

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
GRAPHIC DEPARTURE PROCEDURES (DP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
ALTNN	ONE	ALTNN1.ALTNN	NONE		19 May 2022

<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

This is a corrected copy of the procedure published in NFDD 059.
** See page 4 for details. **

DP ROUTE DESCRIPTION:**KMIA:**

TAKEOFF RWY 8L: CLIMB ON HEADING 092.38 TO 520, THEN DIRECT CSALT, THEN ON TRACK 006.96 TO DEALZ, THEN ON TRACK 347.54 TO LIIVV, THEN ON TRACK 359.68 TO FARRY, THEN ON TRACK 000.39 TO CROSS AGERS AT 5000, THENCE...

TAKEOFF RWY 8R: CLIMB ON HEADING 092.38 TO 520, THEN DIRECT CSALT, THEN ON TRACK 006.96 TO DEALZ, THEN ON TRACK 347.54 TO LIIVV, THEN ON TRACK 359.68 TO FARRY, THEN ON TRACK 000.39 TO CROSS AGERS AT 5000, THENCE...

TAKEOFF RWY 9: CLIMB ON HEADING 092.37 TO INTERCEPT COURSE 082.38 TO CSALT, THEN ON TRACK 006.96 TO DEALZ, THEN ON TRACK 347.54 TO LIIVV, THEN ON TRACK 359.68 TO FARRY, THEN ON TRACK 000.39 TO CROSS AGERS AT 5000, THENCE...

TAKEOFF RWY 12: CLIMB ON HEADING 124.46 TO INTERCEPT COURSE 077.74 TO CSALT, THEN ON TRACK 006.96 TO DEALZ, THEN ON TRACK 347.54 TO LIIVV, THEN ON TRACK 359.68 TO FARRY, THEN ON TRACK 000.39 TO CROSS AGERS AT 5000, THENCE...

TAKEOFF RWY 26L: CLIMB ON HEADING 272.39 TO INTERCEPT COURSE 283.00 TO KROCS, THEN ON TRACK 315.14 TO RUSSS, THEN ON TRACK 007.30 TO RMIRO, THEN ON TRACK 045.94 TO FARRY, THEN ON TRACK 000.39 TO CROSS AGERS AT 5000, THENCE ...

TAKEOFF RWY 26R: CLIMB ON HEADING 272.39 TO INTERCEPT COURSE 282.40 TO KROCS, THEN ON TRACK 315.14 TO RUSSS, THEN ON TRACK 007.30 TO RMIRO, THEN ON TRACK 045.94 TO FARRY, THEN ON TRACK 000.39 TO CROSS AGERS AT 5000, THENCE ...

TAKEOFF RWY 27: CLIMB ON HEADING 272.39 TO INTERCEPT COURSE 297.85 TO KROCS, THEN ON TRACK 315.14 TO RUSSS, THEN ON TRACK 007.30 TO RMIRO, THEN ON TRACK 045.94 TO FARRY, THEN ON TRACK 000.39 TO CROSS AGERS AT 5000, THENCE ...

TAKEOFF RWY 30: CLIMB ON HEADING 304.47 TO 520, THEN DIRECT WADLE, THEN ON TRACK 351.59 TO RMIRO, THEN ON TRACK 045.94 TO FARRY, THEN ON TRACK 000.39 TO CROSS AGERS AT 5000, THENCE ...

... ON TRACK 359.72 TO PERTS, THEN ON TRACK 356.50 TO ALTNN, THEN ON ASSIGNED TRANSITION, MAINTAIN 5000, EXPECT FILED ALTITUDE WITHIN 10 MINUTES AFTER DEPARTURE.

KOPF:

TAKEOFF RWY 9L: CLIMB ON HEADING 092.94 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS AGERS AT 5000, THENCE...

TAKEOFF RWY 9R: CLIMB ON HEADING 092.96 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS AGERS AT 5000, THENCE...

TAKEOFF RWY 12: CLIMB ON HEADING 127.84 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS AGERS AT 5000, THENCE...

TAKEOFF RWY 27L: CLIMB ON HEADING 272.97 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS AGERS AT 5000, THENCE...

TAKEOFF RWY 27R: CLIMB ON HEADING 272.95 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS AGERS AT 5000, THENCE...

TAKEOFF RWY 30: CLIMB ON HEADING 307.84 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS AGERS AT 5000, THENCE...

KTMB:

TAKEOFF RWY 9L: CLIMB ON HEADING 093.31 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS AGERS AT 5000, THENCE...

TAKEOFF RWY 9R: CLIMB ON HEADING 093.31 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS AGERS AT 5000, THENCE...

TAKEOFF RWY 13: CLIMB ON HEADING 133.34 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS AGERS AT 5000, THENCE...

TAKEOFF RWY 27L: CLIMB ON HEADING 273.32 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS AGERS AT 5000, THENCE...

TAKEOFF RWY 27R: CLIMB ON HEADING 273.32 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS AGERS AT 5000, THENCE...

TAKEOFF RWY 31: CLIMB ON HEADING 313.35 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS AGERS AT 5000, THENCE...

KX51:

TAKEOFF RWY 10: CLIMB ON HEADING 095.69 TO 2000, THEN AS ASSIGNED FOR RADAR VECTORS TO CROSS AGERS AT 5000, THENCE...

TAKEOFF RWY 18: CLIMB ON HEADING 185.49 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS AGERS AT 5000, THENCE...

TAKEOFF RWY 28: CLIMB ON HEADING 275.69 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS AGERS AT 5000, THENCE...

TAKEOFF RWY 36: CLIMB ON HEADING 005.49 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS AGERS AT 5000, THENCE...



<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
ALTNN	ONE	ALTNN1.ALTNN	NONE		19 May 2022

KHST:

TAKEOFF RWY 6: CLIMB ON HEADING 055.32 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS AGERS AT 5000, THENCE...

TAKEOFF RWY 24: CLIMB ON HEADING 235.33 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS AGERS AT 5000, THENCE...

... ON TRACK 359.72 TO PERTS, THEN ON TRACK 356.50 TO ALTNN, THEN ON ASSIGNED TRANSITION, MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE WITHIN 10 MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

<u>TRANSITION NAME</u>	<u>TRANSITION COMPUTER CODE</u>	<u>FROM FIX/NAVAID</u>	<u>TO FIX/NAVAID</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>MEA</u>	<u>MOCA</u>	<u>CROSSING ALTITUDE/FIXES</u>
DUCEN	ALTNN1.DUCEN	ALTNN	MMART	344.45	14.86	5000	1400	
		MMART	ENWOD	345.15	9.64	5000	2600	
		ENWOD	SEAZY	343.47	17.63	5000	2600	
		SEAZY	DUCEN	345.50	121.46	5000	2800	

PROCEDURAL DATA NOTES:

NOTE: JET AIRCRAFT ONLY.

NOTE: ACCELERATE TO 250K, IF UNABLE, ADVISE ATC.

PBN REQUIREMENTS NOTES:

RNAV 1 - DME/DME/IRU OR GPS.

EQUIPMENT REQUIREMENT NOTES:

RADAR REQUIRED.

TAKEOFF MINIMUMS:**KMIA:**

RWY 8L: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 520, THEN MINIMUM CLIMB OF 215 TO 1400

RWY 8R: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 520, THEN MINIMUM CLIMB OF 235 TO 1400

RWY 9: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 520, THEN MINIMUM CLIMB OF 240 TO 1400

RWY 12: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 520, THEN MINIMUM CLIMB OF 230 TO 1400

RWY 26L, 26R, 27, 30: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 520.

KOPF:

RWY 9L: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1000.

RWY 9R: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 700.

RWY 12, 27R: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 600.

RWY 27L, 30: STANDARD.

KTMB:

RWY 9L: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1300.

RWY 9R: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1500.

RWY 13: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1800.

RWY 27L: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1900.

RWY 27R: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1700.

RWY 31: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1400.



<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
ALTNN	ONE	ALTNN1.ALTNN	NONE		19 May 2022

KX51:

RWY 10: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 2400.
RWY 18: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1800.
RWY 28: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1900.
RWY 36: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 2200.

KHST:

RWY 6: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1800.
RWY 24: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 2200.

TAKEOFF OBSTACLES NOTES:

SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP).

CONTROLLING OBSTACLES:**KMIA:**

RWY 8L: 164 FT MSL TOWER 254832.18N/0801527.90W.
RWY 9: 1049 FT MSL BUILDING 254649.65N/0801106.99W.
RWY 12: 1049 FT MSL BUILDING 254542.37N/0801135.45W

KOPF:

RWY 9L, 9R, 12, 27R: 1050 FT MSL ANTENNA 255730.91N/0801243.24W.

KTMB:

RWY 9L, 9R, 13, 27L, 27R, 31: 1849 FT MSL TOWER 253223.94N/0802806.43W.

KX51:

RWY 10, 18, 28, 36: 1849 FT MSL TOWER 253223.94N/0802806.43.

KHST:

RWY 6, 24: 1849 FT MSL TOWER 2532235.94N/0802806.43W.

MSA:**LOST COMMUNICATIONS PROCEDURES:****ADDITIONAL FLIGHT DATA:**

DME/DME ASSESSMENT: SAT RNP 2.0.
KMIA - CHART: TOP ALTITUDE: 5000.
KOPF, KTMB, KX51, KHST - CHART: TOP ALTITUDE: ASSIGNED BY ATC.
CHART CROSSING ALTITUDE AT AGERS - 5000.

AIRPORTS SERVED:

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
KMIA	MIAMI	FL
KOPF	MIAMI	FL
KTMB	MIAMI	FL
KX51	HOMESTEAD	FL
KHST	HOMESTEAD	FL



<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
ALTNN	ONE	ALTNN1.ALTNN	NONE		19 May 2022

COMMUNICATIONS:

KMIA: CHART: ATIS, AWOS, TOWER, GND CON, CLNC DEL, DEP CON, CPDLC.

KOPF: CHART: ATIS/ASOS, CLNC DEL, GND CON, TOWER, DEP CON.

KTMB: CHART: ATIS/ASOS, CLNC DEL, GND CON, TOWER, DEP CON.

KX51: CHART: AWOS, CTAF, DEP CON.

KHST: CHART: ATIS, CTAF, CLNC DEL, GND CON, TOWER, DEP CON.

FIXES AND/OR NAVAIDS:**REMARKS:**

CHART NOTE: (KMIA ONLY) SEE ADDITIONAL REQUIREMENTS IN AAUP.

ENVIRONMENTAL REVIEW UNDER ORDER 1050.1 (LATEST EDITION).

REQUIREMENTS WORKSHEET AND NOISE SCREENING HAVE BEEN ACCOMPLISHED.

KMIA TAKEOFF MINIMUMS SET TO MATCH OTHER KMIA SIDS, PER MANAGEMENT.

FLIGHT INSPECTED BY

Digitally signed by

OFFICE

DATE

JAMES HAWLEY

DONALD E SMITH

FPO

03/21/2022

Mar 28, 2022

DEVELOPED BY

Digitally signed by

OFFICE

DATE

ANTHONY CAPPABIANCO

ANTHONY J CAPPABIANCO

AJV-A411

01/14/2022

Mar 23, 2022

APPROVED BY

Digitally signed by

OFFICE

DATE

TITLE

JULIE MORGAN

DONALD E SMITH

AJV-A410

MANAGER

Mar 28, 2022

REQUIRED EFFECTIVE DATE

ROUTINE

COORDINATED WITH:

A4A ☒

ALPA ☒

AOPA ☒

APA ☐

HAI ☐

NBAA ☒

OTHER: ZMA, MIA ATCT, MIA DEP CON, EASTERN FPT

CHANGES - REASONS:

03/23/22: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 02/08/22.

1. ADDED "CHART:" FOLLOWING ALL AIRPORT IDS IN COMMUNICATIONS.



**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
DEPARTURE (DATA RECORD)**

<u>DP NAME</u>		<u>NUMBER</u>		<u>DP COMPUTER CODE</u>		<u>SUPERSEDED NUMBER</u>		<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
ALTNN		ONE		ALTNN1.ALTNN		NONE			19 May 2022
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
RW08L (AER)	254810.43N/0801805.55W	N	-	-	-	-			
520 MSL	-	-	-	VA	087.38	-	AT/ABOVE 520		CG 500 FT/NM TO 520, THEN 215 FT/NM TO 1400
CSALT	254823.36N/0800938.32W	Y	FB	DF	-	-			
DEALZ	255338.46N/0800926.38W	Y	FB	TF	001.96	05.24			
LIIVV	255917.91N/0801124.52W	Y	FB	TF	342.54	05.91			
FARRY	261144.11N/0801241.50W	Y	FB	TF	354.68	12.45			
AGERS	262236.23N/0801339.93W	Y	FB	TF	355.39	10.87	AT 5000		
RW08R (AER)	254802.52N/0801805.16W	N	-	-	-	-			
520 MSL	-	-	-	VA	087.38	-	AT/ABOVE 520		CG 500 FT/NM TO 520, THEN 235 FT/NM TO 1400
CSALT	254823.36N/0800938.32W	Y	FB	DF	-	-			
DEALZ	255338.46N/0800926.38W	Y	FB	TF	001.96	05.24			
LIIVV	255917.91N/0801124.52W	Y	FB	TF	342.54	05.91			
FARRY	261144.11N/0801241.50W	Y	FB	TF	354.68	12.45			
AGERS	262236.23N/0801339.93W	Y	FB	TF	355.39	10.87	AT 5000		
RW09 (AER)*	254710.56N/0801838.57W*	N	-	-	-	-			*DISPL THLD (1358.0 FT)
-	254719.98N/0801450.56W	-	-	VI	087.37	03.43			CG 500 FT/NM TO 520, THEN 240 FT/NM TO 1400
CSALT	254823.36N/0800938.32W	Y	FB	CF	077.38	04.81			
DEALZ	255338.46N/0800926.38W	Y	FB	TF	001.96	05.24			
LIIVV	255917.91N/0801124.52W	Y	FB	TF	342.54	05.91			
FARRY	261144.11N/0801241.50W	Y	FB	TF	354.68	12.45			

QUALITY
24
CHECKED

DP NAME		NUMBER					DP COMPUTER CODE		SUPERSEDED NUMBER		DATED	ACTUAL EFFECTIVE DATE
ALTNN		ONE					ALTNN1.ALTNN		NONE			19 May 2022
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS			
AGERS	262236.23N/0801339.93W	Y	FB	TF	355.39	10.87	AT 5000					
RW12 (AER)	254757.43N/0801808.24W	N	-	-	-	-						
-	254641.54N/0801539.90W	-	-	VI	119.46	02.56	CG 500 FT/NM TO 520, THEN 230 FT/NM TO 1400					
CSALT	254823.36N/0800938.32W	Y	FB	CF	072.74	05.70						
DEALZ	255338.46N/0800926.38W	Y	FB	TF	001.96	05.24						
LIIVV	255917.91N/0801124.52W	Y	FB	TF	342.54	05.91						
FARRY	261144.11N/0801241.50W	Y	FB	TF	354.68	12.45						
AGERS	262236.23N/0801339.93W	Y	FB	TF	355.39	10.87	AT 5000					
RW26L (AER)	254807.27N/0801610.33W	N	-	-	-	-						
-	254758.58N/0801940.02W	-	-	VI	267.39	03.16	CG 500 FT/NM TO 520					
KROCS	254828.48N/0802334.65W	Y	FB	CF	278.00	03.56						
RUSSS	255051.86N/0802642.60W	Y	FB	TF	310.14	03.70						
RMIRO	255728.32N/0802625.02W	Y	FB	TF	002.30	06.59						
FARRY	261144.11N/0801241.50W	Y	FB	TF	040.94	18.84						
AGERS	262236.23N/0801339.93W	Y	FB	TF	355.39	10.87	AT 5000					
RW26R (AER)	254814.32N/0801631.55W	N	-	-	-	-						
-	254805.03N/0802015.50W	-	-	VI	267.39	03.37	CG 500 FT/NM TO 520					
KROCS	254828.48N/0802334.65W	Y	FB	CF	277.40	03.02						
RUSSS	255051.86N/0802642.60W	Y	FB	TF	310.14	03.70						
RMIRO	255728.32N/0802625.02W	Y	FB	TF	002.30	06.59						
FARRY	261144.11N/0801241.50W	Y	FB	TF	040.94	18.84						

QUALITY

24

0000

QUALITY
24
CHECKED

<u>DP NAME</u>		<u>NUMBER</u>		<u>DP COMPUTER CODE</u>		<u>SUPERSEDED NUMBER</u>		<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
ALTNN		ONE		ALTNN1.ALTNN		NONE			19 May 2022
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
AGERS	262236.23N/0801339.93W	Y	FB	TF	355.39	10.87	AT 5000		
RW27 (AER)*	254715.72N/0801634.02W*	N	-	-	-	-			*DISPL THLD (261.0 FT)
-	254707.11N/0802001.48W	-	-	VI	267.39	03.12			CG 500 FT/NM TO 520
KROCS	254828.48N/0802334.65W	Y	FB	CF	292.85	03.48			
RUSSS	255051.86N/0802642.60W	Y	FB	TF	310.14	03.70			
RMIRO	255728.32N/0802625.02W	Y	FB	TF	002.30	06.59			
FARRY	261144.11N/0801241.50W	Y	FB	TF	040.94	18.84			
AGERS	262236.23N/0801339.93W	Y	FB	TF	355.39	10.87	AT 5000		
RW30 (AER)*	254716.43N/0801648.08W*	N	-	-	-	-			*DISPL THLD (945.0 FT)
520 MSL	-	-	-	VA	299.47	-	AT/ABOVE 520		CG 500 FT/NM TO 520
WADLE	255119.27N/0802447.66W	Y	FB	DF	-	-			
RMIRO	255728.32N/0802625.02W	Y	FB	TF	346.59	06.30			
FARRY	261144.11N/0801241.50W	Y	FB	TF	040.94	18.84			
AGERS	262236.23N/0801339.93W	Y	FB	TF	355.39	10.87	AT 5000		
AGERS	262236.23N/0801339.93W	Y	-	IF	-	-	AT 5000		
PERTS	263342.48N/0801448.44W	Y	FB	TF	354.72	11.12			
ALTNN	264224.34N/0801615.27W	Y	FB	TF	351.50	08.77			
ALTNN	264224.34N/0801615.27W	Y	-	IF	-	-			ALTNN1.DUCEN
MMART	265621.72N/0802205.62W	Y	FB	TF	339.45	14.86			
ENWOD	270527.19N/0802545.64W	Y	FB	TF	340.15	09.64			

QUALITY
24
CHECKED

<u>DP NAME</u>							<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
ALTNN							ONE	ALTNN1.ALTNN	NONE		19 May2022
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>		<u>SPEED</u>	<u>REMARKS</u>	
SEAZY	272153.92N/0803301.70W	Y	FB	TF	338.47	17.63					
DUCEN	291633.83N/0811923.24W	Y	FB	TF	340.50	121.46					

