SCTR 4** - OPR 0030-1430 123.8 119.2
TWR EAST - Opr H24. 118.4 124.35 TOWER EAST **TWR WEST** - Opr H24 118.8 124.35
TWR WEST GND EAST - Opr H24. 121.8 121.7 GND EAST **GND WEST** - Opr H24 121.65 121.7 GND WEST **DEL** - OPR 0001-1200Z 121.95 121.7

NAVAIDS - PUDONG VORW-DME - HA 116.900 PUD CH 116 N31°10.10' E121°46.80' 139° 2.0 NM to Fld. 13/5°18.0'W Opr HO. **SHUYUAN VORW-DME** - HA 113.600 SHY CH 83 N30°57.00' E121°51.70' 346° 11.9 NM to Fld. 18/5°15.0'W Opr HO.
NANHUI VORW-DME - HA 114.600 NHW CH 93 N31°04.90' E121°34.40' 073° 12.5 NM to Fld. 21/5°14.0'W Opr HO. **HENGSHA VORW-DME** - HA 114.400 HSH CH 91 N31°22.10' E121°50.60' 188° 13.6 NM to Fld. 13/5°22.0'W Opr HO.

ILS/RADAR - ➔ **ILS-DME** - BRG 167° LCZR IPD 110.7 CH 44 GS 3.0 Opr HO. ➔ **ILS-DME** - BRG 347° LCZR INN 111.9 CH 116 GS 3.0° Opr HO.

PUGUS, TI **NDB** - HW 505.000 SX N38°50.60' E68°50.40' Unk/3°59.0'E Opr HO. (Marks mountain pass) **5C**

PULKOVO, (SAINT PETERBURG) RS **ULLI** CIV N59°48.02' E30°15.75' 78 UTC+3(+4DT) **2E**

RWY-10L L2,5,11,50 (CLSD 11146x197 CON PCN 74 R/C/W/U) L2,5,11,50 **RWY-28R**
RWY-10R L2,3,4,5,10,50 (12402x197 CON PCN 56 R/C/X/T) L2,4,5,11,50 **RWY-28L**

SERVICE - FUEL - (NC-TS1)

REMARKS - **RSTD** - First 328' of all rwy unuse for tkof. **CAUTION** - Do not confuse lgth hwy with Rwy 28L or 28R.

COMMUNICATIONS - ATIS - 127.3 **PETERBURG APP** - (Sctr 0-180 and Sctr 180-360 Opr 0400-2000Z++)(Sctr 0-360 Opr 2000-0400Z++) **(R) (V)** 129.8 125.2 128.0X 129.0X (129.8 Sctr 0-180 and 0-360)(125.2 Sctr 180-360) **TWR - (R) (V)** 118.1 118.7 128.0X 129.0X (118.1 Rwy 10L-28R)(118.7 Rwy 10R-28L) **REMARKS**: Call START. **TAXIING** - 121.7
KRUG - (R) (V) 120.3 128.0X 129.0X

NAVAIDS - **SANKT-PETERBURG VORW-DME** - HA 113.400 SPB CH 81 N59°48.40' E30°17.10' At Fld. 79/(A)7°00.0'E **PULKOVO NDB/LOM** - HW 303.000 PU N59°49.30' E30°10.50' 116° 2.9 NM to Fld. Unk/8°57.0'E **PULKOVO NDB/LOM** - HW 277.000 PO N59°46.90' E30°21.00' 293° 2.9 NM to Fld. Unk/9°0.0'E **PULKOVO NDB/LOM** - HW 525.000 PL N59°47.50' E30°22.40' 279° 3.4 NM to Fld. Unk/9°1.0'E
PULKOVO NDB/LOM - HW 342.000 PK N59°48.60' E30°09.00' 100° 3.5 NM to Fld. Unk/8°59.0'E

ILS/RADAR - ➔ **ILS** - Rwy 10L BRG 099° LCZR IPU 110.5 GS 2.7° LOM PU 303. ➔ **ILS** - Rwy 28R BRG 279° LCZR IPL 111.3 GS 2.7° LOM PL 525. ➔ **ILS** - Rwy 10R BRG 099° LCZR IPK 111.9 GS 3.0° LOM PK 342. ➔ **ILS** - Rwy 28L BRG 279° LCZR IPO 108.9 GS 2.7° LOM PO 277.

PYONGYANG ACC/FIC, KN **ZK KP CON** - 120.9 **RDO** - 10039 5664 **8G**

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PYONGYANG INTL, (SUNAN INTL) KN **ZKPY** CIV N39°13.44' E125°40.21' 117

UTC+9 **8G**

RWY-01 L2,3,4,6,9,10,50

(12475x197 CON PCN 53 R/A/W/U)

L2,3,4,6,9,10,50 **RWY-19**

RWY-17

(CLSD 11490x230 CON

RWY-35

PCN 50 R/A/W/U)

SERVICE - AOE **LGT** - Rwy 01 PAPI 2.83° GS. **FUEL** - (NC-A1)

REMARKS - Opr 2100-1300Z sum; 2200-1200Z win; OT 3 working days PN. **MISC** - Rwy 17-35 clsd UFN.

COMMUNICATIONS - **APP** - 130.0 **TWR** - 118.3 **GND** - 121.8

NAVAIDS - **PYONGYANG VORW-DME** - HA 111.400 GK CH 51 N39°14.03' E125°40.35'

At Fld. 92/(A)8°00.0'W

PYONGYANG NDB - HW 320.000 WK N39°19.33' E125°40.62'

191° 5.9 NM to Fld. Unk/8°10.7'W

ILS/RADAR - ➔ **ILS** - BRG 008° LCZR LW 109.9 GS 2.83° ➔ **ILS** - BRG 188° LCZR GE 109.5 GS 3° ■ **RADAR** - PAR 121.8

QIANXI, CH **VORW-DME** - HA 113.100 QNX CH 78 N27°02.50' E106°01.80'

4140/1°46.0'W Opr HO. **7C, 8E**

QIFENGLING, CH **NDB** - MHW 417.000 Y N25°10.10' E110°19.30' Unk/2°12.0'W Opr HO. **7C, 8E**

QIJIANG, CH **VORW-DME** - HA 112.700 QJG CH 74 N29°02.80' E106°39.20'

1012/2°4.0'W Opr HO.

NDB - MHW 642.000 HQ N29°02.80' E106°39.60' Unk/2°5.0'W

Opr HO. **7C, 8F**

QINGBAIKOU, CH **NDB** - HW 422.000 CD N40°00.50' E115°48.00' Unk/6°9.0'W Opr HO. **7C, D, 8G**

QINGDAO ACC, CH **ZSQD** (CIV) **CON** - **128.15** 128.15 **126.15** 126.15 Opr HO. 6571 (8897 0001-1200Z) (3016 1201-2400Z) **7C, 8G**

QINGDAO, CH **VORW-DME** - HA 117.500 TAO CH 122 N36°17.10' E120°22.20' 169° 1.2 NM to LIUTING. 60/6°22.0'W Opr HO. **7C-8G**

QINGSHAN, (XICHANG) CH **ZUXC** CIV N27°59.34' E102°11.06' 5112 UTC+8 **7C, 8E**
RWY-18 L5,12,50 (11811x164 CON PCN 56 R/B/W/T) L5,11,50 **RWY-36**

SERVICE - **FUEL** - (NC-J)

REMARKS - Opr HS or O/R. **RSTD** - Arpt not auth for altn flt. **CAUTION** - Mtn terrain.

COMMUNICATIONS - **XICHANG TWR** - Opr HO. 130.0 118.2

NAVAIDS - **XICHANG VORW-DME** - HA 114.200 XIC CH 89 N27°59.90' E102°10.80' At Fld.

5121/1°18.0'W Opr HO. **HEXI NDB** - HW 319.000 SB N27°44.20' E102°09.80' 004°

15.1 NM to Fld. Unk/1°17.0'W Opr HO.

ILS/RADAR - ➔ **ILS-DME** - BRG 360° LCZR IGO 109.3 CH 89 GS 3.0° LOM GO 627 Opr HO.

QINGZHOU, CH **NDB** - HW 331.000 DO N26°32.70' E117°59.20' Unk/3°37.0'W Opr HO. **8F**

QIQIHAR, CH **VORW-DME** - HA 112.900 NDG CH 76 N47°14.50' E123°55.30'

At SANJIAZI. 459/10°15.0'W

NDB - HW 177.000 LJ N47°11.70' E123°56.80'

Unk/10°15.0'W **6H, 8H**

QUNLI, CH **NDB** - HW 276.000 GT N31°47.00' E119°03.10' 256° 10.0 NM to LUKOU. 100/5°0.0'W Opr HO **8F**

RASHIVKA, UP **NDB** - HHW 672.000 RS N50°12.79' E33°53.00' Unk/6°53.0'E **1D, 3B**

RAZDOLYE, RS **NDB** - HHW 635.000 BD N52°26.00' E103°12.00' Unk/2°24.7'W **6G**

RIVNE INTL, UP **UKLR** CIV N50°36.43' E26°08.50' 755 UTC+2(+3DT) **1C**
RWY-05 (2150x65 ASP) **RWY-23**
←1875
RWY-12L7,12 (8615x138 CON PCN 23 R/B/X/T) L7,12 **RWY-30**
SERVICE - FUEL - (NC-A1)
REMARKS - Opr 0600-1800Z++ O/R NLT 1700Z++. **CSTMS/IMG** - avbl 0600-1800Z++
COMMUNICATIONS - TWR - 123.7
ILS/RADAR - ➔ **ILS** - BRG 115° IRW 111.1 GS 2.7° LOM RW 330 LMM W 678.

ROSCHINO, (TYUMEN NORTHWEST) RS **USTR** CIV N57°11.37' E65°19.46' 378
UTC+6(+7DT) **6E**
RWY-03L7,20,50 (9852x148 CON PCN 63 R/C/X/T) L5,33,50 **RWY-21**
RWY-12L7,20 (8871x164 ASP PCN 64 R/C/X/T) L7,20 **RWY-30**
SERVICE - FUEL - (NC-TS-1)
REMARKS - **RWY** - First 328' of Rwy 03-21 unuse for tkof.
COMMUNICATIONS - TYUMEN ATIS - 121.7 **TYUMEN APP** - (R) 126.1 **TWR** - Call
TYUMEN START. 118.2 **GND** - Call Tyumen TAXIING. 119.0 **ASR** - Call TYUMEN KRUG.
(R) 120.4
NAVAIDS - ROSCHINO NDB - HHW 290.000 XZ N57°12.90' E65°17.40' 130° 1.9 NM to Fld.
Unk/14°12.7'E Opr HO. **ROSCHINO NDB** - HHW 315.000 QF N57°12.80' E65°22.05'
210° 2.0 NM to Fld. Unk/14°12.3'E **ROSCHINO NDB** - HHW 315.000 RN N57°08.80'
E65°14.05' 035° 3.9 NM to Fld. Unk/14°09.7'E **VHF/DF**
ILS/RADAR - ➔ **ILS** - BRG 034° LCZR IRN 108.3 GS 2.7° LOM RN 315 Opr HO. ➔ **ILS** - BRG
214° LCZR IQF 110.7 GS 2.7° LOM QF 315 Opr HO. ■ **RADAR** - ASR - Call TYUMEN KRUG
120.4

ROSCHINO, RS **NDB** - HHW 325.000 TD N45°53.00' E134°53.00' Unk/10°49.1'W
8H, 9A

ROSTOV-NA-DONU ACC, RS **URRV** (CIV) (R) **ROSTOV CON** - 124.9X 134.9X
Sctr 1 - 133.6 **Sctr 1A** - 135.4 **Sctr 2** - 125.5 **Sctr 3** - 122.5 **Sctr 3A** - 130.5 **Sctr 4** - 133.3
Sctr 5 - 135.6 132.6X **Sctr 6** - 122.9 **Sctr 7** - 127.5 **Sctr 8** - 122.3 **Sctr 9** - 126.1 132.9X **Sctr**
10 - 127.9 **Sctr 11** - 118.7 **Sctr 12** - 134.6 **ROSTOV RDO** - (5487 daylight) (2926 ngt) 4712.
3C, D, 4I, J, 5A

ROSTOV NA DONU, RS **URRR** CIV N47°15.49' E39°49.09' 280 UTC+3(+4DT) **3C**
RWY-04L3,4,5,27 (8202x148 CON PCN 33 R/C/W/T) L4,5,36 **RWY-22**
RWY-04R (6400x245 GRs) **RWY-22L**
RWY-08 (4330x280 GRs) **RWY-26**
SERVICE - FUEL - (NC-TS1)
COMMUNICATIONS - ATIS - 121.7 **APP** - (127.1 Opr H24 Sum, 0400-1900Z Win)(128.2
Opr H24 and 1900-0400Z Win) (R) (V) 127.1 128.2 124.0X (127.1 Sctr 040-220)(128.2 Sum
sctr 220-040 and Win sctr 0-360) **TWR** - Call START. 119.7 **TAXIING** - 119.0
RADAR - (R) (V) 121.2
NAVAIDS - ROSTOV-NA-DONU NDB/LOM - HW 320.000 RW N47°17.50' E39°52.00'
225° 2.8 NM to Fld. Unk/7°0.0'E **ROSTOV-NA-DONU NDB/LOM** - HW 320.000 RN
N47°13.50' E39°46.20' 038° 2.8 NM to Fld. Unk/6°56.0'E
ILS/RADAR - ➔ **ILS** - BRG 039° LCZR IRN 110.5 GS 2.7° LOM RN 320. ➔ **ILS** - BRG 219° LCZR
IRW 110.3 GS 2.7° LOM RW 320. ■ **RADAR** - PAR - Call PADAR 121.2.

RUSSKY KAMESHKIR, RS **NDB** - HHW 554.000 OG N52°51.00' E46°05.00'
Unk/10°05.0'E **3C, 6E**

RYAZANSKAYA, RS **NDB** - HHW 312.000 XT N44°58.00' E39°34.00' Unk/6°15.4'E
Opr 0500-1900Z++ exc Sun and Hol. **4J**

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SAINSHAND, MG NDB - HHW 380.000 DN N44°54.25' E110°07.59' 3000/5°06.4'W
7C, 8G

SAINT PETERBURG, RS See PULKOVO

SALEHARD NORTH, RS See SALEKHARD

SALEKHARD ACC, RS USDD (CIV) **(R) (V) CON** - (132.3 FL266 and abv.) (132.3 all
alt Opr 1700-0200Z++.) (125.2 blw FL266 Opr 0200-1700Z++.) **6F**

SALEKHARD, (SALEHARD NORTH) RS USDD CIV N66°35.45' E66°36.66' 218
UTC+5(+6GT) **6F ENAME T-2G**
RWY-04 L5,9,33,50 (8917x151 CON PCN 31 R/B/X/T) L5,9,33,50 **RWY-22**

REMARKS - Opr 0300-1500Z++. **RSTD** - Afl'd for emerg ldg of flt opr along the cross-polar
rte.

COMMUNICATIONS - **ASR** - Call KRUG. 120.8 **TWR** - Call START. 118.6

NAVAIDS - **SALEKHARD VORW-DME** - HA 113.300 SH CH 80 N66°35.30' E66°36.40'
At Fld. 218/22°41.1'E **SALEKHARD NDB** - HHW 315.000 DM N66°36.70' E66°42.30'
218° 2.6 NM to Fld. Unk/22°42.6'E **SALEKHARD NDB** - HHW 315.000 NA N66°34.00'
E66°30.40' 037° 2.9 NM to Fld. Unk/22°39.8'E

ILS/RADAR - ➔ **ILS** - BRG 037° LCZR INA 111.5 GS 3.0° LOM NA 315. ➔ **ILS** - BRG 217° LCZR
IDM 111.3 GS 3.0° LOM DM 315. par

SAMARA ACC, RS UWWW (CIV) **(R) (V) CON** - 128.7X 132.9X **Sctr 1 S** - 121.3 **Sctr 2**
W - 132.3 **Sctr 3 E** - 134.7 **RDO** - 4712 **2G, H, 3C, D, 5A, 6E**

SAMARA, RS NDB/LOM - HW 287.000 AZ N53°27.70' E50°12.30' 331° 3.0 NM
to KURUMOCH. Unk/11°0.0'E **NDB** - HW 287.000 BE N53°28.80' E50°04.70' 064° 3.4 NM
to KURUMOCH. Unk/11°0.0'E **NDB/LOM** - HW 287.000 FK N53°31.60' E50°13.30' 238°
2.4 NM to KURUMOCH. Unk/11°1.0'E **NDB/LOM** - HW 287.000 WG N53°33.20'
E50°08.90' 169° 3.0 NM to KURUMOCH. Unk/11°1.0'E **2H, 6E**

SAMARKAND ACC, UZ UTSD **(R) (V) CON** - **Sctr 240°-075°** - **134.3** 134.3 **Sctr**
075°-240° - (**134.3** 134.3 Opr 0100-1700Z++, FL256 and abv) (**134.3** 134.3 Opr
1700-0100Z++.) (**135.1** 135.1 Opr 0100-1700Z++ up to FL256.) **RDO** - 3467 5658 10018
4728 **VHF/DF 5C**

SAMARKAND, UZ UTSS CIV N39°42.03' E66°59.03' 2224 UTC+5 **5C**
RWY-09 L2,7,11,50 (10170x161 ASP PCN 46 R/B/X/T) L7,20,50 **RWY-27**

SERVICE - **FUEL** - (NC-TS-1) **FLUID** - OX **OIL** - O-MK8P

REMARKS - **MISC** - Part of main Twy btn Twy 1 and 2 unused for B-727 and C-130 type acft.
Twy 3 open to AN-2, YAK-40 and smaller type acft only. Taxiing acft use the flw:
B767-300, B757-200, A310, IL62 via twy 2 only. TU-154, IL-76, AN-12 and blw class acft via twy
1, 2, 4 only. RJ-85 via twy 1, 2. AN-24, YAK-40 and blw class via all twy.

COMMUNICATIONS - **APP** - 120.8 **REMARKS:** (R) **TWR** - 118.3

NAVAIDS - **SAMARKAND NDB/LOM** - HW 355.000 MZ N39°42.40' E66°55.20' 093°
3.2 NM to Fld. Unk/4°26.7'E **VHF/DF**

ILS/RADAR - ➔ **ILS** - BRG 091° LCZR IMZ 109.5 GS 3° LOM MZ 355 ■ **RADAR** - **ASR** - Call
SAMARKAND KRUG 120.8

SAMBEK, RS NDB - HHW 414.000 SB N47°45.00' E39°48.00' Unk/7°06.6'E **3C**

SANGAR ACC, RS UEMS (CIV) **CON** - 120.8 Opr 2330-0800Z Mon-Fri. **RDO** - 4712
Opr 2330-0800Z Mon-Fri. **6H**

SANGER, RS NDB - HHW 460.000 LM N63°57.60' E127°25.90' Unk/15°58.3'W **6H**

SANJIANG, CH **NDB** - HW 249.000 RO N25°46.10' E109°36.40' Unk/2°11.0'W Opr
HO. **7C, 8E**

SANJIAZI, (QIQIHAR) CH **ZYQQ** MIL/CIV N47°14.38' E123°55.09' 477 UTC+8 **6H,8H**
RWY-17 L5,12 (8530x148 CON PCN 45 R/B/X/T) L5,11 **RWY-35**

REMARKS - **RSTD** - No 180° turns on twy. No 180° turns mid rwy for MD-82 and heavier acft.
Rwy 35 thld lgt displ 656'. **CAUTION** - Con twr prior to eng run up.

COMMUNICATIONS - **QIQIHAR** - OPR HO 130.0

NAVAIDS - **QIQIHAR VORW-DME** - HA 112.900 NDG CH 76 N47°14.50' E123°55.30'
At Fld. 459/10°15.0'W

SANKT-PETERBURG ACC, RS **ULLL** (CIV) **(R)(V) PETERBURG CON** - **Sctr**
004°-094° - 129.25 **Sctr 094°-123°-062°** - 127.7 Opr 0600-2000Z. **Sctr 123°-062°-179°** -
135.6 Opr 0600-2000Z. **Sctr 094°-179°** - 135.6 Opr 2000-0600Z. **Sctr 179°-240°** - 126.9
Opr 0600-2000Z. **Sctr 179°-004°** - 126.9 Opr 2000-0600Z. **Sctr 240°-004°** - 135.4 Opr
0600-2000Z. **PETERBURG RDO** - 9024 4672. **2E, F, 6E**

SANKT PETERBURG, RS **VORW-DME** - HA 113.400 SPB CH 81 N59°48.40'
E30°17.10' At PULKOVO. 79/(A)7°00.0'E **2E**

SANXIA, CH **VORW-DME** - HA 116.900 YIH CH 116 N30°33.80' E111°28.70'
637/3°14.0'W Opr HO. **7C,8F**

SANYA ACC, CH **ZJSA** CAAC **(V) CON** - **AREA 1** - 134.5 122.9 **AREA 2** - 122.6
123.65 **AREA 3** - 130.2 134.4 **RDO** - (5655 13309 Opr HO) (8942 11396 Opr SR-SS) (3485
5649 Opr SS-SR) **8E**

SANYA, CH **VORW-DME** - HA 112.500 SYX CH 72 N18°18.40' E109°10.40' 091° 13.6 NM
to PHOENIX INTL. 1476/1°8.0'W Opr HO. **8E**

SANYUAN, CH **NDB** - HW 202.000 OD N34°35.90' E108°55.00' 222° 12.2 NM
to XIANYANG. Unk/3°14.0'W Opr HO. **7C, 8F**

SANZAO, CH **NDB** - MHW 272.000 U N21°59.10' E113°21.40' 90/2°7.0'W Opr HO. **8E**

SARATOV ACC, RS **UWSS** (CIV) **(R) (V) CON** - **135.9** (Above FL282) 120.9 (Blw
FL282) **RDO** - 4712 (SAMARA ACC) **3D, 5A, 6E**

SARATOV, RS **NDB** - HHW 427.000 OH N51°35.50' E45°59.10' 116° 2.8 NM
to TSENTRALNY. Unk/9°28.3'E **NDB** - HHW 427.000 DK N51°32.60' E46°05.90' 295°
2.3 NM to TSENTRALNY. Unk/9°27.9'E **NDB** - HHW 479.000 SA N51°34.60' E46°01.50'
122° 1.1 NM to TSENTRALNY. Unk/9°28.2'E **3D, 5A**

SAVELOVO, RS **NDB** - HHW 1285.000 SW N56°22.00' E37°26.00' Unk/9°52.5'E
2F, H, T-1E

S DARIAUS, (S GIRENO) LH **EYKS** CIV N54°52.79' E23°52.89' 246 UTC+2(+3DT) **1C**
RWY-09L (2756x197 GRS) **RWY-27R**
RWY-09R (3707x164 ASP) **RWY-27L**

REMARKS - Opr SR-SS Mon-Sun. **CAUTION** - Gldr and prcht act.

COMMUNICATIONS - **KAUNAS APCH** - Opr 0500-2000Z++, OT O/R. **(R) (V)** 124.2
KAUNAS TWR - Opr 0500-2000Z++, OT O/R. **(V)** 118.5 **ALEKSOTAS INFO** - 125.0
135.5 **KAUNAS INFO** - 124.6

SELIKHINO, RS **NDB** - HHW 615.000 XR N50°23.00' E137°33.00' Unk/12°05.0'W Opr
2200-1000Z+-. **9A**

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SEMENIVKA, UP **NDB** - HHW 435.000 SM N52°11.59' E32°32.69' Unk/7°11.0'E
1D, 3A

SEMIPALATINSK ACC, KZ **UASS** (CIV) **CON** - 132.1 132.1 **6F, 7A, B**

SEMIPALATINSK, KZ **UASS** CIV N50°21.08' E80°14.06' (44UMA4553077972) 761
UTC+6(+7DT) **6F**
RWY-02 (3270x253 CON) **RWY-20**
RWY-08 L7,20 (10159x145 CON PCN 26 R/B/X/T) L7,20 **RWY-26**
SERVICE - FUEL - (NC-TS-1) **FLUID - OX OIL - MS-8**
REMARKS - Arpt Opr 0200-1100Z++ til 27 Mar 04 est. **MISC** - Semipalatinsk CON
functions as App on 132.1
COMMUNICATIONS - TWR - 128.0 **REMARKS**: (Twr functions as Rdr and Gnd also).
NAVAIDS - SEMIPALATINSK NDB/LOM - HW 418.000 SP N50°21.42' E80°18.99' 256°
3.2 NM to Fld. Unk/7°06.4'E
ILS/RADAR - ➔ **ILS** - BRG 256° LCZR ISP 110.3 GS 2.4° LOM SP 418

SERDAR, TX **NDB** - HW 445.000 RJ N39°00.00' E56°18.00' Unk/4°48.1'E **5B**

SEREDNIE, UP **NDB** - MHW 690.000 SR N48°31.98' E22°30.89' Unk/4°13.0'E **1B**

SERGELI, UZ **NDB** - HW 743.000 SR N41°11.00' E69°12.00' Unk/4°49.6'E **5C**

SEROV, RS **NDB** - HHW 490.000 SE N59°33.00' E60°34.00' Unk/16°02.7'E **6E**

SEVAN, AM **NDB** - HW 490.000 SVN N40°32.06' E44°57.29' Unk/5°24.7'E **5A**

SEVEROURALSK ACC, RS **USSE** (CIV) **(R) (V) CON** - 131.3 131.3
(YEKATERINBURG ACC for all hgt.) **6E, F**

S. GIRENO, LH See S DARIAUS

SHACHE, CH **VORW-DME** - HA 113.300 SCH CH 80 N38°25.70' E77°14.40' 4052/3°2.0'E
Opr HO. **NDB** - MHW 569.000 SC N38°26.00' E77°16.00' Unk/3°2.0'E Opr O/R. **5D, 7A**

SHAFRANOVO, RS **NDB** - HHW 1049.000 LP N53°58.00' E54°47.00' Unk/11°45.2'E
Opr HO. **6E**

SHAHE, CH **NDB** - HW 555.000 CU N40°07.50' E116°22.20' Unk/6°19.0'W Opr HO.
7C, D-8G

SHALKAR, KZ **NDB** - HW 440.000 EL N47°50.02' E59°31.18' Unk/8°27.0'E **5B, 6E**

SHANGHAI ACC, CH **ZSHA** (CIV) **CON** - (**AREA 1 - 124.55** 124.55 **127.65** 127.65) (**AREA 2 - 126.85** 126.85 **127.65** 127.65 0001-1400Z) (**AREA 3 - 133.25** 133.25 **123.7** 123.7) (**AREA 4 - 125.95** 125.95 **123.7** 123.7 0001-1400Z) (**AREA 5 - 132.75** 132.75 **127.55** 127.55 0001-1400Z) (8897 0001-1200Z) (3016 1201-2400Z) (6571 Opr HO.)
7C,D 8F,G

SHANGHAI HONGQIAO, CH See HONGQIAO INTL

SHANGHAI INTL, CH See PUDONG

SHANGRAO, CH **VORW-DME** - HA 114.000 SHR CH 87 N28°25.00' E117°58.00'
224/4°2.0'W Opr HO. **8F**

SHANTOU, CH **VORW-DME** - HA 112.600 SWA CH 73 N23°26.40' E116°46.20'
11/2°47.0'W Opr HO. **8F**

SHARANGA, RS **NDB** - HHW 643.000 RZ N57°11.00' E46°31.00' Unk/12°27.9'E
2G, 6E

SHAZIYING, CH **VORW-DME** - HA 117.200 SZY CH 119 N40°06.10' E116°27.70' 103°
5.8 NM to CAPITAL INTL. 17/6°22.0'W Opr HO. **7D**

SHEKOU, CH **VORW-DME** - HA 115.900 SHK CH 106 N22°29.90' E113°54.10'
1142/2°16.0'W Opr HO. **7D**

SHENKURSK, RS **NDB** - HHW 312.000 S N62°07.00' E42°54.00' Unk/14°25.5'E Opr
0500-1200Z++. **6E**

SHENYANG ACC, CH **ZYSH** (CIV) **CON** - (E Sctr - **118.9** 118.9 **124.85** 124.85
Opr HO.) (W Sctr - **120.95** 120.95 **124.85** 124.85 Opr HO.) (8897 Opr 0001-1200Z) (3016
Opr 1201-2400Z) 6571 **6H, 7C, 8G, H**

SHENYANG, CH **VORW-DME** - HA 114.100 SEY CH 88 N41°38.30' E123°28.80'
At TAOXIAN. 632/8°30.0'W Opr HO. **8G**

SHENZHEN, CH **VORW-DME** - HA 115.300 SZX CH 100 N22°38.70' E113°48.20'
At BAOAN INTL. 98/2°17.0'W Opr HO. **NDB** - HW 253.000 QJ N22°47.70' E113°43.80'
154° 10.3 NM to BAOAN INTL. Unk/2°17.0'W Opr HO. **7D**

SHEPETIVKA, UP **NDB** - HHW 830.000 SW N50°10.88' E27°02.49' Unk/5°28.0'E **1C**

SHERABAD, UZ **NDB** - HW 340.000 HA N37°41.00' E67°02.00' Unk/3°43.0'E **5C**

SHEREMETYEVO, RS **UUEE** CIV N55°58.36' E37°24.88' 622 UTC+3(+4DT)
2F, H, T-1E
RWY-07L L4,5,39,50 (11647x197 CON PCN 70 R/B/W/T) L3,4,5,27,50 **RWY-25R**
RWY-07R L3,4,5,27,50 (12139x197 CON PCN 76 R/C/W/T) L4,5,39,50 **RWY-25L**

SERVICE - AOE **FUEL** - (NC-TS1)

COMMUNICATIONS - **ATIS** - 125.125 **APP 1 - (R) (V)** 119.3 Btn and within air CRDR2 and
CRDR3 blw FL39 **APP 2 - (R) (V)** 123.7 Btn and within air CRDR1 and CRDR10 blw FL39
TWR - 120.7 131.5 (120.7 Rwy 07R - 25L)(131.5 Rwy 07L-25R) **GND** - 119.0 121.8 (119.0
Rwy 07L - 25R)(121.8 Rwy 07R-25L) **RADAR - (R) (V)** 118.1 **VOLMET** - 127.875

NAVAIDS - **SHEREMETYEVO VORW-DME** - HA 114.600 MR CH 93 N55°57.70'
E37°20.90' 064° 2.3 NM to Fld. 656/9°40.8'E **SHEREMETYEVO NDB/LOM** - HW 380.000
NL N55°57.50' E37°19.70' 064° 3.0 NM to Fld. Unk/9°40.4'E

SHEREMETYEVO NDB/LOM - HW 700.000 AD N55°59.20' E37°30.10' 254° 3.1 NM
to Fld. Unk/9°43.0'E **SHEREMETYEVO NDB/LOM** - HW 700.000 MR N55°57.60'
E37°19.50' 066° 3.1 NM to Fld. Unk/9°40.4'E **SHEREMETYEVO NDB/LOM** - HW
380.000 BW N55°59.10' E37°30.60' 257° 3.3 NM to Fld. Unk/9°43.0'E

ILS/RADAR - **ILS** - SEE TERMINAL FLIP FOR ILS 07R, 25L DATA. ➔**ILS** 07L - BRG 066° LCZR
IMR 108.1 GS 3.0° LOM MR 700. ➔**ILS** 25R - BRG 246° LCZR IAD 111.3 GS 3.0° LOM AD
700. ■ **RADAR** - PAR - Call RADAR - 118.1.

SHIGEZHUANG, CH **NDB** - HW 280.000 VM N39°18.00' E116°54.00' Unk/6°17.0'W
Opr HO. **7C, D, 8G**

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SHIJIAZHUANG, CH See ZHENG DING

SHILONG, CH **VORW-DME** - HA 115.700 SHL CH 104 N23°05.40' E113°51.20' 45/2°22.0'W Opr HO. **NDB** - HW 328.000 LQ N23°05.40' E113°51.20' Unk/2°22.0'W Opr HO. **7D, 8E**

SHIRAK, AM **UDSG** CIV N40°45.02' E43°51.56' 5000 UTC+4(+5DT) **5A**
RWY-02 L3,5,11,50 (10564x147 ASP PCN 39 F/C/X/T) **L5 RWY-20**

SERVICE - FUEL - (NC-TS1, T1) **FLUID** - OX

REMARKS - Opr 0200-1400Z+-. **RSTD** - The fst 328' (100m) of Rwy 20 unuse for tkof.

COMMUNICATIONS - **ATIS** - 128.7 **GYUMRI APP** - (V) 127.7 **GYUMRI TWR** - (V) 120.6

NAVAIDS - **GYUMRI VORW-DME** - HA 113.400 GRM CH 81 N40°43.76' E43°50.83' 018° 1.4 NM to Fld. 5090/5°25.5'E **GYUMRI NDB** - HW 325.000 GM N40°43.73' E43°50.81' 024° 1.4 NM to Fld. Unk/5°25.7'E **VHF/DF**

ILS/RADAR - **→ ILS** - BRG 019° LCZR IGM 110.3 GS 2.66° LOM GM 325

SHPAKOVSKOYE, RS **URMT** CIV N45°06.55' E42°06.77' 1486 UTC+3(+4DT)
4J, 5A, D

RWY-07 L7,39,50 (8631x157 ASP PCN 31 R/B/X/T) **L7,39,50 RWY-25**

SERVICE - FUEL - (NC-TS1)

COMMUNICATIONS - **STAVROPOL APP** - Also svc as KRUG. (R) 120.3 124.0X

STAVROPOL TWR - Also svc as TAXIING. 120.9 124.0X

NAVAIDS - **STAVROPOL NDB** - HW 730.000 OP N45°05.90' E42°03.00' 076° 2.7 NM to Fld. Unk/6°32.0'E **STAVROPOL NDB** - HW 730.000 KT N45°07.30' E42°10.90' 249° 3.0 NM to Fld. Unk/6°33.0'E

ILS/RADAR - **→ ILS** - BRG 070° LCZR IOP 110.5 GS 3.2° LOM OP 730. **→ ILS** - BRG 250° LCZR IKT 110.7 GS 2.7° LOM KT 730.

SHUANGLIU, (CHENGDU) CH **ZUUU** CIV N30°34.71' E103°56.83' 1625 UTC+8 **7C, 8F**
RWY-02 L2,3,4,5,11,50 (11811x197 CON PCN 80 R/B/W/T) **L4,5,11,50 RWY-20**

SERVICE - FUEL - (NC-J)

REMARKS - Opr HS or O/R. **CAUTION** - Bird haz. **CSTMS/AG/IMG** - Avbl.

COMMUNICATIONS - **ATIS** - Opr HO. 128.6 **CHENGDU APP AREA 1** - Opr H24 125.6

120.2 Blw 19700 **CHENGDU APP AREA 2** - Opr HO 119.7 120.2 Blw 19700

CHENGDU TWR - Opr HO. 123.0 118.85 **CHENGDU GND** - Opr 0200-1400Z. 121.85

NAVAIDS - **SHUANGLIU VORW-DME** - HA 115.700 CTU CH 104 N30°34.50' E103°56.60' At Fld. 1612/1°44.0'W Opr HO. **BAIHESI VORW-DME** - HA 117.900 BHS CH 126 N30°30.50' E104°12.20' 288° 13.9 NM to Fld. 1667/1°47.0'W Opr HO.

ILS/RADAR - **→ ILS-DME** - BRG 024° LCZR IZW 111.1 CH 104 GS 3.0° LOM ZW 260 Opr HO. **→ ILS-DME** - BRG 204° LCZR IAA 109.1 CH 104 GS 3.0° Opr HO.

SHUMERLYA, RS **NDB** - HHW 215.000 QM N55°31.00' E46°27.00' Unk/11°31.2'E Opr HO. **2G, 6E**

SHUYUAN, CH **VORW-DME** - HA 113.600 SHY CH 83 N30°57.00' E121°51.70' 346° 11.9 NM to PUDONG. 18/5°15.0'W Opr HO. **7D, 8F**

SHYMKENT ACC, KZ **UAIL** (CIV) (R) (V) **CON** - 132.7 132.7 **RDO** - 4728 **VHF/DF** 5C, 7A

SHYMKENT, KZ **UAIL** CIV (Airport Authority) N42°21.85' E69°28.73' 1385 UTC+6
5C, 7A

RWY-10 L7,9,12 (9186x144 CON PCN 22 R/A/X/T) **L7,9,12 RWY-28**

SERVICE - FUEL - (NC-TS1) **FLUID** - OX **OIL** - O-MK8P MS20

COMMUNICATIONS - **TWR** - 118.7

NAVAIDS - SHYMKENT NDB/LOM - HW 360.000 EN N42°22.66' E69°25.01' 101° 2.9 NM to Fld. Unk/5°17.3'E **SHYMKENT NDB/LOM** - HW 360.000 IM N42°21.03' E69°32.55' 281° 2.9 NM to Fld. Unk/5°15.9'E

ILS/RADAR - ➔ ILS - BRG 101° LCZR IEN 111.7 GS 2.4° LOM EN 360 LMM E 733. ➔ **ILS** - BRG 281° LCZR IIM 110.3 GS 3.0° LOM IM 360 LMM I 733.

SHYRIAIEVE, UP NDB - HHW 389.000 SH N47°24.18' E30°16.70' Unk/5°32.0'E **4H**

SIMFEROPOL ACC, UP UKFV (CIV) (R) (V) CON - Sctr 1 - 132.5, Sctr 2 - 134.3, Sctr 3 - 135.1, Sctr 4 - 120.4, Sctr 5 - 135.5. Sectors 4 and 5 are joined on ATC unit decision. **4H, I**

SIMFEROPOL INTL, UP UKFF CIV N45°03.13' E33°58.51' 639 UTC+2(+3DT) **4H, I**
RWY-01L L4,5,33 (12142x197 CON PCN 53 R/B/X/T) **L3,4,5,33 RWY-19R**

SERVICE - AOE **FUEL** - (NC-A1) **FLUID** - OX

REMARKS - CSTMS/IMG - avbl

COMMUNICATIONS - ATIS - 127.2 **RADAR** - 124.7 119.3 **TWR** - 120.8 **GND** - 119.0

OPS - 131.625 **REMARKS**: At least 30 min before ETA, provide the number of passengers, luggage, and other pertinent information to Simferopol Operations Control.

NAVAIDS - **SIMFEROPOL VORW-DME** - HA 116.600 SMF CH 113 N45°03.08' E33°58.76' At Fld. 623/5°37.0'E

ILS/RADAR - ➔ ILS - BRG 009° LCZR ISN 109.3 GS 3.0° LOM SN 588 LMM N 285. ➔ **ILS** - BRG 189° LCZR ISF 111.1 GS 3.0° LOM SF 588 LMM F 285.

SIROTINSKAYA, RS NDB - HHW 777.000 ST N49°16.00' E43°41.00' Unk/8°10.0'E **3C, D**

SKURYGINO, RS NDB - HHW 415.000 DR N55°13.00' E37°22.00' Unk/9°22.6'E **2F, T-1E**

SMOLENSKAYA, RS NDB - HHW 662.000 SM N44°47.00' E38°48.00' Unk/6°07.5'E **4J**

SMYSHLYAYEVKA, RS NDB - HHW 190.000 ND N53°16.00' E50°26.00' Unk/10°54.3'E Opr HO **2H, 6E**

SOCHI, RS URSS CIV N43°27.00' E39°57.40' 89 UTC+3(+4DT) **4J**
RWY-02 L7,36,50 (7218x161 CON PCN 29 R/A/W/T) **L7 RWY-20**
RWY-06 L7,20 (9482x164 CON PCN 29 R/A/W/T) **L7 RWY-24**
9220→

SERVICE - FUEL - (NC-TS1) **OIL** - O-MK8, MK8P

REMARKS - RSTD - Ldg only on Rwy 02 and Rwy 06. Tkof only on Rwy 20 and Rwy 24. First 98° of Rwy 20 unused for tkof.

COMMUNICATIONS - ATIS - 126.2 **APP** - (R) 124.6 **TWR** - (118.3 Rwy 02-20) (121.2 Rwy 06-24). Call START. 118.3 121.2 **TAXIING** - 119.1 **KRUG** - (R) 119.7 **AREA** - For Helicopter. 118.5 **VOLMET** - 129.375

NAVAIDS - **SOCHI VORW-DME** - HA 112.700 ADL CH 74 N43°24.20' E39°56.90' 002° 2.8 NM to Fld. 36/(A)5°00.0'E **SOCHI NDB** - HHW 761.000 SO N43°26.10' E39°54.60' 061° 2.2 NM to Fld. Unk/5°53.0'E **SOCHI NDB** - HHW 365.000 AD N43°24.90' E39°55.90' 022° 2.4 NM to Fld. Unk/5°52.8'E

ILS/RADAR - ➔ ILS - BRG 024° LCZR IAD 110.5 GS 2.8° LOM AD 365 ➔ **ILS** - BRG 060° LCZR ISO 111.1 GS 2.8° NDB SO 761 ■ **RADAR** - PAR - Call KRUG 119.7

SOKOL, (MAGADAN SOKOL) RS UHMM CIV N59°54.66' E150°43.23' 574 UTC+11(+12DT) **9B**
RWY-10 L5,36 (11335x195 CON PCN 32 R/A/X/T) **L5,20 RWY-28**

SERVICE - FUEL - (NC-TS-1)

REMARKS - Opr 2200-1000Z+.

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COMMUNICATIONS - ATIS - Opr HO. 127.4 **MAGADAN APP** - Opr HO. (R) (V) 126.9
124.0 **MAGADAN TWR** - Opr HO. (V) 120.8

NAVAIDS - MAGADAN NDB - HHW 375.000 WA N59°54.50' E150°49.30' 285° 3.1 NM
to Fld. Unk/11°04.1'W **MAGADAN NDB** - HHW 375.000 FK N59°54.80' E150°36.90' 104°
3.2 NM to Fld. Unk/11°09.3'W **VHF/DF**

ILS/RADAR - ➔ ILS - BRG 104° LCZR IFK 110.3 GS 2.5° LOM FK 375 ■ **RADAR** - ASR - Call
MAGADAN APP CON 126.9 Opr HO.

SOKOL, RS **NDB** - HHW 260.000 PW N47°16.00' E142°46.00' Unk/10°16.9'W Opr HO.
9A

SOLODNIKI, RS **NDB** - HHW 644.000 SL N48°24.00' E45°18.00' Unk/8°01.0'E **3D, 5A**

SOLOVIIVKA, UP **NDB** - HHW 718.000 SL N50°11.19' E29°33.69' Unk/6°0.0'E
1D, 3A, T-1F

SOSNOVKA, RS **NDB** - HHW 450.000 WU N54°08.00' E46°39.00' Unk/10°49.3'E
2H, 6E

SOSNOVSKOYE, RS **NDB** - HHW 960.000 RP N55°48.00' E43°10.00' Unk/11°00.1'E
2G, 6E

SOVETSKAYA GAVAN ACC, RS **UHKM** (CIV) (R) **CON** - 135.1 135.1 .
RDO - (3102 ngt) (6692 7870 daylt) (KHABAROVSK ACC for all hgts.) **9A**

SOVETSKY, RS **NDB** - HHW 1075.000 UY N61°20.00' E63°37.00' Unk/17°36.9'E **6F**

SREDNEBELOYE, RS **NDB** - HHW 460.000 WZ N50°38.00' E128°02.00'
Unk/12°02.9'W Opr HO. **6H, 8H, 9A**

STAVROPOL, RS **NDB** - HW 730.000 KT N45°07.30' E42°10.90' 249° 3.0 NM
to SHPAKOVSKOYE. Unk/6°33.0'E **NDB** - HW 730.000 OP N45°05.90' E42°03.00' 076°
2.7 NM to SHPAKOVSKOYE. Unk/6°32.0'E **4J, 5A**

STEBLIV, UP **NDB** - HHW 617.000 SV N49°24.29' E31°04.50' Unk/6°8.0'E **1D-3A, E**

STEPANAVAN, AM **UDLS** CIV N41°02.91' E44°20.23' 4836 UTC+4(+5DT) **5A**
RWY-13 (6555x92 ASP PCN 9 F/A/Z/U) **RWY-31**

SERVICE - FUEL - (NC TS1)

REMARKS - Opr 0300-1300Z++. **CSTMS/IMG** - HO

COMMUNICATIONS - TWR - (V) 130.3

NAVAIDS - STEPANAVAN NDB - HW 602.000 S N41°02.17' E44°21.37' 305° 1.1 NM
to Fld. Unk/5°31.6'E **STEPANAVAN NDB** - HW 292.000 ST N41°02.17' E44°21.37' 311°
1.1 NM to Fld. Unk/5°31.6'E **VHF/DF**

STRIGINO, (GORKIY STRIGINO) RS **UWGG** CIV N56°13.81' E43°47.04' 256
UTC+3(+4DT) **2G, E**

RWY-06 (1640x72 ASP)

RWY-24

RWY-15 (1969x72 ASP)

RWY-33

RWY-18LL5 (8232x148 ASP PCN 28 R/C/X/T)

L5 RWY-36R

RWY-18RL4,5,39 (9203x148 CON PCN 30 R/A/W/T)

L4,5,39 RWY-36L

SERVICE - FUEL - (NC-TS-1)

COMMUNICATIONS - NIZHNY ATIS - 127.8 **NIZHNY APP** - (R) 124.7 **TWR** - Call
NIZHNY START. 120.4 **GND** - Call NIZHNY TAXIING. 121.8 **ASR** - Call NIZHNY KRUG.
(R) 120.8 **GCA** - Call NIZHNY TWR. (R) 120.4

NAVAIDS - NIZHNY NOVGOROD NDB - HHW 327.000 UV N56°15.10' E43°47.70' 185°
1.3 NM to Fld. Unk/11°22.2'E Opr HO. **NIZHNY NOVGOROD NDB** - HHW 327.000 BO
N56°12.30' E43°46.70' 356° 1.5 NM to Fld. Unk/11°20.6'E Opr HO.
NIZHNY NOVGOROD NDB - HHW 245.000 ST N56°16.50' E43°47.90' 179° 2.7 NM
to Fld. Unk/11°23.0'E Opr HO. **NIZHNY NOVGOROD NDB** - HHW 245.000 NG
N56°10.60' E43°45.90' 000° 3.3 NM to Fld. Unk/11°19.5'E Opr HO. **VHF/DF**
ILS/RADAR - ➔ **ILS** - BRG 180° LCZR IST 109.9 GS 3.0° LOM ST 245 Opr HO. ➔ **ILS** - BRG
360° LCZR ING 109.5 GS 3° LOM NG 245 Opr HO. ■ **RADAR** - ASR - Call NIZHNY KRUG
120.8 PAR - Call NIZHNY TWR 120.4

SUKHODOL, RS NDB - HHW 515.000 SL N53°54.00' E51°11.00' Unk/11°21.0'E **2H, 6E**

SUKHOTINO, RS NDB - HHW 1055.000 IN N54°36.00' E37°20.00' Unk/9°07.1'E **2F**

SUKHUMI, GG NDB - HW 489.000 AV N42°51.20' E41°07.30' Unk/5°49.9'E **4J**

SULTANSKOYE, RS NDB - HHW 866.000 SN N44°35.50' E42°40.00' Unk/6°26.4'E
4J, 5A

SUMY, RS NDB - HHW 875.000 GR N54°49.00' E80°28.00' Unk/9°30.5'E **6F**

SUNAN INTL, KN See PYONGYANG INTL

SURGUT ACC, RS USRR (CIV) (R) CON - Sctr N - CON 1 - 132.2 Sctr S - CON 2 -
133.3 Sctr 3 - CON 3 - 129.3 Blw FL274. RDO - 2495 4805 6860. 6F

SURGUT, RS USRR CIV N61°20.62' E73°24.11' 200 UTC+5(+6DT) **6F**
RWY-07 L5,39,50 (9154x148 ASP PCN 56 F/B/W/T) L5,39,50 **RWY-25**

SERVICE - FUEL - (NC-TS1)

REMARKS - Opr 0700-0500Z++.

COMMUNICATIONS - ATIS - 124.8 **START** - Also svc as TWR. 120.8 **TAXIING** - Opr
0230-1730Z++ 121.8 **KRUG - (R)** 120.3

NAVAIDS - SURGUT NDB - HW 325.000 GK N61°20.60' E73°18.00' 090° 2.9 NM to Fld.
Unk/16°37.0'E **SURGUT NDB** - HW 325.000 AM N61°20.60' E73°30.40' 271° 3.0 NM
to Fld. Unk/16°34.0'E

ILS/RADAR - ➔ **ILS** - BRG 253° LCZR IAM 109.1 GS 3.0° LOM 325. ➔ **ILS** - BRG 073° LCZR
IGK 110.5 GS 3.0° LOM GK 325.

SYKTYVKAR ACC, RS UUYU (CIV) (R) (V) CON - 124.6 124.6 (blw FL290 and wi
UKHTA CTA btn FL200 - FL290). **S Sctr - 135.4 135.4 N Sctr - 133.3 133.3 RDO -**
(3422 ngt) (5596 daylt) 4712 **6E,F**

SYKTYVKAR, RS UUYU CIV N61°38.82' E50°50.70' 342 UTC+3(+4DT) **6E**
RWY-01 L7,34 (8203x164 ASP PCN 29 R/B/X/T) L7,20 **RWY-19**

SERVICE - FUEL - (NC-TS1) **OIL** - O-MK8, MK8P

COMMUNICATIONS - SIVKAR KRUG - Opr HO. Svc as TWR. **(R) (V)** 118.1

SIVKAR TAXIING - Opr HO. **(V)** 121.7 **SIVKAR METEO** - 126.6

SIVKAR TRANSIT - Opr HO. 131.6

NAVAIDS - SYKTYVKAR NDB - HW 345.000 PW N61°36.30' E50°48.50' 023° 2.7 NM
to Fld. Unk/16°16.0'E **SYKTYVKAR NDB** - HW 345.000 SR N61°41.70' E50°53.10' 202°
3.1 NM to Fld. Unk/16°21.0'E

ILS/RADAR - ➔ **ILS** - BRG 006° LCZR IPW 108.3 GS 3.0° LOM PW 345 Opr HO. ➔ **ILS** - BRG
186° LCZR ISR 111.7 GS 3.0° LOM SR 345 Opr HO.

SYRDARYA, UZ NDB - HW 535.000 CV N40°49.00' E68°41.00' Unk/4°43.7'E **5C**

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TACHENG, CH **NDB** - HHW 301.000 O N46°39.50' E83°22.30' 1998/4°42.0'E **7A**

TACHTAMYGDA, RS **NDB** - HHW 315.000 TH N54°07.00' E123°35.00'
Unk/12°15.6'W **6H-8H**

TAINJIN, CH See BINHAI

TAIHING, (HARBIN) CH **ZYHB** CIV N45°37.40' E126°15.02' 457 UTC+8 **6H, 8H**
RWY-05 L4,5,11,50 (10500x148 ASP PCN 78 F/B/W/T) **L2,4,5,11,50 RWY-23**
SERVICE - FUEL - (NC-J)
REMARKS - Opr HS or O/R. **RSTD** - 180° turns on twy, 90° turns on rwy proh.
CSTMS/AG/IMG - Avbl, 24 hr PN rqr.
COMMUNICATIONS - **ATIS** - 127.4 **HARBIN TWR** - Opr H24. 118.7 118.1
NAVAIDS - **HARBIN VORW-DME** - HA 112.500 HRB CH 72 N45°37.40' E126°15.60' At Fld.
448/10°12.0'W Opr HO.
ILS/RADAR - ➔ **ILS-DME** - BRG 229° LCZR IMJ 109.9 CH 72 GS 3° LOM MJ 417 Opr HO. ➔
ILS-DME - BRG 049° LCZR ILL 110.3 CH 72 GS 3.0° Opr HO.

TAIYUAN ACC, CH **ZBYN** (CIV) **CON** - **AREA 1** - **120.55** 120.55 **132.4** 132.4 **AREA**
2 - **128.75** 128.75 **132.4** 132.4 Opr 0001-1000Z. **7C, 8F-G**

TAIYUAN, CH **VORW-DME** - HA 113.100 TYN CH 78 N37°45.10' E112°37.20' At WUSU.
2577/4°45.0'W Opr HO. **7C, 8G**

TAKHTALYM, RS **NDB** - HHW 579.000 TH N55°54.00' E61°44.00' Unk/13°20.0'E **6E**

TAKHTAYAMSK, RS **NDB** - HHW 995.000 TA N60°12.00' E154°41.00' Unk/9°24.6'W
9C

TALAGI, RS **ULAA** CIV N64°36.02' E40°43.00' 62 UTC+3(+4DT) **6E**
RWY-08 L5,39,50 (8202x144 CON PCN 44 R/C/X/T) **L5,39,50 RWY-26**
SERVICE - FUEL - (NC-TS1)
REMARKS - Opr 0400-1900Z+.
COMMUNICATIONS - **ARKHANGELSK ATIS** - Opr HO. 126.675
ARKHANGELSK APP - Opr 0520-1900Z+-. **(R)** 122.0 124.0X
ARKHANGELSK TWR - Opr H24. 121.8 Svc as APP 1900-0520Z++ within 27 NM rad of
arpt blw FL99.
NAVAIDS - **ARKHANGELSK NDB** - HW 690.000 KM N64°35.70' E40°50.20' 276° 3.1 NM
to Fld. Unk/15°10.0'E Opr 0300-1900Z+-. **ARKHANGELSK NDB** - HW 690.000 AZ
N64°36.40' E40°35.20' 082° 3.4 NM to Fld. Unk/15°5.0'E Opr 0300-1900Z+-. **VHF/DF**
ILS/RADAR - ➔ **ILS** - BRG 081° LCZR IAZ 110.3 GS 2.7° LOM AZ 690 Opr HO. ➔ **ILS** - BRG
261° LCZR IKM 111.7 GS 2.7° LOM KM 690 Opr HO.

TALDYKORGAN, KZ **NDB** - HW 303.000 KR N45°07.00' E78°27.00' Unk/5°12.3'E
Opr HO. **NDB** - HW 303.000 TK N45°07.30' E78°26.60' Unk/5°12.5'E Opr HO. **7A**

TALIN, AM **NDB** - HW 442.000 TLN N40°23.13' E43°53.47' Unk/5°20.5'E **5A**

TALMENKA, RS **NDB** - HHW 988.000 TM N53°48.00' E83°32.00' Unk/7°49.7'E **6F**

TAMCHY, (YSYKKUL) KG **UAFL** CIV N42°35.30' E76°42.80' 5423 UTC+5(+6DT) **5D**
RWY-07 (6562x148 CON) **RWY-25**
REMARKS - Opr 0200-1000Z+-. **CSTMS/IMG** - Dur daylight only.
COMMUNICATIONS - **YSYKKUL TWR** - 118.7

TAMDYBULAK, UZ **VORW-DME** - L 114.000 TMD CH 87 N41°45.00' E64°38.00'
600/(A)5°00.0'E **NDB** - HHW 1010.000 ST N41°45.00' E64°38.00' Unk/5°24.4'E **5C**

TANGHEKOU, CH **NDB** - MHW 514.000 YV N40°44.00' E116°38.00' Unk/6°32.0'W
Opr HO. **7C, D, 8G**

TAOXIAN, (SHENYANG TAOXIAN) CH **ZYTX** CIV N41°38.39' E123°29.01' 198 UTC+8
7C, 8G
RWY-06 L2,4,5,11,50 (10499x148 CON PCN 62 R/B/W/T) L4,5,11,50 **RWY-24**
SERVICE - AOE **FUEL** - (NC-J)
REMARKS - Opr HS or O/R. **CAUTION** - Bird haz.
COMMUNICATIONS - **ATIS** - Opr HO. 127.45 **SHENYANG TWR** - Opr HO. 118.1 124.3
NAVAIDS - **SHENYANG VORW-DME** - HA 114.100 SEY CH 88 N41°38.30' E123°28.80'
At Fld. 632/8°30.0'W Opr HO. **DONGYANGJIAO NDB** - HW 296.000 PU N41°30.40'
E123°17.60' 047° 11.7 NM to Fld. Unk/8°25.0'W Opr HO. **WANGBINGOU NDB** - HW
365.000 KY N41°42.30' E123°44.80' 252° 12.5 NM to Fld. Unk/8°33.0'W Opr HO.
ILS/RADAR - ➔ **ILS-DME** - BRG 056° LCZR IPU 110.5 CH 88 GS 3° Opr HO. ➔ **ILS-DME** - BRG
236° LCZR IKY 110.3 CH 88 GS 3° Opr HO.

TARAZ ACC, (ZHAMBLYL ACC) KZ **UADD (R) CON** - **134.0** 134.0 (ALMATY ACC for all
htgs) **VHF/DF 5C, D, 7A**

TARAZ, (AULIE ATA) KZ **UADD/UA37** CIV N42°51.22' E71°18.22' (42TXN8821347133)
2184 UTC+6 **5C**
RWY-13 L7,12 (9514x148 ASP PCN 24 F/B/X/T) L7,12 **RWY-31**
←8792
SERVICE - **FUEL** - (NC-TS-1). **OIL** - MK-8,MS-20.
REMARKS - Opr HO. **CAUTION** - Antenna on apch course 2200' for rwy 13. Antenna on
apch course 2300' for rwy 31. **CSTMS/IMG** - Avbl.
COMMUNICATIONS - **APP** - 122.1 120.8 **TWR** - 122.1 120.8
NAVAIDS - **TARAZ NDB** - HW 1030.000 MB N42°51.20' E71°18.20' At Fld. Unk/5°17.7'E
Opr HO. **TARAZ NDB** - HW 1030.000 YL N42°51.19' E71°18.20' At Fld. Unk/5°17.7'E Opr
HO.
ILS/RADAR - ➔ **ILS** - BRG 132° LCZR IMB 109.7 LOM MB 1030.0 LMM M 509.0

TARKO-SALE ACC, RS **USDS** (CIV) **(R) (V) CON 1- 133.1** 133.1 abv FL274 H24. All
alt 1300-0100Z.) **CON 2- 131.1** Up to FL274 0100-1300Z.) **6F**

TARKO-SALE, RS **NDB** - HHW 310.000 TS N64°54.00' E77°47.00' Unk/18°52.1'E **6F**

TASHKENT ACC, UZ **UTTR** (CIV) **(R) (V) CON - 133.3** 133.3 **RDO** - (8951 day) (4669
ngt) **VHF/DF 5C,D, 7A**

TASHKENT, UZ **VORW-DME** - HA 113.200 TKT CH 79 N41°15.60' E69°17.40'
At YUZHNY. 1414/(A)5°00.0'E **5C**

TASHKENT, UZ **NDB/LOM** - HW 285.000 NG N41°15.10' E69°12.90' 078° 3.0 NM
to YUZHNY. Unk/4°51.1'E **5C**

TASHKENT YUZHNY, UZ See YUZHNY

TBILISI ACC, GG **UGTB** (CIV) **(R) (V) CON - N Sctr 133.4** 133.4 **W Sctr 127.1** 127.1
VHF/DF 4J, 5A,C

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TBILISI, (NOVOALEXEYEVKA) GG **UGTB** CIV N41°40.15' E44°57.28' 1624 UTC+3(+4DT)

5A
RWY-13L (8202x196 ASP PCN 28 R/B/X/T) **RWY-31R**
RWY-13R L3,4,5,50 (9843x147 CON PCN 39 R/A/X/T) L2,3,4,5,11,50 **RWY-31L**

SERVICE - AOE **FUEL** - (NC-TS1) w/FSII **OIL** - O-MK8P

REMARKS - **CAUTION** - Acft with a nose wheel turn rad more than 50', turn around only on the thld of runway 13R/31L.

COMMUNICATIONS - **ATIS** - 132.8 **APP** - (R) (V) 127.2 **TWR** - 128.0 **GND** - 119.0

NAVAIDS - **TBILISI VORW-DME** - HA 113.700 TBS CH 84 N41°39.03' E44°58.47' 316° 1.4 NM to Fld. 1600/(A)5°00.0'E **TBILISI NDB/LOM** - HW 211.000 NA N41°37.96' E44°59.83' 314° 2.9 NM to Fld. Unk/5°42.8'E **TBILISI NDB/LOM** - HW 697.000 VP N41°42.78' E44°53.73' 129° 3.7 NM to Fld. Unk/5°43.9'E **VHF/DF**

ILS/RADAR - ➔ **ILS** - Rwy 31L BRG 312° LCZR INA 108.9 GS 3.0° LOM NA 211 ➔ **ILS** - Rwy 13R BRG 132° LCZR IVP 110.3 GS 3.5° LOM VP 697

TEPLORECHENSKY, RS **NDB** - HHW 1182.000 TP N44°09.30' E43°32.00' Unk/6°22.4'E **5A**

TERBUNY, RS **NDB** - HHW 527.000 TE N52°09.00' E38°16.00' Unk/8°22.7'E **3B**

TERMEZ, UZ **UTST** CIV N37°17.20' E67°18.60' 1027 UTC+5 **5C**
RWY-07L5 (9843x138 CON PCN 19 R/A/X/U) L2,5,11 **RWY-25**

SERVICE - **FUEL** - (NC-TS-1) **FLUID** - OX

REMARKS - Opr 0100-1530Z++. **RSTD** - Twy 4 clsd exc AN-12, AN-24, YAK-40, and copter ops. IL-86, KC-135 type acft taxi on inboard eng power only on Twy 1-3. **MISC** - Acft turning bay at Rwy 07 thld 295' x 246' for acft ldg Rwy 25.

COMMUNICATIONS - **SAMARKAND CON** - 134.3 **RDO** - 4728 **TWR** - Opr HO. 118.6
REMARKS: (R)(V)

NAVAIDS - **TERMEZ VORW-DME** - HA 113.400 TRZ CH 81 N37°17.10' E67°18.40' At Fld. 1026/(A)3°00.0'E **TERMEZ NDB/LOM** - HW 398.000 NO N37°18.00' E67°21.90' 253° 2.8 NM to Fld. Unk/3°33.8'E

ILS/RADAR - ➔ **ILS** - BRG 251° LCZR INO 110.3 GS 2.4° LOM 398 NO

TERNOPIL INTL, UP **UKLT** CIV N49°31.45' E25°42.00' 1072 UTC+2(+3DT) **1C, 3A**
RWY-10L7,12 (6465x140 CON PCN 20 R/C/Y/T) L7,12 **RWY-28**

SERVICE - **FUEL** - (NC-A1)

REMARKS - Opr 0700-1500Z++ Mon-Fri

COMMUNICATIONS - **TWR** - 132.7

TIANHE, (WUHAN) CH **ZHHH** CIV N30°47.03' E114°12.49' 113 UTC+8 **7C, 8F**
(B) **RWY-04** L2,3,4,5,10,50 (11155x148 CON PCN 74 R/B/W/T) L4,5,11,50 **RWY-22**

SERVICE - **FUEL** - (NC-J)

REMARKS - Opr HS or O/R. **CSTMS/AG/IMG** - Avbl 0001-0900Z.

COMMUNICATIONS - **ATIS** - Opr HO. 126.6 **WUHAN TWR** - Opr HO. 122.7 130.0
WUHAN GND - Opr 0001-1200Z. 121.65

NAVAIDS - **TIANHE VORW-DME** - HA 112.200 WHA CH 59 N30°47.10' E114°12.30' At Fld. 141/3°49.0'W Opr HO. **TIANHE NDB** - HW 254.000 HG N30°55.50' E114°21.20' 222° 11.3 NM to Fld. 170/3°52.0'W Opr HO.

ILS/RADAR - ➔ **ILS-DME** - BRG 044° LCZR IDA 110.3 CH 59 GS 3.0° Opr HO. ➔ **ILS-DME** - BRG 224° LCZR IHG 109.9 CH 36 GS 3.0° Opr HO.

TIANJIN, CH **VORW-DME** - HA 112.100 TAJ CH 58 N39°06.40' E117°21.50' 332° 1.2 NM to BINHAI. 10/6°23.0'W Opr HO. **NDB** - HW 339.000 CG N39°04.40' E117°22.70' 334° 3.4 NM to BINHAI. 13/6°22.0'W Opr HO. **7C, D, 8G**

TIANMEN, CH **NDB** - HHW 314.000 HZ N30°39.10' E113°09.10' Unk/3°35.0'W Opr
HO. **7C, 8F**

TIANZHEN, CH **NDB** - HHW 264.000 ZN N40°26.40' E114°05.20' Unk/5°42.0'W Opr
HO. **7C, 8G**

TIKHORETSK, RS **NDB** - HHW 528.000 UH N45°50.00' E40°05.00' Unk/6°33.5'E Opr
0500-1900Z++ exc Sun and Hol. **4J**

TIKSI ACC, RS **UEST** (CIV) **(R) CON** - 133.3 **RDO** - 11390 5470 4712 8837X.
6G, H ENAME T-2G

TIKSI, RS **UEST/UE38** MIL N71°41.86' E128°54.18' 30 UTC+9(+10DT) **ENAME T-2G**
RWY-03L9 (9845x194 CON PCN 37 R/B/X/T) L9,27 **RWY-21**
9025→ ←9005

REMARKS - Opr 2300-1100Z++. **RSTD** - Afl'd for emerg l'dg of flt opr along the cross-polar
rte.

COMMUNICATIONS - **ATIS** - 127.8 **TWR** - Opr HO. Call **START** and **LANDING..** 124.0
ASR - Opr HO. Call **KRUG**. 128.5 124.0

NAVAIDS - **TIKSI NDB** - HHW 320.000 KF N71°44.20' E128°55.10' 187° 2.4 NM to Fld.
Unk/17°00.8'W Opr HO.

TILICHIKI ACC, RS **UHPT** (CIV) **(R) CON** - **133.6** 133.6 Opr 2000-0800Z++. **RDO** -
2868 ngt 4720 daylt (PETROPAVLOVSK-KAMCHATSKY ACC FL 266 and blw .) **9C**

TILICHIKI, RS **NDB** - HHW 820.000 TK N60°24.00' E166°00.00' Unk/3°29.2'W Opr HO.
9C

TOBOLSK ACC, RS **USTO** (CIV) **(R) CON** - **133.1** 133.1 (TUMEN ACC for all hgt.)
6F

TOBOLSK, RS **NDB** - HHW 372.000 NH N58°08.50' E68°16.60' Unk/14°41.8'E **6F**

TOLE BI, KZ **NDB** - HW 1155.000 NT N43°41.73' E73°44.93' Unk/5°21.3'E **5C, 7A**

TOLMACHEVO, RS **UNNT** CIV N55°00.76' E82°39.04' 365 UTC+6(+7DT) **6F**
RWY-07L5,33,50 (11811x197 ASP PCN 77 R/C/X/T) L5,33,50 **RWY-25**

SERVICE - FUEL - (NC-TS1)

REMARKS - **RSTD** - First 328' of Rwy 07-25 unuse for tkof.

COMMUNICATIONS - **NOVOSIBIRSK ATIS** - 127.4 **NOVOSIBIRSK APP** - **(R)** 127.5 127.1
(127.5 within TCA FL49 to FL187) (127.1 within 24NM of afl'd FL49 to FL69)

NOVOSIBIRSK START - 118.5 **NOVOSIBIRSK TAXIING** - 121.7

NOVOSIBIRSK KRUG - **(R)** 122.0 **NOVOSIBIRSK VOLMET** - 128.3

NAVAIDS - **NOVOSIBIRSK VORW-DME** - HA 113.300 NSK CH 80 N55°00.80' E82°38.40'
At Fld. 388/8°50.6'E **TOLMACHEVO NDB** - HHW 310.000 RO N55°00.20' E82°33.80'
071° 3.1 NM to Fld. Unk/8°52.1'E **TOLMACHEVO NDB** - HHW 310.000 KT N55°01.20'
E82°44.50' 253° 3.2 NM to Fld. Unk/8°48.6'E

ILS/RADAR - ➡ **ILS** - BRG 072° LCZR IRO 110.1 GS 3.0° LOM RO 310. ➡ **ILS** - BRG 252°
LCZR IKT 108.5 GS 2.7° LOM KT 310. ■ **RADAR** - PAR - Call **NOVOSIBIRSK KRUG** 122.0.

TOMAKIVKA, UP **NDB** - HHW 518.000 TM N47°49.09' E34°44.10' Unk/6°23.0'E **3B**

TOMSK, RS **NDB** - HHW 380.000 TX N56°23.00' E85°12.70' Unk/8°33.8'E **6F**

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TONGJINGCHANG, CH **NDB** - HHW 241.000 OS N29°50.90' E106°50.70' 234°
13.1 NM to JIANGBEI. Unk/2°12.0'W Opr HO. **7C, 8F**

TONGLIAO, CH **VORW-DME** - HA 116.300 TGO CH 110 N43°33.60' E122°11.90'
612/8°47.0'W Opr HO. **7C, 8G**

TONGLU, CH **VORW-DME** - HA 115.900 TOL CH 106 N29°45.80' E119°39.50'
171/4°37.0'W Opr HO. **NDB** - HW 364.000 CZ N29°48.00' E119°40.00' Unk/4°37.0'W
Opr HO.
TOL VOR-DME unuse 100°-160° blw 12,800'
7D, 8F

TOPCHYNE, UP **NDB** - HHW 643.000 TP N48°56.39' E34°47.60' Unk/6°42.0'E **3B**

TOYTEPA, UZ **NDB** - HW 725.000 UA N40°59.00' E69°23.00' Unk/4°43.9'E **5C**

TROITSKOYE, RS **NDB** - HHW 335.000 QI N49°27.00' E136°34.00' Unk/11°52.6'W **9A**

TRYPILLIA, UP **NDB** - HHW 745.000 TR N50°06.99' E30°45.89' Unk/6°14.0'E
1D, 3A, T-1F

TSENTRALNY, RS See OMSK

TSENTRALNY, RS **UWSS** CIV N51°33.90' E46°02.80' 499 UTC+3(+4DT) **3D, 5A**
RWY-12 L5,36,50 (7485x138 ASP PCN 19 F/C/Y/T) L5,50 **RWY-30**

SERVICE - FUEL - (NC-TS1)

REMARKS - **RSTD** - First 328' of Rwy12-30 unuse for tkof. **RWY** - Only turning cir at Rwy
12-30 thld avbl for taxiing.

COMMUNICATIONS - **ATIS** - 135.1 **TWR** - 128.0 **GND** - 119.0 **RADAR** - (R) 120.4

NAVAIDS - **SARATOV NDB** - HHW 479.000 SA N51°34.60' E46°01.50' 122° 1.1 NM to Fld.
Unk/9°28.2'E **SARATOV NDB** - HHW 427.000 DK N51°32.60' E46°05.90' 295° 2.3 NM
to Fld. Unk/9°27.9'E **SARATOV NDB** - HHW 427.000 OH N51°35.50' E45°59.10' 116°
2.8 NM to Fld. Unk/9°28.3'E

ILS/RADAR - ➔ **ILS** - BRG 117° LCZR IOH 110.5 GS 3.0° LOM OH 427. ➔ **ILS** - BRG 297°
LCZR IDK 109.1 GS 2.8° LOM DK 427.

TSNORI, GG **NDB** - HW 342.000 TO N41°37.83' E46°00.93' Unk/5°44.8'E **5A**

TUDEVTAI, MG **NDB** - HW 495.000 TD N48°58.97' E96°32.28' Unk/0°42.8'E Opr HO
7B

TUMURTAI, CH **VORW-DME** - HA 113.300 TMR CH 80 N41°50.70' E113°09.00'
4908/5°40.0'W Opr HO. **NDB** - HW 365.000 HD N41°52.00' E113°09.00' Unk/5°41.1'W
Opr HO. **7C, 8G**

TUNLI, CH **NDB** - HHW 247.000 FZ N37°27.10' E121°10.70' 108° 9.7 NM to LAISHAN.
Unk/6°52.0'W **8G**

TUNOSHNA, RS **UUDL** CIV N57°33.64' E40°09.44' 287 UTC+3(+4DT) **2F**
RWY-05 L7,9,20,50 (9870x135 ASP PCN 38 R/C/X/T) L5,9,39,50 **RWY-23**

SERVICE - FUEL - NC-TS-1

REMARKS - Opr 0500-1900Z++ OT PPR. **MISC** - Arpt is avbl to foreign air carriers only. For
freight PPR.

COMMUNICATIONS - **ATIS** - Opr HO. 127.35 **APP** - Opr HO. Svc as KRUG, START,
TAXIING. 120.3

NAVAIDS - TUNOSHNA NDB - HHW 315.000 RG N57°34.90' E40°14.30' 233° 2.9 NM to Fld. Unk/11°10.7'E Opr HO. **VHF/DF**

ILS/RADAR - ➡ - ILS - BRG 234° LCZR IRG 110.5 GS 3.0° LOM RG 315 Opr HO.

TURA ACC, RS **UNIT** (CIV) **(R) CON - 118.9** 118.9 (TURUKHANSK ACC for all hgt.)
6G

TURA, RS **NDB** - HHW 430.000 AI N64°17.10' E100°12.20' Unk/1°59.8'E Opr HO. **6G**

TURAN, RS **NDB** - HHW 980.000 TR N52°10.00' E93°55.00' Unk/2°34.2'E Opr HO. **6G**

TURKMENABAT ACC, TX **UTAV (R) (V) CON - 125.8** 125.8 **122.0** 122.0 **RDO -**
10018 day 3467 ngt **VHF/DF 5C**

TURKMENABAT, (CHARDZHOU) TX **UTAV MIL/CIV** N39°05.00' E63°36.80'
(41SND5304726203) 630 UTC+5 **5C**

RWY-15 L7,34

(9022x138 ASP PCN 29 F/C/Y/T)

L7,34 **RWY-33**

SERVICE - FUEL - (NC-TS-1,B-91/B-115) **OIL** - O-MK8

REMARKS - RSTD - Rwy 15-33 clsd for cat B,C,D, acft Mon-Fri 0730-1200Z++ til 1 Jun 05
est **CAUTION** - The fst 328' (100m) of Rwy 15-33 unuse for tkof. **MISC** - Use of Twy 4 is
ltd by acft wt.

COMMUNICATIONS - APP - 125.8 122.0 **REMARKS:** (R)(CS Krug) **TWR** - 120.6 **REMARKS:**
(CS Start) **GND** - 131.7 **REMARKS:** (CS Taxiing)

NAVAIDS - TURKMENABAT VORW-DME - HA 109.200 LBA CH 29 N39°05.40' E63°36.70'
At Fld. 646/(A)4°00.0'E **TURKMENABAT NDB** - HW 326.000 UT N39°02.40' E63°38.40'
330° 2.9 NM to Fld. Unk/4°25.4'E Opr HO. **TURKMENABAT NDB** - HW 326.000 NQ
N39°08.40' E63°34.80' 151° 3.7 NM to Fld. Unk/4°27.9'E Opr HO.

ILS/RADAR - ➡ ILS - BRG 330° LCZR IUT 110.3 GS 2.4° LOM UT 326

TURKMENBASHI ACC, TX **UTAK (R) (V) CON - 122.3** 122.3 **RDO - 4728**
VHF/DF 5B

TURKMENBASHI, TX **UTAK MIL/CIV** N40°03.80' E53°00.43' 279 UTC+5 **5B**
RWY-16 L7,12 (8202x144 CON PCN 26 R/A/X/T) L7,12 **RWY-34**

SERVICE - FUEL - (NC-TS-1) **OIL** - O-MK8 MS-20

REMARKS - CAUTION - Twy 2, 6 and 8 clsd.

COMMUNICATIONS - APP - 120.0 **REMARKS:** (Krug) **TWR** - 124.0 **REMARKS:** (Start)
GND - 121.7 **REMARKS:** (Taxiing) **TRANSIT** - 131.9

NAVAIDS - TURKMENBASHI VORW-DME - L 112.300 KRS CH 70 N40°05.10' E53°00.00'
166° 1.3 NM to Fld. 279/5°16.5'E **TURKMENBASHI NDB** - HW 350.000 CO N40°06.52'
E52°59.62' 167° 2.8 NM to Fld. Unk/5°17.0'E **TURKMENBASHI NDB** - HW 350.000 WZ
N40°01.10' E53°01.25' 347° 2.8 NM to Fld. Unk/5°15.2'E

ILS/RADAR - ➡ ILS - BRG 162° LCZR 110.3 GS 3° LOM CO 350 ■ **RADAR** - Call Krug 120.0

TURUKHANSK ACC, RS **UOTT** (CIV) **(R) (V) CON - 134.6** 134.6 **RDO - 3046** ngt
6704 daylgt **6F, G**

TURUKHANSK, RS **VORW-DME** - HA 113.700 THN CH 84 N65°47.00' E87°56.00'
144/(A)15°00.0'E **6F**

TVER MIGALOVO, RS See MIGALOVO

TYOPLY KLUCH, RS **NDB** - HHW 310.000 TV N62°46.10' E136°45.70' Unk/15°45.6'W
Opr HO **6H**

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TYOPLY KLYUCH ACC, RS **UEMH** (CIV) (R) **CON** - 132.3 Opr 2200-1200Z++ Sun and Mon-Fri, OT ctc Yakutsk CON on 134.3 for awy G494 abv FL266. **RDO** - (6692 daylight)(3102 ngt) 4712. **6H, 9B**

TYUMEN ACC, RS **USTR** (CIV) (R) **CON** - Sctr 023°-090° - 132.6 132.6 Sctr 090°-301° - 133.4 133.4 Sctr 301°-023° - 133.6 133.6 **6E, F**

TYUMEN NORTHWEST, RS See ROSCHINO

UELKAL, RS **NDB** - HHW 400.000 NB N65°31.00' W179°17.00' Unk/5°24.7'E Opr HO. **9D**

UFA ACC, RS **UWUU** (CIV) **CON** - Sctr 290°-082° - 126.9 Abv FL240 126.0 Blw FL240 Sctr 082°-290° - 132.5 Abv FL240 125.3 Blw FL240 **RDO** - 4712 **VHF/DF 2H, 6E**

UFA, RS **UWUU** CIV N54°33.45' E55°52.47' 449 UTC+5(+6DT) **6E**

RWY-01	(2215x345 GRE)	RWY-19
RWY-05	(2380x300 GRE)	RWY-23
RWY-14	(2115x315 GRE)	RWY-32
RWY-14L L5,36,50	(8245x164 CON PCN 53 R/B/X/T)	L5,36,50 RWY-32R
RWY-14R L3,4,5,10	(12339x197 CON PCN 57 R/A/W/T)	L4,5,36 RWY-32L

SERVICE - FUEL - (NC-TS1)

COMMUNICATIONS - ATIS - 124.8 **START** - (119.4 by ATC for Rwy 14R-32L) 120.9 119.4 124.0X **TAXIING** - 119.0 124.0X **KRUG** - Svc as TWR. (R) 120.9 120.4X **TRANSIT** - 131.7

NAVAIDS - UFA VORW-DME - HA 112.300 RG CH 70 N54°32.40' E55°53.20' 326° 1.1 NM to Fld. 469/12°11.5'E **UFA NDB** - HHW 212.000 RG N54°36.00' E55°50.70' 146° 2.8 NM to Fld. Unk/12°13.7'E **UFA NDB** - HHW 527.000 NM N54°30.80' E55°54.50' 324° 2.9 NM to Fld. Unk/12°10.7'E **UFA NDB** - HHW 527.000 PT N54°36.00' E55°49.40' 133° 3.1 NM to Fld. Unk/12°13.6'E **UFA NDB** - HHW 212.000 LZ N54°31.10' E55°58.30' 305° 4.1 NM to Fld. Unk/12°11.2'E

ILS/RADAR - ➡ILS 14R - BRG 141° LCZR IPT 110.3 GS 2.7° LOM PT 527 Opr HO. ➡**ILS** 14L - BRG 141° LCZR IRG 108.3 GS 2.7° LOM RG 212 Opr HO. ➡**ILS** 32R - BRG 321° LCZR ILZ 109.1 GS 2.7° LOM LZ 212 Opr HO.

UGOLNY, RS **UHMA** CIV N64°44.10' E177°44.49' 194 UTC+12(+13DT) **9D**
RWY-01 L7,23 (11483x196 CON PCN 43 R/A/X/T) **L7,23 RWY-19**

SERVICE - FUEL - (NC-TS1) **OIL** - O-MK8

REMARKS - Opr 2100-0700Z++ Thu-Tue, 2100-0800Z++ Wed. **RSTD** - First 558' of Rwy 01-19 unuse for tkof. **RWY** - First 2953' Rwy 01 PCN 58 R/A/X/T.

COMMUNICATIONS - ANADYR APP - Opr HO. 124.0 **ANADYR TWR** - Opr HO. Call **START**. 124.0 **ANADYR METRO** - Opr HO. 126.2

NAVAIDS - ANADYR NDB - HHW 790.000 KB N64°41.40' E177°42.60' 013° 2.8 NM to Fld. Unk/3°28.5'E Opr HO. **ANADYR NDB** - HHW 790.000 UX N64°47.10' E177°46.20' 190° 3.1 NM to Fld. Unk/3°31.0'E Opr HO. **VHF/DF**

ILS/RADAR - ■ RADAR - PAR - Call ANADYR TWR 124.0 Opr HO.

UIJU, KN **NDB** - HW 350.000 CR N40°12.44' E124°33.18' Unk/8°16.2'W **8E**

UKHTA ACC, RS **UUYH** (CIV) (R) **CON** - 124.2 124.2 **RDO** - (3422 ngt) (5596 daylight) 4712 **6E,F**

UKHTA, RS **VORW-DME** - HA 113.800 UHT CH 85 N63°33.60' E53°47.70' 472/(A)16°00.0'E **6E**

ULAANBAATAR ACC, MG (CIV) **CON** - 126.0 126.0 **MUREN SCTR** - **CON**
128.0 128.0 **SAINSHAND SCTR** - **CON** 126.5 126.5 **6G, H, 7B, C**

ULAANBAATAR, MG **VORW-DME** - HA 116.000 UDA CH 107 N47°52.06'
E106°44.02' 142° 2.0 NM to CHINGGIS KHAAN INTL. 3984/(A)4°00.0'W **NDB** - HW
315.000 DA N47°52.74' E106°43.13' 138° 2.9 NM to CHINGGIS KHAAN INTL.
Unk/4°01.0'W **VHF/DF 7C**

ULAANGOM, MG **NDB** - HW 315.000 US N49°55.59' E92°03.17' Unk/2°51.0'E **6G**

ULAN-UDE, RS **NDB** - MHW 349.000 ZD N51°49.20' E107°31.40' 262° 3.3 NM
to MUKHINO. Unk/4°46.9'W **6G**

ULYANOVSK, RS **NDB** - HHW 332.000 LS N54°16.00' E48°14.00' Unk/11°08.8'E Opr
HO. **NDB** - HHW 332.000 MR N54°16.00' E48°14.02' Unk/11°08.8'E Opr HO. **2H, 6E**

UNDERKHAAN, MG **NDB** - HW 400.000 UN N47°19.82' E110°39.83' Unk/5°42.9'W
7C

URA TYUBE, TI **NDB** - HW 385.000 PF N40°03.00' E68°57.00' Unk/4°24.8'E **5C**

URALSK ACC, KZ **UARR** (CIV) **(R) (V) CON** - 128.8 128.8 **RDO** - (8951 5586 day)
(4669 3440 ngt) 4712 **VHF/DF 3D, 5A, B, 6E**

URALSK, (PODSTEPNYY) KZ **UARR** CIV N51°09.05' E51°32.58' 125 UTC+5 **5A, 6E**
RWY-04 L5,20 (7874x138 CON PCN 19 R/B/X/T) L5,20 **RWY-22**

SERVICE - FUEL - (NC-TS-1, B91/115) **FLUID** - OX **OIL** - O-MS20 MK8

REMARKS - CAUTION - 1575' ASP Rwy 13-31 lctd on the N side of app end Rwy 04. 2789'
GRS Rwy 14-32 lctd off app end of Rwy 04. **MISC** - C141 PPR.

COMMUNICATIONS - TWR - 119.7

NAVAIDS - URALSK VORW-DME - HA 114.200 URL CH 89 N51°08.75' E51°32.45' At Fld.
121/(A)8°00.0'E **URALSK NDB** - HW 442.000 SK N51°07.38' E51°29.20' 052° 2.7 NM
to Fld. Unk/9°52.5'E **URALSK NDB/LOM** - HW 442.000 UR N51°10.73' E51°36.02' 232°
2.7 NM to Fld. Unk/9°54.8'E

ILS/RADAR - ➔ ILS - BRG 224° LCZR IUR 109.7 GS 2.4° LOM UR 442

URGENCH, UZ **UTNU** CIV N41°35.06' E60°38.50' 320 UTC+5 **5B**
RWY-13 L5,15,50 (11065x165 ASP PCN 59 F/B/X/T) L2,5,11,50 **RWY-31**

SERVICE - FUEL - (NC-TS-1) **FLUID** - OX

COMMUNICATIONS - APP - 126.0 **TWR** - 118.3

NAVAIDS - URGENCH VORW-DME - HA 114.200 URG CH 89 N41°35.00' E60°39.00'
At Fld. 322/5°33.9'E **URGENCH NDB** - HW 983.000 RG N41°37.20' E60°36.10' 134°
2.8 NM to Fld. Unk/5°34.9'E **URGENCH NDB** - HW 485.000 NU N41°32.60' E60°41.30'
314° 3.2 NM to Fld. Unk/5°32.8'E

ILS/RADAR - ➔ ILS - BRG 314° LCZR 109.5 GS/Unk LOM NU 983 ■ **RADAR** - ASR - Call
KRUG 118.3 Opr HO.

URGUT, UZ **NDB** - HW 635.000 DS N39°25.70' E67°14.60' Unk/4°19.1'E **5C**

URUMQI ACC, CH **ZWUQ** (CIV) **CON** - 119.3 119.3 **132.65** 132.65 Opr HO. 5658
(3467 1301-0100Z) (10018 0101-1300Z) **7A, B**

URUMQI, CH **VORW-DME** - HA 115.700 URC CH 104 N43°54.40' E87°28.50' At DIWOPU.
2151/2°48.0'E Opr HO. **7B**

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UST-BOLSHERETSK ACC, RS **UHPB** (CIV) (R) **CON** - **134.3** 134.3 RDO -
(11327 8822 daylt) (3413 6631 ngt). (PETROPAVLOVSK-KAMCHATSKY ACC) **9B**

UST-BOLSHERETSK, RS **NDB** - HHW 907.000 UB N52°49.00' E156°16.00'
Unk/7°18.3'W **9B**

UST-KAMCHATSK ACC, RS **UHPK** (CIV) (R) **CON** - **133.8** 133.8 Opr
2100-0700Z++. (PETROPAVLOVSK-KAMCHATSKY ACC FL266 and blw.) **9B**

UST-KAMCHATSK, RS **NDB** - HHW 410.000 UK N56°13.40' E162°41.10'
Unk/4°49.5'W Opr HO **9C**

UST KAMENOGORSK, KZ **UASK** CIV N50°02.20' E82°29.65'

(44UPA0700143769) 939 UTC+6(+7DT) **6F, 7A**

RWY-12 L7,20,50

(86234x138 ASP PCN 41 R/B/X/T)

L7,20,50 **RWY-30**

RWY-12L

(6088x200 GRS)

RWY-30R

SERVICE - FUEL - (NC-TS-1) **FLUID - OX OIL - MK-8**

REMARKS - Opr 0100-1400Z++ Mon, Fri, Sat, Sun; 0000-1400Z++ Tue; 0100-1300Z++ Wed,
Thu. **CSTMS/IMG** - Opr 0200-1600Z++.

COMMUNICATIONS - TWR - 134.5

NAVAIDS - UST KAMENOGORSK NDB/LOM - HW 345.000 SI N50°00.36' E82°32.92' 305°
2.8 NM to Fld. Unk/6°18.5'E **UST KAMENOGORSK NDB/LOM** - HW 345.000 US

N50°04.06' E82°26.22' 124° 2.9 NM to Fld. Unk/6°22.1'E

ILS/RADAR - ➔ **ILS** BRG 124° LCZR IUS 111.7 GS 3.0° LOM US 345 ➔ **ILS** BRG 304° LCZR ISI
109.7 GS 3.0° LOM SI 345

UST-KHAYRUZOVO ACC, RS **UHPU** (CIV) (R) **CON** - **128.0** 128.0 Opr
2000-0800Z++ Dly exp Sun. (PETROPAVLOVSK-KAMCHATSKY ACC) **9B, C**

UST-KHAYRUZOVO, RS **NDB** - HHW 965.000 UH N57°08.80' E156°46.10'
Unk/7°54.8'W Opr HO. **9B**

UST-LABINSK, RS **NDB** - HHW 330.000 NZ N45°13.00' E39°40.00' Unk/6°20.2'E **4J**

UST-MANA, RS **NDB** - HHW 662.000 UJ N55°56.00' E92°29.00' Unk/4°31.9'E **6G**

UST-MAYA ACC, RS **UEMU** **CON** - 118.1 Opr 0000-0900Z++ Mon-Fri. **RDO** - (5514
daylt)(3401ngt) 4712. **6H, 9B**

UST-TSILMA, RS **NDB** - HHW 780.000 HL N65°24.00' E52°12.00' Unk/19°28.0'E Opr
HO **NDB** - HHW 780.000 FS N65°24.02' E52°12.00' Unk/19°28.1'E **6E**

UYAR, RS **NDB** - HHW 300.000 RR N55°49.00' E94°18.00' Unk/3°24.8'E **6G**

UYTASH, RS **URML** CIV N42°49.01' E47°39.14' 12 UTC+3(+4DT) **5A**

RWY-14 L7,20

(8661x138 CON PCN 24 R/B/X/T)

L7,20 **RWY-32**

RWY-14R

(8688x230 GRS)

RWY-32L

SERVICE - FUEL - (NC-TS1)

COMMUNICATIONS - MAKHACHKALA APP - (R) 119.7

MAKHACHKALA TWR - Svc as START, TAXIING and KRUG. 121.3

NAVAIDS - MAKHACHKALA NDB - HHW 365.000 HC N42°51.30' E47°37.20' 142°

2.7 NM to Fld. Unk/6°10.5'E **MAKHACHKALA NDB** - HHW 365.000 SM N42°46.50'

E47°41.10' 324° 2.9 NM to Fld. Unk/6°09.1'E **MAKHACHKALA NDB** - HHW 822.000 TA

N42°58.50' E47°31.40' 143° 11.1 NM to Fld. Unk/6°12.7'E

ILS/RADAR - ➔ ILS - BRG 143° LCZR IHC 108.3 GS 2.7° LOM HC 365. ➔ **ILS** - BRG 323° LCZR
ISM 109.9 GS 2.7° LOM SM 365.

UZHGOROD INTL, UP **UKLU** CIV N48°38.06' E22°15.80' 383 UTC+2(+3DT) **1B**
RWY-10L7,12 (6686x131 CON PCN 29 F/D/X/T) L7,12 **RWY-28**
←4921

SERVICE - FUEL - (NC-A1)

REMARKS - Opr 0500-1900Z++. **CSTMS/IMG** - avbl HS

COMMUNICATIONS - APP - 121.9 **TWR** - 134.5

ILS/RADAR - ■ RADAR - PAR - Call UZHGOROD PRECISION 134.5

UZUNAGACH, KZ **NDB** - HW 345.000 UC N43°36.00' E76°19.57' Unk/4°57.4'E
5D, 7A

VAGANOVO, RS **NDB** - HW 1020.000 WW N54°27.00' E62°19.00' Unk/12°19.5'E **6E**

VANAVARA ACC, RS **UNIW** (CIV) (R) **CON** - 133.4 **6G**

VANAVARA, RS **NDB** - HHW 375.000 FO N60°22.00' E102°18.00' Unk/1°06.5'W Opr
HO. **6G**

VELIKIYE LUKI ACC, RS **ULOL** (CIV) (R) (V) **CON** - 129.3 129.3 **134.3x** 134.3x
RDO - 4696 **VHF/DF** **2E**

VELIKIYE LUKI, RS **VORW** - HA 108.200 WKL N56°22.70' E30°36.50' Unk/(A)6°40.0'E
2E

VEDEV, RS **NDB** - HHW 335.000 FV N54°21.00' E38°14.00' Unk/9°13.8'E **2F**

VERHNIE, UP **NDB** - HHW 334.000 VI N48°56.48' E23°02.59' Unk/4°23.0'E **1B**

VESCHEVO, RS **NDB** - HHW 458.000 WQ N60°39.40' E29°11.20' Unk/8°53.1'E **2E**

VILNIUS ACC, LH **EYVL** (CIV) (R) (V) **CON** - **Sctr W- 132.275** 132.275 **Sctr E- 133.3**
133.3 **Kaunas Info-** 124.6 Opr HO Blw FL95 **Palanga Info-** 118.3 Opr HO Blw FL95
Vilnius Info- 126.0 Opr SR-SS Blw FL95 **1B, C**

VILNIUS INTL, LH **EYVI** CIV N54°38.05' E25°17.15' 646 UTC+2(+3DT) **1C**
RWY-02L2,4,5,11,50 (8251x164 ASP PCN 83 F/D/X/T) L4,5,11,50 **RWY-20**

SERVICE - AOE **LGT** - PAPI on both sides of rwy. PAPI Rwy 02 GS 2.67°. **FUEL** - Avbl H24
(NC-100LL, A1) **FLUID** - De-Ice

REMARKS - Opr 0400-2100Z++, OT O/R fone C370 5 232 9323, fax-9122. **RSTD** - For
non-sched (charter) flt A/D avbl by arng only. Ctc gnd handling svc fone C370 5 232 93 24,
33, mobile C370 612 9 01 22. **CAUTION** - Bird haz. **MISC** - Ldg fees.

COMMUNICATIONS - **ATIS** - Opr H24. 125.8 **APP** - Opr H24. (R) (V) 120.7 .
TWR - Opr H24. (V) 118.2

NAVAIDS - **VILNIUS VORW-DME** - HA 113.800 VNO CH 85 N54°38.16' E25°17.62' At Fld.
635/(A)4°57.3'E **VILNIUS NDB/LMM** - MHW 385.000 AVN N54°39.21' E25°17.94' 196°
1.2 NM to Fld. Unk/5°55.7'E Opr HO **VHF/DF**

ILS/RADAR - ILS-DME - 02, 20

VILYUYSK, RS **NDB** - HHW 408.000 CZ N63°44.60' E121°47.00' Unk/14°21.9'W Opr
2200-1000Z++ **6H**

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VINNYTSIA, UP **DME** - L VIN CH 95 N49°14.38' E28°37.23' 994/5°36.0'E **1C, 3A**

VITEBSK, (VITSYEBSK SOUTHEAST) BO **UMII** CIV N55°07.59' E30°20.98' 682

UTC+2(+3DT) **2E**

RWY-06 L7,20,50

(8550x138 ASP PCN 26 R/B/X/T)

L7,20,50 **RWY-24**

SERVICE - FUEL - (NC-TS-1) **OIL** - O-MK-8

REMARKS - Opr by NOTAM.

COMMUNICATIONS - APP - Opr HO. Call APPROACH. Provides KRUG, TWR, START, and LANDING svc. **(R) (V)** 120.4 124.0X

NAVAIDS - VITEBSK VORW-DME - HA 112.700 VTB CH 74 N55°07.50' E30°21.20' At Fld. 662/(A)6°00.0'E **VITEBSK NDB** - HHW 524.000 WS N55°06.50' E30°16.60' 059° 2.7 NM to Fld. Unk/7°27.7'E Opr HO. **VITEBSK NDB** - HHW 524.000 UU N55°09.20' E30°25.80' 233° 3.2 NM to Fld. Unk/7°31.0'E Opr HO. **VHF/DF**

ILS/RADAR - ➔ **1LS** - BRG 236° LCZR IUU 111.9 GS 3.0° LOM UU 524 LMM U 1065 Opr HO. **■ RADAR** - APP - Call KRUG 120.4 Opr HO.

VITIM ACC, RS **UERT** (CIV) **(R) CON** - **133.8** 133.8 (KIRENSK ACC for all hgts.) **6G, H**

VITIM, RS **NDB** - HHW 365.000 WT N59°28.00' E112°32.00' Unk/8°40.9'W **6G**

VITSYEBSK SOUTHEAST, BO See VITEBSK

VITYAZEVO, RS **URKA** CIV N45°00.13' E37°20.84' 174 UTC+3(+4DT) **4I**

RWY-04 L7,39

(8202x138 CON PCN 25 R/B/X/T)

L7,20 **RWY-22**

SERVICE - FUEL - (NC-TS1)

REMARKS - Opr 0500-1700Z++.

COMMUNICATIONS - ANAPA APP - Opr HO. 118.7 **ANAPA TWR** - Opr HO. Call START. Also svc as TAXIING. 119.8

NAVAIDS - ANAPA NDB - HHW 443.000 AN N44°58.10' E37°18.30' 036° 2.7 NM to Fld. Unk/6°00.2'E Opr 0500-2000Z++ **ANAPA NDB** - HHW 443.000 AP N45°02.10' E37°23.50' 218° 2.7 NM to Fld. Unk/6°01.8'E Opr 0500-2000Z++ **VHF/DF**

ILS/RADAR - ➔ **ILS** - BRG 038° LCZR IAN 109.1 GS 3.0° LOM AN 443 OPR HO. **■ RADAR** - ASR - Call ANAPA KRUG 119.8.

VLADIKAVKAZ, RS **NDB** - HHW 1050.000 CH N43°12.90' E44°32.30' 095° 3.1 NM to BESLAN. Unk/6°09.2'E Opr HO. **5A, D**

VLADIKAVKAZ, RS See BESLAN

VLADIVOSTOK ACC, RS **UHHW** (CIV) **(R) CON** - **Sctr 1** - 135.9 **Sctr 2** - 134.1

126.9X **Sctr 3** - 133.7 **RDO** - (6589 daylight) (3461 ngt) 4465X 3906X. **8H, 9A**

VNUKOVO, RS **UUWW** CIV N55°35.49' E37°15.69' 685 UTC+3(+4DT) **2F, H, T-1E**

RWY-02 L2,5,39

(10039x197 ASP PCN 60 F/D/X/T)

L2,5,24 **RWY-20**

RWY-06 L2,4,5,39,50

(9842x197 ASP PCN 34 R/A/W/T)

L2,3,4,5,10,50 **RWY-24**

SERVICE - FUEL - (NC-TS1)

REMARKS - **RSTD** - First 328' of Rwy 02-20 and Rwy 06-24 unuse for tkof.

COMMUNICATIONS - ATIS - 125.875 **APP** - **(R) (V)** 122.3 124.4X 129.0X Blw FL39 **TWR** - Call START. 118.3 **TAXIING** - 120.45 **RADAR** - **(R) (V)** 126.0

NAVAIDS - VNUKOVO NDB/LOM - HW 468.000 WM N55°33.30' E37°14.00' 024° 2.4 NM to Fld. Unk/9°29.0'E **VNUKOVO NDB/LOM** - HW 290.000 GG N55°34.50' E37°11.20' 069° 2.7 NM to Fld. Unk/9°28.0'E **VNUKOVO NDB/LOM** - HW 468.000 TQ N55°38.30' E37°17.80' 203° 3.1 NM to Fld. Unk/9°31.0'E **VNUKOVO NDB/LOM** - HW 290.000 OB N55°36.70' E37°21.10' 239° 3.3 NM to Fld. Unk/9°32.1'E

ILS/RADAR - **ILS** **■ RADAR** - PAR - Call RADAR 126.0.

VOLCHANKA, RS **NDB** - HHW 460.000 GB N52°34.00' E49°59.00' Unk/10°28.5'E
2H, 6E

VOLGOGRAD GUMRAK, RS See GUMRAK

VOLOCHAEVKA, RS **NDB** - HHW 305.000 MR N48°34.00' E134°35.00'
Unk/11°42.2'W Opr O/R. **8H-9A**

VOLOGDA ACC, RS **ULWW** (CIV) (R) (V) **CON** - **122.9x** 122.9x **N Sctr- 131.3**
131.3 **S Sctr- 132.9** 132.9. **RDO** - 4672 **VHF/DF 2F, G, 6E**

VORKUTA ACC, RS **UUYW** (CIV) (R) **CON** - **134.1** 134.1 **124.0** 124.0 **RDO** - 4712
(5596 daylight)(3422 ngt) **6F**

VORKUTA, RS **NDB** - HHW 522.000 DW N67°29.30' E63°59.50' Unk/23°32.1'E Opr
HO. **6F**

VOSTOCHNY, RS **UWLW** CIV N54°24.06' E48°48.16' 252 UTC+3(+4DT) **2H, 6E**
RWY-02L4,5,33 (16404x323 CON PCN 63 R/A/W/T) L4,5,33 **RWY-20**

SERVICE - FUEL - (NC-TS1)

COMMUNICATIONS - ULYANOVSK APP - (R) 127.3 **TWR** - Call START and TAXIING.
124.2 **KRUG** - (R) 126.1

NAVAIDS - VOSTOCHNY VORW-DME - HA 113.700 UWS CH 84 N54°24.20' E48°48.90'
At Fld. 240/11°18.6'E **VOSTOCHNY NDB** - HW 408.000 UL N54°21.10' E48°45.20' 019°
3.4 NM to Fld. Unk/11°16.0'E **VOSTOCHNY NDB** - HW 408.000 WN N54°27.20'
E48°51.50' 212° 3.7 NM to Fld. Unk/11°20.0'E

ILS/RADAR - ➔ **ILS** - BRG 021° LCZR IUL 110.1 GS 2.7° LOM UL 408. ➔ **ILS** - BRG 201° LCZR
IWN 110.1 GS 2.7° LOM WN 408.

VOSTOCHNY, RS See KURSK

WAFANGDIAN, CH **NDB** - HW 552.000 BM N39°38.40' E121°43.30' Unk/7°34.0'W
Opr HO. **7C, 8G**

WANCHANG, CH **VORW-DME** - HA 115.900 LJB CH 106 N43°46.40' E125°51.10' 341°
15.2 NM to LONGJIA. 653/9°34.0'W Opr H24 **8H**

WANGBINGOU, CH **NDB** - HW 365.000 KY N41°42.30' E123°44.80' 252° 12.5 NM
to TAOXIAN. Unk/8°33.0'W Opr HO. **8G**

WANGQING, CH **VORW-DME** - HA 112.100 WQG CH 58 N43°17.70' E129°47.00'
1051/9°52.0'W **8H**

WEIHAI, CH **VORW-DME** - T 115.800 WEH CH 105 N37°11.20' E122°13.60'
At DASHUIPO. 145/6°59.2'W **8G**

WEINING, CH **NDB** - HW 285.000 HX N26°51.60' E104°16.90' Unk/1°31.0'W Opr HO.
7C, 8E

WEIXIAN, CH **VORW-DME** - HA 115.700 WXI CH 104 N36°21.80' E114°55.00'
206/5°6.0'W Opr HO. **NDB** - HW 345.000 JX N36°21.00' E114°55.00' Unk/5°5.0'W Opr
HO. **7C, 8G**

WENYAN, CH **NDB** - HW 572.000 WY N30°07.20' E120°12.00' 067° 13.8 NM
to XIAOSHAN. 1/4°47.0'W Opr HO. **7D, 8F**

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WONGYUAN, CH **NDB** - HW 342.000 WA N24°20.90' E114°06.80' Unk/2°37.0'W Opr
HO. **VORW-DME** - HA 113.900 WYN CH 86 N24°20.80' E114°06.70' 141/2°37.0'W Opr
HO. **7C, 8E**

WUFENGXI, CH **NDB** - HW 312.000 FR N30°36.40' E104°28.60' Unk/1°49.0'W Opr
HO. **VORW-DME** - HA 117.100 WFX CH 118 N30°36.20' E104°29.50' 1499/1°50.0'W Opr
HO. **7C, 8F**

WUHAN ACC, CH **ZHWH** CAAC **CON - AREA 1 - 118.9** 118.9 **133.75** 133.75 **AREA**
2 - 119.7 119.7 **132.95** 132.95 (0030-1200Z) **AREA 3 - 119.3** 119.3 **133.75** 133.75
(0001-1200Z) **RDO** - 8897(0001-1200Z) 3016 (1201-0000Z) 6571 (Opr HO) **7C, 8F**

WUHAN, CH **NDB** - HW 254.000 HG N30°55.50' E114°21.20' 222° 11.3 NM to TIANHE.
170/3°52.0'W Opr HO. **7C, 8F**

WUJIABA, (KUNMING) CH **ZPPP** CIV N24°59.54' E102°44.61' 6217 UTC+8 **8E**
RWY-03 L4,5,11,50 (11155x148 CON PCN 55 R/B/W/T) L4,5,11,50 **RWY-21**

SERVICE - AOE **FUEL** - (NC-100LL, J)

REMARKS - Opr HS or O/R.

COMMUNICATIONS - **ATIS** - Opr HO. 128.45 **KUNMING APP** - Opr HO. 124.25 127.9
Below 20,000 feet **KUNMING TWR** - Opr HO. 118.1 118.85 **KUNMING GND** - Opr HO.
121.85 121.65

NAVAIDS - **KUNMING VORW-DME** - HA 112.900 KMG CH 76 N25°01.00' E102°44.00'
159° 1.6 NM to Fld. 6421/1°12.0'W Opr HO. **KUNMING NDB** - MHW 225.000 LR
N24°52.25' E102°39.59' 032° 8.6 NM to Fld. 6781/1°12.0'W Opr HO.

HUNSHUITANG NDB - HW 443.000 QB N25°06.50' E102°56.00' 236° 12.5 NM to Fld.
Unk/1°14.0'W Opr HO.

ILS/RADAR - ➔ **ILS** - BRG 033° LCZR ILR 110.3 CH 76 GS 3° Opr HO. ➔ **ILS** - BRG 213° LCZR
IQB 109.7 LOM RW 200 GS 3.2° Opr HO.

WULUMUQI DIWOPU, CH See DIWOPU

WUSU, (TAIYUAN) CH **ZBYN** CIV N37°44.81' E112°37.71' 2575 UTC+8 **7C, 8F**
(B) **RWY-13** L4,5,11,50 (10500x148 CON PCN 73 R/B/W/T) L2,4,5,11,50 **RWY-31**

SERVICE - **FUEL** - (NC-J)

REMARKS - Opr HS or O/R. **CAUTION** - Bird haz. **CSTMS/AG/IMG** - Avbl.

COMMUNICATIONS - **TAIYUAN TWR** - Opr H24. 118.25 124.35

NAVAIDS - **TAIYUAN VORW-DME** - HA 113.100 TYN CH 78 N37°45.10' E112°37.20' At Fld.
2577/4°45.0'W Opr HO.

ILS/RADAR - ➔ **ILS-DME** - BRG 131° LCZR ICC 110.9 CH 78 GS 3.0° Opr HO. ➔ **ILS-DME** -
BRG 311° LCZR IBB 109.3 CH 78 GS 3.0° Opr HO.

WUTONG, CH **NDB** - HHW 286.000 PA N25°24.30' E110°03.60' Unk/2°10.0'W Opr HO.
7C, 8E

WUXI, CH **VORW-DME** - HA 113.900 VMB CH 86 N31°35.00' E120°20.00' 41/5°11.0'W
Opr HO. **7D, 8F**

WUXU, (NANNING) CH **ZGNN** MIL/CIV N22°36.50' E108°10.35' 421 UTC+8 **8E**
RWY-05 L2,4,5,A,50 (8858x148 CON PCN 49 R/B/X/T) L4,5,12 **RWY-23**

SERVICE - **FUEL** - (NC-J)

REMARKS - Opr HS or O/R. **CSTMS/AG/IMG** - Avbl.

COMMUNICATIONS - **NANNING TWR** - Opr HO. 130.0 118.2

NANNING GND - Opr HO. 121.75

NAVAIDS - **NANNING VORW-DME** - HA 114.500 NNG CH 92 N22°37.50' E108°11.80'
233° 1.7 NM to Fld. 420/1°34.0'W Opr HO.

ILS/RADAR - ➔ ILS-DME - BRG 047° LCZR IUY 110.9 CH 46 GS 3° LOM UY 256 Opr HO.

XI'AN ACC, CH **ZLXY** (CIV) **CON - AREA 1** - (**125.3** 125.3 **120.95** 120.95) **AREA 2**
- (**125.7** 125.7 **126.1** 126.1 Opr 0030-1230Z) 6571 (8897 Opr 0001-1200Z) (3016 Opr
1201-2400Z) **7C, 8F**

XI'AN, CH See XIANYANG

XIAMEN ACC, CH **ZSAM** (CIV) **CON - AREA 1** - **133.65** 133.65 **125.0** 125.0 **AREA**
2 - **125.7** 125.7 **125.0** 125.0 6571 (8897 0001-1200Z) (3016 1201-2400Z) **8F**

XIAMEN, CH **VORW-DME** - HA 114.500 XMN CH 92 N24°32.50' E118°07.30' At GAOQI.
98/3°12.0'W Opr HO. **8F**

XIANGTANG, CH **VORW-DME** - HA 112.700 KHN CH 74 N28°25.80' E115°55.40' 357°
26.1 NM to CHANGBEI INTL. 143/3°40.0'W **7C,8F**

XIANYANG, (XI AN) CH **ZLXY** CIV N34°26.83' E108°45.10' 1572 UTC+8 **7C, 8F**
RWY-05 L4,5,11,50 (9842x148 CON PCN 60 R/B/W/T) L2,3,4,5,11,50 **RWY-23**

SERVICE - FUEL - (NC-J)

REMARKS - Opr HS or O/R. **RSTD** - 180° turns on rwy proh. All A/C must follow guide to
and from apron. **CAUTION** - Bird haz. **CSTMS/AG/IMG** - Avbl.

COMMUNICATIONS - **ATIS** - Opr HO. 127.45 **APP** - Opr 24hr 119.6 126.55

TWR - Opr HO. 124.3 118.15 **GND** - Opr 2300-1400Z. 121.8 124.3

NAVAIDS - **XIANYANG VORW-DME** - HA 115.300 SIA CH 100 N34°26.80' E108°45.00'

At Fld. 1634/3°10.0'W Opr HO. **FENGHUO NDB** - HW 460.000 GF N34°33.20'

E108°37.80' 137° 8.8 NM to Fld. Unk/3°10.0'W Opr HO. **SANYUAN NDB** - HW 202.000

OD N34°35.90' E108°55.00' 222° 12.2 NM to Fld. Unk/3°14.0'W Opr HO.

YANZHUANG NDB - HW 359.000 ZS N34°13.30' E108°51.20' 340° 14.4 NM to Fld.

Unk/3°9.0'W Opr HO.

ILS/RADAR - ➔ ILS-DME - BRG 051° LCZR IGG 109.9 CH 100 GS 3° Opr HO. ➔ **ILS-DME** -
BRG 231° LCZR IMM 110.3 CH 100 GS 3° Opr HO. unuse btn 22-35.

XIAODANYANG, CH **NDB** - HW 440.000 ID N31°40.00' E118°42.90' 059° 8.8 NM
to LUKOU. Unk/4°55.0'W Opr HO. **8F**

XIAOSHAN, (HANGZHOU) CH **ZSHC** CIV N30°13.77' E120°26.07' 23 UTC+8 **7D, 8F**
RWY-07 L2,3,4,5,10,50 (11811x148 CON PCN 95 R/B/W/T) L4,5,11,50 **RWY-25**

SERVICE - **AOE FUEL** - (NC-J)

REMARKS - Opr HS or O/R. **RSTD** - PPR. SSR transponder rqr for tkof and ldg.
CSTMS/IMG - **AOE**

COMMUNICATIONS - **HANGZHOU ATIS** - Opr H24. 127.25

HANGZHOU APP AREA 2 - Opr H24. 126.05 119.15

HANGZHOU APP AREA 1 - Opr 0001-1400 125.55 119.15 **HANGZHOU TWR** - 118.3

130.0 **HANGZHOU GND** - 121.75

NAVAIDS - **HANGZHOU VORW-DME** - HA 113.000 GHG CH 77 N30°14.40' E120°27.50'

248° 1.4 NM to Fld. 43/4°52.0'W **DANGSHAN VORW-DME** - HA 117.300 DSH CH 120

N30°08.90' E120°29.90' 331° 5.9 NM to Fld. 43/4°51.0'W Opr HO. **WENYAN NDB** - HW

572.000 WY N30°07.20' E120°12.00' 067° 13.8 NM to Fld. 1/4°47.0'W Opr HO.

JIANQIAO NDB - HW 324.000 CJ N30°18.10' E120°09.80' 107° 14.7 NM to Fld.

1/4°50.0'W

ILS/RADAR - ➔ ILS - BRG 066° LCZR IXX 109.9 GS 3° Opr HO. ➔ **ILS** - BRG 246° LCZR IDD
108.5 GS 3° Opr HO.

XICHANG, CH **VORW-DME** - HA 114.200 XIC CH 89 N27°59.90' E102°10.80'
At QINGSHAN. 5121/1°18.0'W Opr HO. **7C, 8E**

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XILIUHETUN, CH **NDB** - HW 395.000 WF N39°57.00' E116°52.00' Unk/6°26.0'W
7C, D, 8G

XINGLIN, CH **NDB** - HW 296.000 WF N24°34.00' E118°01.00' 103° 6.2 NM to GAOQI.
Unk/3°11.0'W Opr HO. **8F**

XINGTANG, CH **NDB** - HHW 235.000 OC N38°27.10' E114°33.40' Unk/5°26.0'W Opr
HO. **7C, 8G**

XINZHENG, (ZHENGZHOU) CH **ZHCC** CIV N34°31.18' E113°50.45' 495 UTC+8 **7C, 8F**
RWY-12 L4,5,11,50 (11155x197 CON PCN 74 R/B/W/T) L4,5,11,50 **RWY-30**

SERVICE - FUEL - (NC-J)

REMARKS - Opr HS and O/R. **CSTMS/AG/IMG** - Avbl.

COMMUNICATIONS - ATIS - Opr HO. 128.45 **ZHENGZHOU TWR** - Opr HO. 130.0
118.3 **ZHENGZHOU GND** - Opr HO. 121.75

NAVAIDS - ZHENGZHOU VORW-DME - HA 114.500 CGO CH 92 N34°30.90' E113°50.60'
At Fld. 495/4°28.0'W Opr HO. **XINZHENG NDB** - HW 256.000 KV N34°45.70'
E113°46.50' 167° 14.9 NM to Fld. Unk/4°30.0'W Opr HO. **XINZHENG NDB** - HW
256.000 JG N34°47.20' E113°40.20' 152° 18.1 NM to Fld. Unk/4°29.0'W Opr HO.

ILS/RADAR - **→ILS-DME** - BRG 116° LCZR IFF 110.3 CH 40 GS 3.0° Opr HO. **→ILS-DME** -
BRG 296° LCZR IAA 109.3 CH 30 GS 3.0° Opr HO.

XISHUANGBANNA, CH **VORW-DME** - HA 116.300 BNN CH 110 N21°59.08'
E100°45.15' At GASA. 1840/0°54.0'W **8E**

XISHUI, CH **VOR-DME** - HA 115.400 XSH CH 101 N30°26.30' E115°16.20' 141/3°59.0'W
NDB - HW 384.000 SY N30°26.50' E115°15.90' 170/3°59.0'W Opr Ho **7C,8F**

XUEJIADAO, CH **VORW-DME** - HA 117.000 XJT CH 117 N35°57.70' E120°14.40' 020°
19.4 NM to LIUTING. 70/6°17.0'W **8G**

XUYONG, CH **VORW-DME** - HA 116.700 XYO CH 114 N28°10.20' E105°25.40'
1390/1°46.0'W Opr HO. **7C, 8E**

YABRAI, CH **NDB** - HW 363.000 DY N39°24.20' E102°48.80' Unk/1°57.0'W Opr HO.
VORW-DME - HA 115.700 YBL CH 104 N39°25.70' E102°46.30' 4026/1°58.0'W **7B**

YAHOTYN, UP **NDB** - HHW 385.000 JA N50°15.89' E31°47.59' Unk/6°29.0'E
1D, 3A, T-1F

YAKUTSK ACC, RS **UEEE** (CIV) **(R) CON** - **Sctr W** - 132.9 **Sctr E** - 134.3 **RDO** -
4712. **6H**

YAKUTSK, RS **UEEE** CIV N62°05.59' E129°46.24' 325 UTC+9(+10DT) **6H, 9B**
RWY-05L L7,9,20 (8202x161 CON PCN 18 R/B/X/T) L7,9,20 **RWY-23R**

RWY-05R L7,9,20 (11155x197 CON PCN 45 R/B/X/T) L5,9,11 **RWY-23L**
8190→

SERVICE - FUEL - (NC-TS-1)

COMMUNICATIONS - ATIS - 126.2 **APP** - Opr HO. **(R) 129.3 TWR** - Opr HO. Call START.
(R) 120.0 GND - Opr HO. Call TAXIING. 121.7 **ASR** - Opr HO. Call KRUG. **(R) 120.3**

NAVAIDS - YAKUTSK NDB - HHW 290.000 UD N62°08.00' E129°48.60' 221° 2.7 NM to Fld.
Unk/15°47.4'W Opr HO. **YAKUTSK NDB** - HHW 334.000 MF N62°08.00' E129°50.10'
233° 3.0 NM to Fld. Unk/15°47.5'W Opr HO. **YAKUTSK NDB** - HHW 334.000 VD
N62°03.10' E129°42.40' 052° 3.1 NM to Fld. Unk/15°45.5'W Opr HO. **VHF/DF**

ILS/RADAR - ➔ ILS - BRG 233° LCZR IMF 111.7 GS 3.0° LOM MF 334 Opr HO. ➔ **ILS** - BRG 226° LCZR IUD 109.7 GS 2.4° LOM UD 290 Opr HO ■ **RADAR** - ASR - Call KRUG 120.3 Opr HO. PAR - Call TWR 120.0 Opr HO.

YALTA, UP **NDB** - HHW 274.000 JL N44°29.08' E34°08.11' Unk/5°31.0'E **4I**

YANJI, CH **ZYYJ** CIV N42°52.97' E129°27.08' 624 UTC+8 **8H**
RWY-09 L4,5,11,50 (8530x148 CON PCN 56 R/B/W/T) L4,5,11 **RWY-27**

SERVICE - FUEL - (NC-J)

REMARKS - Opr HS or O/R. **CAUTION** - Do not mistake lgtd arpt rd for rwy.

COMMUNICATIONS - TWR - Opr HO. 130.0 118.75

NAVAIDS - YANJI VORW-DME - HA 113.100 YNJ CH 78 N42°53.00' E129°26.15' At Fld. 661/9°43.0'W Opr HO. **DEXIN NDB** - MHW 332.000 JA N42°52.20' E129°20.30' 081° 5.0 NM to Fld. Unk/9°42.0'W Opr HO.

ILS/RADAR - ➔ ILS - BRG 091° LCZR IJA 108.7 GS 3° LOM JA 332 Opr HO.

YANTAI, CH **VORW-DME** - HA 112.500 YNT CH 72 N37°23.20' E121°21.40' 039° 1.1 NM to LAISHAN. 51/6°53.0'W Opr HO. **8G**

YANZHUANG, CH **NDB** - HW 359.000 ZS N34°13.30' E108°51.20' 340° 14.4 NM to XIANYANG. Unk/3°9.0'W Opr HO. **7C, 8F**

YAOQIANG, (JINAN) CH **ZSJM** CIV N36°51.43' E117°12.96' 76 UTC+8 **7C, 8G**
RWY-01 L2,4,6,11,50 (11814x148 CON PCN 83 R/B/W/T) L4,6,11,50 **RWY-19**

SERVICE - FUEL - (NC-J)

REMARKS - Opr HS or O/R. **RSTD** - SSR transponder rqr for tkof and ldg. **CSTMS/AG/IMG** - Avbl.

COMMUNICATIONS - ATIS - 127.05 **JINAN TWR** - Opr H24. 118.55 130.0

NAVAIDS - JINAN VORW-DME - HA 113.700 YQG CH 84 N36°49.80' E117°13.00' 005° 1.6 NM to Fld. 76/5°48.0'W Opr HO.

ILS/RADAR - ➔ ILS-DME - BRG 005° LCZR IFF 108.9 CH 84 GS 3° Opr HO.

YEDINKA, RS **NDB** - HHW 310.000 DE N47°12.00' E138°42.00' Unk/10°56.2'W Opr 0100-1000Z+-. **9A**

YEGORLYKSAYA, RS **NDB** - HHW 435.000 ER N46°35.00' E40°40.00' Unk/6°51.1'E **4J**

YEKATERINBURG ACC, RS **USSS** (CIV) **(R) (V) CON** - Sctr 190°-330° - 133.5 133.5 Sctr 330°-190° - 133.9 133.9 **RDO** - 4712 **6E, F**

YEKATERINBURG KOLTSOVO, RS See KOLTSOVO

YELIZOVO, (PETROPAVLOVSK KAMCHATSKY YELIZOVO) RS **UHPP** CIV
N53°10.07' E158°27.22' 131 UTC+12(+13DT) **9B**
RWY-12 (735x50 ASP) **RWY-30**
RWY-16L (11155x197 CON PCN 42 R/A/X/T) L5,33 **RWY-34R**
RWY-16R (8235x197 CON) **RWY-34L**

SERVICE - FUEL - (NC-TS-1)

COMMUNICATIONS - TWR - Call PETROPAVLOVSK START, also svc as TWR and LANDING. 118.1 **ASR** - Call PETROPAVLOVSK KRUG. **(R)** 119.4

NAVAIDS - YELIZOVO NDB - HHW 535.000 PR N53°06.80' E158°29.40' 345° 3.5 NM to Fld. Unk/6°21.8'W Opr HO. **VHF/DF**

ILS/RADAR - ➔ ILS - BRG 343° LCZR IPR 110.3 GS 2.4° LOM PR 535. ■ **RADAR** - ASR - Call PETROPAVLOVSK KRUG 119.4.

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YELOVAYA, RS See YEMELYANOVO

YEMELYANOVO, RS **UNKL** CIV N56°10.38' E92°29.60' 942 UTC+7(+8BDT) **6G**
RWY-11 L5,9,33,50 (12150x197 ASP PCN 70 R/B/X/T) L5,9,33,50 **RWY-29**

SERVICE - FUEL - (NC-TS1)

COMMUNICATIONS - KRASNOYARSK APP - (R) (V) 127.7 124.0X 129.0X
KRASNOYARSK TWR - Call START. 118.3 **KRASNOYARSK TAXIING** - 121.9

NAVAIDS - KRASNOYARSK VORW-DME - HA 113.200 KRS CH 79 N56°10.20' E92°30.50'
At Fld. 965/(A)4°00.0'E **KRASNOYARSK NDB** - HHW 334.000 AJ N56°11.60' E92°24.40'
108° 3.2 NM to Fld. Unk/4°40.7'E **KRASNOYARSK NDB** - HHW 334.000 BK N56°09.00'
E92°35.10' 289° 3.4 NM to Fld. Unk/4°33.3'E **VHF/DF**

ILS/RADAR - ➔ ILS - BRG 108° LCZR IAJ 110.5 GS 3.0° LOM AJ 334. ➔ **ILS** - BRG 288° LCZR
IBK 111.7 GS 3.0° LOM BK 334. ■ **RADAR** - PAR- Call KRASNOYARSK KRUG 122.0.

YENISEYSK, RS **VORW-DME** - HA 112.300 ENS CH 70 N58°28.00' E92°07.10'
253/5°50.9'E **NDB** - HHW 253.000 RD N58°28.00' E92°07.10' Unk/5°50.9'E Opr HO. **6G**

YEREVAN ACC, AM **UDDD (R) (V) CON** - **128.8** 128.8 **124.0** 124.0 **RDO** - 8918
Intl. (4712 rpt rqr 80-110 NM prior to crossing Dulav CRP.) **VHF/DF 5A**

YEREVAN, AM **VORW-DME** - HA 112.300 ZVR CH 70 N40°08.83' E44°22.02' 085°
1.3 NM to ZVARTNOTS. 2824/(A)5°00.0'E **NDB** - MHW 496.000 ER N40°08.76'
E44°28.95' 266° 4.0 NM to ZVARTNOTS. Unk/5°17.9'E **NDB/LOM** - HW 395.000 ZR
N40°08.82' E44°19.69' 085° 3.1 NM to ZVARTNOTS. Unk/5°17.7'E **5A**

YEVLA KH AUX ACC, AJ **UBEE** (CIV) **(R) CON** - **133.3** 133.3 Opr 0400-1700Z++.
(BAKU ACC for up to FL197.) **5A**

YEVLA KH, AJ **NDB** - HW 409.000 ED N40°36.40' E47°11.00' Unk/5°28.4'E Opr
0100-1700Z++ **5A**

YIBIN, CH **VORW-DME** - HA 116.500 YBN CH 112 N28°47.90' E104°33.40' 937/1°42.0'W
Opr HO. **7C, 8E**

YIJUN, CH **NDB** - HHW 387.000 SG N35°22.80' E109°06.70' Unk/3°24.0'W Opr HO.
VORW-DME - HA 113.000 YIJ CH 77 N35°22.80' E109°06.40' 4812/3°24.0'W Opr HO.
7C, 8F

YINCHUAN, CH **VORW-DME** - HA 112.900 YNC CH 76 N38°19.40' E106°23.80'
3690/2°57.0'W Opr HO. **7C, 8F**

YINGDE, CH **VORW-DME** - HA 113.500 YIN CH 82 N24°12.40' E113°24.60' 84/2°30.0'W
Opr HO. **NDB** - HW 310.000 VB N24°12.20' E113°24.50' Unk/2°30.0'W Opr HO. **7C, 8E**

YONGFU, CH **NDB** - HW 281.000 JW N25°00.40' E110°01.10' Unk/2°7.0'W Opr HO.
7C, 8E

YUANTAN, CH **VORW-DME** - HA 108.600 TAN CH 23 N23°40.10' E113°14.40' 169°
16.8 NM to BAIYUN INTL. 598/2°23.0'W Opr H24 **7D, 8E**

YUKHNOV, RS **NDB** - HHW 350.000 UK N54°44.00' E35°13.00' Unk/8°39.0'E **2F**

YUNHE, CH **NDB** - HW 244.000 BZ N28°05.00' E119°34.00' Unk/4°11.0'W Opr HO. **8F**

YUZHNO-SAKHALINSK ACC, RS **UHSS** (CIV) (R) (V) **CON - 129.4** 129.4
124.0x 124.0x **RDO** - 6692 7870 daylt 3102 ngt **9A, B**

YUZHNO SAKHALINSK KHOMUTOVO, RS See **KHOMUTOVO**

YUZHNY, (TASHKENT YUZHNY) UZ **UTTT** CIV N41°15.47' E69°16.87' 1417 UTC+5 **5C**
RWY-08L L2,3,4,5,10,50 (13123x197 CON PCN 84 R/B/X/U) L2,4,5,11,50 **RWY-26R**
12303→ ←12303
RWY-08R L2,7,11,50 (12812x148 ASP PCN 60 F/B/X/U) **L7 RWY-26L**
12162→ ←12132

SERVICE - AOE **FUEL** - (NC-TS-1) **FLUID** - OX **OIL** - O-MK8

REMARKS - **RSTD** - The last 492' of Rwy 08R unuse for tkof and ldg. The last 820' of Rwy 26L unuse for tkof, the last 492' unuse for ldg. **CAUTION** - Twy 6 clsd. **MISC** - Prk stands 8A and 9A avbl for B747 acft.

COMMUNICATIONS - **ATIS** - 126.8 **REMARKS:** (Russian-English)

TASHKENT APP - 125.2 **REMARKS:** (R) **TASHKENT TWR** - 120.4 **REMARKS:** (Tashkent Tower) **TASHKENT GND** - 121.7 **TASHKENT DELIVERY** - 129.4

TASHKENT KRUG - 119.4 **REMARKS:** (R)

NAVAIDS - **TASHKENT VORW-DME** - HA 113.200 TKT CH 79 N41°15.60' E69°17.40'
At Fld. 1414/(A)5°00.0'E **TASHKENT NDB/LOM** - HW 285.000 FD N41°15.87' E69°20.62'
257° 2.9 NM to Fld. Unk/4°50.7'E Opr HO. **TASHKENT NDB/LOM** - HW 340.000 ZW
N41°15.00' E69°13.10' 076° 2.9 NM to Fld. Unk/4°51.1'E Opr HO.
TASHKENT NDB/LOM - HW 285.000 NG N41°15.10' E69°12.90' 078° 3.0 NM to Fld.
Unk/4°51.1'E **VHF/DF**

ILS/RADAR - ➔ **ILS** - 08L BRG 077° LCZR ING 110.5 GS 2.67° LOM NG 285 ➔ **ILS** - 26R BRG
257° LCZR IFD 108.5 GS 2.67° LOM FD 285 ■ **RADAR** - ASR - Call Tashkent Krug 119.4

ZABAYKALSK, RS **NDB** - HHW 684.000 NV N49°39.00' E117°20.00' Unk/8°57.1'W
OprO/R **VORW** - HA 112.300 ZBK N49°38.80' E117°20.00' 2315/8°56.8'W **6H, 8H**

ZADONSK, RS **NDB** - HHW 360.000 TS N52°23.00' E38°56.00' Unk/8°36.0'E **3B**

ZAELTSOVSKY, RS **NDB** - HHW 860.000 PG N55°04.70' E82°53.70' Unk/8°47.1'E **6F**

ZAKHAROVKA, RS **NDB** - HHW 688.000 IP N54°44.00' E36°39.00' Unk/9°00.4'E
2F, T-1E

ZANGANGZHEN, CH **NDB** - HW 403.000 JB N39°02.60' E116°11.90' 250/6°3.0'W
Opr HO **7D,G,8G**

ZAPORIZHZHIA INTL, UP **UKDE** CIV N47°52.02' E35°18.94' 373 UTC+2(+3DT)
3B
RWY-02 L7,12 (8210x138 CON PCN 41 R/C/X/T) L7,12 **RWY-20**

SERVICE - **FUEL** - (NC-A1) **OIL** - O-MS20, MK8P, AMG10, SM4.5

REMARKS - **CSTMS/IMG** - avbl

COMMUNICATIONS - **APP** - 118.2 **TWR** - 118.2 **METEO** - 126.4

ILS/RADAR - ➔ **ILS** - BRG 018° LCZR IZA 110.3 GS 2.7° LOM ZA 295 LMM A 608 ➔ **ILS** - BRG
198° LCZR IZP 111.7 GS 2.7° LOM ZP 295 LMM P 608.

ZEDANG, CH **NDB** - HW 435.000 DM N29°15.50' E91°45.90' 13000/0°9.0'W **7B**

ZELENGA, RS **NDB** - HHW 905.000 ZG N46°11.00' E48°37.00' Unk/7°25.2'E **5A**

ZEMETCHINO, RS **NDB** - HHW 978.000 HB N53°31.00' E42°37.00' Unk/9°47.8'E **3C**

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ZENZELI, RS **NDB** - HHW 337.000 UP N45°56.00' E47°04.00' Unk/7°13.5'E Opr HO.
3D, 5A

ZHALAL-ABAD, KG **NDB** - HW 600.000 DA N40°56.60' E72°58.90' Unk/4°22.0'E Opr
0100-1500Z+-. 5D, 7A

ZHAMBYL ACC, KZ See TARAZ ACC

ZHELTOYE, RS **NDB** - HHW 1005.000 VL N51°38.00' E56°36.00' Unk/10°29.0'E Opr
HO. 6E

ZHENG DING, (SHIJIAZHUANG) CH **ZBSJ** CIV N38°16.84' E114°41.84' 233 UTC+8
7C, 8G
RWY-15 L4,5,9,11,50 (11170x150 CON PCN 63 R/B/W/T) L2,4,5,9,11,50 RWY-33
SERVICE - FUEL - (NC-J)
REMARKS - Opr HS or O/R. **CSTMS/AG/IMG** - Avbl.
COMMUNICATIONS - **SHIJIAZHUANG TWR** - Opr H24. 118.35 130.0
NAVAIDS - ZHENG DING VORW-DME - HA 117.700 SJW CH 124 N38°16.80' E114°42.10'
At Fld. 223/5°26.0'W Opr HO.
ILS/RADAR - ➔ **ILS-DME** - BRG 152° LCZR IOO 109.9 CH 124 GS 3.0° Opr HO. ➔ **ILS-DME** -
BRG 332° LCZR IWW 110.3 CH 40 GS 3.0° Opr HO.

ZHENGZHOU ACC, CH **ZHCC** CAAC **CON - N 5ctr - 119.35** 119.35 **127.5** 127.5
5 5ctr - 132.85 132.85 **122.2** 122.2 (0030-1230Z) **RDO** - 8897 (0001-1200Z) 3016
(1201-0000Z) 6571 **7C, 8F**

ZHENGZHOU, CH **VORW-DME** - HA 114.500 CGO CH 92 N34°30.90' E113°50.60'
At XINZHENG. 495/4°28.0'W Opr HO. **7C, 8F**

ZHEZKAZGAN ACC, KZ **UAKD (R) CON - 132.5** 132.5 **135.6** 135.6 **RDO** -
(8951 daylight) (4669 ngf) 4728 **VHF/DF 5B, C, 6E, 7A**

ZHEZKAZGAN, KZ **VORW-DME** - HA 113.300 DZG CH 80 N47°43.17' E67°45.55'
1250/7°56.5'E **6E, 7A**

ZHIGALOVO, RS **NDB** - HHW 445.000 MX N54°48.00' E105°09.00' Unk/3°34.1'W **6G**

ZHIGANSK ACC, RS **UEVV** (CIV) **(R) CON** - 134.2 Opr 0000-1330Z Mon-Fri, Sat-Sun
ATC only for awy B489, G491, R494. **RDO** - 4712 Opr 0000-1330Z. **6G,H**

ZHIGANSK, RS **NDB** - HHW 441.000 VG N66°44.30' E123°24.20' Unk/15°30.9'W Opr
HO. **6H**

ZHIGULI, RS **NDB** - HHW 1112.000 RL N53°21.00' E49°18.00' Unk/10°48.4'E **2H, 6E**

ZHONGCHUAN, (LANZHOU ZHONGCHUAN) CH **ZLLL** CIV N36°30.91' E103°37.20'
6388 UTC+8 **7B, 8F**
RWY-18 L4,5,14,50 (11811x148 CON PCN 75 R/B/W/T) L4,5,11,50 RWY-36
SERVICE - FUEL - (NC-J)
REMARKS - Opr HS or O/R. **CAUTION** - Do not mistake arpt access road lgts for rwy lgts.
Bird haz.
COMMUNICATIONS - **LANZHOU TWR** - Opr HO. 118.1 130.0
NAVAIDS - LANZHOU VORW-DME - HA 114.300 ZGC CH 90 N36°30.90' E103°37.50'
At Fld. 6388/2°2.0'W Opr HO. **ZHONGHE NDB** - HHW 198.000 YM N36°14.10'
E103°48.00' 333° 18.9 NM to Fld. 6373/2°4.0'W Opr HO.

ILS/RADAR - ➔ ILS-DME - BRG 180° LCZR IKQ 108.5 CH 90 LOM KQ 237 GS 3.0° Opr HO.
➔ **ILS-DME** - BRG 360° LCZR IYY 109.3 CH 30 GS 3.0° Opr HO.

ZHONGHE, CH **NDB** - HW 435.000 DM N29°15.50' E91°45.90' 13000/0°9.0'W **7B,8F**

ZHOUKOU, CH **VORW-DME** - HA 115.500 ZHO CH 102 N33°39.70' E114°38.50'
335/4°28.0'W Opr HO. **NDB** - MHW 409.000 DO N33°37.00' E114°39.00' Unk/4°28.0'W
Opr HO. **7C, 8F**

ZHOUSHAN, CH **VORW-DME** - HA 112.300 HSN CH 70 N29°55.90' E122°21.70'
2/5°3.0'W Opr HO. **7D, 8F**

ZHOUSHUIZI, (DALIAN) CH **ZYTL** MIL/CIV N38°57.94' E121°32.32' 107 UTC+8
7C, 8G
RWY-10L4,5,11 (10827x148 CON PCN 61 R/B/W/T) L4,5,11 **RWY-28**
10177→ ←10507

SERVICE - FUEL - (NC-J)

REMARKS - Opr HS or O/R. **CSTMS/AG/IMG** - Avbl.

COMMUNICATIONS - ATIS - Opr HO. 126.65 **DALIAN APP** - 0100-1200 123.85 127.95
DALIAN TWR - Opr HO. 118.25 118.85

NAVAIDS - DALIAN VORW-DME - HA 112.300 DLC CH 70 N38°57.60' E121°30.80' 074°
1.2 NM to Fld. 141/7°20.0'W Opr HO. **FUJIAZHUANG NDB** - HW 414.000 FC
N38°52.40' E121°38.20' 320° 7.2 NM to Fld. Unk/7°21.0'W Opr HO.

ILS/RADAR - ➔ ILS-DME - BRG 099° LCZR IZF 109.1 CH 70 GS 3.3° LOM ZF 391 Opr HO. ➔
ILS-DME - BRG 282° LCZR IKD 111.1 CH 70 GS 3.0° LOM KD 530 Opr HO.

ZHULIANY INTL, (KYIV ZHULIANY) UP **UKKK** CIV N50°24.10' E30°26.98' 586
UTC+2(+3DT) **1D, 3A, T-1F**
RWY-08L7,12,50 (5905x161 CON PCN 23 R/C/X/T) L7,12 **RWY-26**

SERVICE - AOE FUEL - (NC-A1)

REMARKS - Opr 0500-2000Z++. **CSTMS/IMG** - Avbl. **MISC** - Fone C+380 44 249 01 00

COMMUNICATIONS - KYIV RADAR - Opr 0600-2000Z++ 123.0 **ARR** - Opr
0600-2000Z++ 122.5 **TWR** - Opr 0600-2000Z++ 122.5 **GND** - Opr 0600-2000Z++ 119.0
METEO - Opr 0600-2000Z++ 126.8

ILS/RADAR - ➔ ILS BRG 081° 3.0° LOM KI 360 LMM I 733 ➔ **ILS** BRG 261° 3.0° LOM KV 360
LMM V 733 ■ **RADAR** - ASR - Call ZHULYANY RADAR 120.0, PAR - Call ZHULIANY
PRECISION 122.5

ZHULIAO, CH **NDB** - HW 228.000 PH N23°21.80' E113°22.30' Unk/2°20.0'W Opr HO.
7D, 8E

ZIYANG, CH **VORW-DME** - HA 112.100 ZYG CH 58 N30°06.90' E104°40.60'
1285/1°50.0'W Opr HO. **7C, 8F**

ZOLOCHIV, UP **NDB** - HHW 265.000 ZL N49°48.18' E24°54.09' Unk/4°55.0'E **1C**

ZONGHE, CH **NDB** - HHW 198.000 YM N36°14.10' E103°48.00' 333° 18.9 NM
to ZHONGCHUAN. 6373/2°4.0'W Opr HO. **7C, 8F**

ZVARTNOTS, AM **UDYZ** CIV N40°08.84' E44°23.75' 2838 UTC+4(+5DT) **5A**
RWY-09L2,4,5,10 (12629x184 ASP PCN 70 F/C/X/T) L4,5 **RWY-27**

SERVICE - AOE FUEL - (NC-A1) **OIL** - O-MK8

REMARKS - MISC - Section of the main twy btn Twy 2 and Link A is not avail to acft types
IL-76 and 86.

COMMUNICATIONS - ATIS - 119.5 **YEREVAN APP - (R) (V)** 126.0 124.0
YEREVAN TWR - (V) 128.0 124.0 **YEREVAN GND** - 119.0

AIRPORT/FACILITY DIRECTORY B-92

NAVAIDS - YEREVAN VORW-DME - HA 112.300 ZVR CH 70 N40°08.83' E44°22.02' 085°
1.3 NM to Fld. 2824/(A)5°00.0'E **YEREVAN NDB/LOM** - HW 395.000 ZR N40°08.82'
E44°19.69' 085° 3.1 NM to Fld. Unk/5°17.7'E **YEREVAN NDB** - MHW 496.000 ER
N40°08.76' E44°28.95' 266° 4.0 NM to Fld. Unk/5°17.9'E **VHF/DF**

ILS/RADAR - ILS

ZYRYANKA ACC, RS **UESU** (CIV) (R) **CON** - 132.2 Opr 2200-1000Z++ Mon-Sat.
RDO - 4712 5550 Opr 2200-1000Z++ Mon-Sat. **6H, 9B, C**

SECTION C

THEATER FLIGHT DATA/PROCEDURES

TABLE OF CONTENTS

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Radio Navigational Aids by Identification	C-6



THEATER FLIGHT DATA/PROCEDURES C-2

ADIZ PROCEDURES

No Air Defense Identification Zones (ADIZ) established within Eastern Europe and Asia.

CRUISING ALTITUDES

1. MAXIMUM AUTHORIZED ALTITUDE/MAA -

a. FAA AREAS - A published altitude representing the maximum usable altitude or Flight Level for an airspace structure or route segment. It is the highest altitude on a federal airway, jet route, area navigation low or high route, or other direct route for which a Minimum Enroute Altitude is designated at which adequate reception of navigation aid signals is assured.

Example - the establishment of an MAA at 40,000' MSL means that adequate reception on a jet route so designated is assured up to, and including 40,000' MSL.

b. FOREIGN AREAS - Maximum authorized altitudes denote the highest altitude allowed along an airway, air route, corridor, etc. In this area, MAAs are established by national states for various reasons to restrict flight above designated altitudes.

2. MINIMUM CROSSING ALTITUDE/MCA - The lowest altitude at certain fixes at which an aircraft must cross when proceeding in the direction of a higher Minimum Flight Altitude (MFA). A climb to these altitudes before reaching the point is mandatory.

3. MINIMUM FLIGHT ALTITUDE/MFA (NGA) - A Minimum Flight Altitude is normally the lower vertical limit of an ATS route. FLIP Enroute Charts that require the depiction of vertical limits along an ATS route segment will not be required to show any additional MFA value (unless a host nation publishes an MFA higher than the lower vertical limit). Charts requiring the depiction of the MFA value only, will publish the lower limits of the ATS route (or the host country MFA) as the MFA. If a host country does not publish or provide NGA with an ATS route vertical limit or MFA, then NGA will compute and publish an MFA assuring 3000' terrain clearance within 5 NM of the ATS route centerline.

NOTE: NGA MFA value will be preceded by a pound number sign (#) to indicate a NGA derived MFA.

4. MINIMUM RECEPTION ALTITUDE/MRA - The lowest altitude required to receive adequate signals to determine specific VHF omnirange/tactical air navigation fixes.

5. ADVISORY ROUTES/ADR - A route within a Flight Information Region along which Air Traffic Advisory Service is available.

NOTE 1: Air Traffic Control service provides a much more complete service than Air Traffic Advisory Service; Advisory Areas and Routes are therefore not established within controlled airspace, but Air Traffic Advisory Service may be provided below and above Control Areas.

NOTE 2: ADRs are numbered with odd numbers indicating N & S and even numbers E & W. When flying ADRs, entry clearance into control areas must be obtained. ADRs do not meet criteria for controlled air routes. They are never controlled and only information service is provided. Pilots are responsible for flying correct flight levels, and national agencies will provide positive traffic information based only on known traffic. Standard airway reporting procedures must be followed by U.S. military pilots, and reports made when leaving and arriving chosen altitude.

NOTE 3: This does not mean all aircraft are utilizing the positive advisory service; therefore, collision hazards still exist.

6. FLIGHT LEVELS (FL) - Surfaces of constant atmospheric pressure which are related to a specific pressure datum, 29.92 inches (1013.2 millibars), and are separated by specific pressure intervals.

NOTE 1: A pressure type altimeter calibrated in accordance with the standard atmosphere:

- a. When set to a QNH altimeter setting will indicate altitude above mean sea level (True Altitude);
- b. When set to a QFE altimeter setting will indicate height/altitude above the aerodrome providing the setting (Absolute Altitude);
- c. When set to a QNE altimeter setting, 29.92 Inches (1013.2 millibars), will indicate altitude above Standard Datum Plane (Pressure Altitude).

NOTE 2: The terms height and altitude, used in NOTE 1 above, indicate altimetric rather than geometric heights and altitudes.

7. LOW TEMPERATURE ERROR - Extreme low temperatures will cause serious errors in indicated altitude. It is suggested that the next higher altitude than normal, appropriate to direction of flight, be requested on routes with minimum flight altitudes greater than 5000'.

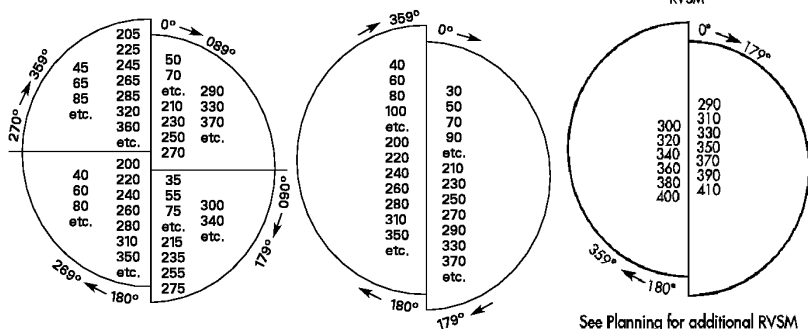
- a. At 13,000'; with a temperature of -40°F, an aircraft may be 1500' lower than indicated altitude.
- b. At 10,000'; with a temperature of -30°F, an aircraft may be 1000' lower than indicated altitude.

NOTE: See FIH, Section D Conversion Tables, Temperature Correction Chart for a comprehensive listing of temperature errors.

THEATER FLIGHT DATA/PROCEDURES C-4

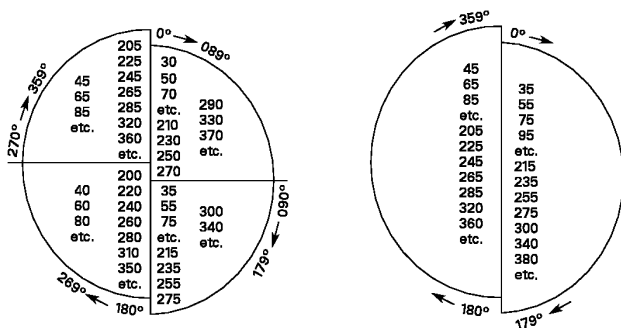
8. CRUISING ALTITUDES DIAGRAMS -

IFR CRUISING LEVELS



See Planning for additional RVSM cruising level information.

VFR CRUISING LEVELS



NO-NOTAM PREVENTIVE MAINTENANCE PROCEDURES

NOTAM action is not required when performing routine preventive maintenance as indicated. Equipment will be immediately returned to operation or NOTAM action taken if weather conditions deteriorate below ceiling or visibility requirements or if service directives time periods are exceeded. Also, NOTAM action will be taken if equipment cannot be returned to operation within the specified time period.

(AFFSA IFC/AFFSA IFC)

USA/USN - Locations with two or more Instrument Approach Aids, ceiling 3000, visibility 5 SM; locations with a single Instrument Approach Aid, sky condition scattered, visibility 5 SM.

(NAVFIC/NAVFIC FIL)

USAF - "USAF - Preventive Maintenance Inspection, (PMI) Maintenance Period (MP) Schedules are published under applicable NAVAID, ILS/RADAR or Terminal FLIP RADAR Minima listings. Associated weather criteria, other than 3000' ceiling, 5 statute mile visibility forecast during MP plus one hour, is reported as part of the schedule. For example, (1500/3+1) where 1500 is the ceiling in feet, 3 is the visibility in statute miles and +1 (plus one) indicates forecast during maintenance period plus one hour."

(AFFSA IFC/AFFSA IFC)

RADIO NAVIGATIONAL AIDS BY IDENTIFICATION

IDENT NAME/COUNTRY

A

AB Abakan (NDB) RS
 AB Atbasar (NDB) KZ
 AB Podkamennaya Tunguska (NDB) RS
 ABK Abakan (VOR-DME) RS
 AD Aldan (NDB) RS
 AD Andizhan (NDB) UZ
 AD Ashgabat (NDB) TX
 AD Sheremetyevo (NDB) RS
 AD Sochi (NDB) RS
 ADL Sochi (VOR-DME) RS
 AFM Manas (TACAN) KG
 AG Agoy (NDB) RS
 AI Akchi (NDB) KZ
 AI Tura (NDB) RS
 AJ Krasnoyarsk (NDB) RS
 AK Abakan (NDB) RS
 AK Aleksandrovka (NDB) RS
 AK Astana (NDB) KZ
 AKB Aktyubinsk (VOR-DME) KZ
 AKT Aktau (VOR-DME) KZ
 AL Almaty (NDB) KZ
 AL Alushta (NDB) UP
 AL Baykit (NDB) RS
 ALM Almaty (VOR-DME) KZ
 AM Kazan (NDB) RS
 AM Markovo (NDB) RS
 AM Surgut (NDB) RS
 AN Anapa (NDB) RS
 AN Andizhan (NDB) UZ
 AN Belgorod (NDB) RS
 AND Andong (VOR-DME) CH
 AND Andranik (NDB) AM
 AP Anapa (NDB) RS
 AP Chertovitskoye (NDB) RS
 AR Artemovsky (NDB) RS
 AR Barnaul (NDB) RS
 AR Buzharovo (NDB) RS
 ASB Ashgabat (VOR-DME) TX
 AST Astana (VOR-DME) KZ
 AT Aktyubinsk Lom (NDB) KZ
 ATR Atyrau (VOR-DME) KZ
 AU Akhsu (NDB) AJ
 AU Aktau (NDB) KZ
 AU Auly (NDB) UP
 AV Sukhumi (NDB) GG
 AVN Vilnius (NDB) LH
 AZ Arkhangelsk (NDB) RS
 AZ Samara (NDB) RS

B

BA Bagayevsky (NDB) RS
 BA Balagannoye (NDB) RS
 BA Balkhash (NDB) KZ
 BA Krasnodar (NDB) RS
 BAV Baotou (VOR-DME) CH
 BB Beryozovo (NDB) RS
 BB Bibrka (NDB) UP

IDENT NAME/COUNTRY

BC Provideniya Bay (NDB) RS
 BD Bogdanovo (NDB) RS
 BD Khabarovsk (NDB) RS
 BD Khanty Mansiysk (NDB) RS
 BD Razdoyle (NDB) RS
 BE Beringovsky (NDB) RS
 BE Samara (NDB) RS
 BF Norilsk (NDB) RS
 BG Karmanovo (NDB) RS
 BG Muraveyka (NDB) RS
 BH Bayankhongor (NDB) MG
 BH Gaoyao (NDB) CH
 BHS Baihesi (VOR-DME) CH
 BI Baku (NDB) AJ
 BI Bisert (NDB) RS
 BI Dudinka (NDB) RS
 BJ Astrakhan (NDB) RS
 BK Bishkek (NDB) KG
 BK Krasnoyarsk (NDB) RS
 BK Lunino (NDB) RS
 BK Ningbo (NDB) CH
 BK Perm (NDB) RS
 BL Balti (NDB) MD
 BL Balykchi (NDB) KG
 BL Chernyshevka (NDB) RS
 BL Kazan (NDB) RS
 BLG Blagoveschensk (VOR-DME) RS
 BLH Balkhash (VOR-DME) KZ
 BM Blagoveschensk (NDB) RS
 BM Pevek (NDB) RS
 BM Wafangdian (NDB) CH
 BN Baku (NDB) AJ
 BN Bolshaya Nikolayevka (NDB) RS
 BNN Xishuangbanna (VOR-DME) CH
 BO Bohdanivka (NDB) UP
 BO Nizhny Novgorod (NDB) RS
 BP Chelobityevo (NDB) RS
 BQ Bokhan (NDB) RS
 BR Bukhara (NDB) UZ
 BRP Boryspil (VOR-DME) UP
 BRT Bratsk (VOR-DME) RS
 BS Bratsk (NDB) RS
 BS Bulgan Sum (NDB) MG
 BS Liyuantun (NDB) CH
 BSE Bose (VOR-DME) CH
 BT Alaty (NDB) RS
 BT Ali (NDB) GG
 BTO Potou (VOR-DME) CH
 BU Baku (NDB) AJ
 BU Barnaul (NDB) RS
 BU Bulgan (NDB) MG
 BV Elista (NDB) RS
 BW Sheremetyevo (NDB) RS
 BX Belgorod (NDB) RS
 BY Brest (NDB) BO
 BZ Bolshaya Murta (NDB) RS
 BZ Yunhe (NDB) CH

C

C Hongqiao (NDB) CH

IDENT NAME/COUNTRY

CD Qingbaikou (NDB) CH
 CE Maksimkin Yar (NDB) RS
 CEN Cencun (VOR-DME) CH
 CG Kulyab (NDB) TI
 CG Tianjin (NDB) CH
 CGO Zhengzhou (VOR-DME) CH
 CH Cherniakhiv (NDB) UP
 CH Vladikavkaz (NDB) RS
 CHG Chaoyang (VOR-DME) CH
 CHW Jiayuguan (VOR-DME) CH
 CHN Chisinau (VOR-DME) MD
 CJ Jainqiao (NDB) CH
 CKG Chongqing (VOR-DME) CH
 CN Irkutsk (NDB) RS
 CO Mogilev (NDB) BO
 CO Turkmenbashi (NDB) TX
 CON Conghua (VOR-DME) CH
 CP Brest (NDB) BO
 CP Magnitogorsk (NDB) RS
 CR Cheboksary (NDB) RS
 CR Uiju (NDB) KN
 CS Osa (NDB) RS
 CSX Changsha (VOR-DME) CH
 CTU Shuangliu (VOR-DME) CH
 CU Shahe (NDB) CH
 CV Syrdarya (NDB) UZ
 CW Krasnaya Gorbarka (NDB) RS
 CY Chervonyi (NDB) UP
 CZ Tonglu (NDB) CH
 CZ Vilyuysk (NDB) RS
 CZH Chongzhou (VOR-DME) CH

D

DA Hebaohu (NDB) CH
 DA Ulaanbaatar (NDB) MG
 DA Zhalal Abad (NDB) KG
 DB Pochinok (NDB) RS
 DDG Dandong (VOR-DME) CH
 DE Domodedovo (NDB) RS
 DE Yedinka (NDB) RS
 DEM Mirny (VOR-DME) RS
 DF Mukhrani (NDB) GG
 DG Chita (NDB) RS
 DHN Dahushan (VOR-DME) CH
 DJ Kazan (NDB) RS
 DK Glatayev (NDB) RS
 DK Saratov (NDB) RS
 DKO Dengkou (VOR-DME) CH
 DLC Dalian (VOR-DME) CH
 DM Dmytrivka (NDB) UP
 DM Domodedovo (NDB) RS
 DM Salekhard (NDB) RS
 DM Zedang (NDB) CH
 DN Sainshand (NDB) MG
 DNB Dushanbe (VOR-DME) TI
 DNP Dnipropetrovsk (VOR-DME) UP
 DO Dobrushyn (NDB) UP
 DO Domodedovo (NDB) RS
 DO Qingzhou (NDB) CH
 DO Zhoukou (NDB) CH
 DON Donetsk (VOR-DME) UP
 DP Khurba (NDB) RS
 DR Skurygino (NDB) RS

IDENT NAME/COUNTRY

DS Heliushui (NDB) CH
 DS Urgut (NDB) UZ
 DSH Dangshan (VOR-DME) CH
 DT Dyurtyuli (NDB) RS
 DV Dzhubga (NDB) RS
 DW Chaldovar (NDB) KG
 DW Davydo-Mykilske (NDB) UP
 DW Domodedovo (NDB) RS
 DW Nikolskoye (NDB) RS
 DW Vorkuta (NDB) RS
 DX Maksim Gorky (NDB) RS
 DY Nagornaya (NDB) UZ
 DY Yabrai (NDB) CH
 DZ Osh (NDB) KG
 DZG Zhezkazgan (VOR-DME) KZ

E

EB Matveyevsky (NDB) RS
 ED Koltsovo (NDB) RS
 ED Yevlakh (NDB) AJ
 EL Koltsovo (NDB) RS
 EL Shalkar (NDB) KZ
 EN Shymkent (NDB) KZ
 ENH Enshi (VOR-DME) CH
 ENS Yeniseysk (VOR-DME) RS
 ER Yegorlykskaya (NDB) RS
 ER Yerevan (NDB) AM
 ERE Eren (VOR-DME) CH
 EY Kaukey (NDB) KZ

F

FB Kaiyuan (NDB) CH
 FB Kolpashevo (NDB) RS
 FC Dalverzin (NDB) UZ
 FC Fujiazhuang (NDB) CH
 FD Tashkent (NDB) UZ
 FE Kukan (NDB) RS
 FE Oktyabrsky (NDB) RS
 FI Golitsyno (NDB) RS
 FJ Chaoyang (NDB) CH
 FJC Fujiachang (VOR-DME) CH
 FK Fukang (NDB) CH
 FK Gagarin (NDB) RS
 FK Magadan (NDB) RS
 FK Samara (NDB) RS
 FKG Fukang (VOR-DME) CH
 FLG Fuling (VOR-DME) CH
 FM Linli (NDB) CH
 FN Dushanbe (NDB) TI
 FO Vanavara (NDB) RS
 FOC Fuzhou (VOR-DME) CH
 FQG Fuqing (VOR-DME) CH
 FR Wufengxi (NDB) CH
 FS Ust-Tsilma (NDB) RS
 FV Nizhnedinsk (NDB) RS
 FV Venev (NDB) RS
 FYU Fuyu (VOR-DME) CH
 FZ Tunli (NDB) CH

G

GA Altai (NDB) MG
 GA Naryan-Mar (NDB) RS

THEATER FLIGHT DATA/PROCEDURES C-7

THEATER FLIGHT DATA/PROCEDURES C-8

IDENT NAME/COUNTRY

GAO Nanchong (VOR-DME) CH
 GB Volchanka (NDB) RS
 GD Maloye Skuratovo (NDB) RS
 GE Helmiyaziv (NDB) UP
 GE Khabarovsk (NDB) RS
 GE Kursk (NDB) RS
 GF Fenghuo (NDB) CH
 GG Bratsk (NDB) RS
 GG Bucha (NDB) KN
 GG Vnukovo (NDB) RS
 GH Ashgabat (NDB) TX
 GH Minsk-2 (NDB) BO
 GJ Laoliangcang (NDB) CH
 GK Minsk-1 (NDB) BO
 GK Pyongyang (VOR-DME) KN
 GK Surgut (NDB) RS
 GL Nizhnyaya Peshia (NDB) RS
 GLN Guanlan (VOR-DME) CH
 GM Fengning (NDB) CH
 GM Gornel (NDB) BO
 GM Gornel (NDB) AM
 GMA Gengma (VOR-DME) CH
 GOL Gornel (VOR-DME) BO
 GP Grodno (NDB) BO
 GR Guzar (NDB) UZ
 GR Khorinsk (NDB) RS
 GR Krasnohrad (NDB) UP
 GR Sumy (NDB) RS
 GRM Gornel (VOR-DME) AM
 GS Lishui (NDB) CH
 GT Qunli (NDB) CH
 GU Magdagachi (NDB) RS
 GV Astrakhan (NDB) RS
 GV Kolyvan (NDB) RS
 GYA Gaoyao (VOR-DME) CH
 GYD Baku (VOR-DME) AJ
 GZ Kakaydy (NDB) UZ

H

HA Sherabad (NDB) UZ
 HAB Khabarovsk (VOR-DME) RS
 HB Zemetchino (NDB) RS
 HC Makhachkala (NDB) RS
 HCH Huangcheng (VOR-DME) CH
 HD Khudzhand (NDB) TI
 HD Tumurtai (NDB) CH
 HFE Hefei (VOR-DME) CH
 HG Hengshui (NDB) CH
 HG Tianhe (NDB) CH
 HGH Hangzhou (VOR-DME) CH
 HI Khabarovsk (NDB) RS
 HJ Mamadysh (NDB) RS
 HK Nurata (NDB) UZ
 HL Dongshan (NDB) CH
 HL Ust-tsilma (NDB) RS
 HLD Hailar (VOR-DME) CH
 HMI Hami (VOR-DME) CH
 HO Changwu (NDB) CH
 HQ Qijiang (NDB) CH
 HRB Harbin (VOR-DME) CH
 HSH Hengsha (VOR-DME) CH
 HSN Zhoushan (VOR-DME) CH
 HTN Hotan (VOR-DME) CH

IDENT NAME/COUNTRY

HU Khujirt (NDB) MG
 HUR Huairou (VOR-DME) CH
 HV Khudzhand (NDB) TI
 HX Weining (NDB) CH
 HY Huayuan (NDB) CH
 HY Khalaktyrka (NDB) RS
 HZ Tianmen (NDB) CH

I

IA Bodaybo (NDB) RS
 ID Xiaodanyang (NDB) CH
 IG Lensk (NDB) RS
 IGR Igarka (VOR-DME) RS
 IJ Haiqing (NDB) CH
 IM Shymkent (NDB) KZ
 IN Sukhotino (NDB) RS
 IP Zakharovka (NDB) RS
 IR Irkutsk (NDB) RS
 IRK Irkutsk (VOR-DME) RS
 IVF Ivano Frankivsk (VOR-DME) UP

J

JA Dexin (NDB) CH
 JA Khovd (NDB) MG
 JA Yahotyn (NDB) UP
 JB Dongying (NDB) CH
 JB Zangangzhen (NDB) CH
 JD Fayzabad (NDB) TI
 JG Xinzhen (NDB) CH
 JH Fuling (NDB) CH
 JH Nizhnevartovsk (NDB) RS
 JHG Ganlanba (VOR-DME) CH
 JIG Jingning (VOR-DME) CH
 JK Longli (NDB-DME) CH
 JL Yalta (NDB) UP
 JMU Jiamusi (VOR-DME) CH
 JQ Bomnak (NDB) RS
 JR Liangxiang (NDB) CH
 JTA Jingtai (VOR-DME) CH
 JTN Jiuting (VOR-DME) CH
 JTG Jintang (VOR-DME) CH
 JW Yongfu (NDB) CH
 JX Weixian (NDB) CH

K

KA Dzhezak (NDB) UZ
 KA Karaganda (NDB) KZ
 KA Karakol (NDB) KG
 KA Khurba (NDB) RS
 KA Konstantinovsk (NDB) RS
 KA Olzyny (NDB) RS
 KB Anadyr (NDB) RS
 KC Laibin (NDB) CH
 KCA Kuqa (VOR-DME) CH
 KD Kurdayasky (NDB) KZ
 KD Novotryshkino (NDB) RS
 KE Kikerino (NDB) RS
 KER Kerch (DME) UP
 KF Tiksi (NDB) RS
 KG Kogalym (NDB) RS
 KG Longkou (NDB) CH
 KH Kakhovka (NDB) UP

IDENT NAME/COUNTRY

KHG Kashi (VOR-DME) CH
 KHN Xiangtang (VOR-DME) CH
 KHR Kharkiv (VOR-DME) UP
 KI Ivenets (NDB) BO
 KI Kirensk (NDB) RS
 KJ Hohhot (NDB) CH
 KL Kala (NDB) AJ
 KL Kalinovka (NDB) KG
 KL Krasny Sulin (NDB) RS
 KM Arkhangelsk (NDB) RS
 KM Dahushan (NDB) CH
 KM Gyandzha (NDB) AJ
 KM Huailai (NDB) CH
 KM Kamenskoe (NDB) RS
 KM Kamyshin (NDB) RS
 KM Kem (NDB) RS
 KMG Kunming (VOR-DME) CH
 KN Dongshan (NDB) CH
 KN Kobona (NDB) RS
 KN Kostino (NDB) RS
 KNA Kaunas (VOR-DME) LH
 KO Koshany (NDB) UP
 KO Kotly (NDB) RS
 KOW Ganzhou (VOR-DME) CH
 KP Anju (NDB) KN
 KP Kamenets (NDB) UP
 KP Kargopol (NDB) RS
 KQ Koltsovo (NDB) RS
 KR Kaliningrad (NDB) RS
 KR Kirishi (NDB) RS
 KR Krabor (NDB) UP
 KR Krasnoarmeysk (NDB) RS
 KR Krasnodar (NDB) RS
 KR Nanchengzi (NDB) CH
 KR Taldykorgan (NDB) KZ
 KRG Karaganda (VOR-DME) KZ
 KRS Krasnoyarsk (VOR-DME) RS
 KRS Turkmenbashi (VOR-DME) TX
 KS Balandino (NDB) RS
 KS Krasny (NDB) RS
 KS Nizhneye Sanchelevo (NDB) RS
 KS Opalikha (NDB) RS
 KT Kostanay (NDB) KZ
 KT Kukushtan (NDB) RS
 KT Stavropol (NDB) RS
 KT Tolmachevo (NDB) RS
 KTL Kotlas (VOR-DME) RS
 KTS Kutaisi (VOR-DME) GG
 KU Koltsovo (NDB) RS
 KU Migalovo (NDB) RS
 KU Mogocha (NDB) RS
 KUS Kaunas (NDB) LH
 KV Xinzheng (NDB) CH
 KVR Kryvyi Rih (DME) UP
 KW Kislovodsk (NDB) RS
 KW Knevischi (NDB) RS
 KW Kokshetau (NDB) KZ
 KW Koviaky (NDB) UP
 KWE Guiyang (VOR-DME) CH
 KWL Guilin (VOR-DME) CH
 KY Wangbingou (NDB) CH
 KYU Kaiyuan (VOR-DME) CH
 KZ Kizlyar (NDB) RS

IDENT NAME/COUNTRY

KZ Kyzylorda (NDB) KZ
 KZL Kyzyl (VOR-DME) RS
 KZN Kazan (VOR-DME) RS
 KZO Kyzylorda (VOR-DME) KZ

L

LA Cheboksary (NDB) RS
 LA Lavrentiya (NDB) RS
 LA Lazarevskoye (NDB) RS
 LB Balandino (NDB) RS
 LB Liubymivka (NDB) UP
 LBA Turkmenabat (VOR-DME) TX
 LBN Chelyabinsk (VOR-DME) RS
 LBN Laibin (VOR-DME) CH
 LC Balti (NDB) MD
 LCH Longchang (VOR-DME) CH
 LD Chisinau (NDB) MD
 LD Krasnodar (NDB) RS
 LE Biysk (NDB) RS
 LF Bazhenovo (NDB) RS
 LH Huguang (NDB) CH
 LI Lykhacheve (NDB) UP
 LIG Liling (VOR-DME) CH
 LIV Lviv (VOR-DME) UP
 LJ Qiqihar (NDB) CH
 LJB Wanchang (VOR-DME) CH
 LJG Lianjiang (VOR-DME) CH
 LKO Longkou (VOR-DME) CH
 LLC Laoliangcang (VOR-DME) CH
 LM Almaty (NDB) KZ
 LM Sanger (NDB) RS
 LMN Longmen (VOR-DME) CH
 LM Klimovsk (NDB) RS
 LP Shafranovo (NDB) RS
 LQ Shilong (NDB) CH
 LR Gubeikou (NDB) CH
 LR Kunming (NDB) CH
 LS Krasnyi Luch (NDB) UP
 LS Ulyanovsk (NDB) RS
 LT Chokurdakh (NDB) RS
 LU Batumi (NDB) GG
 LUX Luanxian (VOR-DME) CH
 LXA Lhasa (VOR-DME) CH
 LXI Luxi (VOR-DME) CH
 LZ Blagoveschensk (NDB) RS
 LZ Liling (NDB) CH
 LZ Ufa (NDB) RS

M

MA Chaybukha (NDB) RS
 MA Lianshengwei (NDB) CH
 MA Maykop (NDB) RS
 MB Chernukha (NDB) RS
 MB Taraz (NDB) KZ
 MD Mineralnyye Vody (NDB) RS
 ME Nikolayevsk-Na-Amure (NDB) RS
 MF Larionovo (NDB) RS
 MF Yakutsk (NDB) RS
 MGR Magnitogorsk (VOR-DME) RS
 MGR Megri (NDB) AM
 MH Mikhaylovsk (NDB) RS
 MI Mikhaylovka (NDB) RS

THEATER FLIGHT DATA/PROCEDURES C-10

IDENT	NAME/COUNTRY
MK.	Malka (NDB) RS
ML.	Chapaev (NDB) RS
MLT.	Dongmulantou (VOR-DME) CH
MN.	Bishkek (NDB) KG
MN.	Manychsky (NDB) RS
MN.	Mendeleyevo (NDB) RS
MNS.	Bishkek (VOR-DME) KG
MNS.	Minsk-2 (VOR-DME) BO
MO.	Astana (NDB) KZ
MO.	Khanlar (NDB) AJ
MP.	Mary (NDB) TX
MR.	Sheremetyevo (VOR-DME), (NDB) RS
MR.	Ulyanovsk (NDB) RS
MR.	Volochaevka (NDB) RS
MRP.	Mariupol (DME) UP
MU.	Muren (NDB) MG
MV.	Gomel (NDB) BO
MW.	Migalovo (NDB) RS
MW.	Milkovo (NDB) RS
MW.	Mineralnyye Vody (NDB) RS
MX.	Zhigalovo (NDB) RS
MZ.	Mezen (NDB) RS
MZ.	Samarkand (NDB) UZ

N

NA.	Begishevo (NDB) RS
NA.	Kostanay (NDB) KZ
NA.	Salekhard (NDB) RS
NA.	Tbilisi (NDB) GG
NB.	Uelkal (NDB) RS
NC.	Kemerovo (NDB) RS
NCH.	Changbei (VOR-DME) CH
ND.	Bolshevik (NDB) RS
ND.	Smyshlyayevka (NDB) RS
NDG.	Qiqihar (VOR-DME) CH
NE.	Minsk-1 (NDB) BO
NE.	Nerl (NDB) RS
NF.	Nanfeng (NDB) CH
NG.	Nizhny Novgorod (NDB) RS
NG.	Tashkent (NDB) UZ
NGB.	Ningbo (VOR-DME) CH
NH.	Nikolsk (NDB) RS
NH.	Tobolsk (NDB) RS
NHW.	Nanhui (VOR-DME) CH
NJC.	Nizhnevartovsk (VOR-DME) RS
NK.	Begishevo (NDB) RS
NK.	Nikolskoye (NDB) RS
NK.	Novokazalinsk (NDB) KZ
NKZ.	Novokazalinsk (VOR-DME) KZ
NL.	Longzhou (NDB) CH
NL.	Nalchik (NDB) RS
NL.	Nikola (NDB) UP
NL.	Olenek (NDB) RS
NL.	Sheremetyevo (NDB) RS
NLG.	Nanlang (VOR-DME) CH
NM.	Nemyriv (NDB) UP
NM.	Ufa (NDB) RS
NN.	Kozhevnikovo (NDB) RS
NNG.	Nanning (VOR-DME) CH
NNX.	Nanxiong (VOR-DME) CH
NO.	Nadym (NDB) RS
NO.	Nakhchivan (NDB) AJ

IDENT	NAME/COUNTRY
NO.	Termez (NDB) UZ
NP.	Pskov (NDB) RS
NQ.	Turkmenabat (NDB) TX
NRG.	Chulman (VOR-DME) RS
NS.	Mary (NDB) TX
NS.	Nanxiong (NDB) CH
NS.	Naryn-Ges (NDB) KG
NSE.	Nanjing (VOR-DME) CH
NSH.	Ningshan (VOR-DME) CH
NSK.	Novosibirsk (VOR-DME) RS
NT.	Nakhchivan (NDB) AJ
NT.	Tole Bi (NDB) KZ
NTG.	Nantong (VOR-DME) CH
NU.	Bryansk (NDB) RS
NU.	Urgench (NDB) UZ
NV.	Zabaykalsk (NDB) RS
NVD.	Nizhnevartovsk (VOR) RS
NYB.	Nanyingbindao (VOR-DME) CH
NZ.	Mirny (NDB) RS
NZ.	Nizhnevartovsk (NDB) RS
NZ.	Nyazepetrovsk (NDB) RS
NZ.	Ust-Labinsk (NDB) RS

O

O.	Hailang (NDB) CH
O.	Tacheng (NDB) CH
OA.	Khatanga (NDB) RS
OB.	Huairou (NDB) CH
OB.	Vnukovo (NDB) RS
OC.	Legostayev (NDB) RS
OC.	Xingtang (NDB) CH
OD.	Bryansk (NDB) RS
OD.	Sanyuan (NDB) CH
ODS.	Odesa (VOR-DME) UP
OF.	Bantaji (NDB) CH
OG.	Arvaikheer (NDB) MG
OG.	Onega (NDB) RS
OG.	Russky Kameshkir (NDB) RS
OH.	Saratov (NDB) RS
OK.	Lyskovo (NDB) RS
OL.	Akkol (NDB) KZ
OL.	Ishim (NDB) RS
OL.	Kogalym (NDB) RS
ON.	Olekminsk (NDB) RS
OP.	Stavropol (NDB) RS
OR.	Kirov (NDB) RS
OR.	Orsk (NDB) RS
OR.	Kyzylorda (NDB) KZ
OS.	Osmino (NDB) RS
OS.	Ossora (NDB) RS
OS.	Tongjingchang (NDB) CH
OT.	Kokshetau (NDB) KZ
OU.	Osh (NDB) KG
OX.	Bose (NDB) CH
OZ.	Gori (NDB) GG

P

PA.	Parutyn (NDB) UP
PA.	Pavlovshina (NDB) RS
PA.	Wutong (NDB) CH
PD.	Bulungur (NDB) UZ
PD.	Kant (NDB) KG
PE.	Pechory (NDB) RS

IDENT	NAME/COUNTRY
PEK	Beijing (VOR-DME) CH
PF	Bolshoye Goloustnoye (NDB) RS
PF	Murmansk (NDB) RS
PF	Ura Tyube (NDB) TI
PG	Zayeltsovskiy (NDB) RS
PH	Zhuliao (NDB) CH
PI	Khomutovo (NDB) RS
PI	Pii (NDB) UP
PIX	Pixian (VOR-DME) CH
PK	Eren (NDB) CH
PK	Nanxiang (NDB) CH
PK	Pevek (NDB) RS
PK	Pskov (NDB) RS
PK	Pulkovo (NDB) RS
PL	Pulkovo (NDB) RS
PM	Pechora (NDB) RS
PM	Potou (NDB) CH
PNK	Pinsk (VOR-DME) BO
PO	Pretoria (NDB) RS
PO	Pulkovo (NDB) RS
POU	Pingzhou (VOR-DME) CH
PQ	Ashgabat (NDB) TX
PR	Oktyabrskiy (NDB) TI
PR	Peredovaya (NDB) RS
PR	Yelizovo (NDB) RS
PS	Kazan (NDB) RS
PS	Krasitsky (NDB) RS
PS	Kyzyl (NDB) RS
PT	Dalna (NDB) RS
PT	Jingtai (NDB) CH
PT	Petropavlovsk (NDB) KZ
PT	Ufa (NDB) RS
PTG	Podkamennaya Tunguska (VOR-DME) RS
PU	Dongyangjiao (NDB) CH
PU	Pulkovo (NDB) RS
PUD	Pudong (VOR-DME) CH
PW	Pavlivka (NDB) UP
PW	Pavlodar (NDB) KZ
PW	Sokol (NDB) RS
PW	Syktvykar (NDB) RS
PX	Perm (NDB) RS
PZ	Nadym (NDB) RS

Q

QA	Ekimchan (NDB) RS
QB	Hunshuitang (NDB) CH
QD	Besovets (NDB) RS
QD	Heihe (NDB) CH
QD	Knevichi (NDB) RS
QD	Orel (NDB) RS
QF	Roschino (NDB) RS
QH	Pechora (NDB) RS
QI	Jingning (NDB) CH
QI	Troitskoye (NDB) RS
QJ	Shenzhen (NDB) CH
QJG	Qijiang (VOR-DME) CH
QK	Gengma (NDB) CH
QK	Kaukey (VOR) KZ
QL	Algasovo (NDB) RS
QM	Shumerlya (NDB) RS
QNX	Qianxi (VOR-DME) CH
QO	Aksinyino (NDB) RS

IDENT	NAME/COUNTRY
QP	Ertang (NDB) CH
QT	Belokholunitsky (NDB) RS

R

RC	Makhtaly (NDB) KZ
RD	Bazarnye Matak (NDB) RS
RD	Murmansk (NDB) RS
RD	Yeniseysk (NDB) RS
RF	Ladozhskaya (NDB) RS
RF	Magnitogorsk (NDB) RS
RG	Changdu (NDB) CH
RG	Chisinau (NDB) MD
RG	Karaganda (NDB) KZ
RG	Tunoshna (NDB) RS
RG	Ufa (VOR-DME), (NDB) RS
RG	Urgench (NDB) UZ
RI	Boguchany (NDB) RS
RJ	Serdar (NDB) TX
RL	Hami (NDB) CH
RL	Zhiguli (NDB) RS
RM	Mama (NDB) RS
RM	Omsk (NDB) RS
RN	Penza (NDB) RS
RN	Roschino (NDB) RS
RN	Rostov-na-Donu (NDB) RS
RO	Aginskoye (NDB) RS
RO	Sanjiang (NDB) CH
RO	Tolmachevo (NDB) RS
RP	Dashoguz (NDB) TX
RP	Lijia (NDB) CH
RP	Petropavlovsk (NDB) KZ
RP	Sosnovskoye (NDB) RS
RQ	Chulman (NDB) RS
RQ	Ningshan (NDB) CH
RR	Uyar (NDB) RS
RS	Rashivka (NDB) UP
RW	Maryino (NDB) RS
RW	Rostov-na-Donu (NDB) RS
RZ	Sharanga (NDB) RS

S

S	Shenkursk (NDB) RS
S	Stepanavan (NDB) AM
SA	Elista (NDB) RS
SA	Namangan (NDB) UZ
SA	Saratov (NDB) RS
SB	Baruun-Urt (NDB) MG
SB	Hexi (NDB) CH
SB	Luogang (NDB) CH
SB	Sambek (NDB) RS
SC	Shache (NDB) CH
SCH	Shache (VOR-DME) CH
SD	Nizhnaya Tavda (NDB) RS
SE	Serov (NDB) RS
SEY	Shenyang (VOR-DME) CH
SF	Cherusti (NDB) RS
SF	Orsk (NDB) RS
SG	Mirny (NDB) RS
SG	Yijun (NDB) CH
SH	Salekhard (VOR-DME) RS
SH	Shyriaieve (NDB) UP
SHA	Hongqiao (VOR-DME) CH

THEATER FLIGHT DATA/PROCEDURES C-12

IDENT NAME/COUNTRY

SHK Shekou (VOR-DME) CH
 SHL Shilong (VOR-DME) CH
 SHR Shangrao (VOR-DME) CH
 SHY Shuyuan (VOR-DME) CH
 SI Ust Kamenogorsk (NDB) KZ
 SIA Xianyang (VOR-DME) CH
 SJW Zhengding (VOR-DME) CH
 SK Uralsk (NDB) KZ
 SL Khomutovo (NDB) RS
 SL Maguohu (NDB) CH
 SL Solodniki (NDB) RS
 SL Soloviyka (NDB) UP
 SL Sukhodol (NDB) RS
 SM Makhachkala (NDB) RS
 SM Semenivka (NDB) UP
 SM Smolenskaya (NDB) RS
 SMF Simferopol (VOR-DME) UP
 SN Sultanskoye (NDB) RS
 SO Muynak (NDB) UZ
 SO Sochi (NDB) RS
 SP Malinovka (NDB) RS
 SP Semipalatinsk (NDB) KZ
 SPB Sankt-Peterburg (VOR-DME) RS
 SR Pavlovsk (NDB) RS
 SR Serednie (NDB) UP
 SR Sergeli (NDB) UZ
 SR Syktyvkar (NDB) RS
 ST Nizhny Novgorod (NDB) RS
 ST Sirovinskaya (NDB) RS
 ST Stepanavan (NDB) AM
 ST Tamybulak (NDB) UZ
 SU Belozersk (NDB) RS
 SU Dikson (NDB) RS
 SV Dibliv (NDB) UP
 SVN Sevan (NDB) AM
 SW Karakhtay (NDB) UZ
 SW Savelovo (NDB) RS
 SW Shepetivka (NDB) UP
 SWA Shantou (VOR-DME) CH
 SX Nanxun (NDB) CH
 SX Pugus (NDB) TI
 SY Xishui (NDB) CH
 SYX Sanya (VOR-DME) CH
 SZ Barabinsk (NDB) RS
 SZ Liangcheng (NDB) CH
 SZX Shenzhen (VOR-DME) CH
 SZY Shaziying (VOR-DME) CH

T

TA Aktau (NDB) KZ
 TA Makhachkala (NDB) RS
 TA Takhtayamsk (NDB) RS
 TAJ Tianjin (VOR-DME) CH
 TAN Yuantan (VOR-DME) CH
 TAO Qingdao (VOR-DME) CH
 TBS Tbilisi (VOR-DME) GG
 TD Kakaydy (NDB) UZ
 TD Roschino (NDB) RS
 TD Tudevtai (NDB) MG
 TE Terbuny (NDB) RS
 TGO Tongliao (VOR-DME) CH
 TH Tachtamygda (NDB) RS
 TH Takhtalyng (NDB) RS

IDENT NAME/COUNTRY

THN Turukhansk (VOR-DME) RS
 TIG Kutaisi (NDB) GG
 TK Taldykorgan (NDB) KZ
 TK Tilichiki (NDB) RS
 TK Omsk (NDB) RS
 TKT Tashkent (VOR-DME) UZ
 TLN Talin (NDB) AM
 TM Talmenka (NDB) RS
 TM Tomakivka (NDB) UP
 TMD Tamdybulak (VOR-DME) UZ
 TMR Tumurtai (VOR-DME) CH
 TO Tsnori (NDB) GG
 TOL Tonglu (VOR-DME) CH
 TP Teplorechensky (NDB) RS
 TP Topchyne (NDB) UP
 TQ Vnukovo (NDB) RS
 TR Trypillia (NDB) UP
 TR Turan (NDB) RS
 TRZ Termez (VOR-DME) UZ
 TS Tarko-Sale (NDB) RS
 TS Zadonsk (NDB) RS
 TU Aktyubinsk Lom (NDB) KZ
 TU Bely (NDB) RS
 TV Tyoply Kluch (NDB) RS
 TX Toms (NDB) RS
 TY Atyrau (NDB) KZ
 TYN Taiyuan (VOR-DME) CH

U

U Sanzao (NDB) CH
 UA Toytepa (NDB) UZ
 UB Ust-Bolsheretsk (NDB) RS
 UC Uzunagach (NDB) KZ
 UD Buturlino (NDB) RS
 UD Chudovo (NDB) RS
 UD Yakutsk (NDB) RS
 UDA Ulaanbaatar (VOR-DME) MG
 UF Khabarovsk (NDB) RS
 UF Koshki (NDB) RS
 UF Longmen (NDB) CH
 UF Mogilev (NDB) BO
 UF Novokuznetsk (NDB) RS
 UG Dalanzadag (NDB) MG
 UH Bukhara (NDB) UZ
 UH Tikhoretsk (NDB) RS
 UH Ust-Khayruzovo (NDB) RS
 UHT Ukhta (VOR-DME) RS
 UJ Gaolan (NDB) CH
 UJ Ust-Mana (NDB) RS
 UK Ust-Kamchatsk (NDB) RS
 UK Yukhnov (NDB) RS
 UL Hulutaotun (NDB) CH
 UL Vostochny (NDB) RS
 UM Ivanovskoye (NDB) RS
 UN Underkhaan (NDB) MG
 UP Zenzeli (NDB) RS
 UR Chagda (NDB) RS
 UR Uralsk (NDB) KZ
 URC Urumqi (VOR-DME) CH
 URG Urgench (VOR-DME) UZ
 URL Uralsk (VOR-DME) KZ
 US Elshanka (NDB) RS
 US Muravlyanka (NDB) RS

IDENT NAME/COUNTRY

US Ulaangom (NDB) MG
 US Ust Kamenogorsk (NDB) KZ
 UT Turkmenabat (NDB) TX
 UU Vitebsk (NDB) BO
 UV Nizhny Novgorod (NDB) RS
 UWS Vostochny (VOR-DME) RS
 UX Anadyr (NDB) RS
 UY Kutaisi (NDB) GG
 UY Kyzyl (NDB) RS
 UY Orel (NDB) RS
 UY Sovetsky (NDB) RS

V

VA Dobrynskoye (NDB) RS
 VB Yingde (NDB) CH
 VC Leshukonskoye (NDB) RS
 VD Yakutsk (NDB) RS
 VG Zhigansk (NDB) RS
 VH Dashoguz (NDB) TX
 VI Verhnie (NDB) UP
 VIN Vinnytsia (DME) UP
 VL Zheltoye (NDB) RS
 VM Shigezhuang (NDB) CH
 VMB Wuxi (VOR-DME) CH
 VNO Vilnius (VOR-DME) LH
 VP Tbilisi (NDB) GG
 VQ Darongjiang (NDB) CH
 VQ Komintern (NDB) KZ
 VTB Vitebsk (VOR-DME) BO
 VW Fujiachang (NDB) CH
 VX Minsk-2 (NDB) BO
 VYK Dawangzhuang (VOR-DME) CH
 VZ Altay (NDB) CH

W

WA Kursk (NDB) RS
 WA Magadan (NDB) RS
 WA Wongyuan (NDB) CH
 WD Gumrak (NDB) RS
 WEH Weihai (VOR-DME) CH
 WF Grodno (NDB) BO
 WF Xiliuhetun (NDB) CH
 WF Xinglin (NDB) CH
 WFX Wufengxi (VOR-DME) CH
 WG Dushanbe (NDB) TI
 WG Gumrak (NDB) RS
 WG Samara (NDB) RS
 WH Penza (NDB) RS
 WHA Tianhe (VOR-DME) CH
 WJ Leshukonskoye (NDB) RS
 WJ Mys Schmidta (NDB) RS
 WK Pyongyang (NDB) KN
 WKL Velikiye Luki (VOR) RS
 WL Baolong (NDB) CH
 WL Pavlodar (NDB) KZ
 WM Vnukovo (NDB) RS
 WN Poliarny (NDB) RS
 WN Vostochny (NDB) RS
 WP Krasnodar (NDB) RS
 WQ Veschevo (NDB) RS
 WQG Wangqing (VOR-DME) CH
 WR Chertovitskoye (NDB) RS

IDENT NAME/COUNTRY

WR Jiayuguan (NDB) CH
 WS Vitebsk (NDB) BO
 WT Kartino (NDB) RS
 WT Vitim (NDB) RS
 WU Sosnovka (NDB) RS
 WW Vaganovo (NDB) RS
 WX Changshengqiao (NDB) CH
 WX Weixian (VOR-DME) CH
 WY Wenyan (NDB) CH
 WYN Wongyuan (VOR-DME) CH
 WZ Kamenka (NDB) RS
 WZ Srednebeloye (NDB) RS
 WZ Turkmenbashi (NDB) TX

X

XIC Xichang (VOR-DME) CH
 XJT Xuejiadao (VOR-DME) CH
 XK Pingzhou (NDB) CH
 XMN Xiamen (VOR-DME) CH
 XO Besovets (NDB) RS
 XR Selikhino (NDB) RS
 XSH Xishui (VOR-DME) CH
 XT Ryazanskaya (NDB) RS
 XU Novy Vasyugan (NDB) RS
 XYO Xuyong (VOR-DME) CH
 XZ Roschino (NDB) RS

Y

Y Qifengling (NDB) CH
 YBL Yabrai (VOR-DME) CH
 YBN Yibin (VOR-DME) CH
 YIH Sanxia (VOR-DME) CH
 YIJ Yijun (VOR-DME) CH
 YIN Yingde (VOR-DME) CH
 YK Buinsk (NDB) RS
 YK Dawangzhuang (NDB) CH
 YL Taraz (NDB) KZ
 YM Zhonghe (NDB) CH
 YNC Yinchuan (VOR-DME) CH
 YNJ Yanji (VOR-DME) CH
 YNT Yantai (VOR-DME) CH
 YO Biryucha Kosa (NDB) RS
 YQG Jinan (VOR-DME) CH
 YR Atyrau (NDB) KZ
 YU Kasan (NDB) UZ
 YV Tanghekou (NDB) CH
 YZ Ekibastuz (NDB) KZ

Z

ZA Batagay (NDB) RS
 ZBK Zabaykalsk (VOR) RS
 ZD Ulan-Ude (NDB) RS
 ZE Noyarsk (NDB) RS
 ZF Hekou (NDB) CH
 ZG Kharasavey (NDB) RS
 ZG Petrovskoye (NDB) RS
 ZG Zelenga (NDB) RS
 ZGC Lanzhou (VOR-DME) CH
 ZHO Zhoukou (VOR-DME) CH
 ZJ Khanty Mansiysk (VOR-DME),
 (NDB) RS
 ZK Datuopu (NDB) CH

THEATER FLIGHT DATA/PROCEDURES C-14

IDENT NAME/COUNTRY

ZL Mys Kamenny (NDB) RS
ZL Zolochiv (NDB) UP
ZM Chita (NDB) RS
ZN Luxi (NDB) CH
ZN Tianzhen (NDB) CH
ZQ Baotou (NDB) CH
ZR Yerevan (NDB) AM
ZS Yanzhuang (NDB) CH

IDENT NAME/COUNTRY

ZT Khatanga (NDB) RS
ZU Ayaguz (NDB) KZ
ZUH Lianshengwei (VOR-DME) CH
ZVR Yerevan (VOR-DME) AM
ZW Gyandzha (NDB) AJ
ZW Tashkent (NDB) UZ
ZYG Ziyang (VOR-DME) CH
ZZ Laryak (NDB) RS

I. POSITION REPORTS: (ICAO)

A. IFR/VFR POSITION REPORTS

- | | |
|----------------------------|--------------------------------|
| 1. Aircraft identification | 4. Flight level or altitude |
| 2. Position | 5. Next position and time over |
| 3. Time | 6. Ensuing significant point |

If entering ADIZ, give appropriate ADIZ position reports listed under ADIZ procedures.

B. IF REQUESTED (or when deemed necessary by pilot)

- | | |
|-------------------------------|------------------------------|
| 1. Operating information | |
| a. Estimated time of arrival | b. Endurance |
| 2. Meteorological information | |
| a. Air Temperature | d. Aircraft icing |
| b. Wind | e. Supplementary information |
| c. Turbulence | |

II. CHANGE OF FLIGHT PLAN:

A. CHANGE OF ROUTE OR DESTINATION

- | | |
|--|--|
| 1. Aircraft identification and type of aircraft. | 5. Alternate, if required. |
| 2. Position and time. | 6. "Departed IFR (or VFR) to" |
| 3. New route and/or destination. | 7. Rank and honors code of VIP if aboard (only if destination is being changed). |
| 4. ETE and hours of fuel remaining. | |

B. CHANGE FROM VFR TO IFR ONLY

- | | |
|--------------------------------------|---|
| 1. Aircraft identification. | 5. ETE from point of change to destination and hours of fuel remaining. |
| 2. Position and time. | 6. Alternate airport. |
| 3. Route, altitude, and destination. | 7. Rank and honor code of VIP if aboard (only if destination is being changed). |
| 4. True air speed in knots. | |

C. CHANGE OF ETA BY MORE THAN 30 MINUTES

- | | |
|-----------------------------|-------------------------------------|
| 1. Aircraft identification. | 3. "IFR (or VFR) to (destination)". |
| 2. Position and time. | 4. "New ETA and fuel remaining". |

NOTE: Request available NOTAM and weather information for new route and destination.

EEA	8 JUN 2006 to 28 SEP 2006	SUPP/TERM (HIGH/LOW)
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