Headquarters Air Mobility Command



ArcGIS Server And GeoPDF Solutions For Remote Airfield Visualization

Dr. Rick Marshall, HQ AMC/A700



Overview



- AMC granted Russian Overflight Clearance
- 6 Russian Airfields Selected as Divert Alternates
- Many of the Airfields Had No FLIP Data Available
- AMC/A700 Asked to Visualize Airfields by AMC/A3AS
- AMC/A7OO Used a Combination of ArcGIS Server and GeoPDF







GDSS	Glast Report UERR - MIRNY	Unclassified Corporate Database
104	Basic Information	
Name: MRWY ICAO: LIERR Attenute ICAO:		
Afternate Names: WAC WIRE GODDTIALERS (alegory Et.	
Airfield Type: CIVILINI (C)		
The State of the S	NOC 1163	
Country RUZZIA Country Code: RS		
STF information exists for: JAMC-RUSSIAI INCRR-Author Survey		
Other Links: NOTAlis!	William Colonia (170)	
A TOTAL CONTRACTOR OF THE PARTY	Me 29-5EP-2009	
100	Suitability Codes	Retr
Codes: ACDEFGLQRSZ		All Sultability Codes
Explanations: A SUITABLE C-1418		
C BUTABLE C-130		
D SLITABLE C-17		
E SUITABLE KD-10		
F SUITABLE KC-136		
G SUITABLE C-8		
L DUITABLE C-21		
Q APPROVALIADVISORY REQT) - SEE GOSS FOR OBSTRUCT	TIONS AND RESTRICTIONS INFO	
R DAYLIGHT OPERATIONS ONLY		
S VFRONLY		
Z SEE STF FOR MAJCOM SUPPLEMENTAL INFORMATION	eral aircraft. These codes apply to a particular aircraft only when combined with a "suitable"	
aircraft, Likewise, they do not apply when combined with an "u		Code for that
ASR Remarks: SPECIAL PIC ARPORT MISC (F Feed)	MACHINE STATE OF THE STATE OF T	
Geolog: Area (C): 018 FAA:		
10P	Runway Information	
TOP Runways	Pris .	
ID Pri Lee LDA Wat Surface Condition Rew WBC	PCN S T ST TT SBTT TOT TRT	
Recept 24 9187 9187 148 CON GOOD PCN 45RAS	17 45RAWT XXX.111 175 345 479 840 507	
TOP Airfield Lighting	Ave	





TOP Runways res By Ye Lee LDA Wed Surface Consistes Raw Villo: PCN S T ST IT SHITTIDITAT Rept 06. 9437 9187 148 COM 0000 PCN 45RANT 45RANT 000 111 ITS 345 47P 840 587 TOP Airtield Lighting rep By None Uses Seel's Aprix VASS PARS OLS HEL TOIL Rays Rey CL Rept 06 Y Roce 07 Y Roce 08 Y Roce 08 Y Row 08 Y Rowway Obstructions res No Runway Obstructions res No Runway Obstructions res No Runway Obstructions res No Runway Obstructions res POR 45 RANNT LON 1 Rew WMC Source PCH 45RANT EDR SUP) Feet NONE TOP RestrictionsInfo TOP Airtield Restrictions res H- Day only due to unknown obstacles Pending surcrew (restlands) responsable VOLT-PAPT or LAP for C-21) E. S- Day-YFE only due to lack of unable instrument approaches and VOLT-PAPT-025 for sight opp. O- Versing Chetacles any exist at this surfield which would be becardous to C-C operations. Sufficient feedback or a AMF Form 174. Airtield Survey is required to assess any obstacles prior to proposed C-C operations. Sufficient feedback prior to proposed C-C operations. Contact TACC-XCVPH at (1812) 227-221-217-215 to respect unless a pilot creweeber. Q- ARC Special FIC Airport (limited sinformation and unique procedures). So crew may operate to FIC airport unless a pilot creweeber. Villais the preceding I calendar months, has and/e and entry to the airport within in the procedure of the following three conditions are set. 1) Teacher Villa In ETA is an it less 1000ft about lowed be less and. 1) Teacher Villa In ETA is an it less 1000ft about lowed week. How In Contact TACC-XCVPH at 151 is not less 1000ft about lower week.	TOP	Runway Inf	formation
ID None Union Sequi Agrick VASS PAR OLS REX TOZI. Rwy New CL Nov. 06	RWE OF STATE THE COST OF STATE	WISC PCN S T ST TT SHITT-TINT THE	
Restrictions/Info ToP Airfield Restrictions Hesp R- Day only due to usanown obstacles Pending aircrew feedback (no operable VOSI/PAPI or IAP for C-21) R. S- Day/FFR only due to lack of usable instrument approaches and VOSI/PAPI/OIS for night ope. Q- Warming. Obstacles any exist at this mirrield which would be hemorated to compare the seedback or as AMC Form 174. Airfield Survey is required to assess any obstacles prior to proposed C-5 operations. Sufficient feedback or as AMC Form 174. Airfield Survey is required to assess any obstacles prior to proposed C-5 operations. Contact TACC/XOSM at (418) 229-2410/4015 to initiate the survey process. Q- AMC Special FIC Airport (limited information and unique procedures). No crew hay operate to/from a Special FIC airport unless a pilot crewneaber, within the preceding 12 calendar months, has made an entry to the mirrort while performing pilot duties in one of the following three conditions are set:	ID None Union SegFi Aprich VASI PAPI OLS RE Rvy: 06 Y Recip: 24 Y 109 Renway Obstructions reb No Runway Obstruction Data	R. TOZL Hwy Rwy CL Y Y Y	
H- Day only due to unknown obstacles Pending sircrew feedback (no operable WGEL*PAPI or IAP for C-21) R. S- Day*FER only due to lack of unable instrument approaches and WGEL*PAPI*OLS for night ope: O- Verming: Obstacles may exist at this sirfield which would be heardown to C-5 operations Sufficient feedback or an AMC Form 174, Airfield Survey is required to assess any obstacles prior to proposed C-5 operations: Contact TACC*ZOPN at (610) 229-2410/4015 to initiate the survey process. Q- AMC Special PIC Airport (limited information and unique procedures). No crew may operate to from a Special PIC mirport unless a pilot preventable, within the preceding 12 calendar acuths, has made an entry to the mirport while performing pilot duties in one of the primary seats. This requirement does not apply as long as one of the following three conditions are set:	PCN: 45_RIAWIT LON: 1 Raw WBC Source	PCN ASRANT (ENR SUP) Field NONE	
H- Day only due to unknown obstacles. Pending mirrors feedback (no operable VGEL/PAPI or IAP for C-21) R. S- Day/FFR only due to lack of unable instrument approaches and VGEL/PAPI/OLS for might ope. O- Warning. Obstacles may exist at this mirrial which would be hemandous to C-S operations. Sufficient feedback or an AMC Form 174. Airfield Survey is required to missess any obstacles prior to proposed C-S operations. Contact TACC/XOPM at (418) 229-2418/4015 to initiate the survey process. O- AMC Special PIC Airport (limited information and unique procedures). So crew may operate to/from a Special PIC mirror unless a pilot crewmember, within the preceding 12 calendar months, has made an entry to the mirror while performing pilot duties in one of the primary meets. This requirement does not apply as long as one of the following three conditions are set:	TOP	Restrictio	onsilnfo
VCSI/PAFI/CLS for might ope: Q- Verming. Obstacles may exist at this mirried which would be hexardown to C-5 operations. Sufficient feedback or en AMC Form 174, Airfield Survey is required to massess any obstacles prior to proposed C-6 operations. Contact TACC/XCFM at (618) 229-2410/4015 to initiate the survey process. Q- AMC Special PIC Airport (limited information and unique procedures). No crev may operate to trom a Special PIC mirrort unless a pilot crevmember, within the preceding 12 calendar months, has made an entry to the mirrort while performing pilot duties in one of the primary seats. This requirement does not apply as long as one of the following three conditions are met.	H- Day only due to unknown obstacles		
initial approach altitude, AMD airport visibility in equal to or) INE, or	VGSI/PAFI/OIS for might ope: Q-Verming: Obstaclem may exist at thi C-5 operations: Sufficient feedback or required to assess any obstacles prior TACC/XOFW at (418) 229-2418/4815 to ini Q-ARC Special PIC Airport (limited inf crew may operate to/from a Special PIC within the preceding 12 calendar mouth while performing pilot duties in one of does not apply as long as one of the fo 1) Weather within +/- lbr ETA is at less	er sirfield which would be herardous to es AMC Form 174, Airfield Survey is to proposed C-5 operations: Contact tiste the survey process. creation and unique procedures) So sirport unless a pilot crevmember, has made an entry to the mirport the primary seats. This requirement allowing three conditions are set est 1000ft above lowest MEA. MOCA or	



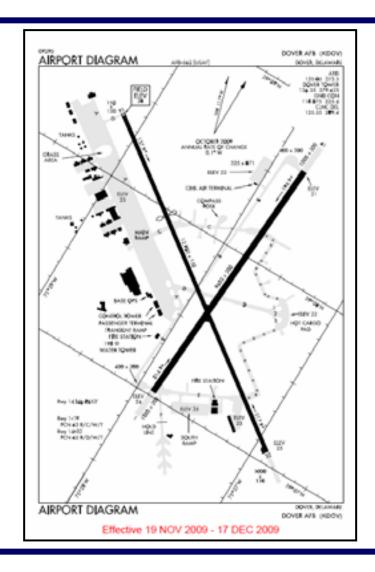


GOSS	Giant Report UERR - MRMY	Unclassified - Corporate Database
100	Basic Information	
Name: Infility KAO; UERR Alternate KAO;		
Afternate Names: WACHING COSSTILLERS	Category Et:	
Airfield Type: Ctr/LIAN (C)		
SECTION AND PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPER	600C1153	
Country RUSSIA Country Code: RS		
STW information sensits for: (ASC-RUSSIA) (UERR-Artist) Survey	ATTERNA A Selection of the Contract of the Con	
Other Links: 910TAINS	A Marin Consumer Cons	
	MME 28-96F-2008	
100	Suitability Codes ***	
Codes: ACDEFGLQRSZ	All Suitatelly Cooks	
Explanations:		
A BUITABLE C-1418		
C SUITABLE C-130		
D SUITABLE C-17		
E SUITABLE KC-10		
F SUTABLE KC-135		
G SUITABLE C-8		
L SUITABLE 021		
Q APPROVALIADVISORY REQTO - SEE GDSS FOR OBSTRUX	CTIONS AND RESTRICTIONS INFO	
R DAYLIGHT OPERATIONS ONLY		
S VFR ONLY		
Z SEE STIF FOR MAJCOM SUPPLEMENTAL RIFORMATION		
Note: Some suitability codes (H, I, J, K, and ht) may apply to se aircraft. Likewise, they do not apply when combined with an *i	veral aircraft, These codes apply to a perticular aircraft only when combined with a "suitable" code for that unsuitable" code for that aircraft.	
ASR Remarks: SPECIAL PIC ARPORT MISC: F)Feeds	ad.	
Geoloc Area (Ct. 018 FAA:		
TOP .	Runway Information	
Runways © Pri Lee LDA Witt Serface Condition Raw WRK	PON S I ST TT SETT TOT THE	
Rwy: 05 - B187 148 CON GOOD PCN 45RA		
10F Airfield Lighting	46	
TOP Airfield Lighting To hope these Seeds hereb MASS DADY (N.S. Britt. TIT)		



KCHS: Airfield Diagram









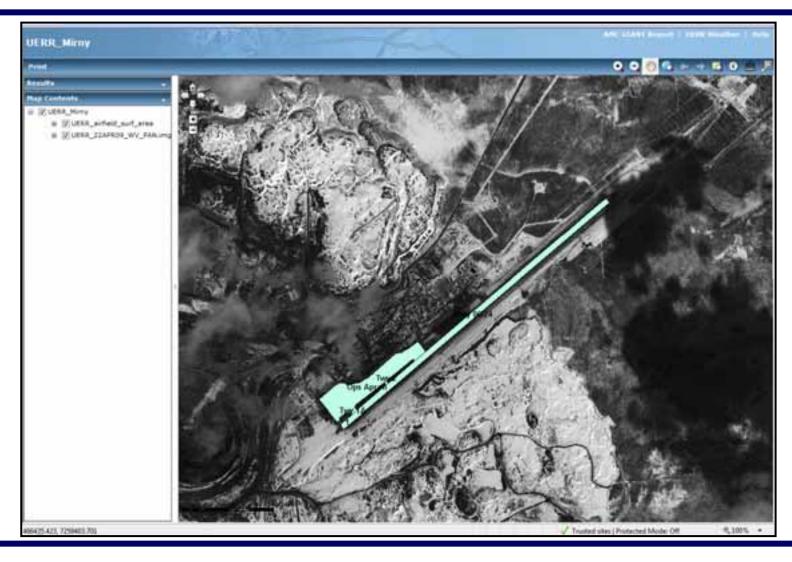


Unrivaled Global Reach for America ... ALWAYS!



UERR: ArcGIS Server

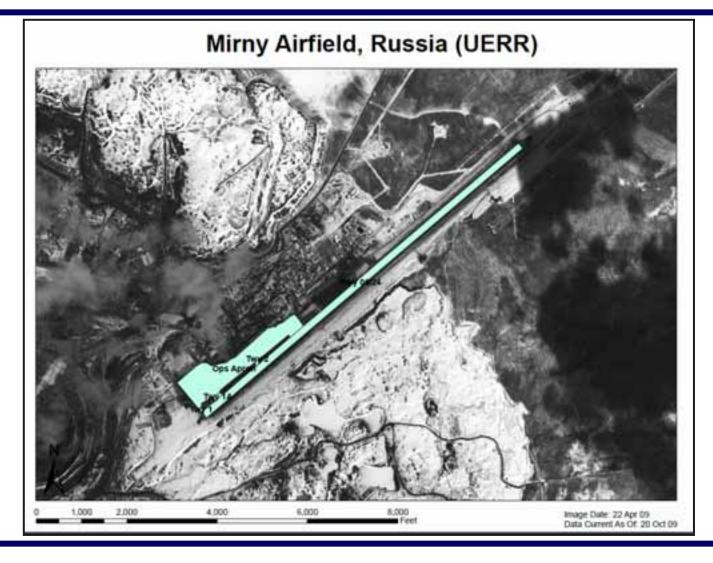






UERR: GeoPDF







Future Uses



TOP Basic In	formation
Name: YAKUTTIK ICAO: UEEE Alternate ICAO:	
Afternate Names: WAC WAR: 0124-08001 Category ID:	
Airfield Type: CIVILIAN (C)	
Latitude: 52 05.5N Langitude: 129 45.6E Elevation: 350	
Country: RUSSIA Country Code: RS	
STW information exists for: [AMC-RUSSIA] [UEEE-Artiel Survey] [UEEE-Artield Diagram]	
Other Links: (NOTAM)	
Servey Date: Review By: KLINGLER Review Date: 28-05/P-2009	
109 Suitability Codes	Table .
Codes: ACDEFGLORTZ	All Duffsolify Codes
Explanations	
A BUITABLE C-141B	
C BUTABLE C-130	
D BUITABLE C-17	
E BUITABLE KC-10	
F BUITABLE KC-135	
G SUITABLE C-9	
L DUTABLE 0-21	
Q APPROVALIADVISORY REQ'D - SEE GDSS FOR OBSTRUCTIONS AND RESTRICTIONS INFO	
R DAYLIGHT OPERATIONS ONLY	
T NO DOD PUBLISHED APPROACH JEPPESEN AVAILABLE, APPROVAL REG-D	
Z SEE STIF FOR MAJOON SUPPLEMENTAL INFORMATION	
flote: Some suitability codes (H, L, J, K, and M) may apply to several aircraft. These codes apply to a particular aircraft. Likewise, they do not apply when combined with an "unsuitable" code for that aircraft.	aircraft only when combined with a "suitable" code for that
ASR Remarks: SPECIAL PIC ARPORT MISC: M:Mountainous (F)Feedback	
Geoloc; ZLIID Area IC: 018 FAA: 1K.0	
TOP Runway I	nformation
	40
ID Pri Lee LDA Wild Surface Condition Raw WBC PCN \$ T \$T TT \$BTT TDT T	KT
Rwy: 05L 8202 8202 161 CON CLSD PCN 18R8XT 18R8XT XXX T3 101 157 286 475 2 Recgt 23R	
Rwy, 95R - 11155 11155 197 ASP GOOD PCN 45RBXT 45RBXT XXX 111 175 336 479 840 5 Recip: 23L	87



UEEE: GeoPDF







SUMMARY



- A Collaborative Effort
 - Geospatial Information Can Be Married with Operational Practices to Produce New Capabilities
- The Key to a Successful Partnership is Awareness
 - Operators Don't Need Stand Alone Geospatial Information, They Need Geospatial Information to Make Their Processes Better
 - Many Don't Understand How We Can Help
 - Might Take A Few Prototypes to Make An Impact
 - There Might Be Resistance Until There Is A Need



POINTS OF CONTACT



■ AMC/A700:

Dr. Rick Marshall

Phone: DSN 779-0877, COMM (618) 229-0877

E-Mail: rick.marshall.ctr@scott.af.mil

