```
Identification_Information:
        Citation:
                Citation_Information:
                        Originator: Charles B. Gardiner, PS(comp.)
                        Originator: MACTEC, Inc.
                        Publication_Date: Unpublished material
                        Publication_Time: Unknown
                        Title: S.F.W.M.D. Well KRAF
                        Edition: 1
                        Series_Information:
                        Publication_Information:
                                Publication_Place: Not Published
                                Publisher: None
                        Online_Linkage: CBGardiner@mactec.com
                        Larger_Work_Citation:
                                Citation_Information:
                                        Series_Information:
                                        Publication_Information:
        Description:
                Abstract:
                        South Florida Water Management District,
                        Kissimmee River Well KRAF
                Purpose:
                        To establish NAVD 88 and NGVD 29 elevations on the
                        well platform at the reference mark (mark point).
                        Also establish a nearby site benchmark
                Supplemental_Information: There is a lock on the well.  See point of contact for
key.
        Time_Period_of_Content:
                Time_Period_Information:
                        Single_Date/Time:
                                Calendar_Date: 20050628
                                Time_of_Day: 08150000
                        Range_of_Dates/Times:
                        Multiple_Dates/Times:
                Currentness_Reference: Date and time of field work
        Status:
                Progress: Complete
                Maintenance_and_Update_Frequency: Unknown
        Spatial_Domain:
                Bounding_Coordinates:
                        West_Bounding_Coordinate: -081.267675
                        East_Bounding_Coordinate: -080.774650
                        North_Bounding_Coordinate: +27.639777
                        South_Bounding_Coordinate: +27.121016
        Keywords:
                Theme:
                        Theme_Keyword_Thesaurus: None
                        Theme_Keyword: Record Survey
                        Theme_Keyword: Well Site
                Place:
                        Place_Keyword_Thesaurus: None
                        Place_Keyword: S.F.W.M.D. Well KRAF
                        Place_Keyword: Sec. 6, Twp. 35 S., Rge 32 E.
                        Place_Keyword: Okeechobee County
                        Place_Keyword: Florida
                        Place_Keyword_Thesaurus: Geographic Names Information System
                        Place_Keyword: Florida
                        Place_Keyword: Okeechobee County
                        Place_Keyword: KRAF SITE
                Stratum:
                Temporal:
        Access_Constraints: None
        Use_Constraints: There is a lock on the well.  See point of contact for key.
        Point_of_Contact:
                Contact_Information:
                        Contact_Person_Primary:
                        Contact_Organization_Primary:
                                Contact_Organization: South Florida Water Management District
                                Contact_Person: Howard J. Ehmke, P.S.M.
                        Contact_Position: Lead Project Manager
                        Contact_Address:
```

Charles B. Gardiner
Mactec

Purpose

Survey Date

Howard J. Ehmke II
SFWMD

Address_Type: physical address
Address: 8894 Belvedere Road
City: West Palm Beach
State_or_Province: Florida
Postal_Code: 33411
Country: USA
Contact_Voice_Telephone: 561-242-5520
Contact_Electronic_Mail_Address: hehmke@sfwmd.gov
Hours_of_Service: 8:00 am to 5:00 pm EST
Security_Information:
Cross_Reference:
Citation_Information:
Series_Information:
Publication_Information:
Data_Quality_Information:
Attribute_Accuracy:
Attribute_Accuracy_Report:

Equipment Used

This Survey was prepared using GPS and Leveling instruments.
The horizontal location of each well was established using a Trimble ProXR (sub-meter) GPS receiver.
Running a level circuit to this site would require crossing miles of marshland, therefore the orthometric height (and horizontal position) of the benchmark at this site was derived through a GPS network using Trimble Navigation, Ltd. Dual Frequency geodetic GPS receivers model 5700.
The network design and session length conformed to guidelines set forth by Ronnie Taylor (NOAA, National Geodetic Survey, National Ocean Service Advisor) and approved by NGS.
The vertical data at each well site was collected using a Wild NA2 Level (SN 188247).
Coordinates are based on the Florida State Plane Coordinate System, East Zone, NAD 83/99.
Elevations are based on NAVD 88 and NGVD 29.

Logical_Consistency_Report:
The horizontal position for the well was established using sub-meter GPS equipment.
The horizontal and vertical position for the site benchmark was established through a GPS network using NGS control stations F 555 (PID DF8362), U 462 (PID AH8813), B 463 (PID AH8821), FLGPS 55 (PID AF7416), C 358 (PID AF6702), R 553 (PID DF8387), KR 1746 (PID AH9316), KR 1495 (PID AH9327), 343334 2 (PID AH9325), KR 1631 GPS (PID AJ6095), KR 1625 GPS (PID AH9319).
Completeness_Report:

Project Results

Horizontal location taken at approximate center of structure.
Lat. + 27° 27' 52.98"
Long. - 81° 09' 52.47"
N 1138140. USft
E 602800. USft

KRAFFS

KRAFFS M.P. -- Existing reference mark at well is the top of a 2" PVC pipe in center of recorded box floor.
Newly leveled elevations.
13.744 (m) 45.09 (ft) NAVD 88 based on published NGS values.
14.107 (m) 46.29 (ft) NGVD 29

KRAFFM

KRAFFM M.P. -- Existing reference mark at well is the top of a 2" PVC pipe in center of recorded box floor.
Newly leveled elevations.
13.743 (m) 45.09 (ft) NAVD 88 based on published NGS values.
14.106 (m) 46.28 (ft) NGVD 29

KRAF 2005 Benchmark

Site Benchmark "KRAF 2005"
To reach the station from the U.S. Post Office in Lorida, Florida; go East on U.S. Highway No. 98 for 8.9 miles to a paved road on the left (S-65-C Lock access road). Turn left on paved road and go North for +/- 1.4 miles to Structure S-65-C boat ramp on the left; thence by boat along the Kissimmee River travel North for +/- 5.4 miles to the station located in grass marsh at
Lat. + 27° 27' 52.96816"
Long. - 81° 09' 52.47797"
N 1138138.74 USft
E 602799.10 USft
Mark is a SFWMD 3 1/2" brass disk; stamped [KRAF] [2005]; set in top of a 12" diameter poured in place concrete monument.
Newly leveled elevations.
11.715 (m) 38.43 (ft) NAVD 88 based on published NGS values.
12.078 (m) 39.63 (ft) NGVD 29

United States Department of the Interior Geologic Survey
Quadrangle map -- Basinger NW
Positional_Accuracy:
Horizontal_Positional_Accuracy:

Horizontal

Horizontal_Positional_Accuracy_Report:
The horizontal position of the well was established using a Trimble ProXR GPS receiver with integrated differentially corrected GPS (DGPS). Positions were differentially corrected using correction signals broadcasted by the US Coast Guard.
The horizontal position of the benchmark at this site was derived through a GPS network using Trimble Navigation, Ltd. Dual Frequency (geodetic) GPS receivers (5700).
The network design and session length conformed to guidelines set forth by Ronnie Taylor (NOAA, National Geodetic Survey, National Ocean Service Advisor) and approved by NGS.
Observations were made on Julian days 173 to 208.
Observations were adjusted using GeoLab 2001.90.20.0 software.
NAD 83/99 values were derived via a network adjustment using NGS published NAD 83/99 values for control stations F 555 (PID DF8362), U 462 (PID AH8813), B 463 (PID AH8821), FLGPS 55 (PID AF7416), C 358 (PID AF6702), R 553 (PID DF8387), KR 1746 (PID AH9316), KR 1495 (PID AH9327), 343334 2 (PID AH9325), KR 1631 GPS (PID AJ6095), KR 1625 GPS (PID AH9319).
Quantitative_Horizontal_Positional_Accuracy_Assessment:
Horizontal_Positional_Accuracy_Value: +/-1 meter (+/-3 feet)
Horizontal_Positional_Accuracy_Explanation: The intended accuracy for the well is +/-1 meter
Quantitative_Horizontal_Positional_Accuracy_Assessment:
Horizontal_Positional_Accuracy_Value: +/-0.011 meters (95% Confidence Region)
Horizontal_Positional_Accuracy_Explanation: NAD83/99 adjustment produced a 95% Confidence Region of +/-0.011 meters for benchmark.
Vertical_Positional_Accuracy:

Level Line

Vertical_Positional_Accuracy_Report:
The vertical (orthometric) height of the benchmark at this site was derived through a GPS network using Trimble Navigation, Ltd. Dual Frequency (geodetic) GPS receivers (5700).
The network design and session length conformed to guidelines set forth by Ronnie Taylor (NOAA, National Geodetic Survey, National Ocean Service Advisor) and approved by NGS.
Observations were made on Julian days 173 to 208.
Observations were adjusted using GeoLab 2001.90.20.0 software.

NAVD 88 values were derived via a network adjustment using NGS published NAVD 88 values for control stations F 555 (PID DF8362), U 462 (PID AH8813), B 463 (PID AH8821), FLGPS 55 (PID AF7416), C 358 (PID AF6702), R 553 (PID DF8387), KR 1746 (PID AH9316), KR 1495 (PID AH9327), 343334 2 (PID AH9325), KR 1631 GPS (PID AJ6095), KR 1625 GPS (PID AH9319). The NGVD 1929 elevations established for this survey are based upon a shift that was derived from the analysis of the difference between the NAVD 1988 and NGVD 1929 values for benchmarks throughout the project area. The NAVD 1988 values were based upon values published by NGS and the NGVD 1929 values were published by SFWMD. An average shift of 0.363 meters (1.193 feet) was derived from nine benchmarks that are spread across a 26 kilometer (16 mile) project area along the Kissimmee River. The standard deviation of the average is 0.001 meters (0.004 feet).

Datum Shift

Quantitative_Vertical_Positional_Accuracy_Assessment:
Vertical_Positional_Accuracy_Value: +/-0.024 meters (95% Confidence Region)
Vertical_Positional_Accuracy_Explanation: NAVD88 adjustment produced a 95% Confidence Region of +/-0.024 meters for benchmark.

Lineage:
Source_Information:
Source_Citation:
Citation_Information:
Series_Information:
Publication_Information:
Larger_Work_Citation:
Citation_Information:
Series_Information:
Publication_Information:
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Range_of_Dates/Times:
Multiple_Dates/Times:
Process_Step:
Process_Description:
The horizontal position for the well was established using sub-meter GPS equipment.
The horizontal and vertical position for the site benchmark was established through a GPS network using NGS control stations F 555 (PID DF8362), U 462 (PID AH8813), B 463 (PID AH8821), FLGPS 55 (PID AF7416), C 358 (PID AF6702), R 553 (PID DF8387), KR 1746 (PID AH9316), KR 1495 (PID AH9327), 343334 2 (PID AH9325), KR 1631 GPS (PID AJ6095), KR 1625 GPS (PID AH9319).
Process_Date: 20050622
Process_Contact:
Contact_Information:
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Contact_Organization_Primary:
Contact_Address:

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Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Geographic:
Planar:
Map_Projection:
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Azimuthal_Equidistant:
Equidistant_Conic:
Equirectangular:
General_Vertical_Near-sided_Perspective:
Gnomonic:
Lambert_Azimuthal_Equal_Area:
Lambert_Conformal_Conic:
Mercator:
Modified_Stereographic_for_Alaska:

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                                        Oblique_Mercator:
                                                Oblique_Line_Point:
                                        Orthographic:
                                        Polar_Stereographic:
                                        Polyconic:
                                        Robinson:
                                        Sinusoidal:
                                        van_der_Grinten:
                                        Space_Oblique_Mercator_(Landsat):
                                        Stereographic:
                                        Transverse_Mercator:
                                        van_der_Grinten:
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                                        Universal_Transverse_Mercator:
                                                Transverse_Mercator:
                                        Universal_Polar_Stereographic:
                                                Polar_Stereographic:
                                        State_Plane_Coordinate_System:
                                                Lambert_Conformal_Conic:
                                                Transverse_Mercator:
                                                Oblique_Mercator:
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                                                Polyconic:
                                        ARC_Coordinate_System:
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                                                Azimuthal_Equidistant:
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                                Planar_Coordinate_Information:
                                        Coordinate_Representation:
                                        Distance_and_Bearing_Representation:
                        Local:
                        Geodetic_Model:
                Vertical_Coordinate_System_Definition:
                        Altitude_System_Definition:
                        Depth_System_Definition:
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                Entity_Type:
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                        Attribute_Domain_Values:
                        Attribute_Value_Accuracy_Information:
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        Distributor:
                Contact_Information:
                        Contact_Person_Primary:
                        Contact_Organization_Primary:
                        Contact_Address:
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                Digital_Form:
                        Digital_Transfer_Information:
                        Digital_Transfer_Option:
                                Online_Option:
                                        Computer_Contact_Information:
                                                Network_Address:
                                                Dialup_Instructions:
                                OffLine_Option:
                                        Recording_Capacity:
        Available_Time_Period:
                Time_Period_Information:
                        Single_Date/Time:
                        Range_of_Dates/Times:
                        Multiple_Dates/Times:
Metadata_Reference_Information:
        Metadata_Date: 20050615
        Metadata_Contact:
                Contact_Information:
                        Contact_Person_Primary:
                                Contact_Person: Charles B. Gardiner, PS
                                Contact_Organization: MACTEC, Inc
                        Contact_Organization_Primary:
```

```
                Contact_Position: Principal Surveyor
                Contact_Address:
                        Address_Type: mailing and physical address
                        Address: 4150 N. John Young Parkway
                        City: Orlando
                        State_or_Province: Florida
                        Postal_Code: 32804-2620
                        Country: USA
                Contact_Voice_Telephone: 407-522-7570
                Contact_Facsimile_Telephone: 407-522-7576
                Contact_Electronic_Mail_Address: CBGardiner@mactec.com
                Hours_of_Service: 8:00 am - 5:00 pm EST
Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata
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Metadata_Security_Information:
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KRAF

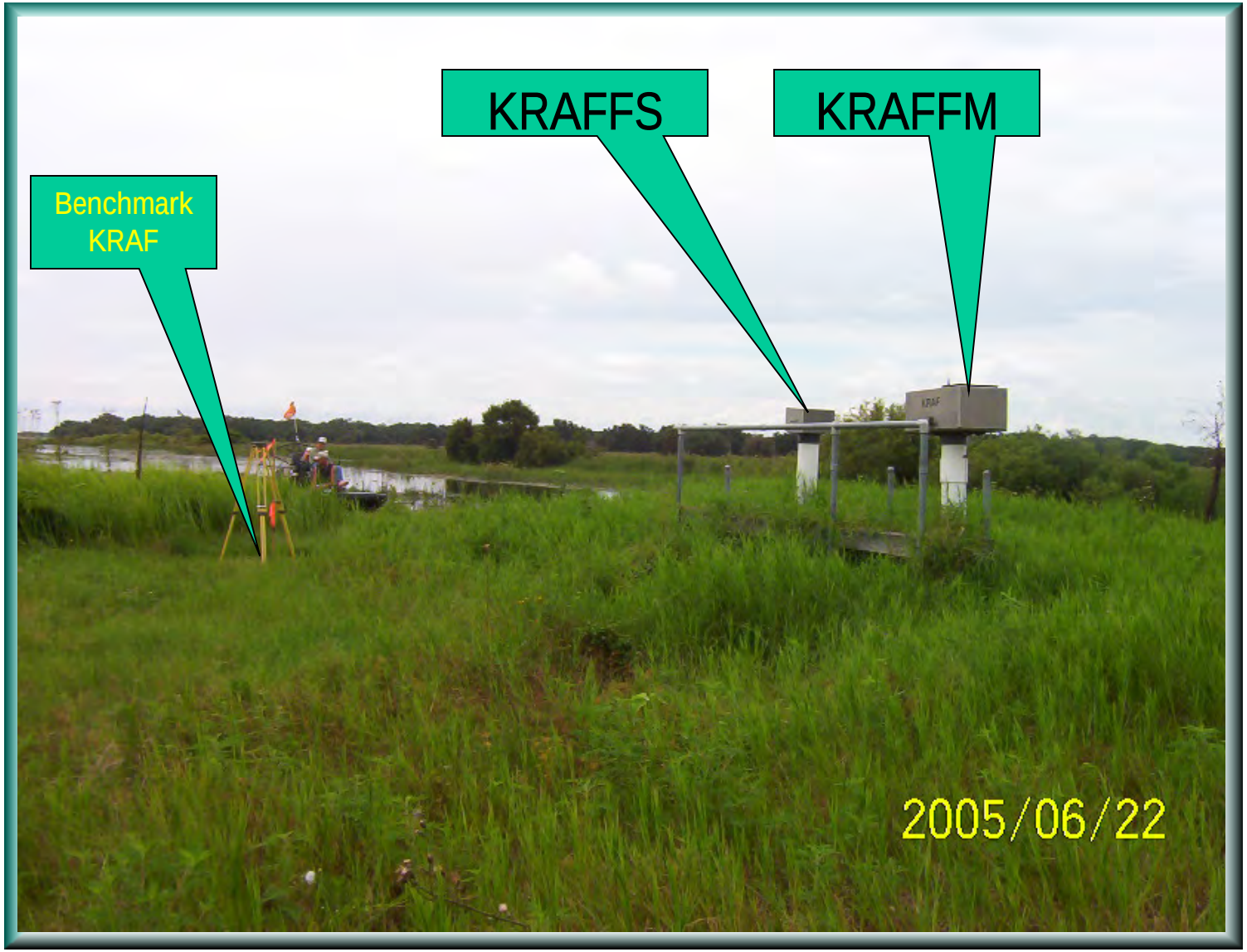

Photo Date: June 22, 2005
View: Looking Northerly at well site KRAF.

KRAF

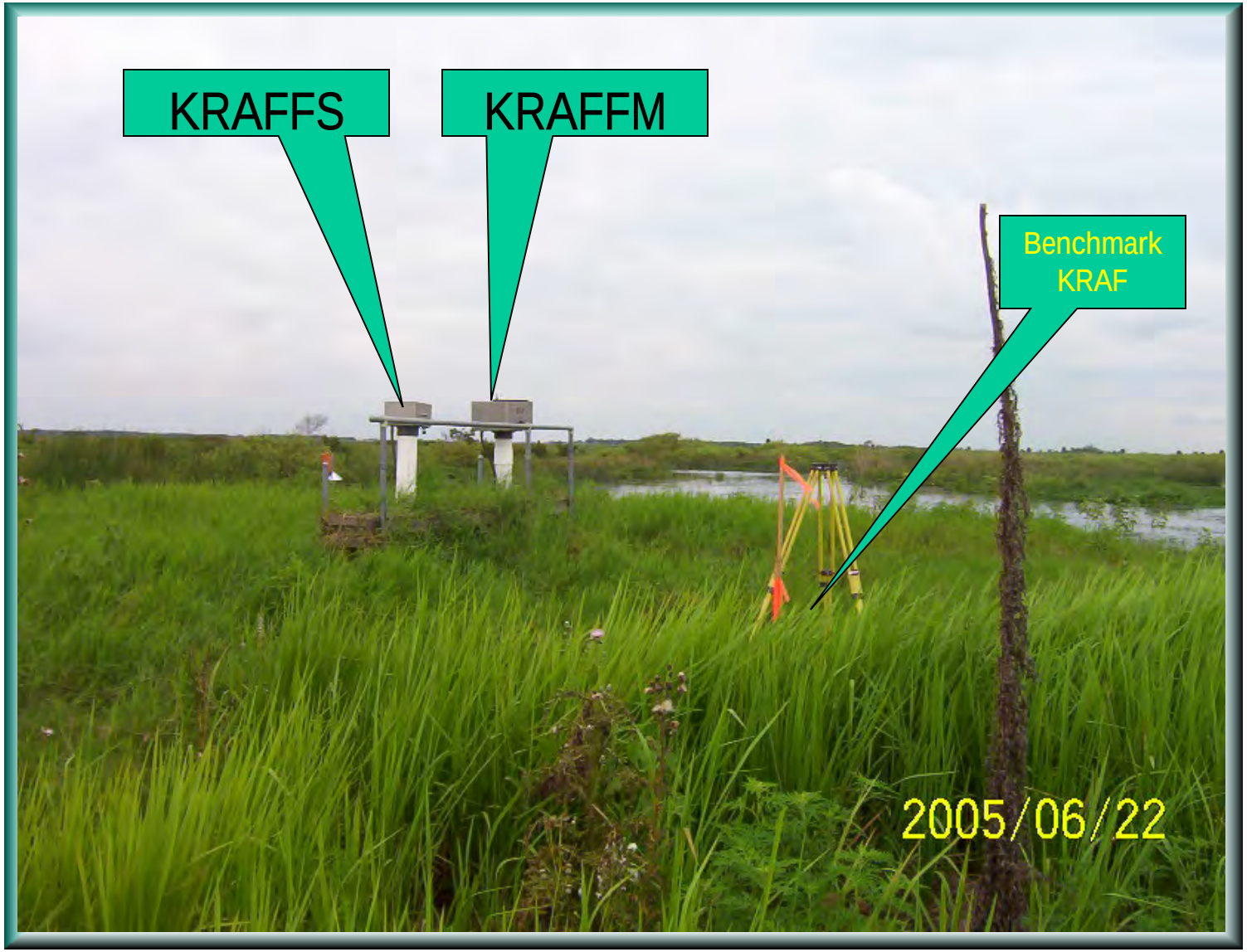

Photo Date: June 22, 2005
View: Looking Southeasterly at well site KRAF.

KRAF

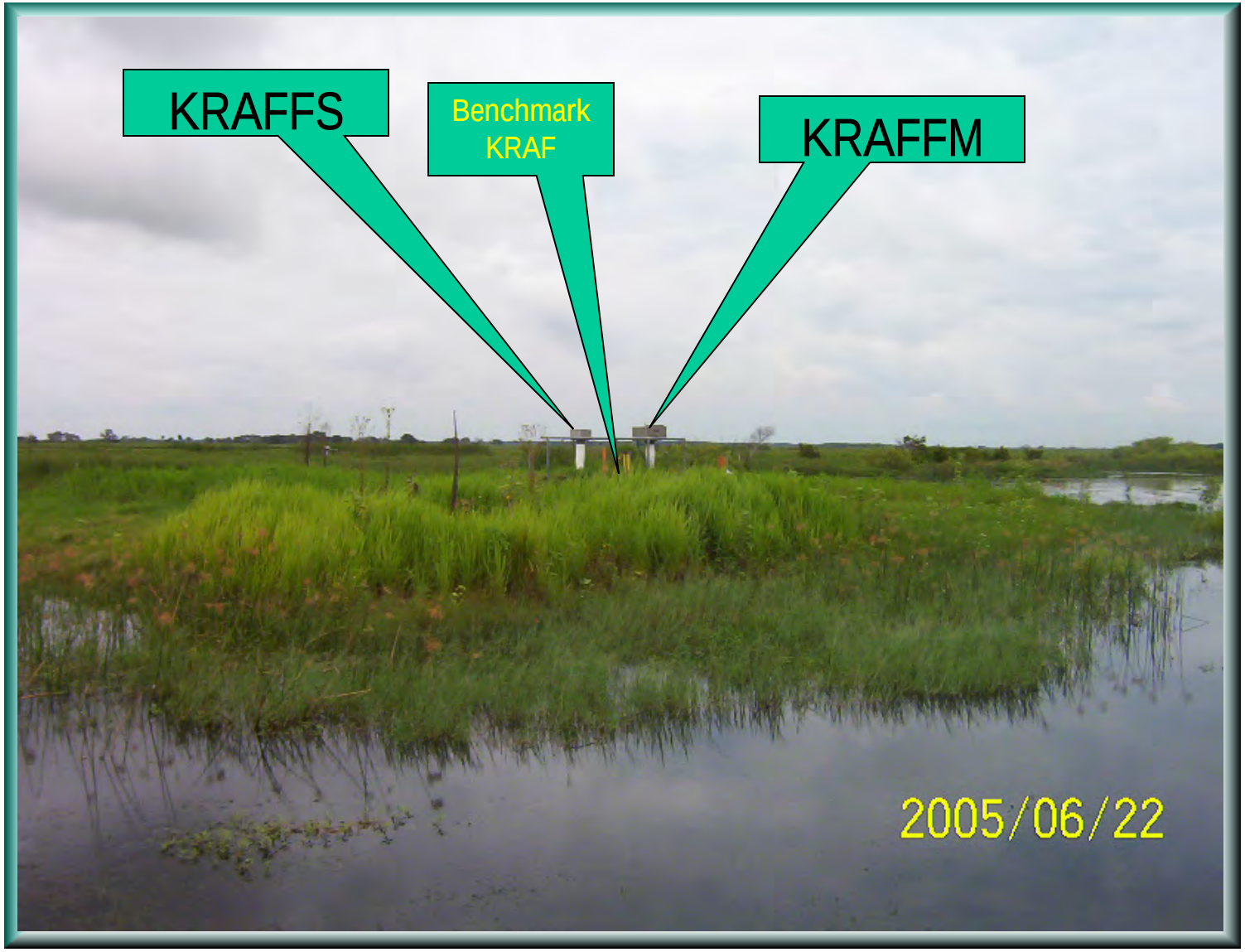

Photo Date: June 22, 2005
View: Looking Easterly at well site KRAF.

KRAF

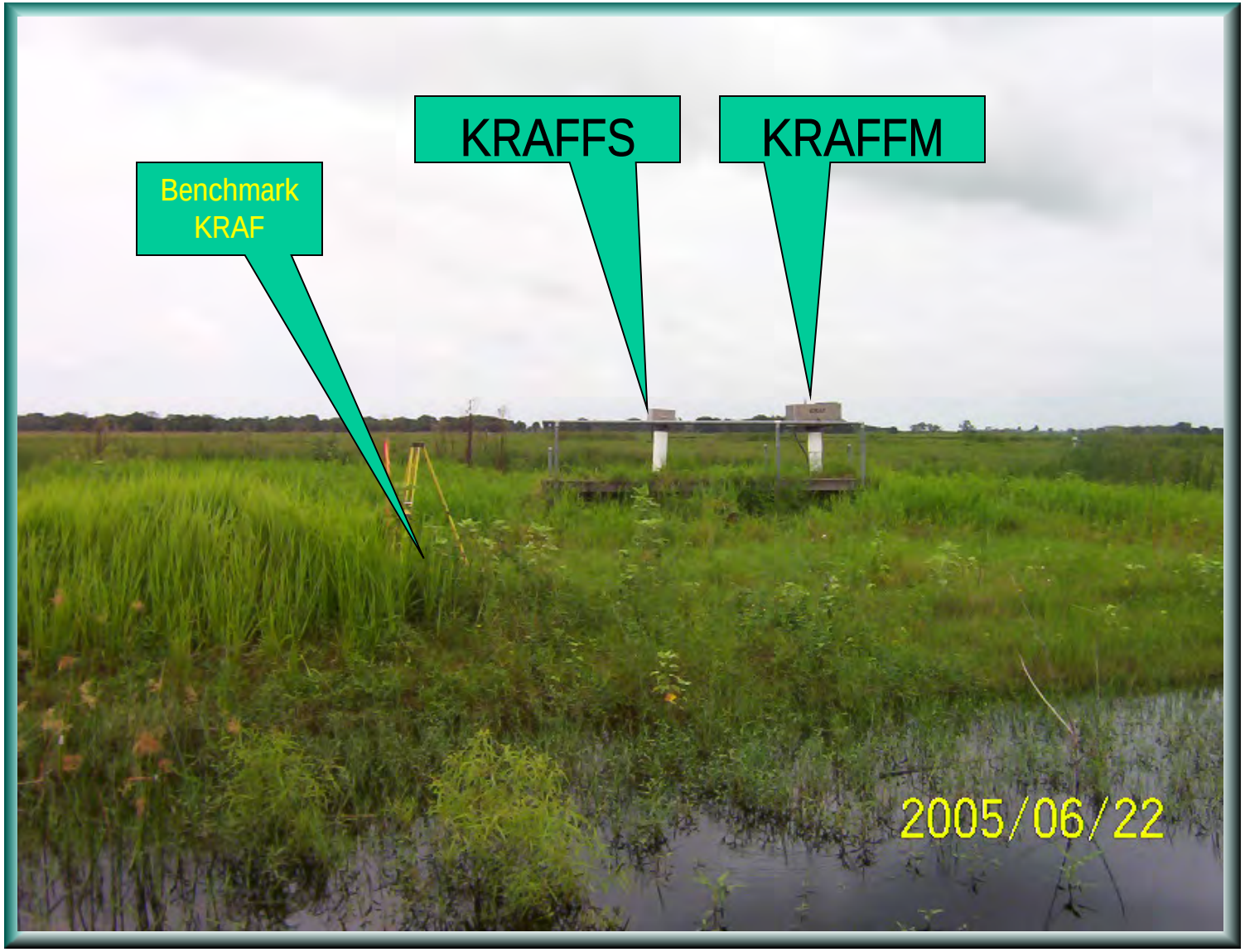

Photo Date: June 22, 2005
View: Looking East at well site KRAF.

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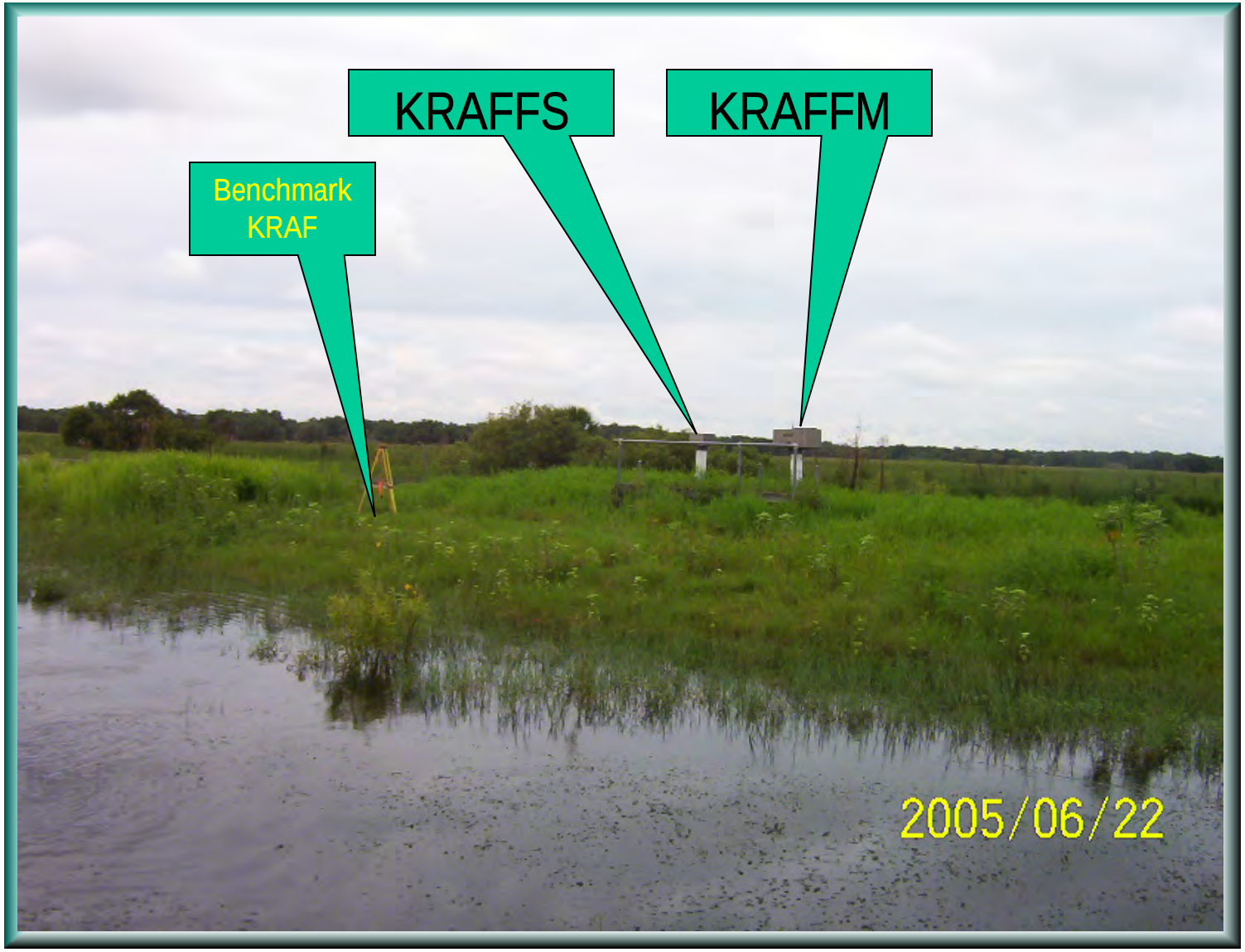

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KRAF

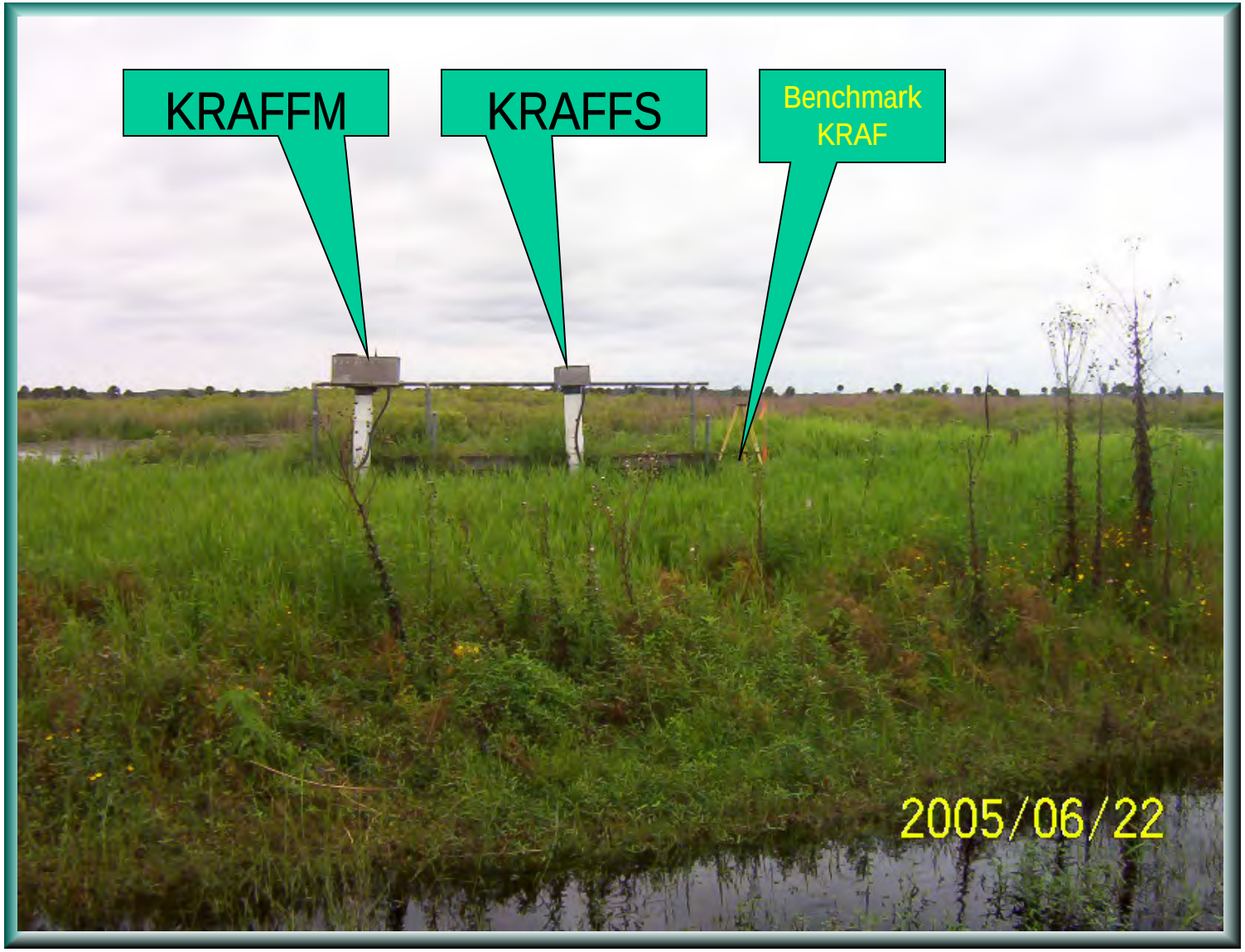


Photo Date: June 22, 2005
View: Looking West at well site KRAF.

KRAF

Photo Date: June 22, 2005
View: Benchmark KRAF (3 ½" Brass Disk in concrete monument).

MACTEC, Inc.

KRAF

Photo Date: June 22, 2005
View: Locked well box containing KRAFFM.

KRAF

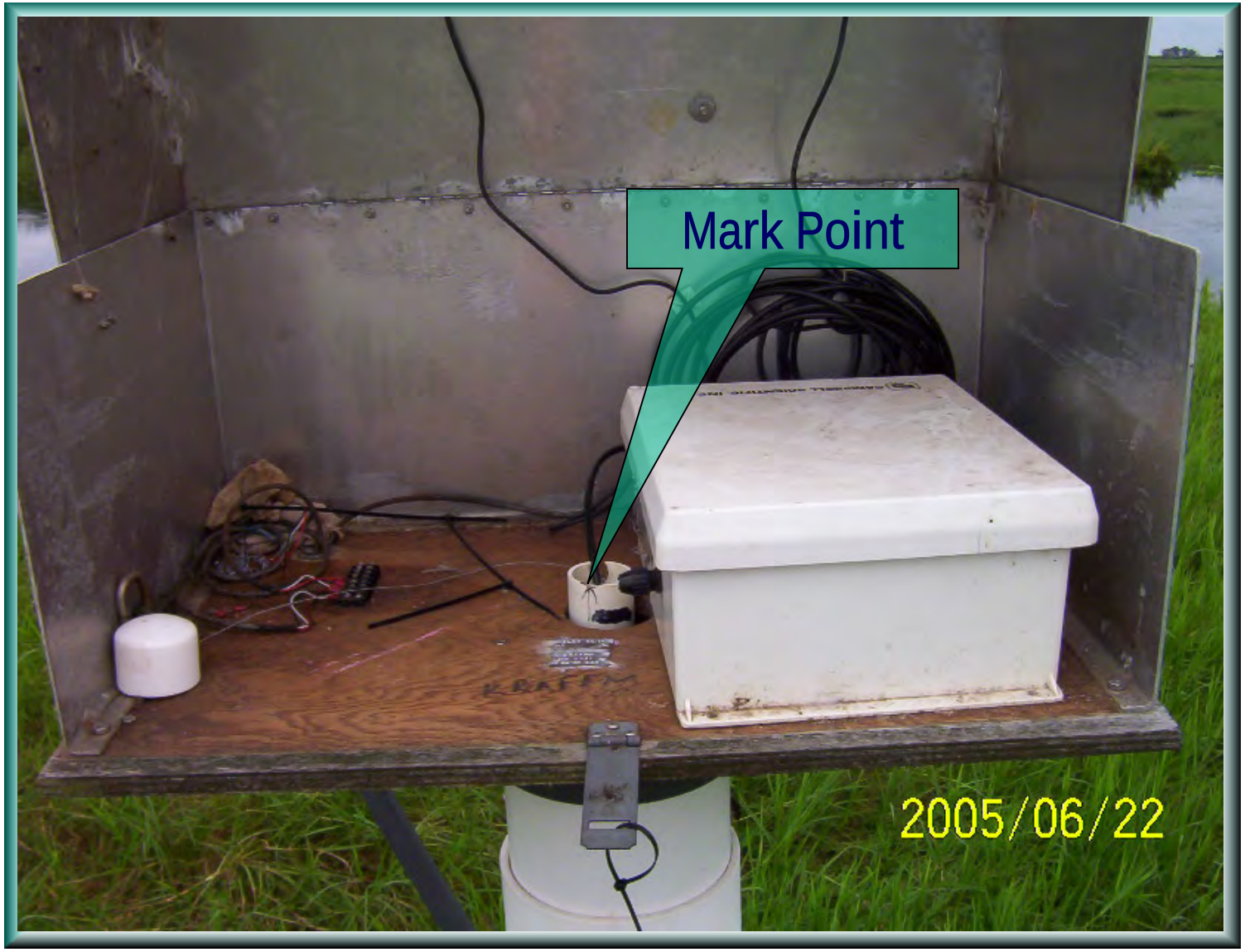


Photo Date: June 22, 2005
View: Opened well box, KRAFFM.

KRAF

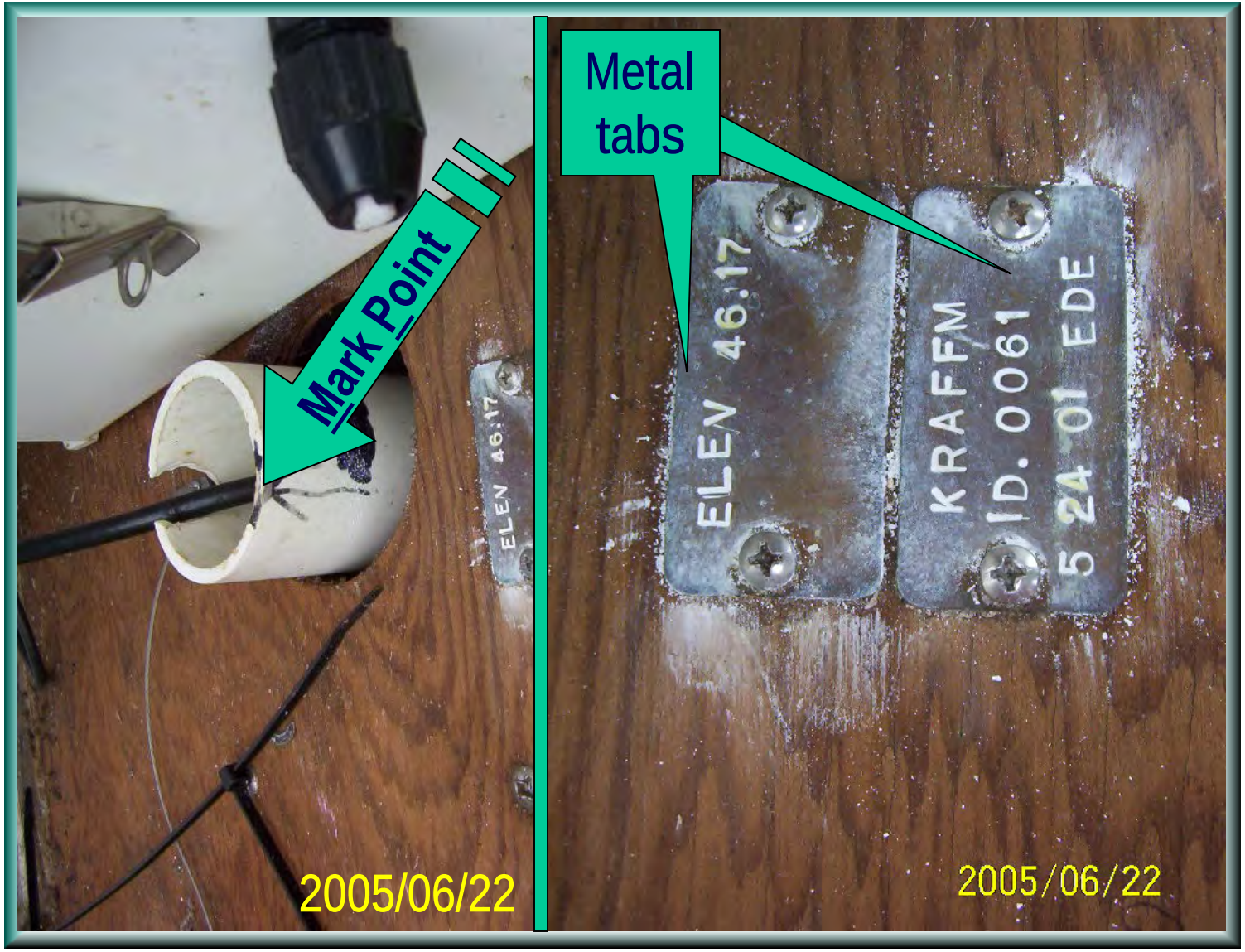


Photo Date: June 22, 2005
View: Inside well box, KRAFFM
Left: Mark Point top of 2" PVC pipe.
Right: Close up of Metal tabs w/info.

KRAF

Photo Date: June 22, 2005
View: Opened well box, showing Mark Point for KRAFFS.

KRAF

MACTEC, Inc.

Photo Date: June 22, 2005
View: Inside well box, KRAFFS
Metal tags w/info and Mark Point at top of 2" PVC pipe.

KRAF

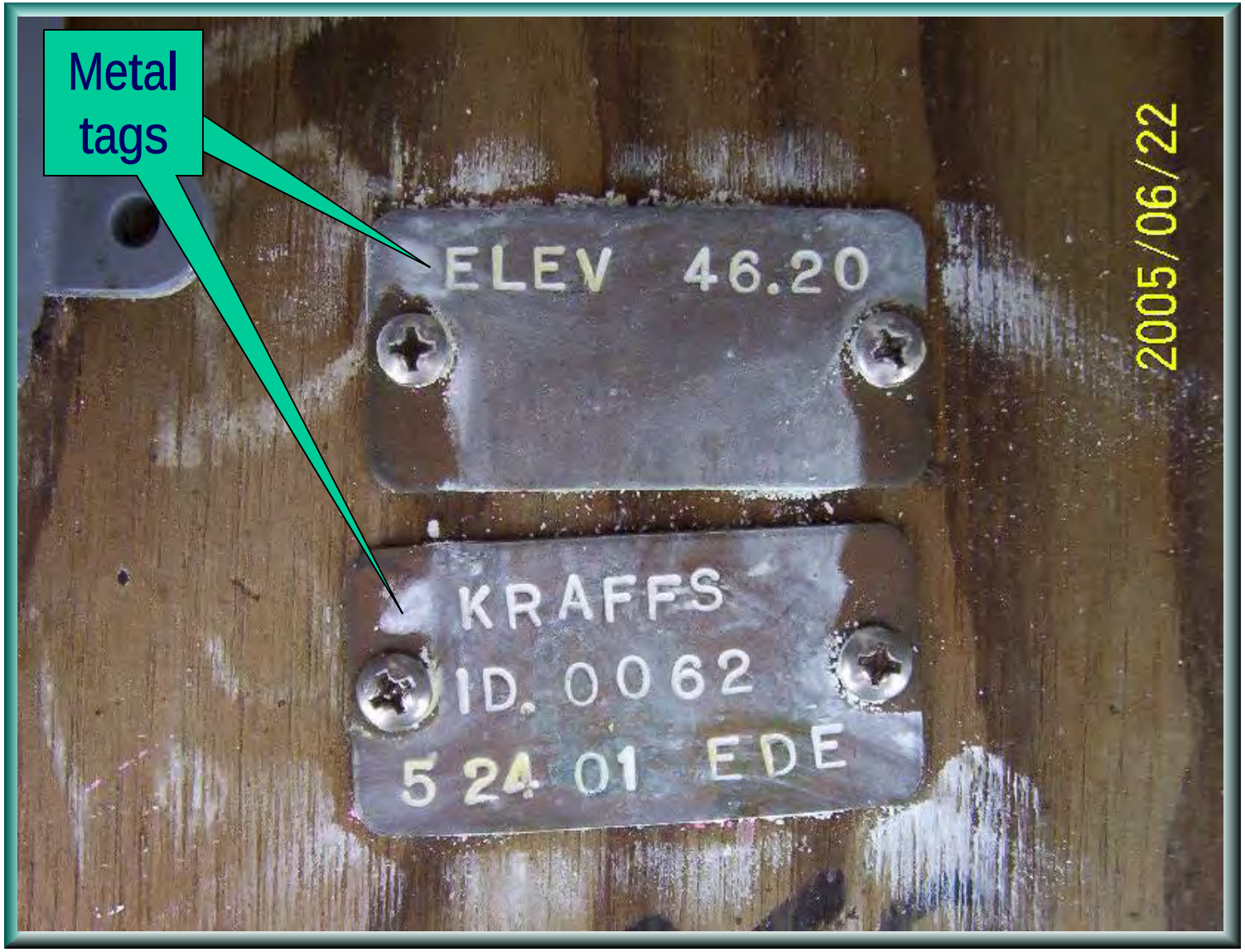


Photo Date: June 22, 2005
View: Metal tags inside well box, KRAFFS

J. HUDSON — S.F.W.M.D. — WED JUNE 22, 2005 — /54

Z. BEEBALS — KRAF — OVERCAST 80°-85°

SITE WORK. — WILD NA2 (188247)

STA.	B.S.	MEAN	H.I.	F.S.	MEAN	ELEV.	B.M. ELEV.	REMARKS
	5.720						ASSUMED	
KRAF	5.545	34.9' 5.545	205.545				200.000	SET 12" DIAM. P.I.P. C.M. w/ 3½" BRASS DISK (S.F.W.M.D.) STAMPED "KRAF 2005"
	5.371							
	1.153			1.269				
KRAFFS	−0.997	31.3' 0.997	205.660	+ 1.112	31.4' 1.112	206.657		INVERTED ROD USING HAND LEVEL TO ELEVATE 2" PVC PIPE w/ MARKER SPOT & ARROW. MARK POINT INSIDE WELL BOX
	0.840			0.955				
	1.030			1.130				
KRAFFM	−0.894	27.2' 0.894	205.759	+ 0.944	27.4' 0.943	206.653		SAME AS ABOVE
	0.758			0.756				
	2.269			2.440				
TBM1	2.137	26.4' 2.137	205.682	2.264	35.1' 2.264	203.495		SET M.A.G NAIL LB4741 @ NORTH END 18' x 2' WOOD PLATFORM
	2.005			2.089				

J. HUDSON
Z. REEBALS

S.F.W.M.D.

KRAF

CONT.D FROM PREV.

WED. JUNE 22, 2005
OVERCAST 80°-85°
WILD NA 2 (138247)

STA	B.S.		MEAN	H.I.	F.S.		MEAN	ELEV.	B.M. ELEV.	REMARKS
				205.622						
	2.100				2.231					
TBM 2	1.986	22.8'	1.986	205.525	2.094	27.6'	2.093	203.539		SET M.A.G. NFD LB 4741
	1.872				1.955					@ SOUTH END 18'X2' WOOD
										PLATFORM
					5.637					
KRAF					5.527	21.8'	5.528	199.997	200.000	SEE DESC. ON PREV. PG.
					5.419					

J. HUDSON
Z. REEBALS

S.F.W.M.D.

KRAF

SITE WORK

WED. JUNE 22, 2005

/56

DIGITAL PICTURES

PICTURE #	DESCRIPTION
34, 35	3¼" BRASS DISK
36	ABOVE 3¼" P.K. C.M. W/DISK
37, 38, 39	KRAFTS INSIDE BOX
40, 41, 42	KRAFFM " "
43	KRAFFM BOX CLOSED
44-49	SITE PROFILES

TRIMBLE D.G.P.S.

FEATURE	LAT.	LONG.
KRAF P.K. C.M.	N 27° 27' 52.98"	W 81° 09' 52.47"
KRAFTS	N 27° 27' 52.94"	W 81° 09' 52.25"
KRAFFM	N 27° 27' 52.87"	W 81° 09' 52.18"

J. HUDSON S.F.W.M.D.

Z. REEBALS KRAF

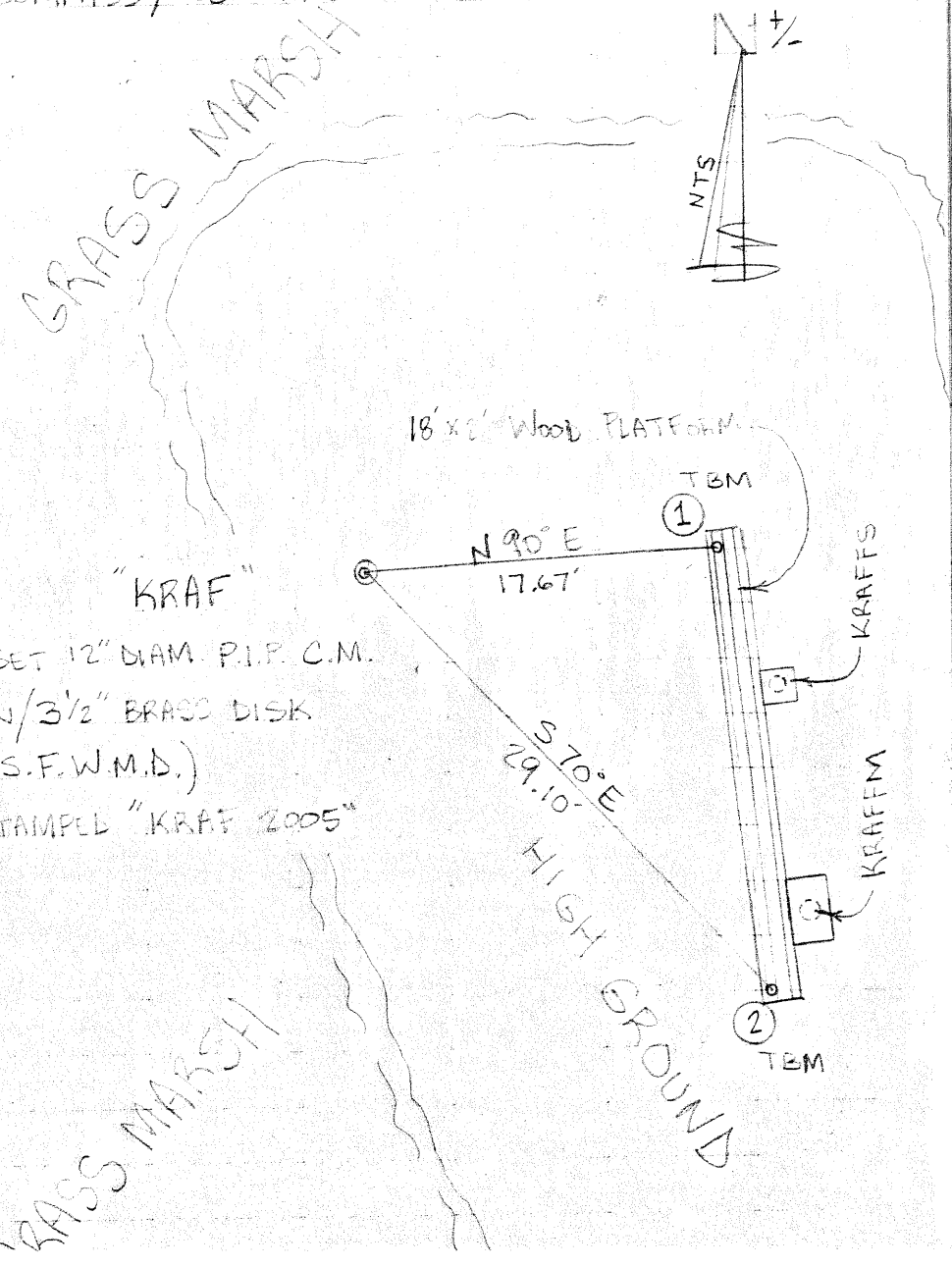
SITE WORK

REFERENCE	MAGNETIC BEARING	DIST FT.
①		
SET MAG NAIL LB4741 @ NORTH END 18'x2' WOOD PLATFORM	N 90° E	17.67
②		
SET MAG NAIL LB4741 @ SOUTH END 18'x2' WOOD PLATFORM	S 70° E	29.10'

WED. JUNE 22, 2005

COMPASS / 100' TAPE

/57



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

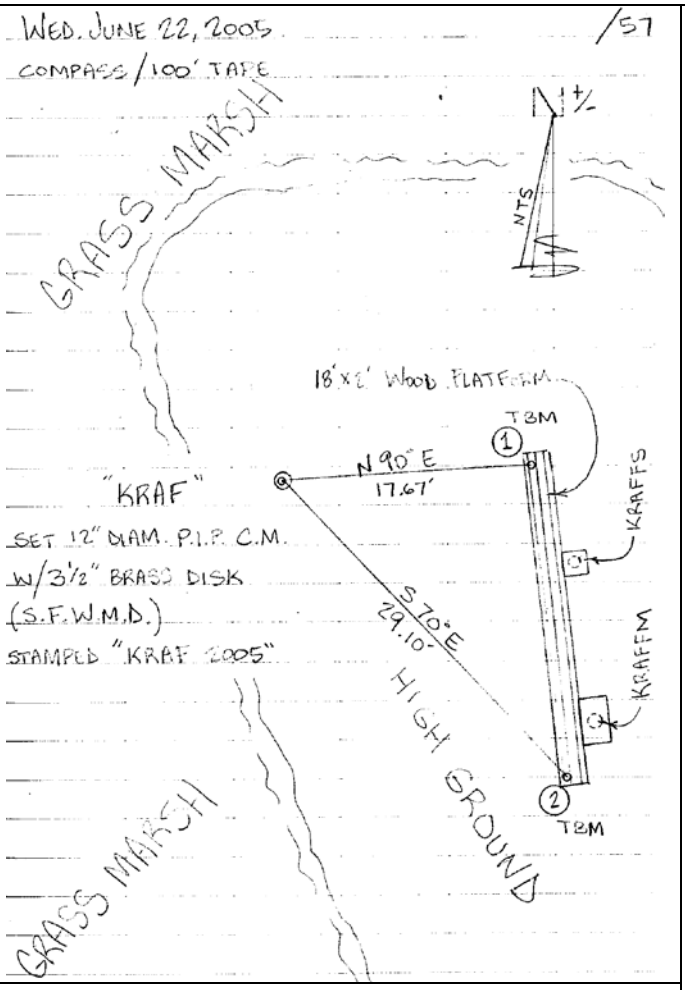
Rev. 4/01

COUNTY: ***OKEECHOBEE***	**PROJECT:** ***KISSIMMEE RIVER WELL SITES, C-C1991OP-WO05***	**DESIGNATION:** **KRAF**
SECTION: **6**	**TOWNSHIP:** **35 South**	**RANGE:** **32 East**
GEOGRAPHIC INDEX OF QUAD: **2810**		
Established by: **MACTEC, Inc.**	**NAME OF QUADRANGLE:** ***BASINGER NW***	
SURVEYOR **Charles B. Gardiner** **DATE** **06/22/2005**	**FIELD BOOK:** **KR-MEC 03** **PAGE:** **54-57**	
HORIZONTAL DATUM: **1927** **1983** **Other**_____ (circle one) ZONE **E** or **W**		
VERTICAL DATUM: MSL **1929** **1988** **Other** _____ (circle one)		
CONTROL ACCURACY: **HORIZONTAL** **1** **2** **3** _____ (circle one) **VERTICAL** **1** **2** **3**		
STATE PLANE COORDINATES	**X: 602799.10 USft**	**Y: 1138138.74 USft**	**EL.: ~~38.43~~ ft** 38.435 NAVD88 39.626 NGVD29
LATITUDE: +27° 27' 52.96816"	**LONGITUDE: -81° 09' 52.47797"**	

DESCRIPTION

To reach the station from the U.S. Post Office in Lorida, Florida; go East on U.S. Highway No. 98 for 8.9 miles to a paved road on the left (S-65-C Lock access road). Turn left on paved road and go North for +/- 1.4 miles to Structure S-65-C boat ramp on the left; thence by boat along the Kissimmee River travel North for +/- 5.4 miles to the station located in grass marsh at:
Lat. + 27° 27' 52.96816"
Long. - 81° 09' 52.47797"

Mark is a SFWMD 3 1/2" brass disk; stamped [KRAF] [2005]; set in top of a 12" diameter poured in place concrete monument.



Notable Land marks:

Backsight Readings					Foresight Readings										
	Mean Reading	*Cumulative Mean*	*Stadia*	*Cumulative Stadia*		*Mean Reading*	*Cumulative Mean*	*Stadia*	*Cumulative Stadia*						
5.720	5.545	5.545	0.349	0.349			0.000	0.000	0.000						
5.545															
5.371															
										TP #	*ELE*	*CORRECTION*	*ADJUSTED ELE*	*Description*	*ELE (m)*
-1.153	-0.997	4.549	-0.313	0.036	-1.269	-1.112	-1.112	-0.314	-0.314	1	45.092	0.000	45.093	KRAFFS	**13.744**
-0.997					-1.112										
-0.840					-0.955										
-1.030	-0.894	3.655	-0.272	-0.236	-1.150	-0.993	-2.105	-0.314	-0.628	2	45.089	0.001	45.090	KRAFFM	**13.743**
-0.894					-0.994										
-0.758					-0.836										
2.269	2.137	5.792	0.264	0.028	2.440	2.264	0.159	0.351	-0.277	3	41.931	0.001	41.932	TBM1	**12.781**
2.137					2.264									GPS	12.767
2.005					2.089									Δ	0.014
2.100	1.986	7.778	0.228	0.256	2.231	2.093	2.252	0.276	-0.001	4	41.974	0.002	41.976	TBM2	**12.794**
1.986					2.094										
1.872					1.955										
					5.637	5.528	7.780	0.218	0.217	5	38.433	0.002	38.435	KRAF	**11.715**
					5.527										
					5.419										

KRAF	38.435	*(NAVD88)*	11.715
KRAF	38.435	(NAVD88)	

SUM OF BS	*SUM OF STADIA*	*SUM OF FS*	*SUM OF STADIA*
7.778	0.256	7.780	0.217

PUBLISHED DIFF -	0.000
MEASURED DIFF -	-0.002
MISCLOSURE -	0.002
PROPOGATED ERROR -	0.000
TOTAL DIST (IN MILES) -	0.009
ALLOWABLE ERROR -	0.005

ADJUSTMENT COMPLETED

Fixed adjustment

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Thu Sep 22 15:24:51 2005

Input file: P:\work\6374050150 - SFWMD Kissimmee River Wells\Surveying\GPS\TRIMBLE\SFWMD 20 WELLS STATIC TGO PROJECT\Export\92205fixed.iob
Output file: P:\work\6374050150 - SFWMD Kissimmee River Wells\Surveying\GPS\TRIMBLE\SFWMD 20 WELLS STATIC TGO PROJECT\Export\92205fixed.lst
Options file: C:\Program Files\Microsearch\GeoLab\default.gpj

Geoid File: C:\geolab\g2003u07pc.gsp

PARAMETERS		OBSERVATIONS	
Description	Number	Description	Number
No. of Stations	38	Directions	0
Coord Parameters	87	Distances	0
Free Latitudes	30	Azimuths	0
Free Longitudes	30	Vertical Angles	0
Free Heights	27	Zenithal Angles	0
Fixed Coordinates	27	Angles	0
Astro. Latitudes	0	Heights	0
Astro. Longitudes	0	Height Differences	0
Geoid Records	0	Auxiliary Params.	0
All Aux. Pars.	0	2-D Coords.	0
Direction Pars.	0	2-D Coord. Diffs.	0
Scale Parameters	0	3-D Coords.	0
Constant Pars.	0	3-D Coord. Diffs.	384
Rotation Pars.	0		
Translation Pars.	0		
	--------		--------
Total Parameters	87	Total Observations	384
Degrees of Freedom = 297			

SUMMARY OF SELECTED OPTIONS

OPTION	SELECTION
Computation Mode	Adjustment
Maximum Iterations	5
Convergence Criterion	0.00100
Angular Misclosure Limit Factor	5.00
Linear Misclosure Limit Factor	5.00
Residual Rejection Criterion	Tau Max
Confidence Region Types	1D 2D Station Relative
Relative Confidence Regions	Connected Only
Variance Factor (VF) Known	Yes
Scale Covariance Matrix With VF	Yes
Scale Residual Variances With VF	Yes
Force Convergence in Max Iters	No
Distances Contribute To Heights	No
Compute Full Inverse	Yes
Optimize Band Width	Yes
Generate Initial Coordinates	Yes
Re-Transform Obs After 1st Pass	Yes
Geoid Interpolation Method	Bi-Quadratic

Fixed adjustment

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Input Station Data:

FFF STATION	ELIP-LATITUDE / ASTRO-LATITUDE / N/S DEFLECTION / NORTHING	ELIP-LONGITUDE / ASTRO-LONGITUDE / N/S DEFLECTION / EASTING	ELIP-HEIGHT / ORTHO-HEIGHT / GEOID-HEIGHT / PROJECTION
001 0001	N 27 30 43.00000	W 81 11 10.00000	-11.475
	N 27 30 45.24000	W 81 11 8.92887	14.656
	0 0 2.24	0 0 0.95	-26.131
	352141.828	181613.012	FLE0901
000 0002	N 27 30 17.42948	W 81 11 46.13432	-13.805
	N 27 30 17.42948	W 81 11 46.13432	-13.805
	0 0 2.41	0 0 1.27	-26.116
	351356.313	180620.121	FLE0901
111 0003	N 27 29 38.00965	W 81 12 37.58638	-11.777
	N 27 29 40.64965	W 81 12 35.71503	14.314
	0 0 2.64	0 0 1.66	-26.091
	350145.314	179205.957	FLE0901
111 0004	N 27 25 30.98854	W 81 12 51.30429	-9.976
	N 27 25 34.22854	W 81 12 47.86810	16.009
	0 0 3.24	0 0 3.05	-25.985
	342542.873	178816.320	FLE0901
111 0005	N 27 23 32.73045	W 81 8 55.12285	-13.815
	N 27 23 35.36045	W 81 8 50.86550	12.228
	0 0 2.63	0 0 3.78	-26.043
	338893.569	185298.647	FLE0901
111 0006	N 27 14 11.06574	W 81 3 14.29810	-16.523
	N 27 14 15.25574	W 81 3 6.16652	9.485
	0 0 4.19	0 0 7.23	-26.008
	321598.849	194654.607	FLE0901
001 0007	N 27 21 43.69713	W 81 3 14.10469	-14.519
	N 27 21 44.89713	W 81 3 9.47693	11.674
	0 0 1.20	0 0 4.11	-26.193
	335530.056	194665.941	FLE0901
000 0008	N 27 21 43.69713	W 81 3 14.10469	-13.797
	N 27 21 44.89713	W 81 3 9.47693	12.396
	0 0 1.20	0 0 4.11	-26.193
	335530.056	194665.941	FLE0901
111 0009	N 27 26 28.63306	W 81 7 29.43157	-12.669
	N 27 26 29.61306	W 81 7 26.63715	13.453
	0 0 0.98	0 0 2.48	-26.122
	344305.059	187658.266	FLE0901
000 0010	N 27 27 37.51075	W 81 10 21.02152	-14.420
	N 27 27 37.51075	W 81 10 21.02152	-14.420
	0 0 1.81	0 0 2.11	-26.083
	346430.681	182949.210	FLE0901
000 0011	N 27 27 40.70056	W 81 10 16.00124	-14.351
	N 27 27 40.70056	W 81 10 16.00124	-14.351
	0 0 1.77	0 0 2.08	-26.085
	346528.669	183087.183	FLE0901
000 0012	N 27 27 46.27803	W 81 10 1.95717	-14.479
	N 27 27 46.27803	W 81 10 1.95717	-14.479
	0 0 1.65	0 0 2.03	-26.091
	346699.814	183473.006	FLE0901
000 0013	N 27 27 52.96797	W 81 9 52.47823	-14.361
	N 27 27 52.96797	W 81 9 52.47823	-14.361
	0 0 1.58	0 0 2.02	-26.095
	346905.376	183733.527	FLE0901
000 0014	N 27 27 52.72432	W 81 9 46.92884	-14.491
	N 27 27 52.72432	W 81 9 46.92884	-14.491
	0 0 1.55	0 0 2.02	-26.097
	346897.676	183885.876	FLE0901
111 0015	N 27 28 53.32725	W 81 9 11.79008	-11.051
	N 27 28 54.83725	W 81 9 9.91894	15.069
	0 0 1.51	0 0 1.66	-26.120

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                        348761.751        184852.914 FLE0901
000 0016         N 27 29  26.66265 W 81 11   7.52491      -14.072
                 N 27 29  26.66265 W 81 11   7.52491      -14.072
                    0  0      2.21    0  0      1.40      -26.105
================================================================================
                              Fixed adjustment
Microsearch GeoLab, V2001.9.20.0             WGS 84      UNITS: m,DMS  Page 0003
================================================================================
Input Station Data:
FFF STATION      ELIP-LATITUDE     ELIP-LONGITUDE    ELIP-HEIGHT
                 ASTRO-LATITUDE    ASTRO-LONGITUDE   ORTHO-HEIGHT
                 N/S DEFLECTION    N/S DEFLECTION    GEOID-HEIGHT
                 NORTHING          EASTING           PROJECTION
--- ------------ ----------------- ----------------- ------------
                        349792.120        181677.425 FLE0901
000 0017         N 27 29  22.87603 W 81 11  14.89613      -14.010
                 N 27 29  22.87603 W 81 11  14.89613      -14.010
                    0  0      2.24    0  0      1.45      -26.103
                        349675.875        181474.920 FLE0901
000 0018         N 27 29   7.20745 W 81 11  52.53497      -13.980
                 N 27 29   7.20745 W 81 11  52.53497      -13.980
                    0  0      2.41    0  0      1.66      -26.089
                        349195.212        180441.008 FLE0901
000 0019         N 27 29   3.98425 W 81 11  50.75221      -14.013
                 N 27 29   3.98425 W 81 11  50.75221      -14.013
                    0  0      2.40    0  0      1.68      -26.088
                        349095.927        180489.787 FLE0901
111 0020         N 27 27  54.32594 W 81  0  27.28064       -9.113
                 N 27 27  54.34594 W 81  0  24.04608       17.151
                    0  0      0.02    0  0      2.87      -26.264
                        346936.421        199251.014 FLE0901
001 0021         N 27 23   5.00000 W 80 59  59.00000      -13.790
                 N 27 23   4.77000 W 80 59  55.48624       12.497
                 -  0  0      0.23    0  0      3.12      -26.287
                        338031.290        200027.475 FLE0901
000 0022         N 27 21  29.75562 W 81  1  46.52705      -17.611
                 N 27 21  29.75562 W 81  1  46.52705      -17.611
                    0  0      0.62    0  0      3.70      -26.238
                        335100.151        197072.501 FLE0901
000 0023         N 27 19  31.62468 W 81  2  31.32970      -17.731
                 N 27 19  31.62468 W 81  2  31.32970      -17.731
                    0  0      1.86    0  0      5.05      -26.189
                        331464.617        195840.042 FLE0901
111 0024         N 27 18  47.10108 W 81  1  29.14134      -16.186
                 N 27 18  48.99108 W 81  1  23.73905       10.031
                    0  0      1.89    0  0      4.80      -26.217
                        330093.797        197549.289 FLE0901
000 0055         N 27 15  58.71592 W 80 51  25.26425      -14.062
                 N 27 15  58.71592 W 80 51  25.26425      -14.062
                    0  0      0.23    0  0      4.49      -26.590
                        324919.052        214157.270 FLE0901
000 KRAFTBM1     N 27 27  52.97329 W 81  9  52.28193      -13.318
                 N 27 27  52.97329 W 81  9  52.28193      -13.318
                    0  0      1.58    0  0      2.02      -26.095
                        346905.533        183738.917 FLE0901
000 KRANTBM2     N 27 27  46.41533 W 81 10   2.17021      -13.648
                 N 27 27  46.41533 W 81 10   2.17021      -13.648
                    0  0      1.66    0  0      2.03      -26.091
                        346704.047        183467.162 FLE0901
000 KRBFTBM2     N 27 27  37.62747 W 81 10  21.12433      -14.149
                 N 27 27  37.62747 W 81 10  21.12433      -14.149
                    0  0      1.81    0  0      2.11      -26.083
                        346434.277        182946.392 FLE0901
000 KRBNTBM1     N 27 27  40.71908 W 81 10  16.15239      -13.932
                 N 27 27  40.71908 W 81 10  16.15239      -13.932
                    0  0      1.77    0  0      2.08      -26.085
                        346529.245        183083.033 FLE0901
000 KRCFTBM1     N 27 29  26.26484 W 81 11   8.91110      -13.851
                 N 27 29  26.26484 W 81 11   8.91110      -13.851
                    0  0      2.21    0  0      1.40      -26.105
                        349779.933        181639.358 FLE0901
000 KRCFTBM2     N 27 29  26.51872 W 81 11   7.44814      -13.874
```

```
                N 27 29  26.51872 W 81 11   7.44814      -13.874
                   0  0      2.21    0  0      1.40      -26.105
                        349787.687         181679.526 FLE0901
000 KRCNTBM1    N 27 29  22.32998 W 81 11  16.17191      -13.802
                N 27 29  22.32998 W 81 11  16.17191      -13.802
================================================================================
                              Fixed adjustment
Microsearch GeoLab, V2001.9.20.0             WGS 84      UNITS: m,DMS  Page 0004
================================================================================
Input Station Data:
FFF STATION     ELIP-LATITUDE     ELIP-LONGITUDE    ELIP-HEIGHT
                ASTRO-LATITUDE    ASTRO-LONGITUDE   ORTHO-HEIGHT
                N/S DEFLECTION    N/S DEFLECTION    GEOID-HEIGHT
                NORTHING          EASTING           PROJECTION
--- ----------- ----------------- ----------------- ------------
                   0  0      2.25    0  0      1.45      -26.102
                        349659.121         181439.875 FLE0901
000 KRDFTBM1    N 27 29   4.00913 W 81 11  50.67982      -13.415
                N 27 29   4.00913 W 81 11  50.67982      -13.415
                   0  0      2.40    0  0      1.67      -26.089
                        349096.690         180491.775 FLE0901
000 KRDRTBM1    N 27 29   9.06240 W 81 11  50.44622      -13.804
                N 27 29   9.06240 W 81 11  50.44622      -13.804
                   0  0      2.40    0  0      1.64      -26.090
                        349252.215         180498.435 FLE0901
000 PC42TBM1    N 27 27  52.66311 W 81  9  46.96399      -14.137
                N 27 27  52.66311 W 81  9  46.96399      -14.137
                   0  0      1.55    0  0      2.02      -26.097
                        346895.793         183884.908 FLE0901
000 PC61TBM2    N 27 30  17.42537 W 81 11  46.18839      -13.461
                N 27 30  17.42537 W 81 11  46.18839      -13.461
                   0  0      2.41    0  0      1.27      -26.116
                        351356.189         180618.637 FLE0901
000 PD01FTBM2   N 27 19  31.52716 W 81  2  31.97133      -16.889
                N 27 19  31.52716 W 81  2  31.97133      -16.889
                   0  0      1.86    0  0      5.05      -26.189
                        331461.621         195822.402 FLE0901
000 PD03TBM2    N 27 21  29.81641 W 81  1  46.74958      -16.946
                N 27 21  29.81641 W 81  1  46.74958      -16.946
                   0  0      0.62    0  0      3.70      -26.238
                        335102.023         197066.386 FLE0901
```

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================================================================================
                              Fixed adjustment
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================================================================================
Misclosures (pass 1):
NOTE: Observation values shown are reduced to mark-to-mark.
TYPE AT           FROM         TO                 OBSERVATION STD.DEV.     MISC
---- ------------ ------------ ------------ ---------------- -------- --------
GROUP: 00001, 92205.asc
DXCT              0022         0007               -2115.561    0.005 -292.202
DYCT              0022         0007               -2045.204    0.011 1862.523
DZCT              0022         0007               -3263.076    0.006 3645.616
GROUP: 00002, 92205.asc
DXCT              0022         0007               -2115.563    0.007 -292.199
DYCT              0022         0007               -2045.191    0.019 1862.511
DZCT              0022         0007               -3263.075    0.015 3645.615
GROUP: 00003, 92205.asc
DXCT              0008         0007                 292.094    0.006 -292.193
DYCT              0008         0007               -1861.906    0.018 1862.540
DZCT              0008         0007               -3645.952    0.011 3645.620
GROUP: 00004, 92205.asc
DXCT              0007         0024                2946.412    0.014  292.173
DYCT              0007         0024                -152.549    0.038 -1862.36
DZCT              0007         0024               -1183.750    0.024 -3645.60
GROUP: 00009, 92205.asc
DXCT              0023         0007               -1159.322    0.005 -292.204
DYCT              0023         0007                -203.790    0.015 1862.544
DZCT              0023         0007                 -33.148    0.007 3645.617
GROUP: 00010, 92205.asc
DXCT              0023         0007               -1159.308    0.005 -292.217
DYCT              0023         0007                -203.819    0.012 1862.572
DZCT              0023         0007                 -33.136    0.007 3645.605
GROUP: 00011, 92205.asc
DXCT              0023         0007               -1159.320    0.006 -292.206
DYCT              0023         0007                -203.806    0.015 1862.559
DZCT              0023         0007                 -33.142    0.008 3645.611
GROUP: 00013, 92205.asc
DXCT              PD01FTBM2    0007               -1142.218    0.010 -292.215
DYCT              PD01FTBM2    0007                -198.969    0.025 1862.569
DZCT              PD01FTBM2    0007                 -30.855    0.014 3645.604
GROUP: 00014, 92205.asc
DXCT              0023         0024                1787.078    0.005   -0.020
DYCT              0023         0024                -356.336    0.012    0.179
DZCT              0023         0024               -1216.905    0.007    0.029
GROUP: 00015, 92205.asc
DXCT              0024         PD01FTBM2          -1804.171    0.010    0.019
DYCT              0024         PD01FTBM2            351.488    0.027   -0.177
DZCT              0024         PD01FTBM2           1214.622    0.016   -0.027
GROUP: 00016, 92205.asc
DXCT              0022         0021                2876.015    0.005 -167.460
DYCT              0022         0021                1801.573    0.011  -12.129
DZCT              0022         0021                2577.979    0.009   27.214
GROUP: 00017, 92205.asc
DXCT              0021         0008               -5283.664    0.005  167.446
DYCT              0021         0008               -1984.907    0.029   12.149
DZCT              0021         0008               -2195.096    0.017  -27.225
GROUP: 00018, 92205.asc
DXCT              0008         0021                5283.666    0.008 -167.447
DYCT              0008         0021                1984.909    0.020  -12.151
DZCT              0008         0021                2195.098    0.011   27.223
GROUP: 00023, 92205.asc
DXCT              0007         PD03TBM2            2109.470    0.006  292.210
DYCT              0007         PD03TBM2            2044.545    0.017 -1862.55
DZCT              0007         PD03TBM2            3265.024    0.009 -3645.60
GROUP: 00024, 92205.asc
DXCT              0024         0022                -830.820    0.004   -0.002
```

DYCT	0024	0022	2197.721	0.011	-0.129
DZCT	0024	0022	4446.845	0.007	-0.040
GROUP: 00025, 92205.asc					
DXCT	0021	0024	-2045.188	0.003	167.454
DYCT	0021	0024	-3999.304	0.008	12.268
DZCT	0021	0024	-7024.820	0.006	-27.177
GROUP: 00028, 92205.asc					

Misclosures (pass 1):
NOTE: Observation values shown are reduced to mark-to-mark.

TYPE	AT	FROM	TO	OBSERVATION	STD.DEV.	MISC
DXCT		0006	0007	-695.879	0.004	-292.224
DYCT		0006	0007	4448.694	0.010	1862.388
DZCT		0006	0007	8735.665	0.007	3645.540
GROUP: 00029, 92205.asc						
DXCT		0008	0005	-9496.506	0.006	0.023
DYCT		0008	0005	75.085	0.016	0.128
DZCT		0008	0005	2980.125	0.009	0.061
GROUP: 00030, 92205.asc						
DXCT		0005	0007	9788.603	0.005	-292.220
DYCT		0005	0007	-1936.995	0.015	1862.416
DZCT		0005	0007	-6626.060	0.009	3645.542
GROUP: 00031, 92205.asc						
DXCT		0009	0021	12838.467	0.006	-167.484
DYCT		0009	0021	-915.184	0.016	-12.269
DZCT		0009	0021	-5591.792	0.010	27.167
GROUP: 00034, 92205.asc						
DXCT		0006	0024	2250.509	0.003	-0.028
DYCT		0006	0024	4296.189	0.007	-0.019
DZCT		0006	0024	7551.894	0.005	-0.033
GROUP: 00037, 92205.asc						
DXCT		0008	0009	-7554.786	0.007	0.021
DYCT		0008	0009	2900.089	0.020	0.122
DZCT		0008	0009	7786.906	0.012	0.039
GROUP: 00038, 92205.asc						
DXCT		0008	0009	-7554.783	0.007	0.018
DYCT		0008	0009	2900.084	0.019	0.127
DZCT		0008	0009	7786.892	0.010	0.053
GROUP: 00044, 92205.asc						
DXCT		0015	KRCFTBM2	-3246.027	0.014	35.937
DYCT		0015	KRCFTBM2	-30.290	0.039	11.304
DZCT		0015	KRCFTBM2	894.154	0.027	10.882
GROUP: 00045, 92205.asc						
DXCT		0015	0001	-3481.496	0.009	35.942
DYCT		0015	0001	1031.131	0.024	11.289
DZCT		0015	0001	2983.395	0.016	10.891
GROUP: 00053, 92205.asc						
DXCT		0016	0015	3248.449	0.008	-35.936
DYCT		0016	0015	28.393	0.017	-11.279
DZCT		0016	0015	-897.983	0.008	-10.891
GROUP: 00076, 92205.asc						
DXCT		0001	0002	-888.751	0.005	-35.927
DYCT		0001	0002	-497.795	0.012	-11.284
DZCT		0001	0002	-688.288	0.009	-10.888
GROUP: 00077, 92205.asc						
DXCT		0003	0001	2198.429	0.005	35.933
DYCT		0003	0001	1269.221	0.012	11.283
DZCT		0003	0001	1763.636	0.007	10.888
GROUP: 00080, 92205.asc						
DXCT		0017	0002	-930.096	0.005	-35.923
DYCT		0017	0002	645.965	0.012	-11.287
DZCT		0017	0002	1500.492	0.006	-10.889
GROUP: 00081, 92205.asc						
DXCT		0016	0002	-1121.794	0.006	-35.925
DYCT		0016	0002	561.719	0.016	-11.265
DZCT		0016	0002	1397.121	0.010	-10.884
GROUP: 00083, 92205.asc						
DXCT		0018	0017	951.030	0.004	35.918

DYCT	0018	0017	366.912	0.009	11.292
DZCT	0018	0017	416.964	0.007	10.869
GROUP: 00084, 92205.asc					
DXCT	0018	0017	951.034	0.004	35.914
DYCT	0018	0017	366.924	0.011	11.280
DZCT	0018	0017	416.945	0.009	10.889
GROUP: 00085, 92205.asc					
DXCT	0003	0016	2431.470	0.005	35.933

Misclosures (pass 1):
NOTE: Observation values shown are reduced to mark-to-mark.

TYPE	AT	FROM	TO	OBSERVATION	STD.DEV.	MISC
DYCT		0003	0016	209.709	0.014	11.261
DZCT		0003	0016	-321.785	0.008	10.897
GROUP: 00087, 92205.asc						
DXCT		0001	PC61TBM2	-890.168	0.009	-35.921
DYCT		0001	PC61TBM2	-498.390	0.022	-11.276
DZCT		0001	PC61TBM2	-688.247	0.009	-10.881
GROUP: 00090, 92205.asc						
DXCT		0012	0017	-2225.044	0.010	35.951
DYCT		0012	0017	1036.811	0.022	11.272
DZCT		0012	0017	2627.302	0.013	10.887
GROUP: 00094, 92205.asc						
DXCT		0013	0017	-2467.637	0.005	35.940
DYCT		0013	0017	903.065	0.012	11.310
DZCT		0013	0017	2444.533	0.007	10.887
GROUP: 00104, 92205.asc						
DXCT		0017	KRCFTBM1	190.908	0.006	-35.913
DYCT		0017	KRCFTBM1	83.898	0.017	-11.284
DZCT		0017	KRCFTBM1	103.484	0.010	-10.878
GROUP: 00106, 92205.asc						
DXCT		0017	KRCNTBM1	2.530	0.003	-35.920
DYCT		0017	KRCNTBM1	-1.934	0.009	-11.280
DZCT		0017	KRCNTBM1	-3.934	0.006	-10.881
GROUP: 00107, 92205.asc						
DXCT		KRCNTBM1	0017	-2.516	0.004	35.907
DYCT		KRCNTBM1	0017	1.896	0.010	11.318
DZCT		KRCNTBM1	0017	3.949	0.005	10.865
GROUP: 00115, 92205.asc						
DXCT		0019	0017	895.648	0.004	35.935
DYCT		0019	0017	404.658	0.009	11.276
DZCT		0019	0017	504.991	0.007	10.872
GROUP: 00118, 92205.asc						
DXCT		0020	0001	-17837.610	0.005	35.940
DYCT		0020	0001	-372.160	0.016	11.276
DZCT		0020	0001	4593.785	0.007	10.904
GROUP: 00121, 92205.asc						
DXCT		0020	0009	-11263.048	0.006	0.031
DYCT		0020	0009	-2998.287	0.018	-0.035
DZCT		0020	0009	-2342.316	0.009	0.026
GROUP: 00122, 92205.asc						
DXCT		0014	0016	-2427.007	0.005	35.938
DYCT		0014	0016	967.200	0.014	11.297
DZCT		0014	0016	2554.616	0.009	10.885
GROUP: 00123, 92205.asc						
DXCT		0021	0020	-1575.445	0.006	167.478
DYCT		0021	0020	3913.508	0.014	12.267
DZCT		0021	0020	7934.088	0.008	-27.174
GROUP: 00124, 92205.asc						
DXCT		0017	0011	1856.162	0.009	-35.936
DYCT		0017	0011	-1174.379	0.021	-11.246
DZCT		0017	0011	-2779.583	0.012	-10.881
GROUP: 00126, 92205.asc						
DXCT		0055	0008	-20179.706	0.010	167.457
DYCT		0055	0008	1735.912	0.023	12.145
DZCT		0055	0008	9461.951	0.012	-27.219
GROUP: 00127, 92205.asc						
DXCT		0055	0020	-16471.429	0.006	167.432

DYCT	0055	0020	7634.220	0.016	12.371
DZCT	0055	0020	19591.183	0.009	-27.215

Solution (pass 1):

NAME	TYPE	OLD VALUE	CORRECTION	UPDATED VALUE
0001	ELAT	N 27 30 43.00000	0 0 -0.39850	N 27 30 42.60150
0001	ELON	W 81 11 10.00000	0 0 -1.35693	W 81 11 11.35693
0002	ELAT	N 27 30 17.42948	0 0 -0.00001	N 27 30 17.42947
0002	ELON	W 81 11 46.13433	0 0 -0.00032	W 81 11 46.13465
0002	EHYT	-13.805	0.010	-13.794
0007	ELAT	N 27 21 43.69713	0 -2 -13.33769	N 27 19 30.35944
0007	ELON	W 81 03 14.10469	0 0 -0.03562	W 81 03 14.14031
0008	ELAT	N 27 21 43.69713	0 0 0.00314	N 27 21 43.70027
0008	ELON	W 81 03 14.10469	0 0 0.00102	W 81 03 14.10367
0008	EHYT	-13.797	0.309	-13.488
0010	ELAT	N 27 27 37.51075	0 0 -0.00033	N 27 27 37.51043
0010	ELON	W 81 10 21.02152	0 0 -0.00020	W 81 10 21.02172
0010	EHYT	-14.420	0.001	-14.418
0011	ELAT	N 27 27 40.70056	0 0 -0.00043	N 27 27 40.70013
0011	ELON	W 81 10 16.00124	0 0 -0.00021	W 81 10 16.00145
0011	EHYT	-14.351	0.008	-14.344
0012	ELAT	N 27 27 46.27803	0 0 0.00018	N 27 27 46.27822
0012	ELON	W 81 10 1.95717	0 0 0.00027	W 81 10 1.95690
0012	EHYT	-14.479	0.008	-14.471
0013	ELAT	N 27 27 52.96797	0 0 0.00019	N 27 27 52.96816
0013	ELON	W 81 09 52.47823	0 0 0.00026	W 81 09 52.47797
0013	EHYT	-14.361	-0.019	-14.380
0014	ELAT	N 27 27 52.72432	0 0 0.00004	N 27 27 52.72436
0014	ELON	W 81 09 46.92884	0 0 0.00026	W 81 09 46.92858
0014	EHYT	-14.491	-0.012	-14.503
0016	ELAT	N 27 29 26.66265	0 0 -0.39838	N 27 29 26.26427
0016	ELON	W 81 11 7.52491	0 0 -1.35653	W 81 11 8.88144
0016	EHYT	-14.072	-0.022	-14.094
0017	ELAT	N 27 29 22.87603	0 0 -0.39840	N 27 29 22.47763
0017	ELON	W 81 11 14.89613	0 0 -1.35653	W 81 11 16.25266
0017	EHYT	-14.010	-0.003	-14.013
0018	ELAT	N 27 29 7.20745	0 0 -0.00021	N 27 29 7.20724
0018	ELON	W 81 11 52.53497	0 0 -0.00052	W 81 11 52.53549
0018	EHYT	-13.980	0.005	-13.975
0019	ELAT	N 27 29 3.98425	0 0 -0.00015	N 27 29 3.98410
0019	ELON	W 81 11 50.75221	0 0 -0.00012	W 81 11 50.75233
0019	EHYT	-14.013	0.019	-13.994
0021	ELAT	N 27 23 5.00000	0 0 -0.99468	N 27 23 4.00532
0021	ELON	W 80 59 59.00000	0 0 6.08974	W 80 59 52.91026
0022	ELAT	N 27 21 29.75562	0 0 0.00338	N 27 21 29.75901
0022	ELON	W 81 01 46.52705	0 0 -0.00016	W 81 01 46.52721
0022	EHYT	-17.611	0.479	-17.131
0023	ELAT	N 27 19 31.62468	0 0 0.00370	N 27 19 31.62838
0023	ELON	W 81 02 31.32970	0 0 0.00019	W 81 02 31.32950
0023	EHYT	-17.731	0.633	-17.098
0055	ELAT	N 27 15 58.71592	0 0 -1.00060	N 27 15 57.71532
0055	ELON	W 80 51 25.26425	0 0 6.08176	W 80 51 19.18248
0055	EHYT	-14.062	0.464	-13.597
KRAFTBM1	ELAT	N 27 27 52.97329	0 0 0.00021	N 27 27 52.97350
KRAFTBM1	ELON	W 81 09 52.28193	0 0 0.00025	W 81 09 52.28168
KRAFTBM1	EHYT	-13.318	-0.010	-13.328
KRANTBM2	ELAT	N 27 27 46.41533	0 0 -0.00024	N 27 27 46.41509
KRANTBM2	ELON	W 81 10 2.17021	0 0 -0.00039	W 81 10 2.17060
KRANTBM2	EHYT	-13.648	0.020	-13.628
KRBFTBM2	ELAT	N 27 27 37.62746	0 0 -0.00030	N 27 27 37.62717
KRBFTBM2	ELON	W 81 10 21.12433	0 0 -0.00027	W 81 10 21.12459

KRBFTBM2	EHYT			-14.149			0.008			-14.141
KRBNTBM1	ELAT	N	27	27 40.71908	0	0	-0.00028	N	27	27 40.71880
KRBNTBM1	ELON	W	81	10 16.15239	0	0	-0.00025	W	81	10 16.15265
KRBNTBM1	EHYT			-13.932			0.014			-13.918
KRCFTBM1	ELAT	N	27	29 26.26484	0	0	-0.00019	N	27	29 26.26465
KRCFTBM1	ELON	W	81	11 8.91111	0	0	-0.00064	W	81	11 8.91174
KRCFTBM1	EHYT			-13.851			-0.001			-13.852
KRCFTBM2	ELAT	N	27	29 26.51872	0	0	-0.39844	N	27	29 26.12027
KRCFTBM2	ELON	W	81	11 7.44814	0	0	-1.35662	W	81	11 8.80476
KRCFTBM2	EHYT			-13.874			-0.012			-13.886

Solution (pass 1):

NAME	TYPE	OLD VALUE			CORRECTION			UPDATED VALUE		
KRCNTBM1	ELAT	N	27	29 22.32998	0	0	-0.00019	N	27	29 22.32979
KRCNTBM1	ELON	W	81	11 16.17191	0	0	-0.00060	W	81	11 16.17251
KRCNTBM1	EHYT			-13.802			-0.004			-13.806
KRDFTBM1	ELAT	N	27	29 4.00913	0	0	-0.00028	N	27	29 4.00886
KRDFTBM1	ELON	W	81	11 50.67982	0	0	-0.00042	W	81	11 50.68024
KRDFTBM1	EHYT			-13.415			0.042			-13.373
KRDRTBM1	ELAT	N	27	29 9.06240	0	0	-0.00018	N	27	29 9.06222
KRDRTBM1	ELON	W	81	11 50.44622	0	0	-0.00059	W	81	11 50.44682
KRDRTBM1	EHYT			-13.804			-0.002			-13.806
PC42TBM1	ELAT	N	27	27 52.66311	0	0	-0.00010	N	27	27 52.66302
PC42TBM1	ELON	W	81	09 46.96399	0	0	0.00031	W	81	09 46.96368
PC42TBM1	EHYT			-14.137			-0.006			-14.143
PC61TBM2	ELAT	N	27	30 17.42537	0	0	-0.00026	N	27	30 17.42511
PC61TBM2	ELON	W	81	11 46.18839	0	0	-0.00044	W	81	11 46.18883
PC61TBM2	EHYT			-13.461			0.023			-13.437
PD01FTBM2	ELAT	N	27	19 31.52716	0	0	0.00369	N	27	19 31.53085
PD01FTBM2	ELON	W	81	02 31.97133	0	0	0.00021	W	81	02 31.97112
PD01FTBM2	EHYT			-16.889			0.581			-16.308
PD03TBM2	ELAT	N	27	21 29.81641	0	0	0.00400	N	27	21 29.82041
PD03TBM2	ELON	W	81	01 46.74958	0	0	-0.00026	W	81	01 46.74984
PD03TBM2	EHYT			-16.946			0.642			-16.304

Fixed adjustment

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Misclosures (pass 2):

NOTE: Observation values shown are reduced to mark-to-mark.

TYPE	AT	FROM	TO	OBSERVATION	STD.DEV.	MISC
GROUP: 00000, 92205.asc						
DXCT		0022	0008	-2407.663	0.008	0.009
DYCT		0022	0008	-183.314	0.020	0.151
DZCT		0022	0008	382.872	0.016	-0.085
GROUP: 00001, 92205.asc						
DXCT		0022	0007	-2115.561	0.005	-0.074
DYCT		0022	0007	-2045.204	0.011	0.530
DZCT		0022	0007	-3263.076	0.006	-0.289
GROUP: 00002, 92205.asc						
DXCT		0022	0007	-2115.563	0.007	-0.072
DYCT		0022	0007	-2045.191	0.019	0.518
DZCT		0022	0007	-3263.075	0.015	-0.291
GROUP: 00003, 92205.asc						
DXCT		0008	0007	292.094	0.006	-0.074
DYCT		0008	0007	-1861.906	0.018	0.396
DZCT		0008	0007	-3645.952	0.011	-0.200
GROUP: 00006, 92205.asc						
DXCT		0022	0023	-956.249	0.005	0.043
DYCT		0022	0023	-1841.381	0.014	-0.182
DZCT		0022	0023	-3229.941	0.007	0.092
GROUP: 00007, 92205.asc						
DXCT		0008	0023	1451.410	0.008	0.037
DYCT		0008	0023	-1658.083	0.021	-0.317
DZCT		0008	0023	-3612.810	0.012	0.174
GROUP: 00008, 92205.asc						
DXCT		0023	0008	-1451.413	0.006	-0.034
DYCT		0023	0008	1658.067	0.017	0.334
DZCT		0023	0008	3612.818	0.009	-0.182
GROUP: 00009, 92205.asc						
DXCT		0023	0007	-1159.322	0.005	-0.106
DYCT		0023	0007	-203.790	0.015	0.680
DZCT		0023	0007	-33.148	0.007	-0.368
GROUP: 00010, 92205.asc						
DXCT		0023	0007	-1159.308	0.005	-0.120
DYCT		0023	0007	-203.819	0.012	0.709
DZCT		0023	0007	-33.136	0.007	-0.380
GROUP: 00011, 92205.asc						
DXCT		0023	0007	-1159.320	0.006	-0.108
DYCT		0023	0007	-203.806	0.015	0.696
DZCT		0023	0007	-33.142	0.008	-0.374
GROUP: 00013, 92205.asc						
DXCT		PD01FTBM2	0007	-1142.218	0.010	-0.110
DYCT		PD01FTBM2	0007	-198.969	0.025	0.660
DZCT		PD01FTBM2	0007	-30.855	0.014	-0.356
GROUP: 00014, 92205.asc						
DXCT		0023	0024	1787.078	0.005	-0.104
DYCT		0023	0024	-356.336	0.012	0.682
DZCT		0023	0024	-1216.905	0.007	-0.363
GROUP: 00015, 92205.asc						
DXCT		0024	PD01FTBM2	-1804.171	0.010	0.097
DYCT		0024	PD01FTBM2	351.488	0.027	-0.635
DZCT		0024	PD01FTBM2	1214.622	0.016	0.341
GROUP: 00016, 92205.asc						

DXCT	0022	0021	2876.015	0.005	-0.048
DYCT	0022	0021	1801.573	0.011	0.515
DZCT	0022	0021	2577.979	0.009	-0.284
GROUP: 00017, 92205.asc					
DXCT	0021	0008	-5283.664	0.005	0.043
DYCT	0021	0008	-1984.907	0.029	-0.343
DZCT	0021	0008	-2195.096	0.017	0.189
GROUP: 00018, 92205.asc					
DXCT	0008	0021	5283.666	0.008	-0.045
DYCT	0008	0021	1984.909	0.020	0.341
DZCT	0008	0021	2195.098	0.011	-0.191
GROUP: 00019, 92205.asc					

Misclosures (pass 2):
NOTE: Observation values shown are reduced to mark-to-mark.

TYPE	AT	FROM	TO	OBSERVATION	STD.DEV.	MISC
DXCT	0022	PD03TBM2		-6.083	0.006	0.018
DYCT	0022	PD03TBM2		-0.688	0.015	-0.135
DZCT	0022	PD03TBM2		1.967	0.011	0.091
GROUP: 00020, 92205.asc						
DXCT	0022	PD03TBM2		-6.093	0.008	0.028
DYCT	0022	PD03TBM2		-0.648	0.021	-0.174
DZCT	0022	PD03TBM2		1.946	0.016	0.113
GROUP: 00022, 92205.asc						
DXCT	PD03TBM2	0008		-2401.566	0.008	-0.023
DYCT	PD03TBM2	0008		-182.631	0.020	0.290
DZCT	PD03TBM2	0008		380.908	0.015	-0.179
GROUP: 00023, 92205.asc						
DXCT	0007	PD03TBM2		2109.470	0.006	0.100
DYCT	0007	PD03TBM2		2044.545	0.017	-0.694
DZCT	0007	PD03TBM2		3265.024	0.009	0.400
GROUP: 00024, 92205.asc						
DXCT	0024	0022		-830.820	0.004	0.053
DYCT	0024	0022		2197.721	0.011	-0.503
DZCT	0024	0022		4446.845	0.007	0.273
GROUP: 00028, 92205.asc						
DXCT	0006	0007		-695.879	0.004	-0.042
DYCT	0006	0007		4448.694	0.010	0.021
DZCT	0006	0007		8735.665	0.007	-0.053
GROUP: 00029, 92205.asc						
DXCT	0008	0005		-9496.506	0.006	-0.040
DYCT	0008	0005		75.085	0.016	0.351
DZCT	0008	0005		2980.125	0.009	-0.166
GROUP: 00030, 92205.asc						
DXCT	0005	0007		9788.603	0.005	-0.038
DYCT	0005	0007		-1936.995	0.015	0.049
DZCT	0005	0007		-6626.060	0.009	-0.051
GROUP: 00034, 92205.asc						
DXCT	0006	0024		2250.509	0.003	-0.028
DYCT	0006	0024		4296.189	0.007	-0.019
DZCT	0006	0024		7551.894	0.005	-0.033
GROUP: 00037, 92205.asc						
DXCT	0008	0009		-7554.786	0.007	-0.042
DYCT	0008	0009		2900.089	0.020	0.345
DZCT	0008	0009		7786.906	0.012	-0.189
GROUP: 00038, 92205.asc						
DXCT	0008	0009		-7554.783	0.007	-0.045
DYCT	0008	0009		2900.084	0.019	0.350
DZCT	0008	0009		7786.892	0.010	-0.174
GROUP: 00121, 92205.asc						
DXCT	0020	0009		-11263.048	0.006	0.031
DYCT	0020	0009		-2998.287	0.018	-0.035
DZCT	0020	0009		-2342.316	0.009	0.026
GROUP: 00126, 92205.asc						
DXCT	0055	0008		-20179.706	0.010	0.056
DYCT	0055	0008		1735.912	0.023	-0.323
DZCT	0055	0008		9461.951	0.012	0.173
GROUP: 00127, 92205.asc						

DXCT	0055	0020	-16471.429	0.006	-0.032
DYCT	0055	0020	7634.220	0.016	0.125
DZCT	0055	0020	19591.183	0.009	-0.052

Misclosures (pass 3):
NOTE: Observation values shown are reduced to mark-to-mark.

TYPE	AT	FROM	TO	OBSERVATION	STD.DEV.	MISC
GROUP: 00028, 92205.asc						
DXCT		0006	0007	-695.879	0.004	-0.017
DYCT		0006	0007	4448.694	0.010	0.031
DZCT		0006	0007	8735.665	0.007	-0.041
GROUP: 00034, 92205.asc						
DXCT		0006	0024	2250.509	0.003	-0.028
DYCT		0006	0024	4296.189	0.007	-0.019
DZCT		0006	0024	7551.894	0.005	-0.033
GROUP: 00121, 92205.asc						
DXCT		0020	0009	-11263.048	0.006	0.031
DYCT		0020	0009	-2998.287	0.018	-0.035
DZCT		0020	0009	-2342.316	0.009	0.026

Fixed adjustment

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Adjusted NEH Coordinates:

CODE	FFF	STATION	NORTHING STD DEV	EASTING STD DEV	E-HEIGHT STD DEV	MAPPROJ	
NEH	001	0001	352129.618 0.004	181575.755 0.004	-11.475 0.000	FLE0901 m	0
SFMC		0001	0.9999453685	0.9999976983 - 0 5 10.120000		FLE0901	
NEH	000	0002	351356.313 0.004	180620.112 0.004	-13.795 0.011	FLE0901 m	0
SFMC		0002	0.9999458143	0.9999980649 - 0 5 26.110000		FLE0901	
NEH	111	0003	350145.314 0.000	179205.957 0.000	-11.777 0.000	FLE0901 m	0
SFMC		0003	0.9999465154	0.9999977520 - 0 5 49.740000		FLE0901	
NEH	111	0004	342542.873 0.000	178816.320 0.000	-9.976 0.000	FLE0901 m	0
SFMC		0004	0.9999467172	0.9999974858 - 0 5 55.260000		FLE0901	
NEH	111	0005	338893.569 0.000	185298.647 0.000	-13.815 0.000	FLE0901 m	0
SFMC		0005	0.9999438469	0.9999980796 - 0 4 6.200000		FLE0901	
NEH	111	0006	321598.849 0.000	194654.607 0.000	-16.523 0.000	FLE0901 m	0
SFMC		0006	0.9999415326	0.9999985104 - 0 1 28.920000		FLE0901	
NEH	001	0007	331426.141 0.004	194663.214 0.003	-14.519 0.000	FLE0901 m	0
SFMC		0007	0.9999415314	0.9999981666 - 0 1 29.120000		FLE0901	
NEH	000	0008	335530.159 0.004	194665.976 0.004	-13.900 0.012	FLE0901 m	0
SFMC		0008	0.9999415311	0.9999980695 - 0 1 29.210000		FLE0901	
NEH	111	0009	344305.059 0.000	187658.266 0.000	-12.669 0.000	FLE0901 m	0
SFMC		0009	0.9999430595	0.9999978872 - 0 3 27.120000		FLE0901	
NEH	000	0010	346430.671 0.004	182949.205 0.004	-14.418 0.011	FLE0901 m	0
SFMC		0010	0.9999447674	0.9999981681 - 0 4 46.380000		FLE0901	
NEH	000	0011	346528.656 0.004	183087.177 0.004	-14.344 0.011	FLE0901 m	0
SFMC		0011	0.9999447096	0.9999981560 - 0 4 44.070000		FLE0901	
NEH	000	0012	346699.819 0.005	183473.013 0.004	-14.471 0.013	FLE0901 m	0
SFMC		0012	0.9999445504	0.9999981751 - 0 4 37.610000		FLE0901	
NEH	000	0013	346905.382 0.004	183733.534 0.004	-14.380 0.012	FLE0901 m	0
SFMC		0013	0.9999444449	0.9999981602 - 0 4 33.250000		FLE0901	
NEH	000	0014	346897.677 0.004	183885.883 0.004	-14.503 0.012	FLE0901 m	0
SFMC		0014	0.9999443841	0.9999981793 - 0 4 30.690000		FLE0901	
NEH	111	0015	348761.751 0.000	184852.914 0.000	-11.051 0.000	FLE0901 m	0
SFMC		0015	0.9999440110	0.9999976334 - 0 4 14.630000		FLE0901	
NEH	000	0016	349779.914 0.004	181640.172 0.003	-14.094 0.010	FLE0901 m	0
SFMC		0016	0.9999453393	0.9999981137 - 0 5 8.760000		FLE0901	
NEH	000	0017	349663.669 0.004	181437.666 0.003	-14.013 0.009	FLE0901 m	0

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 SFMC     0017           0.9999454316     0.9999981013 -  0  5 12.150000 FLE0901
 NEH  000 0018               349195.206        180440.994    -13.975 FLE0901 m       0
                                 0.004             0.004      0.010
 SFMC     0018           0.9999459004     0.9999980974 -  0  5 28.850000 FLE0901
 NEH  000 0019               349095.923        180489.783    -13.994 FLE0901 m       0
                                 0.004             0.004      0.012
 SFMC     0019           0.9999458769     0.9999981006 -  0  5 28.020000 FLE0901
 NEH  111 0020               346936.421        199251.014     -9.113 FLE0901 m       0
                                 0.000             0.000      0.000
 SFMC     0020           0.9999411869     0.9999973064 -  0  0 12.580000 FLE0901
 NEH  001 0021               338000.688        200194.786    -13.790 FLE0901 m       0
                                 0.004             0.003      0.000
 SFMC     0021           0.9999411805     0.9999980374    0  0  3.260000 FLE0901
 NEH  000 0022               335100.253        197072.528    -17.723 FLE0901 m       0
                                 0.004             0.004      0.010
================================================================================
                              Fixed adjustment
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================================================================================
Adjusted NEH Coordinates:
                                NORTHING          EASTING   E-HEIGHT
 CODE FFF STATION                STD DEV          STD DEV    STD DEV MAPPROJ
 ---- --- ------------ --------------- ---------------- ---------- -------
 SFMC     0022           0.9999412858     0.9999986628 -  0  0 48.950000 FLE0901
 NEH  000 0023               331464.730        195840.066    -17.886 FLE0901 m       0
                                 0.004             0.004      0.010
 SFMC     0023           0.9999413935     0.9999986961 -  0  1  9.470000 FLE0901
 NEH  111 0024               330093.797        197549.289    -16.186 FLE0901 m       0
                                 0.000             0.000      0.000
 SFMC     0024           0.9999412541     0.9999984246 -  0  0 40.900000 FLE0901
 NEH  000 0055               324888.455        214324.577    -13.660 FLE0901 m       0
                                 0.007             0.006      0.016
 SFMC     0055           0.9999437120     0.9999979695    0  3 58.600000 FLE0901
 NEH  000 KRAFTBM1           346905.539        183738.924    -13.328 FLE0901 m       0
                                 0.005             0.005      0.020
 SFMC     KRAFTBM1       0.9999444428     0.9999979949 -  0  4 33.160000 FLE0901
 NEH  000 KRANTBM2           346704.040        183467.152    -13.628 FLE0901 m       0
                                 0.007             0.006      0.020
 SFMC     KRANTBM2       0.9999445527     0.9999980428 -  0  4 37.710000 FLE0901
 NEH  000 KRBFTBM2           346434.268        182946.385    -14.141 FLE0901 m       0
                                 0.006             0.006      0.017
 SFMC     KRBFTBM2       0.9999447686     0.9999981244 -  0  4 46.420000 FLE0901
 NEH  000 KRBNTBM1           346529.237        183083.026    -13.918 FLE0901 m       0
                                 0.005             0.005      0.014
 SFMC     KRBNTBM1       0.9999447113     0.9999980892 -  0  4 44.140000 FLE0901
 NEH  000 KRCFTBM1           349779.927        181639.340    -13.852 FLE0901 m       0
                                 0.007             0.007      0.021
 SFMC     KRCFTBM1       0.9999453397     0.9999980757 -  0  5  8.770000 FLE0901
 NEH  000 KRCFTBM2           349775.479        181642.270    -13.886 FLE0901 m       0
                                 0.011             0.010      0.041
 SFMC     KRCFTBM2       0.9999453384     0.9999980810 -  0  5  8.720000 FLE0901
 NEH  000 KRCNTBM1           349659.115        181439.859    -13.806 FLE0901 m       0
                                 0.004             0.004      0.013
 SFMC     KRCNTBM1       0.9999454306     0.9999980689 -  0  5 12.110000 FLE0901
 NEH  000 KRDFTBM1           349096.681        180491.764    -13.373 FLE0901 m       0
                                 0.004             0.004      0.013
 SFMC     KRDFTBM1       0.9999458759     0.9999980031 -  0  5 27.990000 FLE0901
 NEH  000 KRDRTBM1           349252.210        180498.418    -13.806 FLE0901 m       0
                                 0.006             0.005      0.015
 SFMC     KRDRTBM1       0.9999458727     0.9999980708 -  0  5 27.890000 FLE0901
 NEH  000 PC42TBM1           346895.790        183884.917    -14.143 FLE0901 m       0
                                 0.005             0.004      0.014
 SFMC     PC42TBM1       0.9999443844     0.9999981227 -  0  4 30.710000 FLE0901
 NEH  000 PC61TBM2           351356.181        180618.625    -13.437 FLE0901 m       0
                                 0.008             0.009      0.030
 SFMC     PC61TBM2       0.9999458150     0.9999980088 -  0  5 26.140000 FLE0901
 NEH  000 PD01FTBM2          331461.734        195822.424    -17.049 FLE0901 m       0
                                 0.007             0.007      0.026
 SFMC     PD01FTBM2      0.9999413954     0.9999985647 -  0  1  9.760000 FLE0901
 NEH  000 PD03TBM2           335102.124        197066.411    -17.082 FLE0901 m       0
                                 0.006             0.006      0.016
 SFMC     PD03TBM2       0.9999412862     0.9999985620 -  0  0 49.060000 FLE0901
```

Fixed adjustment

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Adjusted PLH Coordinates:

CODE	FFF	STATION	LATITUDE	STD DEV	LONGITUDE	STD DEV	ELIP-HEIGHT	STD DEV	
PLH	001	0001	N 27 30 42.60150	0.004	W 81 11 11.35693	0.004	-11.475 m	0.000	0
PLH	000	0002	N 27 30 17.42947	0.004	W 81 11 46.13465	0.004	-13.795 m	0.011	0
PLH	111	0003	N 27 29 38.00965	0.000	W 81 12 37.58638	0.000	-11.777 m	0.000	0
PLH	111	0004	N 27 25 30.98854	0.000	W 81 12 51.30429	0.000	-9.976 m	0.000	0
PLH	111	0005	N 27 23 32.73045	0.000	W 81 8 55.12285	0.000	-13.815 m	0.000	0
PLH	111	0006	N 27 14 11.06574	0.000	W 81 3 14.29810	0.000	-16.523 m	0.000	0
PLH	001	0007	N 27 19 30.35989	0.004	W 81 3 14.13937	0.003	-14.519 m	0.000	0
PLH	000	0008	N 27 21 43.70049	0.004	W 81 3 14.10341	0.004	-13.900 m	0.012	0
PLH	111	0009	N 27 26 28.63306	0.000	W 81 7 29.43157	0.000	-12.669 m	0.000	0
PLH	000	0010	N 27 27 37.51043	0.004	W 81 10 21.02172	0.004	-14.418 m	0.011	0
PLH	000	0011	N 27 27 40.70013	0.004	W 81 10 16.00145	0.004	-14.344 m	0.011	0
PLH	000	0012	N 27 27 46.27822	0.005	W 81 10 1.95690	0.004	-14.471 m	0.013	0
PLH	000	0013	N 27 27 52.96816	0.004	W 81 9 52.47797	0.004	-14.380 m	0.012	0
PLH	000	0014	N 27 27 52.72436	0.004	W 81 9 46.92858	0.004	-14.503 m	0.012	0
PLH	111	0015	N 27 28 53.32725	0.000	W 81 9 11.79008	0.000	-11.051 m	0.000	0
PLH	000	0016	N 27 29 26.26427	0.004	W 81 11 8.88144	0.003	-14.094 m	0.010	0
PLH	000	0017	N 27 29 22.47763	0.004	W 81 11 16.25266	0.003	-14.013 m	0.009	0
PLH	000	0018	N 27 29 7.20724	0.004	W 81 11 52.53549	0.004	-13.975 m	0.010	0
PLH	000	0019	N 27 29 3.98410	0.004	W 81 11 50.75233	0.004	-13.994 m	0.012	0
PLH	111	0020	N 27 27 54.32594	0.000	W 81 0 27.28064	0.000	-9.113 m	0.000	0
PLH	001	0021	N 27 23 4.00569	0.004	W 80 59 52.91040	0.003	-13.790 m	0.000	0
PLH	000	0022	N 27 21 29.75893	0.004	W 81 1 46.52607	0.004	-17.723 m	0.010	0
PLH	000	0023	N 27 19 31.62836	0.004	W 81 2 31.32880	0.004	-17.886 m	0.010	0
PLH	111	0024	N 27 18 47.10108	0.000	W 81 1 29.14134	0.000	-16.186 m	0.000	0

PLH	000	0055	N	27	15	57.71556	W	80	51	19.18254	-13.660 m 0
						0.007				0.006	0.016
PLH	000	KRAFTBM1	N	27	27	52.97350	W	81	9	52.28168	-13.328 m 0
						0.005				0.005	0.020
PLH	000	KRANTBM2	N	27	27	46.41509	W	81	10	2.17060	-13.628 m 0
						0.007				0.006	0.020
PLH	000	KRBFTBM2	N	27	27	37.62717	W	81	10	21.12459	-14.141 m 0
						0.006				0.006	0.017
PLH	000	KRBNTBM1	N	27	27	40.71880	W	81	10	16.15265	-13.918 m 0
						0.005				0.005	0.014
PLH	000	KRCFTBM1	N	27	29	26.26465	W	81	11	8.91174	-13.852 m 0
						0.007				0.007	0.021
PLH	000	KRCFTBM2	N	27	29	26.12027	W	81	11	8.80476	-13.886 m 0
						0.011				0.010	0.041
PLH	000	KRCNTBM1	N	27	29	22.32979	W	81	11	16.17251	-13.806 m 0
						0.004				0.004	0.013
PLH	000	KRDFTBM1	N	27	29	4.00886	W	81	11	50.68024	-13.373 m 0

Adjusted PLH Coordinates:

CODE	FFF	STATION	LATITUDE		LONGITUDE		ELIP-HEIGHT	
				STD DEV		STD DEV		STD DEV
				0.004		0.004		0.013
PLH	000	KRDRTBM1	N 27 29 9.06222		W 81 11 50.44682		-13.806 m	0
				0.006		0.005		0.015
PLH	000	PC42TBM1	N 27 27 52.66301		W 81 9 46.96368		-14.143 m	0
				0.005		0.004		0.014
PLH	000	PC61TBM2	N 27 30 17.42511		W 81 11 46.18883		-13.437 m	0
				0.008		0.009		0.030
PLH	000	PD01FTBM2	N 27 19 31.53081		W 81 2 31.97056		-17.049 m	0
				0.007		0.007		0.026
PLH	000	PD03TBM2	N 27 21 29.81969		W 81 1 46.74868		-17.082 m	0
				0.006		0.006		0.016

Fixed adjustment

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Geoid Values:

CODE	STATION	N/S DEFLECTION	E/W DEFLECTION	UNDULATION
GEOI	0001	0 0 2.24	0 0 0.95	-26.131 m
GEOI	0002	0 0 2.41	0 0 1.27	-26.116 m
GEOI	0003	0 0 2.64	0 0 1.66	-26.091 m
GEOI	0004	0 0 3.24	0 0 3.05	-25.985 m
GEOI	0005	0 0 2.63	0 0 3.78	-26.043 m
GEOI	0006	0 0 4.19	0 0 7.23	-26.008 m
GEOI	0007	0 0 1.20	0 0 4.11	-26.193 m
GEOI	0008	0 0 1.20	0 0 4.11	-26.193 m
GEOI	0009	0 0 0.98	0 0 2.48	-26.122 m
GEOI	0010	0 0 1.81	0 0 2.11	-26.083 m
GEOI	0011	0 0 1.77	0 0 2.08	-26.085 m
GEOI	0012	0 0 1.65	0 0 2.03	-26.091 m
GEOI	0013	0 0 1.58	0 0 2.02	-26.095 m
GEOI	0014	0 0 1.55	0 0 2.02	-26.097 m
GEOI	0015	0 0 1.51	0 0 1.66	-26.120 m
GEOI	0016	0 0 2.21	0 0 1.40	-26.105 m
GEOI	0017	0 0 2.24	0 0 1.45	-26.103 m
GEOI	0018	0 0 2.41	0 0 1.66	-26.089 m
GEOI	0019	0 0 2.40	0 0 1.68	-26.088 m
GEOI	0020	0 0 0.02	0 0 2.87	-26.264 m
GEOI	0021	- 0 0 0.23	0 0 3.12	-26.287 m
GEOI	0022	0 0 0.62	0 0 3.70	-26.238 m
GEOI	0023	0 0 1.86	0 0 5.05	-26.189 m
GEOI	0024	0 0 1.89	0 0 4.80	-26.217 m
GEOI	0055	0 0 0.23	0 0 4.49	-26.590 m
GEOI	KRAFTBM1	0 0 1.58	0 0 2.02	-26.095 m
GEOI	KRANTBM2	0 0 1.66	0 0 2.03	-26.091 m
GEOI	KRBFTBM2	0 0 1.81	0 0 2.11	-26.083 m
GEOI	KRBNTBM1	0 0 1.77	0 0 2.08	-26.085 m
GEOI	KRCFTBM1	0 0 2.21	0 0 1.40	-26.105 m
GEOI	KRCFTBM2	0 0 2.21	0 0 1.40	-26.105 m
GEOI	KRCNTBM1	0 0 2.25	0 0 1.45	-26.102 m
GEOI	KRDFTBM1	0 0 2.40	0 0 1.67	-26.089 m
GEOI	KRDRTBM1	0 0 2.40	0 0 1.64	-26.090 m
GEOI	PC42TBM1	0 0 1.55	0 0 2.02	-26.097 m
GEOI	PC61TBM2	0 0 2.41	0 0 1.27	-26.116 m
GEOI	PD01FTBM2	0 0 1.86	0 0 5.05	-26.189 m
GEOI	PD03TBM2	0 0 0.62	0 0 3.70	-26.238 m

```
================================================================================
                              Fixed adjustment
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================================================================================
Residuals (critical value = 3.950):
NOTE: Observation values shown are reduced to mark-to-mark.
                                                      OBSERVATION RESIDUAL  STD RES
TYPE AT           FROM         TO                         STD DEV  STD DEV      PPM
---- ------------ ------------ ------------ ----------------- -------- --------
GROUP: 00000, 92205.asc
DXCT              0022         0008                -2407.66280    0.009    0.710
                                                        0.014    0.013     3.81
DYCT              0022         0008                 -183.31410   -0.006   -0.164
                                                        0.036    0.034     2.26
DZCT              0022         0008                  382.87210    0.005    0.203
                                                        0.028    0.026     2.18
GROUP: 00001, 92205.asc
DXCT              0022         0007                -2115.56060    0.001    0.177
                                                        0.008    0.007     0.30
DYCT              0022         0007                -2045.20360    0.018    1.002
                                                        0.020    0.018     4.09
DZCT              0022         0007                -3263.07620   -0.003   -0.324
                                                        0.011    0.010     0.72
GROUP: 00002, 92205.asc
DXCT              0022         0007                -2115.56320    0.004    0.312
                                                        0.013    0.013     0.89
DYCT              0022         0007                -2045.19120    0.006    0.170
                                                        0.034    0.033     1.26
DZCT              0022         0007                -3263.07450   -0.005   -0.192
                                                        0.026    0.025     1.11
GROUP: 00003, 92205.asc
DXCT              0008         0007                  292.09360    0.001    0.058
                                                        0.011    0.010     0.14
DYCT              0008         0007                -1861.90640    0.040    1.343
                                                        0.032    0.030     9.84
DZCT              0008         0007                -3645.95210   -0.005   -0.260
                                                        0.019    0.018     1.15
GROUP: 00004, 92205.asc
DXCT              0007         0024                 2946.41150   -0.034   -1.396
                                                        0.025    0.024    10.73
DYCT              0007         0024                 -152.54920   -0.005   -0.076
                                                        0.068    0.068     1.61
DZCT              0007         0024                -1183.74960   -0.015   -0.346
                                                        0.042    0.042     4.58
GROUP: 00005, 92205.asc
DXCT              0023         0022                  956.23690    0.009    0.720
                                                        0.013    0.013     2.40
DYCT              0023         0022                 1841.43440   -0.043   -0.639
                                                        0.068    0.067    11.22
DZCT              0023         0022                 3229.92850    0.010    0.271
                                                        0.037    0.036     2.56
GROUP: 00006, 92205.asc
DXCT              0022         0023                 -956.24940    0.003    0.406
```

			0.009	0.008	0.86
DYCT	0022	0023	-1841.38100	-0.010	-0.465
			0.025	0.022	2.69
DZCT	0022	0023	-3229.94120	0.003	0.258
			0.013	0.011	0.75
GROUP: 00007, 92205.asc					
DXCT	0008	0023	1451.41040	-0.003	-0.214
			0.015	0.014	0.71
DYCT	0008	0023	-1658.08300	0.011	0.330
			0.036	0.034	2.67
DZCT	0008	0023	-3612.81030	-0.005	-0.270
			0.021	0.020	1.29
GROUP: 00008, 92205.asc					
DXCT	0023	0008	-1451.41310	0.006	0.587
			0.011	0.010	1.35
DYCT	0023	0008	1658.06670	0.005	0.187
			0.030	0.027	1.18
DZCT	0023	0008	3612.81810	-0.002	-0.172
			0.015	0.014	0.56
GROUP: 00009, 92205.asc					

Residuals (critical value = 3.950):
NOTE: Observation values shown are reduced to mark-to-mark.

TYPE	AT	FROM	TO	OBSERVATION STD DEV	RESIDUAL STD DEV	STD RES PPM
DXCT		0023	0007	-1159.32180	0.009	1.045
				0.009	0.008	7.30
DYCT		0023	0007	-203.79040	-0.004	-0.159
				0.026	0.025	3.33
DZCT		0023	0007	-33.14800	0.007	0.607
				0.013	0.011	5.90
GROUP: 00010, 92205.asc						
DXCT		0023	0007	-1159.30820	-0.005	-0.636
				0.009	0.008	4.25
DYCT		0023	0007	-203.81860	0.024	1.278
				0.021	0.019	20.62
DZCT		0023	0007	-33.13580	-0.005	-0.488
				0.012	0.011	4.47
GROUP: 00011, 92205.asc						
DXCT		0023	0007	-1159.31970	0.006	0.714
				0.010	0.009	5.52
DYCT		0023	0007	-203.80570	0.011	0.447
				0.027	0.025	9.67
DZCT		0023	0007	-33.14240	0.001	0.102
				0.014	0.013	1.14
GROUP: 00012, 92205.asc						
DXCT		PD01FTBM2	0023	17.09300	0.004	0.244
				0.018	0.016	218.26
DYCT		PD01FTBM2	0023	4.84650	-0.004	-0.090
				0.047	0.040	200.11
DZCT		PD01FTBM2	0023	2.28040	0.003	0.120
				0.027	0.023	156.28
GROUP: 00013, 92205.asc						
DXCT		PD01FTBM2	0007	-1142.21810	0.002	0.122
				0.017	0.015	1.56
DYCT		PD01FTBM2	0007	-198.96860	0.017	0.456
				0.044	0.038	14.83
DZCT		PD01FTBM2	0007	-30.85520	-0.003	-0.122
				0.026	0.022	2.29
GROUP: 00014, 92205.asc						
DXCT		0023	0024	1787.07830	-0.014	-1.805
				0.009	0.008	6.44
DYCT		0023	0024	-356.33580	-0.013	-0.671
				0.021	0.019	5.86
DZCT		0023	0024	-1216.90490	-0.000	-0.030
				0.012	0.011	0.15
GROUP: 00015, 92205.asc						
DXCT		0024	PD01FTBM2	-1804.17070	0.010	0.597

			0.018	0.016	4.36
DYCT	0024	PD01FTBM2	351.48790	0.018	0.436
			0.047	0.041	8.09
DZCT	0024	PD01FTBM2	1214.62250	-0.000	-0.020
			0.027	0.024	0.22
GROUP: 00016, 92205.asc					
DXCT	0022	0021	2876.01550	-0.002	-0.246
			0.009	0.008	0.44
DYCT	0022	0021	1801.57270	-0.003	-0.196
			0.019	0.017	0.78
DZCT	0022	0021	2577.97860	-0.000	-0.021
			0.015	0.014	0.07
GROUP: 00017, 92205.asc					
DXCT	0021	0008	-5283.66440	-0.003	-0.341
			0.009	0.008	0.45
DYCT	0021	0008	-1984.90700	0.018	0.358
			0.051	0.050	2.97
DZCT	0021	0008	-2195.09600	-0.005	-0.164
			0.030	0.030	0.80
GROUP: 00018, 92205.asc					
DXCT	0008	0021	5283.66580	0.001	0.099

Residuals (critical value = 3.950):
NOTE: Observation values shown are reduced to mark-to-mark.

TYPE	AT	FROM	TO	OBSERVATION STD DEV	RESIDUAL STD DEV	STD RES PPM
				0.014	0.013	0.22
DYCT		0008	0021	1984.90880	-0.020	-0.588
				0.035	0.034	3.27
DZCT		0008	0021	2195.09770	0.003	0.181
				0.019	0.017	0.52
GROUP: 00019, 92205.asc						
DXCT		0022	PD03TBM2	-6.08300	-0.005	-0.641
				0.010	0.008	822.46
DYCT		0022	PD03TBM2	-0.68770	0.020	0.872
				0.027	0.023	3122.21
DZCT		0022	PD03TBM2	1.96740	-0.012	-0.697
				0.019	0.017	1816.35
GROUP: 00020, 92205.asc						
DXCT		0022	PD03TBM2	-6.09260	0.004	0.344
				0.014	0.013	670.67
DYCT		0022	PD03TBM2	-0.64780	-0.020	-0.585
				0.037	0.034	3083.61
DZCT		0022	PD03TBM2	1.94570	0.010	0.376
				0.028	0.027	1558.74
GROUP: 00021, 92205.asc						
DXCT		PD03TBM2	PD01FTBM2	-967.24940	-0.005	-0.389
				0.017	0.014	1.38
DYCT		PD03TBM2	PD01FTBM2	-1845.55210	-0.015	-0.326
				0.051	0.045	3.77
DZCT		PD03TBM2	PD01FTBM2	-3234.18180	0.005	0.226
				0.025	0.020	1.19
GROUP: 00022, 92205.asc						
DXCT		PD03TBM2	0008	-2401.56580	0.001	0.050
				0.014	0.012	0.25
DYCT		PD03TBM2	0008	-182.63120	-0.021	-0.682
				0.035	0.030	8.53
DZCT		PD03TBM2	0008	380.90760	0.014	0.593
				0.026	0.024	5.79
GROUP: 00023, 92205.asc						
DXCT		0007	PD03TBM2	2109.46980	0.001	0.133
				0.011	0.009	0.28
DYCT		0007	PD03TBM2	2044.54530	-0.027	-1.075
				0.029	0.025	6.21
DZCT		0007	PD03TBM2	3265.02450	0.011	0.852
				0.015	0.012	2.41
GROUP: 00024, 92205.asc						
DXCT		0024	0022	-830.82000	0.002	0.315

			0.007	0.006	0.38
DYCT	0024	0022	2197.72070	0.019	1.122
			0.019	0.017	3.83
DZCT	0024	0022	4446.84450	-0.001	-0.092
			0.012	0.011	0.19

GROUP: 00025, 92205.asc

DXCT	0021	0024	-2045.18770	-0.008	-1.882
			0.005	0.004	0.94
DYCT	0021	0024	-3999.30380	-0.006	-0.410
			0.014	0.014	0.67
DZCT	0021	0024	-7024.82050	-0.001	-0.140
			0.010	0.010	0.16

GROUP: 00026, 92205.asc

DXCT	PD03TBM2	0023	-950.15460	-0.003	-0.227
			0.015	0.014	0.84
DYCT	PD03TBM2	0023	-1840.72220	-0.002	-0.035
			0.046	0.043	0.39
DZCT	PD03TBM2	0023	-3231.89110	-0.003	-0.143
			0.023	0.021	0.76

GROUP: 00027, 92205.asc

DXCT	0005	0006	10484.46560	0.020	2.244
			0.009	0.009	1.04

Residuals (critical value = 3.950):
NOTE: Observation values shown are reduced to mark-to-mark.

TYPE	AT	FROM	TO	OBSERVATION STD DEV	RESIDUAL STD DEV	STD RES PPM
DYCT		0005	0006	-6385.65960	-0.001	-0.046
				0.025	0.025	0.06
DZCT		0005	0006	-15361.74460	0.021	1.325
				0.016	0.016	1.08

GROUP: 00028, 92205.asc

DXCT	0006	0007	-695.87910	-0.017	-2.851
			0.007	0.006	1.74
DYCT	0006	0007	4448.69350	0.031	1.719
			0.018	0.018	3.18
DZCT	0006	0007	8735.66540	-0.041	-3.350
			0.013	0.012	4.18

GROUP: 00029, 92205.asc

DXCT	0008	0005	-9496.50590	0.010	0.978
			0.011	0.010	1.03
DYCT	0008	0005	75.08460	-0.015	-0.557
			0.028	0.026	1.47
DZCT	0008	0005	2980.12490	0.017	1.205
			0.016	0.014	1.74

GROUP: 00030, 92205.asc

DXCT	0005	0007	9788.60310	-0.013	-1.493
			0.010	0.009	1.11
DYCT	0005	0007	-1936.99520	0.059	2.225
			0.027	0.027	4.95
DZCT	0005	0007	-6626.05990	-0.039	-2.475
			0.016	0.016	3.26

GROUP: 00031, 92205.asc

DXCT	0009	0021	12838.46710	-0.022	-2.164
			0.011	0.010	1.59
DYCT	0009	0021	-915.18430	0.005	0.175
			0.029	0.029	0.36
DZCT	0009	0021	-5591.79210	-0.008	-0.466
			0.018	0.017	0.57

GROUP: 00032, 92205.asc

DXCT	0005	0009	1941.71370	0.004	0.456
			0.009	0.009	0.72
DYCT	0005	0009	2825.01510	-0.017	-0.670
			0.025	0.025	2.85
DZCT	0005	0009	4806.76540	-0.007	-0.430
			0.015	0.015	1.11

GROUP: 00033, 92205.asc

DXCT	0009	0005	-1941.72890	0.011	1.797

			0.006	0.006	1.85
DYCT	0009	0005	-2825.00650	0.008	0.514
			0.016	0.016	1.39
DZCT	0009	0005	-4806.76360	0.005	0.360
			0.013	0.013	0.80

GROUP: 00034, 92205.asc

DXCT	0006	0024	2250.50900	-0.028	-5.929
			0.005	0.005	3.09
			^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^		
DYCT	0006	0024	4296.18930	-0.019	-1.537
			0.012	0.012	2.10
DZCT	0006	0024	7551.89350	-0.033	-3.747
			0.009	0.009	3.72

GROUP: 00035, 92205.asc

DXCT	0015	0009	3093.09150	0.008	0.808
			0.010	0.010	1.51
DYCT	0015	0009	-1595.02180	0.003	0.146
			0.024	0.024	0.66
DZCT	0015	0009	-3952.69880	0.005	0.459
			0.012	0.012	1.03

GROUP: 00036, 92205.asc

DXCT	0009	0015	-3093.09440	-0.005	-0.787
			0.006	0.006	0.96

Residuals (critical value = 3.950):
NOTE: Observation values shown are reduced to mark-to-mark.

TYPE	AT	FROM	TO	OBSERVATION STD DEV	RESIDUAL STD DEV	STD RES PPM
DYCT		0009	0015	1594.99900	0.019	0.620
				0.031	0.031	3.67
DZCT		0009	0015	3952.69610	-0.003	-0.159
				0.017	0.017	0.52

GROUP: 00037, 92205.asc

DXCT	0008	0009	-7554.78610	0.008	0.738
			0.012	0.011	0.75
DYCT	0008	0009	2900.08890	-0.021	-0.628
			0.035	0.033	1.84
DZCT	0008	0009	7786.90640	-0.005	-0.263
			0.021	0.020	0.48

GROUP: 00038, 92205.asc

DXCT	0008	0009	-7554.78260	0.005	0.399
			0.013	0.012	0.43
DYCT	0008	0009	2900.08430	-0.016	-0.509
			0.033	0.032	1.43
DZCT	0008	0009	7786.89180	0.009	0.566
			0.017	0.016	0.82

GROUP: 00039, 92205.asc

DXCT	0009	0012	-4308.21990	0.008	0.959
			0.010	0.008	1.67
DYCT	0009	0012	445.59770	-0.003	-0.109
			0.030	0.027	0.62
DZCT	0009	0012	2120.01290	0.009	0.471
			0.019	0.018	1.76

GROUP: 00040, 92205.asc

DXCT	0009	0014	-3914.54320	0.005	0.742
			0.008	0.007	1.17
DYCT	0009	0014	599.40700	0.012	0.592
			0.023	0.021	2.68
DZCT	0009	0014	2296.06700	-0.005	-0.482
			0.011	0.010	1.01

GROUP: 00041, 92205.asc

DXCT	0015	0014	-821.44720	0.009	1.134
			0.009	0.008	4.19
DYCT	0015	0014	-995.60690	0.008	0.350
			0.025	0.022	3.74
DZCT	0015	0014	-1656.63200	0.001	0.097
			0.012	0.010	0.48

GROUP: 00042, 92205.asc

DXCT	KRCFTBM2	0001	-235.46350	0.001	0.036
			0.029	0.026	0.40
DYCT	KRCFTBM2	0001	1061.40560	-0.015	-0.210
			0.078	0.070	6.24
DZCT	KRCFTBM2	0001	2089.25070	0.006	0.120
			0.054	0.049	2.49
GROUP: 00043, 92205.asc					
DXCT	0017	0001	-41.34050	-0.002	-0.278
			0.008	0.007	0.75
DYCT	0017	0001	1143.75760	-0.010	-0.592
			0.018	0.016	3.86
DZCT	0017	0001	2188.77810	0.001	0.074
			0.014	0.013	0.38
GROUP: 00044, 92205.asc					
DXCT	0015	KRCFTBM2	-3246.02730	0.003	0.141
			0.025	0.022	0.93
DYCT	0015	KRCFTBM2	-30.29010	0.014	0.231
			0.069	0.060	4.09
DZCT	0015	KRCFTBM2	894.15360	-0.003	-0.067
			0.048	0.041	0.83
GROUP: 00045, 92205.asc					
DXCT	0015	0001	-3481.49580	0.009	0.573
			0.016	0.016	1.93
DYCT	0015	0001	1031.13070	-0.016	-0.374

Residuals (critical value = 3.950):
NOTE: Observation values shown are reduced to mark-to-mark.

TYPE	AT	FROM	TO	OBSERVATION STD DEV	RESIDUAL STD DEV	STD RES PPM
				0.043	0.043	3.43
DZCT		0015	0001	2983.39500	0.012	0.430
				0.029	0.029	2.63
GROUP: 00046, 92205.asc						
DXCT		PC42TBM1	0014	0.77200	-0.003	-1.865
				0.003	0.001	1204.69
DYCT		PC42TBM1	0014	1.31710	0.007	2.158
				0.008	0.003	3292.74
DZCT		PC42TBM1	0014	1.50860	0.001	0.594
				0.004	0.001	337.71
GROUP: 00047, 92205.asc						
DXCT		0014	PC42TBM1	-0.75330	-0.016	-2.062
				0.008	0.008	7492.03
DYCT		0014	PC42TBM1	-1.40130	0.077	1.703
				0.046	0.045	35865.78
DZCT		0014	PC42TBM1	-1.48420	-0.025	-1.014
				0.025	0.025	11685.31
GROUP: 00048, 92205.asc						
DXCT		0016	KRCFTBM2	2.42280	-0.001	-0.093
				0.016	0.010	198.38
DYCT		0016	KRCFTBM2	-1.87140	-0.010	-0.365
				0.044	0.028	2092.25
DZCT		0016	KRCFTBM2	-3.83870	0.003	0.153
				0.030	0.020	613.09
GROUP: 00049, 92205.asc						
DXCT		0016	0017	-191.70110	0.003	0.223
				0.013	0.012	11.66
DYCT		0016	0017	-84.21610	-0.023	-0.838
				0.029	0.027	97.43
DZCT		0016	0017	-103.36540	0.007	0.650
				0.013	0.011	31.00
GROUP: 00050, 92205.asc						
DXCT		0017	0016	191.69480	0.004	0.569
				0.007	0.006	15.32
DYCT		0017	0016	84.24860	-0.010	-0.602
				0.019	0.016	41.75
DZCT		0017	0016	103.35580	0.002	0.174
				0.015	0.014	10.11

GROUP: 00051, 92205.asc

DXCT	0016	0001	-233.04620	0.005	0.418
			0.014	0.013	2.33
DYCT	0016	0001	1059.54380	-0.035	-1.188
			0.031	0.029	14.71
DZCT	0016	0001	2085.41020	0.011	0.829
			0.014	0.013	4.54
GROUP: 00052, 92205.asc					
DXCT	0016	0001	-233.04630	0.006	0.784
			0.008	0.007	2.37
DYCT	0016	0001	1059.50640	0.003	0.136
			0.023	0.021	1.20
DZCT	0016	0001	2085.41810	0.003	0.215
			0.014	0.013	1.18
GROUP: 00053, 92205.asc					
DXCT	0016	0015	3248.44930	-0.003	-0.257
			0.013	0.013	0.98
DYCT	0016	0015	28.39340	0.001	0.043
			0.031	0.029	0.37
DZCT	0016	0015	-897.98330	-0.003	-0.243
			0.014	0.013	0.95
GROUP: 00054, 92205.asc					
DXCT	0005	0011	-2735.36960	-0.004	-0.464
			0.009	0.008	0.47
DYCT	0005	0011	3133.05350	-0.014	-0.673
			0.023	0.020	1.73

Residuals (critical value = 3.950):
NOTE: Observation values shown are reduced to mark-to-mark.

TYPE	AT	FROM	TO	OBSERVATION / STD DEV	RESIDUAL / STD DEV	STD RES / PPM
DZCT		0005	0011	6774.49700	-0.008	-0.446
				0.019	0.018	1.01
GROUP: 00055, 92205.asc						
DXCT		0003	0019	1344.11990	-0.000	-0.018
				0.011	0.010	0.11
DYCT		0003	0019	-279.18740	-0.020	-0.733
				0.029	0.027	11.79
DZCT		0003	0019	-930.11710	0.005	0.270
				0.019	0.017	2.85
GROUP: 00056, 92205.asc						
DXCT		0019	0003	-1344.12740	0.008	0.528
				0.015	0.015	4.63
DYCT		0019	0003	279.19980	0.007	0.148
				0.050	0.048	4.31
DZCT		0019	0003	930.11750	-0.005	-0.226
				0.024	0.023	3.09
GROUP: 00057, 92205.asc						
DXCT		0019	0004	-1180.47320	-0.001	-0.075
				0.013	0.012	0.13
DYCT		0019	0004	-3244.92150	0.021	0.641
				0.035	0.033	3.15
DZCT		0019	0004	-5815.90560	-0.003	-0.129
				0.023	0.022	0.41
GROUP: 00058, 92205.asc						
DXCT		0019	0004	-1180.48120	0.007	0.572
				0.013	0.012	1.05
DYCT		0019	0004	-3244.90500	0.005	0.122
				0.041	0.039	0.71
DZCT		0019	0004	-5815.90510	-0.003	-0.168
				0.021	0.020	0.48
GROUP: 00059, 92205.asc						
DXCT		0005	0004	-6667.65330	0.001	0.099
				0.011	0.011	0.15
DYCT		0005	0004	657.83100	-0.006	-0.246
				0.025	0.025	0.84
DZCT		0005	0004	3233.18750	0.006	0.319
				0.019	0.019	0.83
GROUP: 00060, 92205.asc						

DXCT	0004	0003	-163.64420	-0.001	-0.068
			0.021	0.021	0.19
DYCT	0004	0003	3524.12940	-0.022	-0.464
			0.048	0.048	2.92
DZCT	0004	0003	6746.00810	0.013	0.634
			0.020	0.020	1.66
GROUP: 00061, 92205.asc					
DXCT	0011	0012	368.88410	-0.005	-0.587
			0.009	0.008	11.02
DYCT	0011	0012	137.56080	-0.008	-0.387
			0.023	0.019	17.81
DZCT	0011	0012	152.28260	0.009	0.487
			0.019	0.018	20.69
GROUP: 00062, 92205.asc					
DXCT	0010	0011	129.27150	0.001	0.137
			0.007	0.006	4.81
DYCT	0010	0011	65.83590	-0.007	-0.553
			0.016	0.013	42.04
DZCT	0010	0011	87.15310	0.000	0.025
			0.011	0.010	1.44
GROUP: 00063, 92205.asc					
DXCT	0011	0010	-129.27720	0.005	0.508
			0.010	0.010	28.87
DYCT	0011	0010	-65.82290	-0.006	-0.265
			0.024	0.022	34.78
DZCT	0011	0010	-87.15440	0.001	0.116

Residuals (critical value = 3.950):
NOTE: Observation values shown are reduced to mark-to-mark.

TYPE	AT	FROM	TO	OBSERVATION STD DEV	RESIDUAL STD DEV	STD RES PPM
				0.011	0.009	6.24
GROUP: 00064, 92205.asc						
DXCT		0010	KRBFTBM2	-3.00680	-0.001	-0.133
				0.009	0.007	192.13
DYCT		0010	KRBFTBM2	0.96590	-0.006	-0.359
				0.021	0.016	1237.82
DZCT		0010	KRBFTBM2	3.31280	0.004	0.529
				0.011	0.007	843.31
GROUP: 00065, 92205.asc						
DXCT		0019	0018	-55.36510	-0.013	-1.815
				0.008	0.007	116.46
DYCT		0019	0018	37.73070	0.010	0.513
				0.022	0.019	88.08
DZCT		0019	0018	88.03000	-0.008	-0.634
				0.014	0.012	71.05
GROUP: 00066, 92205.asc						
DXCT		KRDFTBM1	0019	-1.99120	0.005	0.223
				0.023	0.023	2278.15
DYCT		KRDFTBM1	0019	-0.12880	0.022	0.425
				0.054	0.053	10170.41
DZCT		KRDFTBM1	0019	-0.95560	-0.007	-0.354
				0.021	0.019	3112.74
GROUP: 00067, 92205.asc						
DXCT		0019	KRDFTBM1	1.97740	0.009	1.125
				0.009	0.008	3967.20
DYCT		0019	KRDFTBM1	0.12290	-0.017	-0.689
				0.027	0.024	7500.29
DZCT		0019	KRDFTBM1	0.95720	0.005	0.402
				0.015	0.013	2388.64
GROUP: 00068, 92205.asc						
DXCT		0010	0005	2864.64220	0.003	0.349
				0.011	0.010	0.44
DYCT		0010	0005	-3067.21940	0.008	0.391
				0.024	0.022	1.07
DZCT		0010	0005	-6687.33190	-0.004	-0.222
				0.018	0.017	0.47
GROUP: 00069, 92205.asc						

DXCT	0003	0010	3966.64340	0.009	0.734
			0.013	0.012	1.65
DYCT	0003	0010	-1114.71440	-0.007	-0.228
			0.030	0.029	1.24
DZCT	0003	0010	-3291.88470	0.006	0.382
			0.017	0.015	1.11
GROUP: 00070, 92205.asc					
DXCT	0018	0003	-1288.74370	0.002	0.154
			0.013	0.013	1.26
DYCT	0018	0003	241.46550	0.001	0.034
			0.031	0.029	0.65
DZCT	0018	0003	842.09300	-0.003	-0.140
			0.021	0.020	1.77
GROUP: 00071, 92205.asc					
DXCT	KRDFTBM1	0003	-1346.09550	-0.010	-0.290
			0.036	0.036	6.26
DYCT	KRDFTBM1	0003	279.08840	0.012	0.142
			0.087	0.086	7.37
DZCT	KRDFTBM1	0003	929.15930	-0.009	-0.268
			0.036	0.035	5.67
GROUP: 00072, 92205.asc					
DXCT	0010	0004	-3803.00670	0.000	0.018
			0.012	0.011	0.03
DYCT	0010	0004	-2409.38210	-0.004	-0.154
			0.029	0.027	0.72
DZCT	0010	0004	-3454.15390	0.012	0.870
			0.015	0.014	2.12

Residuals (critical value = 3.950):
NOTE: Observation values shown are reduced to mark-to-mark.

TYPE	AT	FROM	TO	OBSERVATION / STD DEV	RESIDUAL / STD DEV	STD RES / PPM
GROUP: 00073, 92205.asc						
DXCT		KRDFTBM1	0004	-1182.45050	-0.010	-0.437
				0.023	0.022	1.44
DYCT		KRDFTBM1	0004	-3245.03500	0.028	0.535
				0.055	0.053	4.21
DZCT		KRDFTBM1	0004	-5816.86910	-0.002	-0.087
				0.021	0.020	0.26
GROUP: 00074, 92205.asc						
DXCT		0002	0003	-1309.68410	0.007	0.640
				0.012	0.011	3.91
DYCT		0002	0003	-771.42500	0.011	0.413
				0.027	0.025	5.65
DZCT		0002	0003	-1075.34880	-0.005	-0.200
				0.024	0.023	2.43
GROUP: 00075, 92205.asc						
DXCT		0002	0003	-1309.67370	-0.003	-0.335
				0.010	0.009	1.68
DYCT		0002	0003	-771.42100	0.007	0.284
				0.025	0.023	3.51
DZCT		0002	0003	-1075.35130	-0.002	-0.169
				0.014	0.012	1.09
GROUP: 00076, 92205.asc						
DXCT		0001	0002	-888.75090	-0.002	-0.222
				0.009	0.008	1.49
DYCT		0001	0002	-497.79510	0.010	0.530
				0.022	0.019	8.39
DZCT		0001	0002	-688.28770	-0.004	-0.268
				0.017	0.015	3.34
GROUP: 00077, 92205.asc						
DXCT		0003	0001	2198.42910	0.000	0.058
				0.009	0.008	0.15
DYCT		0003	0001	1269.22130	-0.022	-1.027
				0.022	0.021	7.13
DZCT		0003	0001	1763.63590	0.009	0.820
				0.012	0.011	2.99
GROUP: 00078, 92205.asc						

DXCT	0012	0014	393.67600	-0.002	-0.174
			0.012	0.011	4.36
DYCT	0012	0014	153.82900	-0.004	-0.128
			0.037	0.035	9.75
DZCT	0012	0014	176.03420	0.007	0.291
			0.024	0.023	14.77

GROUP: 00079, 92205.asc

DXCT	0002	0018	-20.93260	-0.002	-0.233
			0.012	0.011	1.15
DYCT	0002	0018	-1012.89190	0.011	0.451
			0.027	0.024	5.04
DZCT	0002	0018	-1917.44940	0.006	0.302
			0.021	0.019	2.69

GROUP: 00080, 92205.asc

DXCT	0017	0002	-930.09580	0.001	0.095
			0.009	0.008	0.38
DYCT	0017	0002	645.96470	-0.001	-0.077
			0.021	0.018	0.75
DZCT	0017	0002	1500.49180	-0.005	-0.499
			0.011	0.009	2.44

GROUP: 00081, 92205.asc

DXCT	0016	0002	-1121.79430	0.001	0.093
			0.010	0.009	0.45
DYCT	0016	0002	561.71940	0.005	0.199
			0.028	0.025	2.68
DZCT	0016	0002	1397.12110	0.008	0.493
			0.018	0.016	4.24

GROUP: 00082, 92205.asc

Residuals (critical value = 3.950):
NOTE: Observation values shown are reduced to mark-to-mark.

TYPE	AT	FROM	TO	OBSERVATION STD DEV	RESIDUAL STD DEV	STD RES PPM
DXCT		PC61TBM2	0002	1.41080	0.001	0.043
				0.024	0.020	564.64
DYCT		PC61TBM2	0002	0.58660	0.015	0.312
				0.056	0.049	9868.88
DZCT		PC61TBM2	0002	-0.04690	0.001	0.053
				0.022	0.019	635.42

GROUP: 00083, 92205.asc

DXCT	0018	0017	951.03030	-0.000	-0.022
			0.007	0.006	0.12
DYCT	0018	0017	366.91190	0.006	0.427
			0.016	0.014	5.25
DZCT	0018	0017	416.96400	-0.008	-0.667
			0.013	0.011	6.95

GROUP: 00084, 92205.asc

DXCT	0018	0017	951.03430	-0.004	-0.608
			0.008	0.007	3.75
DYCT	0018	0017	366.92360	-0.006	-0.337
			0.019	0.018	5.37
DZCT	0018	0017	416.94460	0.012	0.821
			0.015	0.014	10.66

GROUP: 00085, 92205.asc

DXCT	0003	0016	2431.47020	0.000	0.011
			0.009	0.008	0.03
DYCT	0003	0016	209.70890	-0.019	-0.826
			0.025	0.023	7.67
DZCT	0003	0016	-321.78480	0.009	0.668
			0.015	0.014	3.68

GROUP: 00086, 92205.asc

DXCT	PC61TBM2	0003	-1308.27090	0.006	0.299
			0.023	0.019	3.08
DYCT	PC61TBM2	0003	-770.80570	-0.007	-0.155
			0.053	0.045	3.77
DZCT	PC61TBM2	0003	-1075.40060	0.001	0.078
			0.021	0.017	0.72

GROUP: 00087, 92205.asc

```
DXCT              0001          PC61TBM2            -890.16810    0.004    0.319
                                                        0.016    0.012     3.01
DYCT              0001          PC61TBM2            -498.39030    0.004    0.136
                                                        0.039    0.028     3.06
DZCT              0001          PC61TBM2            -688.24730    0.001    0.127
                                                        0.016    0.011     1.15

GROUP: 00088, 92205.asc
DXCT              0004          0009                8609.38370   -0.014   -2.307
                                                        0.006    0.006     1.51
DYCT              0004          0009                2167.15870    0.015    1.016
                                                        0.015    0.015     1.65
DZCT              0004          0009                1573.58560   -0.020   -1.439
                                                        0.014    0.014     2.27

GROUP: 00089, 92205.asc
DXCT              0009          0004               -8609.36800   -0.002   -0.128
                                                        0.017    0.017     0.24
DYCT              0009          0004               -2167.15030   -0.023   -0.559
                                                        0.042    0.042     2.58
DZCT              0009          0004               -1573.58090    0.016    0.825
                                                        0.019    0.019     1.75

GROUP: 00090, 92205.asc
DXCT              0012          0017               -2225.04420    0.012    0.709
                                                        0.018    0.017     3.40
DYCT              0012          0017                1036.81060   -0.021   -0.549
                                                        0.039    0.037     5.71
DZCT              0012          0017                2627.30200   -0.002   -0.080
                                                        0.022    0.021     0.47

GROUP: 00091, 92205.asc
DXCT              0013          0014                 151.07220    0.001    0.147
```


Residuals (critical value = 3.950):
NOTE: Observation values shown are reduced to mark-to-mark.

```
                                                  OBSERVATION RESIDUAL  STD RES
TYPE AT           FROM          TO                    STD DEV  STD DEV      PPM
---- ------------ ------------ ------------ ----------------- -------- --------
                                                        0.009    0.008     8.19
DYCT              0013          0014                  20.10150   -0.008   -0.351
                                                        0.026    0.024    55.08
DZCT              0013          0014                  -6.71440   -0.001   -0.065
                                                        0.015    0.014     5.76

GROUP: 00092, 92205.asc
DXCT              0013          0014                 151.07470   -0.001   -0.103
                                                        0.013    0.012     8.20
DYCT              0013          0014                  20.08660    0.006    0.242
                                                        0.029    0.027    42.59
DZCT              0013          0014                  -6.71490   -0.000   -0.036
                                                        0.012    0.010     2.49

GROUP: 00093, 92205.asc
DXCT              0013          0014                 151.07380   -0.000   -0.053
                                                        0.008    0.007     2.30
DYCT              0013          0014                  20.12120   -0.028   -0.689
                                                        0.042    0.041   184.22
DZCT              0013          0014                  -6.72690    0.012    0.519
                                                        0.023    0.022    76.18

GROUP: 00094, 92205.asc
DXCT              0013          0017               -2467.63730    0.005    0.718
                                                        0.008    0.007     1.33
DYCT              0013          0017                 903.06520   -0.007   -0.386
                                                        0.021    0.017     1.83
DZCT              0013          0017                2444.53310    0.011    1.019
                                                        0.013    0.011     3.05

GROUP: 00095, 92205.asc
DXCT              0013          KRAFTBM1               5.45630    0.001    0.258
                                                        0.005    0.004   167.72
DYCT              0013          KRAFTBM1              -0.01180   -0.008   -0.360
                                                        0.028    0.023  1477.19
DZCT              0013          KRAFTBM1               0.62640    0.005    0.419
                                                        0.015    0.012   898.89

GROUP: 00096, 92205.asc
```

DXCT	0012	0013	242.59950	0.001	0.335
			0.005	0.003	3.18
DYCT	0012	0013	133.73160	-0.000	-0.022
			0.012	0.007	0.49
DZCT	0012	0013	182.75300	0.003	0.753
			0.007	0.004	9.76

GROUP: 00097, 92205.asc

DXCT	KRAFTBM1	PC42TBM1	144.85050	-0.004	-0.489
			0.009	0.008	25.16
DYCT	KRAFTBM1	PC42TBM1	18.79090	-0.002	-0.102
			0.027	0.020	14.13
DZCT	KRAFTBM1	PC42TBM1	-8.86100	0.005	0.512
			0.013	0.010	34.55

GROUP: 00098, 92205.asc

DXCT	0011	0013	611.48280	-0.003	-0.286
			0.011	0.010	3.74
DYCT	0011	0013	271.30880	-0.024	-1.085
			0.025	0.022	32.19
DZCT	0011	0013	335.04250	0.005	0.587
			0.011	0.009	6.78

GROUP: 00099, 92205.asc

DXCT	KRBNTBM1	KRBFTBM2	-128.19390	-0.001	-0.280
			0.006	0.004	6.48
DYCT	KRBNTBM1	KRBFTBM2	-64.12540	0.005	0.669
			0.014	0.008	30.56
DZCT	KRBNTBM1	KRBFTBM2	-84.53950	-0.003	-0.539
			0.010	0.006	20.71

GROUP: 00100, 92205.asc

DXCT	0018	KRCNTBM1	953.55760	-0.003	-0.377
			0.010	0.009	2.96

Residuals (critical value = 3.950):
NOTE: Observation values shown are reduced to mark-to-mark.

TYPE	AT	FROM	TO	OBSERVATION STD DEV	RESIDUAL STD DEV	STD RES PPM
DYCT		0018	KRCNTBM1	364.98970	0.008	0.378
				0.024	0.021	7.27
DZCT		0018	KRCNTBM1	413.01870	-0.004	-0.345
				0.012	0.011	3.40

GROUP: 00101, 92205.asc

DXCT	KRCNTBM1	KRCFTBM1	188.38500	-0.001	-0.160
			0.008	0.004	2.95
DYCT	KRCNTBM1	KRCFTBM1	85.82750	-0.003	-0.270
			0.020	0.011	13.14
DZCT	KRCNTBM1	KRCFTBM1	107.42040	0.001	0.274
			0.010	0.005	5.57

GROUP: 00102, 92205.asc

DXCT	0011	KRBNTBM1	-4.08330	-0.002	-0.411
			0.006	0.004	407.11
DYCT	0011	KRBNTBM1	-0.75500	0.007	0.773
			0.014	0.009	1604.86
DZCT	0011	KRBNTBM1	0.70810	-0.002	-0.279
			0.010	0.007	435.64

GROUP: 00103, 92205.asc

DXCT	KRDRTBM1	0018	-52.65480	0.003	0.451
			0.008	0.007	36.51
DYCT	KRDRTBM1	0018	-34.66160	-0.007	-0.409
			0.020	0.016	81.41
DZCT	KRDRTBM1	0018	-50.73350	0.003	0.322
			0.011	0.008	33.11

GROUP: 00104, 92205.asc

DXCT	0017	KRCFTBM1	190.90790	0.001	0.068
			0.011	0.009	2.53
DYCT	0017	KRCFTBM1	83.89800	0.006	0.274
			0.029	0.024	27.73
DZCT	0017	KRCFTBM1	103.48360	-0.003	-0.211
			0.018	0.016	14.12

GROUP: 00105, 92205.asc

DXCT	KRDRTBM1	KRCNTBM1	900.90550	-0.003	-0.512
			0.008	0.006	2.93
DYCT	KRDRTBM1	KRCNTBM1	330.32480	0.005	0.322
			0.020	0.015	4.60
DZCT	KRDRTBM1	KRCNTBM1	362.28560	-0.001	-0.192
			0.010	0.008	1.43
GROUP: 00106, 92205.asc					
DXCT	0017	KRCNTBM1	2.52970	-0.006	-1.102
			0.006	0.005	1091.79
DYCT	0017	KRCNTBM1	-1.93430	0.014	1.033
			0.017	0.014	2830.75
DZCT	0017	KRCNTBM1	-3.93360	-0.008	-0.933
			0.010	0.008	1539.21
GROUP: 00107, 92205.asc					
DXCT	KRCNTBM1	0017	-2.51640	-0.008	-1.435
			0.006	0.005	1537.25
DYCT	KRCNTBM1	0017	1.89620	0.024	1.676
			0.017	0.014	4700.55
DZCT	KRCNTBM1	0017	3.94940	-0.008	-1.170
			0.009	0.007	1584.01
GROUP: 00108, 92205.asc					
DXCT	KRANTBM2	KRBNTBM1	-366.98580	0.003	0.325
			0.011	0.009	7.11
DYCT	KRANTBM2	KRBNTBM1	-138.58660	0.005	0.180
			0.033	0.027	11.37
DZCT	KRANTBM2	KRBNTBM1	-155.70840	-0.003	-0.214
			0.019	0.016	8.04
GROUP: 00109, 92205.asc					
DXCT	KRBNTBM1	KRDFTBM1	-2745.73720	0.004	0.351
			0.012	0.010	1.01
DYCT	KRBNTBM1	KRDFTBM1	770.53130	0.008	0.484

Residuals (critical value = 3.950):
NOTE: Observation values shown are reduced to mark-to-mark.

TYPE	AT	FROM	TO	OBSERVATION STD DEV	RESIDUAL STD DEV	STD RES PPM
				0.022	0.018	2.32
DZCT		KRBNTBM1	KRDFTBM1	2274.86160	0.008	0.513
				0.018	0.015	2.13
GROUP: 00110, 92205.asc						
DXCT		0018	KRDFTBM1	57.36710	-0.003	-0.476
				0.007	0.006	26.62
DYCT		0018	KRDFTBM1	-37.64260	0.008	0.560
				0.018	0.015	76.53
DZCT		0018	KRDFTBM1	-87.05580	-0.004	-0.499
				0.010	0.008	34.84
GROUP: 00111, 92205.asc						
DXCT		KRANTBM2	KRAFTBM1	254.04150	-0.002	-0.404
				0.008	0.005	6.09
DYCT		KRANTBM2	KRAFTBM1	133.43200	-0.001	-0.058
				0.021	0.013	2.24
DZCT		KRANTBM2	KRAFTBM1	179.25960	0.001	0.155
				0.013	0.008	3.70
GROUP: 00112, 92205.asc						
DXCT		KRDFTBM1	KRCNTBM1	896.18910	0.001	0.157
				0.008	0.007	0.99
DYCT		KRDFTBM1	KRCNTBM1	402.62940	0.002	0.130
				0.022	0.019	2.20
DZCT		KRDFTBM1	KRCNTBM1	500.07360	0.001	0.111
				0.011	0.009	0.92
GROUP: 00113, 92205.asc						
DXCT		0012	KRANTBM2	-5.98080	-0.001	-0.141
				0.008	0.006	118.70
DYCT		0012	KRANTBM2	0.27880	0.001	0.090
				0.024	0.016	203.20
DZCT		0012	KRANTBM2	4.12690	-0.000	-0.017
				0.014	0.010	23.98
GROUP: 00114, 92205.asc						

DXCT	KRDRTBM1	KRDFTBM1	4.71200	0.000	0.061
			0.007	0.005	1.95
DYCT	KRDRTBM1	KRDFTBM1	-72.30340	0.001	0.089
			0.018	0.012	7.04
DZCT	KRDRTBM1	KRDFTBM1	-137.78960	-0.001	-0.137
			0.009	0.006	5.67
GROUP: 00115, 92205.asc					
DXCT	0019	0017	895.64780	0.004	0.839
			0.006	0.005	3.97
DYCT	0019	0017	404.65840	-0.000	-0.021
			0.017	0.013	0.25
DZCT	0019	0017	504.99130	-0.013	-1.121
			0.013	0.011	11.60
GROUP: 00116, 92205.asc					
DXCT	0018	0011	2807.18780	-0.005	-0.713
			0.008	0.007	1.36
DYCT	0018	0011	-807.42380	-0.002	-0.107
			0.020	0.017	0.49
DZCT	0018	0011	-2362.64240	0.007	0.552
			0.015	0.013	1.89
GROUP: 00117, 92205.asc					
DXCT	0018	0010	2677.91190	-0.002	-0.197
			0.009	0.008	0.41
DYCT	0018	0010	-873.22680	-0.028	-1.427
			0.022	0.019	7.41
DZCT	0018	0010	-2449.80600	0.017	1.168
			0.017	0.015	4.65
GROUP: 00118, 92205.asc					
DXCT	0020	0001	-17837.60970	0.007	0.799
			0.009	0.009	0.37
DYCT	0020	0001	-372.16020	-0.029	-1.040
			0.028	0.028	1.57

Residuals (critical value = 3.950):
NOTE: Observation values shown are reduced to mark-to-mark.

TYPE	AT	FROM	TO	OBSERVATION STD DEV	RESIDUAL STD DEV	STD RES PPM
DZCT		0020	0001	4593.78550	0.025	1.978
				0.013	0.013	1.37
GROUP: 00119, 92205.asc						
DXCT		0015	0020	14356.12980	-0.014	-1.477
				0.009	0.009	0.94
DYCT		0015	0020	1403.26790	0.036	1.292
				0.028	0.028	2.46
DZCT		0015	0020	-1610.37830	-0.025	-1.902
				0.013	0.013	1.72
GROUP: 00120, 92205.asc						
DXCT		KRBFTBM2	PC42TBM1	894.07270	-0.009	-0.682
				0.014	0.013	8.29
DYCT		KRBFTBM2	PC42TBM1	354.91200	0.010	0.262
				0.043	0.039	9.74
DZCT		KRBFTBM2	PC42TBM1	410.66460	-0.005	-0.182
				0.029	0.027	4.73
GROUP: 00121, 92205.asc						
DXCT		0020	0009	-11263.04750	0.031	2.859
				0.011	0.011	2.60
DYCT		0020	0009	-2998.28690	-0.035	-1.094
				0.032	0.032	2.95
DZCT		0020	0009	-2342.31650	0.026	1.738
				0.015	0.015	2.23
GROUP: 00122, 92205.asc						
DXCT		0014	0016	-2427.00720	-0.000	-0.052
				0.009	0.008	0.11
DYCT		0014	0016	967.19970	0.005	0.224
				0.024	0.021	1.28
DZCT		0014	0016	2554.61610	0.001	0.095
				0.016	0.015	0.38
GROUP: 00123, 92205.asc						

DXCT	0021	0020	-1575.44470	0.017	1.500
			0.011	0.011	1.84
DYCT	0021	0020	3913.50790	-0.007	-0.266
			0.025	0.025	0.75
DZCT	0021	0020	7934.08830	0.002	0.144
			0.014	0.013	0.21
GROUP: 00124, 92205.asc					
DXCT	0017	0011	1856.16190	-0.009	-0.578
			0.017	0.016	2.64
DYCT	0017	0011	-1174.37930	0.036	1.007
			0.037	0.036	10.15
DZCT	0017	0011	-2779.58300	-0.009	-0.428
			0.021	0.020	2.44
GROUP: 00125, 92205.asc					
DXCT	0055	0021	-14896.03060	0.009	1.540
			0.009	0.006	0.45
DYCT	0055	0021	3720.81540	-0.030	-2.230
			0.021	0.013	1.55
DZCT	0055	0021	11657.05340	0.010	1.487
			0.011	0.007	0.54
GROUP: 00126, 92205.asc					
DXCT	0055	0008	-20179.70580	0.017	1.017
			0.018	0.016	0.75
DYCT	0055	0008	1735.91200	-0.016	-0.433
			0.040	0.036	0.70
DZCT	0055	0008	9461.95140	0.011	0.600
			0.022	0.019	0.51
GROUP: 00127, 92205.asc					
DXCT	0055	0020	-16471.42930	-0.021	-2.453
			0.011	0.008	0.78
DYCT	0055	0020	7634.21980	0.067	2.721
			0.029	0.025	2.50
DZCT	0055	0020	19591.18330	-0.029	-2.239

Residuals (critical value = 3.950):
NOTE: Observation values shown are reduced to mark-to-mark.

TYPE	AT	FROM	TO	OBSERVATION STD DEV	RESIDUAL STD DEV	STD RES PPM
				0.016	0.013	1.10

S T A T I S T I C S S U M M A R Y

Residual Critical Value Type	Tau Max
Residual Critical Value	3.9502
Number of Flagged Residuals	1
Convergence Criterion	0.0010
Final Iteration Counter Value	3
Confidence Level Used	95.0000
Estimated Variance Factor	3.1272
Number of Degrees of Freedom	297

Chi-Square Test on the Variance Factor:

2.6794e+00 < 1.0000 < 3.6981e+00 ?

******** THE TEST FAILS ********

NOTE: All confidence regions were computed using the following factors:

Variance factor used	=	3.1272
1-D expansion factor	=	1.9600
2-D expansion factor	=	2.4477

Note that, for relative confidence regions, precisions are computed from the ratio of the major semi-axis and the spatial distance between the two stations.

2-D and 1-D Station Confidence Regions (95.000 and 95.000 percent):

STATION	MAJOR SEMI-AXIS	AZ	MINOR SEMI-AXIS	VERTICAL
0001	0.009	31	0.008	0.000
0002	0.011	37	0.009	0.022
0007	0.009	168	0.008	0.000
0008	0.010	166	0.009	0.023
0010	0.011	39	0.009	0.022
0011	0.010	24	0.009	0.021
0012	0.012	7	0.010	0.026
0013	0.011	18	0.010	0.024
0014	0.010	10	0.009	0.023
0016	0.009	7	0.009	0.020
0017	0.009	174	0.008	0.018
0018	0.009	27	0.009	0.020
0019	0.010	174	0.009	0.024
0021	0.009	170	0.008	0.000
0022	0.010	172	0.009	0.020
0023	0.010	160	0.009	0.020
0055	0.018	172	0.015	0.032
KRAFTBM1	0.013	12	0.011	0.039
KRANTBM2	0.018	146	0.014	0.040
KRBFTBM2	0.016	40	0.013	0.032
KRBNTBM1	0.014	39	0.011	0.028
KRCFTBM1	0.018	17	0.016	0.040
KRCFTBM2	0.029	38	0.020	0.079
KRCNTBM1	0.011	12	0.010	0.025
KRDFTBM1	0.011	24	0.010	0.025
KRDRTBM1	0.014	172	0.013	0.030
PC42TBM1	0.012	16	0.010	0.027
PC61TBM2	0.024	123	0.019	0.058
PD01FTBM2	0.019	47	0.017	0.051
PD03TBM2	0.016	32	0.013	0.032

2-D and 1-D Relative Station Confidence Regions (95.000 and 95.000 percent):

FROM	TO	MAJ-SEMI	AZ	MIN-SEMI	VERTICAL	DISTANCE	PPM
0001	0002	0.012	38	0.010	0.022	1229.397	10.12
0001	0003	0.009	31	0.008	0.000	3091.020	2.99
0001	0015	0.009	31	0.008	0.000	4699.433	1.97
0001	0016	0.010	32	0.009	0.020	2350.712	4.22
0001	0017	0.010	8	0.010	0.018	2469.944	4.09
0001	0020	0.009	31	0.008	0.000	18423.401	0.50
0001	KRCFTBM2	0.029	38	0.021	0.079	2355.204	12.23
0001	PC61TBM2	0.023	122	0.019	0.058	1230.636	19.06
0002	0003	0.011	37	0.009	0.022	1861.913	6.01
0002	0016	0.012	31	0.010	0.027	1877.745	6.43
0002	0017	0.011	30	0.010	0.024	1879.842	6.02
0002	0018	0.013	34	0.011	0.026	2168.630	5.79
0002	PC61TBM2	0.024	122	0.020	0.060	1.535	15657.42
0003	0010	0.011	39	0.009	0.022	5273.841	2.05
0003	0016	0.009	7	0.009	0.020	2461.617	3.65
0003	0018	0.009	27	0.009	0.020	1558.293	5.93
0003	0019	0.010	174	0.009	0.024	1658.229	5.88
0003	KRDFTBM1	0.011	24	0.010	0.025	1659.282	6.60
0003	PC61TBM2	0.024	123	0.019	0.058	1860.697	12.76
0004	0010	0.011	39	0.009	0.022	5674.425	1.90
0004	0019	0.010	174	0.009	0.024	6763.704	1.44
0004	KRDFTBM1	0.011	24	0.010	0.025	6764.929	1.62
0005	0007	0.009	168	0.008	0.000	11978.038	0.78
0005	0008	0.010	166	0.009	0.023	9953.407	0.96
0005	0010	0.011	39	0.009	0.022	7895.216	1.37
0005	0011	0.010	24	0.009	0.021	7949.334	1.26
0006	0007	0.009	168	0.008	0.000	9827.846	0.96
0007	0008	0.011	18	0.010	0.023	4104.250	2.69
0007	0022	0.009	13	0.009	0.020	4393.866	2.16

0007	0023	0.009	4	0.008	0.020	1177.556	7.41
0007	0024	0.009	168	0.008	0.000	3178.948	2.96
0007	PD01FTBM2	0.019	48	0.016	0.051	1159.824	16.45
0007	PD03TBM2	0.015	34	0.013	0.032	4392.081	3.53
0008	0009	0.010	166	0.009	0.023	11230.356	0.85
0008	0021	0.011	172	0.009	0.023	6056.021	1.74
0008	0022	0.012	29	0.010	0.028	2444.790	4.74
0008	0023	0.011	35	0.010	0.027	4231.811	2.62
0008	0055	0.019	170	0.016	0.037	22355.356	0.83
0008	PD03TBM2	0.017	36	0.013	0.036	2438.438	6.98
0009	0012	0.012	7	0.010	0.026	4822.213	2.40
0009	0014	0.010	10	0.009	0.023	4577.643	2.21
0009	0021	0.009	170	0.008	0.000	14033.227	0.64
0010	0011	0.010	49	0.008	0.020	169.235	60.84
0010	0018	0.012	41	0.010	0.024	3732.994	3.29
0010	KRBFTBM2	0.014	41	0.012	0.030	4.579	3163.78
0011	0012	0.012	178	0.011	0.026	422.120	28.54
0011	0013	0.011	29	0.010	0.025	748.171	14.27
0011	0017	0.011	23	0.010	0.022	3542.670	3.08
0011	0018	0.011	36	0.009	0.023	3756.895	2.99
0011	KRBNTBM1	0.013	43	0.009	0.024	4.213	3115.26
0012	0013	0.010	19	0.009	0.021	331.872	30.02
0012	0014	0.011	13	0.010	0.027	457.855	24.88
0012	0017	0.012	8	0.011	0.026	3595.610	3.46
0012	KRANTBM2	0.016	145	0.012	0.036	7.272	2242.53
0013	0014	0.009	15	0.008	0.024	152.552	56.22
0013	0017	0.011	17	0.010	0.025	3588.944	3.16
0013	KRAFTBM1	0.008	14	0.007	0.037	5.494	1536.33
0014	0015	0.010	10	0.009	0.023	2100.096	4.82
0014	0016	0.012	172	0.011	0.027	3654.028	3.28
0014	PC42TBM1	0.007	18	0.006	0.016	2.150	3151.21
0015	0016	0.009	7	0.009	0.020	3370.399	2.67
0015	KRCFTBM2	0.029	38	0.020	0.079	3367.060	8.47
0016	0017	0.010	156	0.009	0.022	233.511	41.39
0016	KRCFTBM2	0.028	38	0.020	0.079	4.911	5718.72
0017	0018	0.009	170	0.007	0.018	1101.335	7.79
0017	0019	0.011	163	0.009	0.023	1104.963	9.56

2-D and 1-D Relative Station Confidence Regions (95.000 and 95.000 percent):

FROM	TO	MAJ-SEMI	AZ	MIN-SEMI	VERTICAL	DISTANCE	PPM
0017	KRCFTBM1	0.016	19	0.014	0.037	232.796	68.67
0017	KRCNTBM1	0.009	13	0.008	0.020	5.059	1682.18
0018	0019	0.010	179	0.009	0.024	110.630	91.88
0018	KRCNTBM1	0.010	176	0.009	0.022	1101.395	9.11
0018	KRDFTBM1	0.010	1	0.009	0.022	110.844	89.83
0018	KRDRTBM1	0.012	162	0.011	0.027	80.918	151.60
0019	KRDFTBM1	0.011	159	0.010	0.027	2.210	5121.74
0020	0021	0.009	170	0.008	0.000	8985.948	1.00
0020	0055	0.018	172	0.015	0.032	26709.630	0.66
0021	0022	0.012	24	0.010	0.020	4261.816	2.73
0021	0024	0.009	170	0.008	0.000	8338.191	1.08
0021	0055	0.017	171	0.014	0.032	19277.522	0.89
0022	0023	0.010	30	0.009	0.025	3838.962	2.54
0022	0024	0.010	172	0.009	0.020	5029.387	1.96
0022	PD03TBM2	0.016	36	0.012	0.032	6.429	2411.61
0023	0024	0.010	160	0.009	0.020	2191.219	4.47
0023	PD01FTBM2	0.019	49	0.017	0.053	17.916	1077.74
0023	PD03TBM2	0.016	35	0.013	0.035	3838.776	4.17
0024	PD01FTBM2	0.019	47	0.017	0.051	2203.148	8.77
KRAFTBM1	KRANTBM2	0.016	144	0.012	0.037	338.341	47.57
KRAFTBM1	PC42TBM1	0.012	16	0.011	0.037	146.329	83.40
KRANTBM2	KRBNTBM1	0.018	147	0.015	0.041	422.051	42.84
KRBFTBM2	KRBNTBM1	0.015	42	0.010	0.026	166.412	91.32
KRBFTBM2	PC42TBM1	0.017	42	0.015	0.038	1045.926	16.26
KRBNTBM1	KRDFTBM1	0.016	41	0.012	0.030	3647.988	4.46
KRCFTBM1	KRCNTBM1	0.015	14	0.014	0.035	233.225	65.76
KRCNTBM1	KRDFTBM1	0.011	176	0.010	0.025	1102.426	10.07
KRCNTBM1	KRDRTBM1	0.012	164	0.011	0.027	1025.667	12.17

KRDFTBM1	KRDRTBM1	0.012	162	0.011	0.026	155.679	78.03
PD01FTBM2	PD03TBM2	0.022	40	0.019	0.056	3847.285	5.75

Thu Sep 22 15:25:14 2005

1 National Geodetic Survey, Retrieval Date = APRIL 8, 2005
DF8362 **********
DF8362 DESIGNATION - F 555
DF8362 PID - DF8362
DF8362 STATE/COUNTY- FL/OKEECHOBEE
DF8362 USGS QUAD - FORT KISSIMMEE (1972)
DF8362
DF8362 *CURRENT SURVEY CONTROL
DF8362 _____
DF8362* NAD 83(1986)- 27 30 43. (N) 081 11 10. (W) SCALED
DF8362* NAVD 88 - 14.656 (meters) 48.08 (feet) ADJUSTED
DF8362 _____
DF8362 GEOID HEIGHT- -26.13 (meters) GEOID03
DF8362 DYNAMIC HT - 14.634 (meters) 48.01 (feet) COMP
DF8362 MODELED GRAV- 979,136.2 (mgal) NAVD 88
DF8362
DF8362 VERT ORDER - SECOND CLASS I
DF8362
DF8362.The horizontal coordinates were scaled from a topographic map and have
DF8362.an estimated accuracy of +/- 6 seconds.
DF8362
DF8362.The orthometric height was determined by differential leveling
DF8362.and adjusted by the National Geodetic Survey in May 2004.
DF8362
DF8362.The geoid height was determined by GEOID03.
DF8362
DF8362.The dynamic height is computed by dividing the NAVD 88
DF8362.geopotential number by the normal gravity value computed on the
DF8362.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DF8362.degrees latitude (g = 980.6199 gals.).
DF8362
DF8362.The modeled gravity was interpolated from observed gravity values.
DF8362
DF8362; North East Units Estimated Accuracy
DF8362;SPC FL E - 352,140. 181,610. MT (+/- 180 meters Scaled)
DF8362
DF8362 SUPERSEDED SURVEY CONTROL
DF8362
DF8362.No superseded survey control is available for this station.
DF8362
DF8362_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML816431(NAD 83)
DF8362_MARKER: DD = SURVEY DISK
DF8362_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
DF8362_STAMPING: F 555 2001
DF8362_MARK LOGO: FLDEP
DF8362_PROJECTION: FLUSH
DF8362_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
DF8362_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
DF8362+STABILITY: SURFACE MOTION
DF8362_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DF8362+SATELLITE: SATELLITE OBSERVATIONS - October 06, 2001
DF8362
DF8362 HISTORY - Date Condition Report By

DF8362 HISTORY   - 20011006 MONUMENTED   FLDEP
DF8362
DF8362   STATION DESCRIPTION
DF8362
DF8362'DESCRIBED BY FL DEPT OF ENV PRO 2001 (JLM)
DF8362'THE MARK IS ABOUT 31.4 MI NORTHWEST OF OKEECHOBEE, 13.6 MI NORTHWEST
DF8362'OF BASINGER, IN
DF8362'ESTIMATED SECTION 13, TOWNSHIP 34 SOUTH, RANGE 31 EAST.
DF8362'
DF8362'TO REACH THE MARK FROM THE INTERSECTION OF U.S. HIGHWAY 441 (PARROTT
DF8362'STREET) AND U.S.
DF8362'HIGHWAY 98 (STATE HIGHWAY 70, PARK STREET) IN OKEECHOBEE, GO WEST ON
DF8362'U.S. HIGHWAY 98
DF8362'(STATE HIGHWAY 70, PARK STREET) FOR 1.15 MI TO THE JUNCTION OF U.S.
DF8362'HIGHWAY 98 NORTH ON
DF8362'THE RIGHT, TURN RIGHT ON U.S. HIGHWAY 98 AND GO NORTHWESTERLY FOR 0.65
DF8362'MI TO THE
DF8362'RAILROAD TRACKS, CONTINUE NORTHWESTERLY ON U.S. HIGHWAY 98 FOR 11.9 MI
DF8362'TO THE JUNCTION
DF8362'OF COUNTY ROAD 68 EAST ON THE RIGHT, CONTINUE NORTHWESTERLY ON U.S.
DF8362'HIGHWAY 98 FOR
DF8362'1.85 MI TO THE JUNCTION OF NORTHWEST 176TH AVENUE (COUNTY ROAD 700-A)
DF8362'ON THE RIGHT,
DF8362'CONTINUE NORTHWESTERLY ON U.S. HIGHWAY 98 FOR 1.7 MI TO THE JUNCTION
DF8362'OF NORTHWEST
DF8362'203RD AVENUE (MICCO BLUFF ROAD) ON THE RIGHT, TURN RIGHT ON NORTHWEST
DF8362'203RD AVENUE
DF8362'(MICCO BLUFF ROAD) AND GO NORTH-NORTHWESTERLY FOR 0.2 MI TO THE
DF8362'JUNCTION OF
DF8362'NORTHWEST 160TH DRIVE (MICCO BLUFF ROAD, COUNTY ROAD 68), TURN LEFT ON
DF8362'NORTHWEST
DF8362'160TH DRIVE (MICCO BLUFF ROAD, COUNTY ROAD 68) AND GO
DF8362'WEST-NORTHWESTERLY FOR 6.15 MI TO
DF8362'THE END OF THE PAVED ROAD AND THE JUNCTION OF A DIRT ROAD LEADING
DF8362'NORTHWEST AND THE
DF8362'BEGINNING OF NORTHWEST 285TH DRIVE (A DIRT ROAD LEADING
DF8362'NORTHWESTERLY), BEAR RIGHT ON
DF8362'NORTHWEST 285TH DRIVE AND GO NORTHWESTERLY FOR 2.8 MI TO AN EAST-WEST
DF8362'FENCELINE
DF8362'OPENING AND THE JUNCTION OF A DIRT ROAD ON THE LEFT LEADING WEST,
DF8362'PASSING THROUGH THE
DF8362'OPENING CONTINUE NORTHWEST ON THE DIRT ROAD (NORTHWEST 285TH DRIVE)
DF8362'FOR 0.7 MI TO AN
DF8362'EAST-WEST FENCELINE OPENING WITH ONE 25.0 FT CONCRETE POLE ON BOTH
DF8362'SIDES OF THE ROAD,
DF8362'CONTINUE NORTHWEST ON THE DIRT ROAD FOR 0.7 MI TO THE INTERSECTION OF
DF8362'AN EAST-WEST
DF8362'DIRT ROAD, CONTINUE NORTHWEST ON THE DIRT ROAD FOR 2.3 MI TO A METAL
DF8362'GATE CONTINUE
DF8362'NORTHWEST ON THE DIRT ROAD FOR 0.65 MI TO THE MARK ON THE LEFT, SET IN
DF8362'THE TOP OF A
DF8362'ROUND CONCRETE MONUMENT FLUSH WITH THE GROUND AND LEVEL WITH THE ROAD.
DF8362'LOCATED 46.5 FT SOUTHWEST OF THE APPROXIMATE CENTERLINE OF THE ROAD,
DF8362'21.0 FT SOUTHEAST

DF8362'OF THE CENTER OF A GATE AND 1.0 FT NORTHEAST OF A CARSONITE WITNESS
DF8362'POST IN THE
DF8362'BARBWIRE FENCELINE.
DF8362'
DF8362'NOTE A MAGNET WAS IMBEDDED IN THE GROUND ON THE SOUTH SIDE OF THE
DF8362'MONUMENT.
DF8362'
DF8362'NOTE AUTHORIZED PERSONNEL ONLY BEYOND THIS POINT.
DF8362'
DF8362'NOTE FOR KEY CONTACT SOUTH FLORIDA WATER MANAGEMENT DISTRICT.
DF8362'
DF8362'
DF8362'

The NGS Data SheetSee file dsdata.txt for more information about the datasheet.DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 7.16

1 National Geodetic Survey, Retrieval Date = MAY 11, 2005

AH8813 **

AH8813 DESIGNATION - U 462

AH8813 PID - AH8813

AH8813 STATE/COUNTY- FL/HIGHLANDS

AH8813 USGS QUAD - BASINGER NW (1972)

AH8813

AH8813 *CURRENT SURVEY CONTROL

AH8813 _____

AH8813* NAD 83(1999)- 27 29 38.00965(N) 081 12 37.58638(W) ADJUSTED

AH8813* NAVD 88 - 14.314 (meters) 46.96 (feet) ADJUSTED

AH8813 _____

AH8813 X - 865,158.760 (meters) COMP

AH8813 Y - -5,595,329.481 (meters) COMP

AH8813 Z - 2,926,864.431 (meters) COMP

AH8813 LAPLACE CORR- -0.89 (seconds) DEFLEC99

AH8813 ELLIP HEIGHT- -11.78 (meters) (05/31/01) GPS OBS

AH8813 GEOID HEIGHT- -26.09 (meters) GEOID03

AH8813 DYNAMIC HT - 14.292 (meters) 46.89 (feet) COMP

AH8813 MODELED GRAV- 979,134.8 (mgal) NAVD 88

AH8813

AH8813 HORZ ORDER - FIRST

AH8813 VERT ORDER - SECOND CLASS I

AH8813 ELLP ORDER - FOURTH CLASS I

AH8813

AH8813.The horizontal coordinates were established by GPS observations

AH8813.and adjusted by the National Geodetic Survey in May 2001.

AH8813

AH8813.The orthometric height was determined by differential leveling

AH8813.and adjusted by the National Geodetic Survey in July 1999.

AH8813

AH8813.The X, Y, and Z were computed from the position and the ellipsoidal ht.

AH8813

AH8813.The Laplace correction was computed from DEFLEC99 derived deflections.

AH8813

AH8813.The ellipsoidal height was determined by GPS observations

AH8813.and is referenced to NAD 83.

AH8813

AH8813.The geoid height was determined by GEOID03.

AH8813

AH8813.The dynamic height is computed by dividing the NAVD 88

AH8813.geopotential number by the normal gravity value computed on the

AH8813.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

AH8813.degrees latitude (g = 980.6199 gals.).

AH8813

AH8813.The modeled gravity was interpolated from observed gravity values.

AH8813

AH8813; North East Units Scale Factor Converg.

AH8813;SPC FL E - 350,145.313 179,205.957 MT 0.99994651 -0 05 49.7

AH8813;UTM 17 - 3,041,157.826 479,213.052 MT 0.99960533 -0 05 49.7

AH8813

AH8813! - Elev Factor x Scale Factor = Combined Factor
AH8813!SPC FL E - 1.00000185 x 0.99994651 = 0.99994836
AH8813!UTM 17 - 1.00000185 x 0.99960533 = 0.99960718
AH8813
AH8813 SUPERSEDED SURVEY CONTROL
AH8813
AH8813 NAD 83(1990)- 27 29 38.00865(N) 081 12 37.58588(W) AD( ) 1
AH8813 ELLIP H (06/01/99) -11.80 (m) GP( ) 4 1
AH8813 NAVD 88 (06/01/99) 14.35 (m) 47.1 (f) LEVELING 3
AH8813
AH8813.Superseded values are not recommended for survey control.
AH8813.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AH8813.See file dsdata.txt to determine how the superseded data were derived.
AH8813
AH8813_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML7921341158(NAD 83)
AH8813_MARKER: DD = SURVEY DISK
AH8813_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
AH8813_STAMPING: U 462 1997
AH8813_MARK LOGO: FLDNR
AH8813_MAGNETIC: N = NO MAGNETIC MATERIAL
AH8813_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AH8813+STABILITY: SURFACE MOTION
AH8813_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AH8813+SATELLITE: SATELLITE OBSERVATIONS - November 28, 1998
AH8813
AH8813 HISTORY - Date Condition Report By
AH8813 HISTORY - 1997 MONUMENTED FLDEP
AH8813 HISTORY - 19981128 GOOD DENI
AH8813
AH8813 STATION DESCRIPTION
AH8813
AH8813'DESCRIBED BY FL DEPT OF ENV PRO 1997 (JLM)
AH8813'THE MARK IS ABOUT 33.5 MI (53.9 KM) NORTHWEST OF OKEECHOBEE, 4.6
AH8813'NORTHEAST OF LORIDA, 1.0 MI (1.6 KM) WEST OF KISSIMMEE RIVER IN
AH8813'SECTION 27, TOWNSHIP 34 SOUTH, RANGE 31 EAST. TO REACH THE MARK FROM
AH8813'THE POST OFFICE IN LORIDA, GO SOUTHEAST ON U.S. HIGHWAY 98 FOR 1.05
AH8813'MI (1.69 KM) TO THE JUNCTION OF BLUFF HAMMOCK ROAD ON THE LEFT, TURN
AH8813'LEFT ON BLUFF HAMMOCK ROAD AND GO NORTHEAST FOR 4.15 MI (6.68 KM) TO
AH8813'THE END OF THE PAVED ROAD AND A Y-JUNCTION, BEAR LEFT ON THE SAND ROAD
AH8813'AND GO NORTH FOR 0.35 MI (0.56 KM) TO THE MARK ON THE RIGHT, SET IN
AH8813'THE TOP OF A ROUND CONCRETE MONUMENT FLUSH WITH THE GROUND AND LEVEL
AH8813'WITH THE SAND ROAD. LOCATED 67.7 FT (20.6 M) SOUTHEAST OF THE CENTER
AH8813'OF A METAL GATE, 60.0 FT (18.3 M) SOUTHEAST OF THE SOUTHEAST GATE
AH8813'POST, 59.8 FT (18.2 M) SOUTHEAST OF THE SOUTHEAST END OF A 30-INCH
AH8813'STEEL PIPE UNDER A ROAD LEADING NORTH-SOUTH, 41.3 FT (12.6 M)
AH8813'SOUTHEAST OF THE CENTER OF A WOODEN GATE, 32.2 FT (9.8 M) NORTHEAST OF
AH8813'THE CENTERLINE OF THE SAND ROAD, 1.0 FT (0.3 M) SOUTHWEST OF A HOG
AH8813'WIRE FENCE AND 0.8 FT (24.4 CM) SOUTHWEST OF A CARSONITE WITNESS POST.
AH8813
AH8813 STATION RECOVERY (1998)
AH8813
AH8813'RECOVERY NOTE BY DENI ASSOCIATES INCORPORATED 1998 (RLW)
AH8813'THE STATION IS ABOUT 28.7 MI (46.2 KM) NORTHWEST OF OKEECHOBEE, 4.5 MI
AH8813'(7.2 KM) NORTHEAST OF LORIDA, 1.0 MI (1.6 KM) WEST OF THE KISSIMMEE

AH8813'RIVER CANAL C-38 IN SECTION 27, TOWNSHIP 34 SOUTH, RANGE 31 EAST. TO
AH8813'REACH THE STATION FROM THE POST OFFICE IN LORIDA, GO SOUTHEAST ON
AH8813'U.S.HIGHWAY 98 FOR 1.05 MI (1.69 KM) TO THE JUNCTION OF BLUFF HAMMOCK
AH8813'ROAD ON THE LEFT, TURN LEFT ON BLUFF HAMMOCK ROAD AND GO NORTHEAST FOR
AH8813'4.15 MI (6.68 KM) TO THE END OF THE PAVED ROAD AND A Y-JUNCTION, BEAR
AH8813'LEFT ON THE SAND ROAD AND GO NORTH FOR 0.35 MI (0.56 KM) TO THE
AH8813'STATION ON THE RIGHT, SET IN THE TOP OF A ROUND CONCRETE MONUMENT
AH8813'FLUSH WITH THE GROUND AND LEVEL WITH THE SAND ROAD. LOCATED 67.7 FT
AH8813'(20.6 M) SOUTHEAST OF THE CENTER OF A METAL GATE, 59.0 FEET (18.0 M)
AH8813'SOUTHEAST OF THE SOUTHEAST GATE POST/T FENCE POST, 138 FT (42.1 M)
AH8813'SOUTHEAST OF THE NORTHEAST END OF A 4.0 FT (1.2 M) DIAMETER METAL PIPE
AH8813'CULVERT UNDER THE SAND ROAD, 31 FT (9.4 M) NORTHEAST OF THE CENTERLINE
AH8813'OF THE SAND ROAD, 2.5 FT (0.8 M) SOUTHWEST OF A HOG WIRE R/W FENCE AND
AH8813'N.G.S.CARSONITE WITNESS POST.

*** retrieval complete.
Elapsed Time = 00:00:00

1 National Geodetic Survey, Retrieval Date = APRIL 8, 2005
AH8821 **********
AH8821 DESIGNATION - B 463
AH8821 PID - AH8821
AH8821 STATE/COUNTY- FL/HIGHLANDS
AH8821 USGS QUAD - BASINGER NW (1972)
AH8821
AH8821 *CURRENT SURVEY CONTROL
AH8821 _____
AH8821* NAD 83(1999)- 27 25 30.98854(N) 081 12 51.30429(W) ADJUSTED
AH8821* NAVD 88 - 16.009 (meters) 52.52 (feet) ADJUSTED
AH8821 _____
AH8821 X - 865,322.404 (meters) COMP
AH8821 Y - -5,598,853.579 (meters) COMP
AH8821 Z - 2,920,118.405 (meters) COMP
AH8821 LAPLACE CORR- -1.58 (seconds) DEFLEC99
AH8821 ELLIP HEIGHT- -9.99 (meters) (05/31/01) GPS OBS
AH8821 GEOID HEIGHT- -25.99 (meters) GEOID03
AH8821 DYNAMIC HT - 15.985 (meters) 52.44 (feet) COMP
AH8821 MODELED GRAV- 979,126.8 (mgal) NAVD 88
AH8821
AH8821 HORZ ORDER - FIRST
AH8821 VERT ORDER - SECOND CLASS I
AH8821 ELLP ORDER - FOURTH CLASS I
AH8821
AH8821.The horizontal coordinates were established by GPS observations
AH8821.and adjusted by the National Geodetic Survey in May 2001.
AH8821
AH8821.The orthometric height was determined by differential leveling
AH8821.and adjusted by the National Geodetic Survey in July 1999.
AH8821
AH8821.The X, Y, and Z were computed from the position and the ellipsoidal ht.
AH8821
AH8821.The Laplace correction was computed from DEFLEC99 derived deflections.
AH8821
AH8821.The ellipsoidal height was determined by GPS observations
AH8821.and is referenced to NAD 83.
AH8821
AH8821.The geoid height was determined by GEOID03.
AH8821
AH8821.The dynamic height is computed by dividing the NAVD 88
AH8821.geopotential number by the normal gravity value computed on the
AH8821.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AH8821.degrees latitude (g = 980.6199 gals.).
AH8821
AH8821.The modeled gravity was interpolated from observed gravity values.
AH8821
AH8821; North East Units Scale Factor Converg.
AH8821;SPC FL E - 342,542.872 178,816.320 MT 0.99994671 -0 05 55.3
AH8821;UTM 17 - 3,033,557.980 478,823.548 MT 0.99960554 -0 05 55.3
AH8821
AH8821! - Elev Factor x Scale Factor = Combined Factor
AH8821!SPC FL E - 1.00000157 x 0.99994671 = 0.99994828

AH8821!UTM 17 - 1.00000157 x 0.99960554 = 0.99960711
AH8821
AH8821 SUPERSEDED SURVEY CONTROL
AH8821
AH8821 NAD 83(1990)- 27 25 30.98740(N) 081 12 51.30392(W) AD( ) 1
AH8821 ELLIP H (06/01/99) -10.02 (m) GP( ) 4 1
AH8821 NAVD 88 (06/01/99) 16.05 (m) 52.7 (f) LEVELING 3
AH8821
AH8821.Superseded values are not recommended for survey control.
AH8821.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AH8821.See file dsdata.txt to determine how the superseded data were derived.
AH8821
AH8821_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML7882433558(NAD 83)
AH8821_MARKER: DD = SURVEY DISK
AH8821_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
AH8821_STAMPING: B 463 1997
AH8821_MARK LOGO: FLDEP
AH8821_MAGNETIC: N = NO MAGNETIC MATERIAL
AH8821_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AH8821+STABILITY: SURFACE MOTION
AH8821_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AH8821+SATELLITE: SATELLITE OBSERVATIONS - 1997
AH8821
AH8821 HISTORY - Date Condition Report By
AH8821 HISTORY - 1997 MONUMENTED FLDEP
AH8821
AH8821 STATION DESCRIPTION
AH8821
AH8821'DESCRIBED BY FL DEPT OF ENV PRO 1997 (JLM)
AH8821'THE MARK IS ABOUT 30.2 MI (48.6 KM) NORTHWEST OF OKEECHOBEE, 4.8 MI
AH8821'(7.7 KM) WEST OF THE KISSIMMEE RIVER, 2.8 MI (4.5 KM) SOUTHEAST OF
AH8821'LORIDA IN SECTION 22, TOWNSHIP 35 SOUTH, RANGE 31 EAST. TO REACH THE
AH8821'MARK FROM THE POST OFFICE IN LORIDA, GO SOUTHEAST ON U.S. HIGHWAY 98
AH8821'FOR 2.8 MI (4.5 KM) TO THE MARK ON THE LEFT, SET IN THE TOP OF A ROUND
AH8821'CONCRETE MONUMENT FLUSH WITH THE GROUND AND 0.5 FT (15.2 CM) BELOW THE
AH8821'LEVEL OF U.S. HIGHWAY 98. LOCATED 58.0 FT (17.7 M) SOUTHEAST OF THE
AH8821'APPROXIMATE CENTERLINE OF A DIRT ROAD LEADING NORTHEAST, 52.8 FT (16.1
AH8821'M) NORTHEAST OF THE CENTERLINE OF U.S. HIGHWAY 98, 1.5 FT (0.5 M)
AH8821'SOUTHWEST OF A BARBWIRE FENCE AND 1.4 FT (0.4 M) SOUTHWEST OF A
AH8821'CARSONITE WITNESS POST.

1 National Geodetic Survey, Retrieval Date = APRIL 8, 2005
AF7416 **********
AF7416 CBN - This is a Cooperative Base Network Control Station.
AF7416 DESIGNATION - FLGPS 55
AF7416 PID - AF7416
AF7416 STATE/COUNTY- FL/HIGHLANDS
AF7416 USGS QUAD - BASINGER NW (1972)
AF7416
AF7416 *CURRENT SURVEY CONTROL
AF7416 _____
AF7416* NAD 83(1999)- 27 23 32.73045(N) 081 08 55.12285(W) ADJUSTED
AF7416* NAVD 88 - 12.228 (meters) 40.12 (feet) ADJUSTED
AF7416 _____
AF7416 X - 871,990.061 (meters) COMP
AF7416 Y - -5,599,511.437 (meters) COMP
AF7416 Z - 2,916,885.229 (meters) COMP
AF7416 LAPLACE CORR- -1.93 (seconds) DEFLEC99
AF7416 ELLIP HEIGHT- -13.79 (meters) (05/31/01) GPS OBS
AF7416 GEOID HEIGHT- -26.04 (meters) GEOID03
AF7416 DYNAMIC HT - 12.209 (meters) 40.06 (feet) COMP
AF7416 MODELED GRAV- 979,122.1 (mgal) NAVD 88
AF7416
AF7416 HORZ ORDER - B
AF7416 VERT ORDER - SECOND CLASS I
AF7416 ELLP ORDER - FIFTH CLASS I
AF7416
AF7416.The horizontal coordinates were established by GPS observations
AF7416.and adjusted by the National Geodetic Survey in May 2001.
AF7416
AF7416.The orthometric height was determined by differential leveling
AF7416.and adjusted by the National Geodetic Survey in July 1999.
AF7416.No vertical observational check was made to the station.
AF7416
AF7416.The X, Y, and Z were computed from the position and the ellipsoidal ht.
AF7416
AF7416.The Laplace correction was computed from DEFLEC99 derived deflections.
AF7416
AF7416.The ellipsoidal height was determined by GPS observations
AF7416.and is referenced to NAD 83.
AF7416
AF7416.The geoid height was determined by GEOID03.
AF7416
AF7416.The dynamic height is computed by dividing the NAVD 88
AF7416.geopotential number by the normal gravity value computed on the
AF7416.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AF7416.degrees latitude (g = 980.6199 gals.).
AF7416
AF7416.The modeled gravity was interpolated from observed gravity values.
AF7416
AF7416; North East Units Scale Factor Converg.
AF7416;SPC FL E - 338,893.568 185,298.648 MT 0.99994384 -0 04 06.2
AF7416;UTM 17 - 3,029,909.921 485,303.664 MT 0.99960267 -0 04 06.2
AF7416

AF7416! - Elev Factor x Scale Factor = Combined Factor
AF7416!SPC FL E - 1.00000217 x 0.99994384 = 0.99994601
AF7416!UTM 17 - 1.00000217 x 0.99960267 = 0.99960484
AF7416
AF7416: Primary Azimuth Mark Grid Az
AF7416:SPC FL E - FLGPS 55 AZ MK 297 02 52.7
AF7416:UTM 17 - FLGPS 55 AZ MK 297 02 52.7
AF7416
AF7416|---|
AF7416| PID Reference Object Distance Geod. Az |
AF7416| dddmmss.s |
AF7416| AF7446 FLGPS 55 AZ MK APPROX. 0.8 KM 2965846.5 |
AF7416|---|
AF7416
AF7416 SUPERSEDED SURVEY CONTROL
AF7416
AF7416 NAD 83(1990)- 27 23 32.72943(N) 081 08 55.12247(W) AD( ) B
AF7416 ELLIP H (09/13/90) -13.80 (m) GP( ) 4 1
AF7416 NAVD 88 (05/30/00) 12.23 (m) 40.1 (f) LEVELING 3
AF7416 NAVD 88 (06/01/99) 12.27 (m) 40.3 (f) LEVELING 3
AF7416 NGVD 29 (09/13/90) 12.7 (m) 42. (f) GPS OBS
AF7416
AF7416.Superseded values are not recommended for survey control.
AF7416.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AF7416.See file dsdata.txt to determine how the superseded data were derived.
AF7416
AF7416_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML8530429910(NAD 83)
AF7416_MARKER: F = FLANGE-ENCASED ROD
AF7416_SETTING: 59 = STAINLESS STEEL ROD IN SLEEVE (10 FT.+)
AF7416_SP_SET: STAINLESS STEEL ROD IN SLEEVE
AF7416_STAMPING: FLGPS 55 1989
AF7416_MARK LOGO: NGS
AF7416_PROJECTION: FLUSH
AF7416_MAGNETIC: N = NO MAGNETIC MATERIAL
AF7416_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AF7416_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AF7416+SATELLITE: SATELLITE OBSERVATIONS - September 09, 2001
AF7416_ROD/PIPE-DEPTH: 21.8 meters
AF7416_SLEEVE-DEPTH : 0.91 meters
AF7416
AF7416 HISTORY - Date Condition Report By
AF7416 HISTORY - 1989 MONUMENTED NGS
AF7416 HISTORY - 19930219 GOOD KEISCH
AF7416 HISTORY - 19970806 GOOD FLDEP
AF7416 HISTORY - 19981128 GOOD DENI
AF7416 HISTORY - 19990713 GOOD BAH
AF7416 HISTORY - 20010909 GOOD FLDEP
AF7416
AF7416 STATION DESCRIPTION
AF7416
AF7416'DESCRIBED BY NATIONAL GEODETIC SURVEY 1989
AF7416'THE STATION IS LOCATED ABOUT 32.99 KM (20.50 MI) SOUTHEAST OF SEBRING,
AF7416'9.81 KM (6.10 MI) NORTHWEST OF FORT BASINGER, IN SECTION 32, T 35 S, R
AF7416'32 E. OWNERSHIP--HIGHWAY RIGHT-OF-WAY.

AF7416'TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 98 AND COUNTY
AF7416'ROAD 721 IN FORT BASINGER, GO WESTERLY FOR 7.64 KM (4.75 MI) ON
AF7416'HIGHWAY 98 TO A PAVED ROAD RIGHT, S-65C ACCESS ROAD. CONTINUE
AF7416'STRAIGHT AHEAD AND GO WESTERLY FOR 2.57 KM (1.60 MI) ON HIGHWAY 98 TO
AF7416'THE STATION ON RIGHT.
AF7416'THE STATION IS RECESSED 9 CM BELOW GROUND. LOCATED 21.52 M (70.6 FT)
AF7416'WEST-NORTHWEST FROM A UTILITY POLE, 13.86 M (45.5 FT) NORTH-NORTHEAST
AF7416'FROM THE APPROXIMATE CENTER OF HIGHWAY 98, 2.29 M (7.5 FT)
AF7416'SOUTH-SOUTHWEST FROM A FENCE LINE AND 1.80 M (5.9 FT) SOUTH FROM A
AF7416'CARSONITE WITNESS POST. NOTE--ACCESS TO DATUM POINT IS HAD THROUGH A
AF7416'5-INCH LOGO CAP.
AF7416'DESCRIBED BY R.L. MALLOY.
AF7416
AF7416 STATION RECOVERY (1993)
AF7416
AF7416'RECOVERY NOTE BY KEITH AND SCHNARS - LAKELAND 1993
AF7416'RECOVERED IN GOOD CONDITION.
AF7416
AF7416 STATION RECOVERY (1997)
AF7416
AF7416'RECOVERY NOTE BY FL DEPT OF ENV PRO 1997 (JLM)
AF7416'THE STATION IS ABOUT 25.5 MI (41.0 KM) NORTHWEST OF OKEECHOBEE, 7.5 MI
AF7416'(12.1 KM) SOUTHEAST OF LORIDA, 2.2 MI (3.5 KM) WEST OF THE KISSIMMEE
AF7416'RIVER IN SECTION 32, TOWNSHIP 35 SOUTH, RANGE 32 EAST. TO REACH THE
AF7416'STATION FROM THE POST OFFICE IN LORIDA, GO SOUTHEAST ON U.S. HIGHWAY
AF7416'98 FOR 3.4 MI (5.5 KM) TO THE JUNCTION OF COUNTY ROAD 621 ON THE
AF7416'RIGHT, CONTINUE SOUTHEAST ON U.S. HIGHWAY 98 FOR 4.15 MI (6.68 KM) TO
AF7416'THE STATION ON THE LEFT, A STAINLESS STEEL ROD DRIVEN INTO THE GROUND
AF7416'WITH A LOGO CAP FLUSH WITH THE GROUND AND 1.0 FT (0.3 M) BELOW THE
AF7416'LEVEL OF U.S. HIGHWAY 98, DATUM POINT IS RECESSED 0.3 FT (9.1 CM)
AF7416'BELOW THE LEVEL OF THE LOGO CAP. LOCATED 70.6 FT (21.5 M)
AF7416'WEST-NORTHWEST OF A POWER POLE, 45.5 FT (13.9 M) NORTH-NORTHEAST OF
AF7416'THE CENTERLINE OF U.S HIGHWAY 98, 7.5 FT (2.3 M) SOUTH-SOUTHWEST OF A
AF7416'FENCE AND 5.9 FT (1.8 M) SOUTH OF A CARSONITE WITNESS POST. NOTE
AF7416'ACCESS TO DATUM POINT IS HAD THROUGH A 5-INCH LOGO CAP.
AF7416
AF7416 STATION RECOVERY (1998)
AF7416
AF7416'RECOVERY NOTE BY DENI ASSOCIATES INCORPORATED 1998 (RLW)
AF7416'RECOVERED AS DESCRIBED.
AF7416
AF7416 STATION RECOVERY (1999)
AF7416
AF7416'RECOVERY NOTE BY BERRYMAN & HENIGAR 1999 (BH)
AF7416'RECOVERED AS DESCRIBED.
AF7416
AF7416 STATION RECOVERY (2001)
AF7416
AF7416'RECOVERY NOTE BY FL DEPT OF ENV PRO 2001 (JLM)
AF7416'RECOVERED IN GOOD CONDITION.
AF7416'
AF7416'
AF7416'

1 National Geodetic Survey, Retrieval Date = APRIL 8, 2005
AF6702 **********
AF6702 DESIGNATION - C 358
AF6702 PID - AF6702
AF6702 STATE/COUNTY- FL/HIGHLANDS
AF6702 USGS QUAD - BRIGHTON (1972)
AF6702
AF6702 *CURRENT SURVEY CONTROL
AF6702 _____
AF6702* NAD 83(1999)- 27 14 11.06574(N) 081 03 14.29810(W) ADJUSTED
AF6702* NAVD 88 - 9.485 (meters) 31.12 (feet) ADJUSTED
AF6702 _____
AF6702 X - 882,474.540 (meters) COMP
AF6702 Y - -5,605,897.052 (meters) COMP
AF6702 Z - 2,901,523.482 (meters) COMP
AF6702 LAPLACE CORR- -3.58 (seconds) DEFLEC99
AF6702 ELLIP HEIGHT- -16.55 (meters) (12/09/02) GPS OBS
AF6702 GEOID HEIGHT- -26.01 (meters) GEOID03
AF6702 DYNAMIC HT - 9.470 (meters) 31.07 (feet) COMP
AF6702 MODELED GRAV- 979,104.7 (mgal) NAVD 88
AF6702
AF6702 HORZ ORDER - A
AF6702 VERT ORDER - FIRST CLASS II
AF6702 ELLP ORDER - FOURTH CLASS I
AF6702
AF6702.The horizontal coordinates were established by GPS observations
AF6702.and adjusted by the National Geodetic Survey in December 2002.
AF6702
AF6702.The orthometric height was determined by differential leveling
AF6702.and adjusted by the National Geodetic Survey in November 2001.
AF6702
AF6702.The X, Y, and Z were computed from the position and the ellipsoidal ht.
AF6702
AF6702.The Laplace correction was computed from DEFLEC99 derived deflections.
AF6702
AF6702.The ellipsoidal height was determined by GPS observations
AF6702.and is referenced to NAD 83.
AF6702
AF6702.The geoid height was determined by GEOID03.
AF6702
AF6702.The dynamic height is computed by dividing the NAVD 88
AF6702.geopotential number by the normal gravity value computed on the
AF6702.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AF6702.degrees latitude (g = 980.6199 gals.).
AF6702
AF6702.The modeled gravity was interpolated from observed gravity values.
AF6702
AF6702; North East Units Scale Factor Converg.
AF6702;SPC FL E - 321,598.848 194,654.607 MT 0.99994153 -0 01 28.9
AF6702;UTM 17 - 3,012,621.101 494,656.431 MT 0.99960035 -0 01 28.9
AF6702
AF6702! - Elev Factor x Scale Factor = Combined Factor
AF6702!SPC FL E - 1.00000260 x 0.99994153 = 0.99994413

AF6702!UTM 17 - 1.00000260 x 0.99960035 = 0.99960295
AF6702
AF6702 SUPERSEDED SURVEY CONTROL
AF6702
AF6702 NAVD 88 (06/15/91) 9.486 (m) 31.12 (f) UNKNOWN 1 2
AF6702 NGVD 29 (09/01/92) 9.852 (m) 32.32 (f) ADJUSTED 1 2
AF6702
AF6702.Superseded values are not recommended for survey control.
AF6702.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AF6702.See file dsdata.txt to determine how the superseded data were derived.
AF6702
AF6702_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML9465612621(NAD 83)
AF6702_MARKER: DV = VERTICAL CONTROL DISK
AF6702_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
AF6702_SP_SET: STAINLESS STEEL ROD
AF6702_STAMPING: C 358 1979
AF6702_MARK LOGO: NGS
AF6702_PROJECTION: FLUSH
AF6702_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
AF6702_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AF6702_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AF6702+SATELLITE: SATELLITE OBSERVATIONS - April 13, 2002
AF6702_ROD/PIPE-DEPTH: 7.62 meters
AF6702
AF6702 HISTORY - Date Condition Report By
AF6702 HISTORY - 1979 MONUMENTED NGS
AF6702 HISTORY - 20010607 GOOD EMCINC
AF6702 HISTORY - 20020212 GOOD NGS
AF6702 HISTORY - 20020413 GOOD MAPTEC
AF6702
AF6702 STATION DESCRIPTION
AF6702
AF6702'DESCRIBED BY NATIONAL GEODETIC SURVEY 1979
AF6702'13.8 MI WEST FROM OKEECHOBEE.
AF6702'13.8 MILES WEST ALONG STATE HIGHWAY 70 FROM THE CITY HALL IN
AF6702'OKEECHOBEE, AT THE JUNCTION OF COUNTY ROAD S-721, 111 FEET NORTH OF
AF6702'THE CENTERLINE OF THE HIGHWAY, 55 FEET WEST OF THE CENTERLINE OF THE
AF6702'ROAD AND 1 FOOT EAST OF A FENCE CORNER.
AF6702
AF6702 STATION RECOVERY (2001)
AF6702
AF6702'RECOVERY NOTE BY EMC INCORPORATED 2001 (WJB)
AF6702'RECOVERED AS DESCRIBED.
AF6702'
AF6702'
AF6702'
AF6702
AF6702 STATION RECOVERY (2002)
AF6702
AF6702'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 2002 (RLT)
AF6702'THE STATION IS LOCATED 16 MI (25.8 KM) EAST SOUTHEAST OF LAKE PLACID,
AF6702'13.9 MI (22.4 KM) WEST OF OKEECHOBEE AND ON HIGHWAY RIGHT OF WAY.
AF6702'
AF6702'TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 441 AND

AF6702'STATE HIGHWAYS 15 AND 70 IN OKEECHOBEE GO WEST ON HIGHWAY 70 FOR
AF6702'13.9 MI (22.4 KM) TO THE JUNCTION OF COUNTY ROAD S-271 ON THE RIGHT.
AF6702'TURN RIGHT AND THEN LEFT AT A GATE AND THE STATION ON THE LEFT.
AF6702'
AF6702'THE STATION IS LOCATED 38.8 M (111 FT) NORTH OF THE CENTERLINE OF
AF6702'HIGHWAY 70, 16.8 M (55 FT) WEST OF THE CENTERLINE OF THE COUNTY
AF6702'ROAD, 0.3 M (1.0 FT) EAST OF A FENCE CORNER AND 0.3 M (1.0 FT) NORTH
AF6702'OF
AF6702'A METAL WITNESS POST.
AF6702'
AF6702'
AF6702
AF6702 STATION RECOVERY (2002)
AF6702
AF6702'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (CDP)
AF6702'RECOVERED AS DESCRIBED
AF6702'

1 National Geodetic Survey, Retrieval Date = APRIL 8, 2005
DF8387 **********
DF8387 DESIGNATION - R 553
DF8387 PID - DF8387
DF8387 STATE/COUNTY- FL/HIGHLANDS
DF8387 USGS QUAD - FORT BASINGER (1972)
DF8387
DF8387 *CURRENT SURVEY CONTROL
DF8387 _____
DF8387* NAD 83(1986)- 27 19 30. (N) 081 03 13. (W) SCALED
DF8387* NAVD 88 - 11.674 (meters) 38.30 (feet) ADJUSTED
DF8387 _____
DF8387 GEOID HEIGHT- -26.16 (meters) GEOID03
DF8387 DYNAMIC HT - 11.656 (meters) 38.24 (feet) COMP
DF8387 MODELED GRAV- 979,113.7 (mgal) NAVD 88
DF8387
DF8387 VERT ORDER - SECOND CLASS I
DF8387
DF8387.The horizontal coordinates were scaled from a topographic map and have
DF8387.an estimated accuracy of +/- 6 seconds.
DF8387
DF8387.The orthometric height was determined by differential leveling
DF8387.and adjusted by the National Geodetic Survey in May 2004.
DF8387
DF8387.The geoid height was determined by GEOID03.
DF8387
DF8387.The dynamic height is computed by dividing the NAVD 88
DF8387.geopotential number by the normal gravity value computed on the
DF8387.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DF8387.degrees latitude (g = 980.6199 gals.).
DF8387
DF8387.The modeled gravity was interpolated from observed gravity values.
DF8387
DF8387; North East Units Estimated Accuracy
DF8387;SPC FL E - 331,420. 194,700. MT (+/- 180 meters Scaled)
DF8387
DF8387 SUPERSEDED SURVEY CONTROL
DF8387
DF8387.No superseded survey control is available for this station.
DF8387
DF8387_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML946224(NAD 83)
DF8387_MARKER: DD = SURVEY DISK
DF8387_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
DF8387_STAMPING: R 553 2001
DF8387_MARK LOGO: FLDEP
DF8387_PROJECTION: RECESSED 5 CENTIMETERS
DF8387_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
DF8387_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
DF8387+STABILITY: SURFACE MOTION
DF8387_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DF8387+SATELLITE: SATELLITE OBSERVATIONS - September 08, 2001
DF8387
DF8387 HISTORY - Date Condition Report By

DF8387 HISTORY - 20010908 MONUMENTED FLDEP
DF8387
DF8387 STATION DESCRIPTION
DF8387
DF8387'DESCRIBED BY FL DEPT OF ENV PRO 2001 (JLM)
DF8387'THE MARK IS ABOUT 17.7 MI NORTHWEST OF OKEECHOBEE, 16.3 MI SOUTHEAST
DF8387'OF LORIDA, IN
DF8387'SECTION 29, TOWNSHIP 36 SOUTH, RANGE 33 EAST.
DF8387'
DF8387'TO REACH THE MARK FROM THE POST OFFICE IN LORIDA, GO SOUTHEAST ON U.S.
DF8387'HIGHWAY 98 FOR
DF8387'3.4 MI TO THE JUNCTION OF COUNTY ROAD 612 ON THE RIGHT, CONTINUE
DF8387'SOUTHEAST ON U.S.
DF8387'HIGHWAY 98 FOR 3.15 MI TO THE NORTH END OF THE BRIDGE OVER THE
DF8387'ISTOKPOGA CANAL,
DF8387'CONTINUE SOUTHEAST ON U.S. HIGHWAY 98 FOR 7.25 MI TO THE JUNCTION OF
DF8387'COUNTY ROAD 721 ON
DF8387'THE RIGHT, TURN RIGHT ON COUNTY ROAD 721 AND GO SOUTH FOR 2.6 MI TO
DF8387'THE JUNCTION OF SKY
DF8387'ROAD ON THE LEFT AND THE MARK ON THE LEFT, SET IN THE TOP OF A ROUND
DF8387'CONCRETE
DF8387'MONUMENT RECESSED 0.2 FT BELOW THE LEVEL OF THE GROUND AND ABOUT 1.5
DF8387'FT BELOW THE
DF8387'LEVEL OF COUNTY ROAD 721.
DF8387'
DF8387'LOCATED 52.3 FT EAST OF THE CENTERLINE OF COUNTY ROAD 721, 52.0 FT
DF8387'SOUTH OF THE
DF8387'APPROXIMATE CENTERLINE OF SKY ROAD, 46.8 FT NORTHEAST OF THE NORTH END
DF8387'OF A CONCRETE
DF8387'HEADWALL, 21.2 FT SOUTH-SOUTHEAST OF A CABLE BOX NUMBER 12085107, 1.0
DF8387'FT WEST OF A
DF8387'HOGWIRE FENCE AND 0.9 FT WEST OF A CARSONITE WITNESS POST.
DF8387'
DF8387'NOTE A MAGNET WAS IMBEDDED IN THE GROUND ON THE SOUTH SIDE OF THE
DF8387'MONUMENT.
DF8387'
DF8387'
DF8387'
DF8387'
DF8387'
DF8387'
DF8387'
DF8387'
DF8387'
DF8387'
DF8387'

1 National Geodetic Survey, Retrieval Date = APRIL 8, 2005
AH9316 **********
AH9316 DESIGNATION - KR 1746
AH9316 PID - AH9316
AH9316 STATE/COUNTY- FL/HIGHLANDS
AH9316 USGS QUAD - FORT BASINGER (1972)
AH9316
AH9316 *CURRENT SURVEY CONTROL
AH9316 _____
AH9316* NAD 83(1999)- 27 21 43.69713(N) 081 03 14.10469(W) ADJUSTED
AH9316* NAVD 88 - 12.396 (meters) 40.67 (feet) ADJUSTED
AH9316 _____
AH9316 X - 881,486.543 (meters) COMP
AH9316 Y - -5,599,586.643 (meters) COMP
AH9316 Z - 2,913,905.039 (meters) COMP
AH9316 LAPLACE CORR- -1.98 (seconds) DEFLEC99
AH9316 ELLIP HEIGHT- -13.78 (meters) (05/31/01) GPS OBS
AH9316 GEOID HEIGHT- -26.19 (meters) GEOID03
AH9316 DYNAMIC HT - 12.377 (meters) 40.61 (feet) COMP
AH9316 MODELED GRAV- 979,119.9 (mgal) NAVD 88
AH9316
AH9316 HORZ ORDER - FIRST
AH9316 VERT ORDER - SECOND CLASS I
AH9316 ELLP ORDER - FOURTH CLASS I
AH9316
AH9316.The horizontal coordinates were established by GPS observations
AH9316.and adjusted by the National Geodetic Survey in May 2001.
AH9316
AH9316.The orthometric height was determined by differential leveling
AH9316.and adjusted by the National Geodetic Survey in May 2004.
AH9316
AH9316.The X, Y, and Z were computed from the position and the ellipsoidal ht.
AH9316
AH9316.The Laplace correction was computed from DEFLEC99 derived deflections.
AH9316
AH9316.The ellipsoidal height was determined by GPS observations
AH9316.and is referenced to NAD 83.
AH9316
AH9316.The geoid height was determined by GEOID03.
AH9316
AH9316.The dynamic height is computed by dividing the NAVD 88
AH9316.geopotential number by the normal gravity value computed on the
AH9316.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AH9316.degrees latitude (g = 980.6199 gals.).
AH9316
AH9316.The modeled gravity was interpolated from observed gravity values.
AH9316
AH9316; North East Units Scale Factor Converg.
AH9316;SPC FL E - 335,530.055 194,665.941 MT 0.99994153 -0 01 29.2
AH9316;UTM 17 - 3,026,547.555 494,667.761 MT 0.99960035 -0 01 29.2
AH9316
AH9316! - Elev Factor x Scale Factor = Combined Factor
AH9316!SPC FL E - 1.00000216 x 0.99994153 = 0.99994369

AH9316!UTM 17 - 1.00000216 x 0.99960035 = 0.99960251
AH9316
AH9316: Primary Azimuth Mark Grid Az
AH9316:SPC FL E - KR 1744 180 43 26.5
AH9316:UTM 17 - KR 1744 180 43 26.5
AH9316
AH9316|---|
AH9316| PID Reference Object Distance Geod. Az |
AH9316| dddmmss.s |
AH9316| AH9317 KR 1744 APPROX. 1.6 KM 1804157.3 |
AH9316|---|
AH9316
AH9316 SUPERSEDED SURVEY CONTROL
AH9316
AH9316 NAD 83(1990)- 27 21 43.69618(N) 081 03 14.10414(W) AD( ) 1
AH9316 ELLIP H (06/01/99) -13.77 (m) GP( ) 4 1
AH9316
AH9316.Superseded values are not recommended for survey control.
AH9316.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AH9316.See file dsdata.txt to determine how the superseded data were derived.
AH9316
AH9316_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML9466826548(NAD 83)
AH9316_MARKER: DD = SURVEY DISK
AH9316_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
AH9316_STAMPING: KR 1746 1997
AH9316_MARK LOGO: USE
AH9316_PROJECTION: FLUSH
AH9316_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
AH9316_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AH9316+STABILITY: SURFACE MOTION
AH9316_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AH9316+SATELLITE: SATELLITE OBSERVATIONS - May 08, 2003
AH9316
AH9316 HISTORY - Date Condition Report By
AH9316 HISTORY - 1997 MONUMENTED USE
AH9316 HISTORY - 20011006 GOOD FLDEP
AH9316 HISTORY - 20030508 GOOD BAH
AH9316
AH9316 STATION DESCRIPTION
AH9316
AH9316'DESCRIBED BY US ENGINEERS 1997
AH9316'THE STATION IS ABOUT 15.6 MI (25.1 KM) NORTHWEST OF OKEECHOBEE, 13.7
AH9316'MI (22.0 KM) SOUTHEAST OF LORIDA, 0.15 MI (0.24 KM) SOUTHWEST OF THE
AH9316'KISSIMMEE RIVER CANAL C-38, IN SECTION 08, TOWNSHIP 36 SOUTH, RANGE 33
AH9316'EAST. TO REACH THE STATION FROM THE POST OFFICE IN LORIDA, GO
AH9316'SOUTHEAST ON U.S.HIGHWAY 98 FOR 13.45 MI (21.65 KM) TO JUNCTION OF
AH9316'COUNTY ROAD 721 AT FORT BASINGER AND THE STATION IN THE SOUTHEAST
AH9316'QUADRANT OF THE INTERSECTION, SET IN THE TOP OF A ROUND CONCRETE
AH9316'MONUMENT FLUSH WITH THE GROUND. LOCATED 74 FT (22.6 M) SOUTHEAST OF
AH9316'THE APPROXIMATE CENTERLINE OF THE INTERSECTION, 18.4 FT (5.6 M) EAST
AH9316'OF THE CENTERLINE OF COUNTY ROAD 721, 50.8 FT (15.5 M) SOUTHWEST OF A
AH9316'R/W FENCE CORNER POST, 37.7 FT (11.5 M) SOUTHWEST OF A 4-INCH SQUARE
AH9316'CONCRETE R/W MARKER POST, 44.0 FT (13.4 M) SOUTHEAST OF THE SOUTHEAST
AH9316'END OF AN L-SHAPE CONCRETE CULVERT HEADWALL, NO WITNESS POST.

AH9316'RECOVERABLE WITH MAGNETIC LOCATOR, MAGNETIC SOURCE ADJACENT TO STATION
AH9316'IS UNKNOWN.
AH9316
AH9316 STATION RECOVERY (2001)
AH9316
AH9316'RECOVERY NOTE BY FL DEPT OF ENV PRO 2001 (JLM)
AH9316'THE MARK IS ABOUT 19.3 MI NORTHWEST OF OKEECHOBEE, 13.7 MI SOUTHEAST
AH9316'OF LORIDA, IN
AH9316'SECTION 5, TOWNSHIP 36 SOUTH, RANGE 33 EAST.
AH9316'
AH9316'TO REACH THE MARK FROM THE INTERSECTION OF U.S. HIGHWAY 441 (PARROTT
AH9316'STREET) AND U.S.
AH9316'HIGHWAY 98 (STATE HIGHWAY 70, PARK STREET) IN OKEECHOBEE, GO WEST ON
AH9316'U.S. HIGHWAY 98
AH9316'(STATE HIGHWAY 70, PARK STREET) FOR 1.15 MI TO THE JUNCTION OF U.S.
AH9316'HIGHWAY 98 NORTH ON
AH9316'THE RIGHT, TURN RIGHT ON U.S. HIGHWAY 98 AND GO NORTHWESTERLY FOR 0.65
AH9316'MI TO THE
AH9316'RAILROAD TRACKS, CONTINUE NORTHWESTERLY ON U.S. HIGHWAY 98 FOR 11.9 MI
AH9316'TO THE JUNCTION
AH9316'OF COUNTY ROAD 68 EAST ON THE RIGHT, CONTINUE NORTHWESTERLY ON U.S.
AH9316'HIGHWAY 98 FOR
AH9316'1.85 MI TO THE JUNCTION OF NORTHWEST 176TH AVENUE (COUNTY ROAD 700-A)
AH9316'ON THE RIGHT,
AH9316'CONTINUE NORTHWESTERLY ON U.S. HIGHWAY 98 FOR 3.55 MI TO THE NORTHWEST
AH9316'END OF BRIDGE
AH9316'NUMBER 090016 OVER KISSIMMEE RIVER, CONTINUE SOUTHWESTERLY FOR 0.3 MI
AH9316'TO THE JUNCTION
AH9316'OF COUNTY ROAD 721 ON THE LEFT AND THE MARK ON THE LEFT, SET IN THE
AH9316'TOP OF A ROUND
AH9316'CONCRETE MONUMENT FLUSH WITH THE GROUND AND ABOUT LEVEL WITH U.S.
AH9316'HIGHWAY 98. THE
AH9316'MARK CAN ALSO BE REACHED FROM THE POST OFFICE IN LORIDA, GO SOUTHEAST
AH9316'ON U.S. HIGHWAY
AH9316'98 FOR 3.4 MI TO THE JUNCTION OF COUNTY ROAD 612 ON THE RIGHT,
AH9316'CONTINUE SOUTHEAST ON U.S.
AH9316'HIGHWAY 98 FOR 3.15 MI TO THE NORTH END OF THE BRIDGE OVER THE
AH9316'ISTOKPOGA CANAL,
AH9316'CONTINUE SOUTHEAST ON U.S. HIGHWAY 98 FOR 7.25 MI TO THE JUNCTION OF
AH9316'COUNTY ROAD 721 ON
AH9316'THE RIGHT AND THE MARK ON THE RIGHT, SET IN THE TOP OF A ROUND
AH9316'CONCRETE MONUMENT
AH9316'FLUSH WITH THE GROUND AND ABOUT LEVEL WITH U.S. HIGHWAY 98.
AH9316'
AH9316'LOCATED 81.0 FT SOUTH OF THE CENTERLINE OF U.S. HIGHWAY 98, 74.0 FT
AH9316'SOUTHEAST OF THE
AH9316'APPROXIMATE CENTERLINE OF THE INTERSECTION, 50.8 FOR SOUTHEAST OF A
AH9316'RIGHT-OF-WAY
AH9316'MARKER, 37.7 FT SOUTHWEST OF A RIGHT-OF-WAY MARKER, 32.7 FT WEST OF A
AH9316'CARSONITE WITNESS
AH9316'POST IN THE FENCE LINE AND 18.4 FT EAST OF THE CENTERLINE OF COUNTY
AH9316'ROAD 721.
AH9316'
AH9316'NOTE A MAGNET WAS IMBEDDED IN THE GROUND ON THE SOUTH SIDE OF THE

AH9316'MONUMENT.
AH9316'
AH9316'
AH9316
AH9316 STATION RECOVERY (2003)
AH9316
AH9316'RECOVERY NOTE BY BERRYMAN & HENIGAR 2003 (KAW)
AH9316'RECOVERED IN GOOD CONDITION.

1 National Geodetic Survey, Retrieval Date = APRIL 8, 2005
AH9327 **********
AH9327 DESIGNATION - KR 1495
AH9327 PID - AH9327
AH9327 STATE/COUNTY- FL/OKEECHOBEE
AH9327 USGS QUAD - BASINGER NW (1972)
AH9327
AH9327 *CURRENT SURVEY CONTROL
AH9327 _____
AH9327* NAD 83(1999)- 27 26 28.63306(N) 081 07 29.43157(W) ADJUSTED
AH9327* NAVD 88 - 13.453 (meters) 44.14 (feet) ADJUSTED
AH9327 _____
AH9327 X - 873,931.777 (meters) COMP
AH9327 Y - -5,596,686.425 (meters) COMP
AH9327 Z - 2,921,691.981 (meters) COMP
AH9327 LAPLACE CORR- -1.20 (seconds) DEFLEC99
AH9327 ELLIP HEIGHT- -12.66 (meters) (05/31/01) GPS OBS
AH9327 GEOID HEIGHT- -26.12 (meters) GEOID03
AH9327 DYNAMIC HT - 13.433 (meters) 44.07 (feet) COMP
AH9327 MODELED GRAV- 979,131.8 (mgal) NAVD 88
AH9327
AH9327 HORZ ORDER - FIRST
AH9327 VERT ORDER - SECOND CLASS I
AH9327 ELLP ORDER - FOURTH CLASS I
AH9327
AH9327.The horizontal coordinates were established by GPS observations
AH9327.and adjusted by the National Geodetic Survey in May 2001.
AH9327
AH9327.The orthometric height was determined by differential leveling
AH9327.and adjusted by the National Geodetic Survey in May 2004.
AH9327
AH9327.The X, Y, and Z were computed from the position and the ellipsoidal ht.
AH9327
AH9327.The Laplace correction was computed from DEFLEC99 derived deflections.
AH9327
AH9327.The ellipsoidal height was determined by GPS observations
AH9327.and is referenced to NAD 83.
AH9327
AH9327.The geoid height was determined by GEOID03.
AH9327
AH9327.The dynamic height is computed by dividing the NAVD 88
AH9327.geopotential number by the normal gravity value computed on the
AH9327.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AH9327.degrees latitude (g = 980.6199 gals.).
AH9327
AH9327.The modeled gravity was interpolated from observed gravity values.
AH9327
AH9327; North East Units Scale Factor Converg.
AH9327;SPC FL E - 344,305.058 187,658.266 MT 0.99994306 -0 03 27.1
AH9327;UTM 17 - 3,035,319.564 487,662.477 MT 0.99960188 -0 03 27.1
AH9327
AH9327! - Elev Factor x Scale Factor = Combined Factor
AH9327!SPC FL E - 1.00000199 x 0.99994306 = 0.99994505

AH9327!UTM 17 - 1.00000199 x 0.99960188 = 0.99960387
AH9327
AH9327: Primary Azimuth Mark Grid Az
AH9327:SPC FL E - KR 1496 271 28 06.0
AH9327:UTM 17 - KR 1496 271 28 06.0
AH9327
AH9327|---|
AH9327| PID Reference Object Distance Geod. Az |
AH9327| dddmmss.s |
AH9327| AH9328 KR 1496 APPROX. 0.6 KM 2712438.9 |
AH9327|---|
AH9327
AH9327 SUPERSEDED SURVEY CONTROL
AH9327
AH9327 NAD 83(1990)- 27 26 28.63204(N) 081 07 29.43122(W) AD( ) 1
AH9327
AH9327.Superseded values are not recommended for survey control.
AH9327.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AH9327.See file dsdata.txt to determine how the superseded data were derived.
AH9327
AH9327_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML8766235320(NAD 83)
AH9327_MARKER: DD = SURVEY DISK
AH9327_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
AH9327_STAMPING: KR-1495 GPS 1993
AH9327_MARK LOGO: USE
AH9327_PROJECTION: FLUSH
AH9327_MAGNETIC: O = OTHER; SEE DESCRIPTION
AH9327_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AH9327+STABILITY: SURFACE MOTION
AH9327_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AH9327+SATELLITE: SATELLITE OBSERVATIONS - October 05, 2001
AH9327
AH9327 HISTORY - Date Condition Report By
AH9327 HISTORY - 1993 MONUMENTED USE
AH9327 HISTORY - 20011005 GOOD FLDEP
AH9327
AH9327 STATION DESCRIPTION
AH9327
AH9327'DESCRIBED BY US ENGINEERS 1993
AH9327'THE STATION IS ABOUT 22.3 MI (35.9 KM) NORTHWEST OF OKEECHOBEE, 8.2 MI
AH9327'(13.2 KM) EAST OF LORIDA, 1.3 MI (2.1 KM) NORTHEAST OF KISSIMMEE RIVER
AH9327'CANAL C-38, IN SECTION 09, TOWNSHIP 35 SOUTH, RANGE 32 EAST. TO REACH
AH9327'STATION FROM THE INTERSECTION OF U.S.HIGHWAY 98/441 (PARROT AVE) AND
AH9327'U.S.HIGHWAY 98/STATE HIGHWAY 70 (N PARK ST) IN OKEECHOBEE, GO WEST ON
AH9327'U.S.HIGHWAY 98/STATE HIGHWAY 70 FOR 1.15 MI (1.85 KM) , THEN TURN
AH9327'RIGHT AND CONTINUE NORTHWEST ON U.S.HIGHWAY 98/STATE HIGHWAY 700 FOR
AH9327'15.9 MI (25.6 KM) TO A JUNCTION WITH MICCO BLUFF ROAD (NW 23OTH AVE)
AH9327'AT BASINGER, THEN TURN RIGHT ON MICCO BLUFF ROAD AND GO NORTH FOR 0.2
AH9327'MI (0.3 KM) , THEN TURN LEFT AND CONTINUE NORTHWESTERLY ON MICCO BLUFF
AH9327'ROAD (NW 160TH DR) FOR 6.1 MI (9.8 KM) TO THE END OF THE PAVED ROADWAY
AH9327'AND BEGINNING OF A DIRT ROAD (NW 285TH DR) AND CONTINUING TO THE NORTH
AH9327'NORTHWEST FOR 0.8 MI (1.3 KM) TO STATION ON THE LEFT, SET IN THE TOP
AH9327'OF A ROUND CONCRETE MONUMENT 0.1 FT (3.0 CM) BELOW GROUND LEVEL.
AH9327'LOCATED 32 FT (9.8 M) SOUTHWEST OF THE CENTERLINE OF DIRT ROAD (NW

AH9327'285TH DR) , 21 FT (6.4 M) NORTH OF THE CENTERLINE OF DIRT ROAD LEADING
AH9327'WEST THROUGH GATE 1 TO OAKDALE FARMS, 2.7 FT (0.8 M) SOUTH OF A WOOD
AH9327'CORNER FENCE POST WITH S.FL.W.M.D.WITNESS SIGN ATTACHED AND 2.5 FT
AH9327'(0.8 M) SOUTH OF A U.S.E.CARSONITE WITNESS POST. RECOVERABLE WITH
AH9327'MAGNETIC LOCATOR, MAGNETIC SOURCE UNKNOWN.
AH9327
AH9327 STATION RECOVERY (2001)
AH9327
AH9327'RECOVERY NOTE BY FL DEPT OF ENV PRO 2001 (JLM)
AH9327'THE MARK IS ABOUT 24.9 MI NORTHWEST OF OKEECHOBEE, 7.2 MI NORTHWEST OF
AH9327'BASINGER, ON
AH9327'NORTHWEST 285TH DRIVE, IN SECTION 9, TOWNSHIP 35 SOUTH, RANGE 32 EAST.
AH9327'TO REACH THE MARK FROM THE INTERSECTION OF U.S. HIGHWAY 441 (PARROTT
AH9327'STREET) AND U.S.
AH9327'HIGHWAY 98 (STATE HIGHWAY 70, PARK STREET) IN OKEECHOBEE, GO WEST ON
AH9327'U.S. HIGHWAY 98
AH9327'(STATE HIGHWAY 70, PARK STREET) FOR 1.15 MI TO THE JUNCTION OF U.S.
AH9327'HIGHWAY 98 NORTH ON
AH9327'THE RIGHT, TURN RIGHT ON U.S. HIGHWAY 98 AND GO NORTHWESTERLY FOR 0.65
AH9327'MI TO THE
AH9327'RAILROAD TRACKS, CONTINUE NORTHWESTERLY ON U.S. HIGHWAY 98 FOR 11.9 MI
AH9327'TO THE JUNCTION
AH9327'OF COUNTY ROAD 68 EAST ON THE RIGHT, CONTINUE NORTHWESTERLY ON U.S.
AH9327'HIGHWAY 98 FOR
AH9327'1.85 MI TO THE JUNCTION OF NORTHWEST 176TH AVENUE (COUNTY ROAD 700-A)
AH9327'ON THE RIGHT,
AH9327'CONTINUE NORTHWESTERLY ON U.S. HIGHWAY 98 FOR 1.7 MI TO THE JUNCTION
AH9327'OF NORTHWEST
AH9327'203RD AVENUE (MICCO BLUFF ROAD) ON THE RIGHT, TURN RIGHT ON NORTHWEST
AH9327'203RD AVENUE
AH9327'(MICCO BLUFF ROAD) AND GO NORTH-NORTHWESTERLY FOR 0.2 MI TO THE
AH9327'JUNCTION OF NORTHWEST
AH9327'160TH DRIVE (MICCO BLUFF ROAD, COUNTY ROAD 68), TURN LEFT ON NORTHWEST
AH9327'160TH DRIVE
AH9327'(MICCO BLUFF ROAD, COUNTY ROAD 68) AND GO WEST-NORTHWESTERLY FOR 6.15
AH9327'MI TO THE END OF
AH9327'THE PAVED ROAD AND THE JUNCTION OF A DIRT ROAD LEADING NORTHWEST AND
AH9327'THE BEGINNING OF
AH9327'NORTHWEST 285TH DRIVE (A DIRT ROAD LEADING NORTHWESTERLY), BEAR RIGHT
AH9327'ON NORTHWEST
AH9327'285TH DRIVE AND GO NORTHWESTERLY FOR 0.8 MI TO THE JUNCTION OF A DIRT
AH9327'ROAD ON THE LEFT
AH9327'LEADING WEST THROUGH A GATE AND THE MARK ON THE LEFT, SET IN THE TOP
AH9327'OF A ROUND
AH9327'CONCRETE MONUMENT FLUSH WITH THE GROUND AND ABOUT 0.5 FT BELOW THE
AH9327'LEVEL OF
AH9327'NORTHWEST 285TH DRIVE.
AH9327'
AH9327'LOCATED 32.0 FT SOUTHWEST OF THE APPROXIMATE CENTERLINE OF THE ROAD,
AH9327'21.5 FT NORTH OF
AH9327'THE APPROXIMATE CENTERLINE OF THE ROAD LEADING WEST THROUGH GATE
AH9327'NUMBER 1 TO
AH9327'OAKDALE FARMS AND 2.6 FT SOUTHEAST OF A CARSONITE WITNESS POST.
AH9327'

AH9327'NOTE THE MARK WAS RECOVERED WITH A MAGNETIC LOCATOR.
AH9327'
AH9327'

1 National Geodetic Survey, Retrieval Date = APRIL 8, 2005
AH9325 ***
AH9325 DESIGNATION - 343334 2
AH9325 PID - AH9325
AH9325 STATE/COUNTY- FL/OKEECHOBEE
AH9325 USGS QUAD - BASINGER (1972)
AH9325
AH9325 *CURRENT SURVEY CONTROL
AH9325 _____
AH9325* NAD 83(1999)- 27 27 54.32594(N) 081 00 27.28064(W) ADJUSTED
AH9325* NAVD 88 - 17.151 (meters) 56.27 (feet) ADJUSTED
AH9325 _____
AH9325 X - 885,194.794 (meters) COMP
AH9325 Y - -5,593,688.107 (meters) COMP
AH9325 Z - 2,924,034.273 (meters) COMP
AH9325 LAPLACE CORR- -1.37 (seconds) DEFLEC99
AH9325 ELLIP HEIGHT- -9.10 (meters) (05/31/01) GPS OBS
AH9325 GEOID HEIGHT- -26.26 (meters) GEOID03
AH9325 DYNAMIC HT - 17.126 (meters) 56.19 (feet) COMP
AH9325 MODELED GRAV- 979,145.7 (mgal) NAVD 88
AH9325
AH9325 HORZ ORDER - FIRST
AH9325 VERT ORDER - SECOND CLASS I
AH9325 ELLP ORDER - FOURTH CLASS I
AH9325
AH9325.The horizontal coordinates were established by GPS observations
AH9325.and adjusted by the National Geodetic Survey in May 2001.
AH9325
AH9325.The orthometric height was determined by differential leveling
AH9325.and adjusted by the National Geodetic Survey in January 2002.
AH9325
AH9325.The X, Y, and Z were computed from the position and the ellipsoidal ht.
AH9325
AH9325.The Laplace correction was computed from DEFLEC99 derived deflections.
AH9325
AH9325.The ellipsoidal height was determined by GPS observations
AH9325.and is referenced to NAD 83.
AH9325
AH9325.The geoid height was determined by GEOID03.
AH9325
AH9325.The dynamic height is computed by dividing the NAVD 88
AH9325.geopotential number by the normal gravity value computed on the
AH9325.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AH9325.degrees latitude (g = 980.6199 gals.).
AH9325
AH9325.The modeled gravity was interpolated from observed gravity values.
AH9325
AH9325; North East Units Scale Factor Converg.
AH9325;SPC FL E - 346,936.420 199,251.014 MT 0.99994118 -0 00 12.6
AH9325;UTM 17 - 3,037,950.028 499,251.270 MT 0.99960001 -0 00 12.6
AH9325
AH9325! - Elev Factor x Scale Factor = Combined Factor
AH9325!SPC FL E - 1.00000143 x 0.99994118 = 0.99994261

AH9325!UTM 17 - 1.00000143 x 0.99960001 = 0.99960144
AH9325
AH9325 SUPERSEDED SURVEY CONTROL
AH9325
AH9325 NAD 83(1990)- 27 27 54.32505(N) 081 00 27.28028(W) AD( ) 1
AH9325 ELLIP H (06/01/99) -9.06 (m) GP( ) 4 1
AH9325
AH9325.Superseded values are not recommended for survey control.
AH9325.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AH9325.See file dsdata.txt to determine how the superseded data were derived.
AH9325
AH9325_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML9925137950(NAD 83)
AH9325_MARKER: DD = SURVEY DISK
AH9325_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
AH9325_STAMPING: 343334 2 9824 1998
AH9325_MARK LOGO: DENI
AH9325_MAGNETIC: N = NO MAGNETIC MATERIAL
AH9325_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AH9325+STABILITY: SURFACE MOTION
AH9325_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AH9325+SATELLITE: SATELLITE OBSERVATIONS - September 23, 2000
AH9325
AH9325 HISTORY - Date Condition Report By
AH9325 HISTORY - 1998 MONUMENTED DENI
AH9325 HISTORY - 20000923 GOOD FLDEP
AH9325
AH9325 STATION DESCRIPTION
AH9325
AH9325'DESCRIBED BY DENI ASSOCIATES INCORPORATED 1998 (RLW)
AH9325'THE STATION IS ABOUT 18.5 MI (29.8 KM) NORTHWEST OF OKEECHOBEE, 15.5
AH9325'MI (24.9 KM) EAST OF LORIDA, 7.1 MI (11.4 KM) NORTHEAST OF KISSIMMEE
AH9325'RIVER CANAL C-38 IN SECTION 34, TOWNSHIP 34 SOUTH, RANGE 33 EAST. TO
AH9325'REACH STATION FROM THE INTERSECTION OF U.S.HIGHWAY 98/441 (PARROT AVE)
AH9325'AND U.S.HIGHWAY 98/STATE HIGHWAY 70 (N PARK ST) IN OKEECHOBEE, GO WEST
AH9325'ON U.S.HIGHWAY 98/STATE HIGHWAY 70 1.15 MI (1.85 KM) , THEN TURN RIGHT
AH9325'AND CONTINUE NORTHWEST ON U.S.HIGHWAY 98/STATE ROAD 700 14.1 MI (22.7
AH9325'KM) TO THE JUNCTION WITH COUNTY ROAD 700A/DURRANCE ROAD (NW 176TH AVE)
AH9325', THEN TURN RIGHT AND PROCEED NORTH 5.5 MI (8.9 KM) TO A JUNCTION WITH
AH9325'COUNTY ROAD 724 (NW 220TH ST) , THEN TURN LEFT AND PROCEED WEST FOR
AH9325'115 FT (35.1 M) TO THE STATION ON THE RIGHT, AN ALUMINUM GPS SURVEY
AH9325'MARK DISK SET IN THE TOP OF A ROUND CONCRETE MONUMENT 0.2 FT (6.1 CM)
AH9325'BELOW GROUND LEVEL. LOCATED 16 FT (4.9 M) NORTH OF THE CENTERLINE OF
AH9325'COUNTY ROAD 724 (NW 220TH ST) , 115.0 FT (35.1 M) WEST OF THE
AH9325'CENTERLINE EXTENDED OF COUNTY ROAD 700A (NW 176TH AVE) , 28.6 FT (8.7
AH9325'M) WEST OF THE WEST END OF A CONCRETE HEADWALL TO A CULVERT UNDER
AH9325'COUNTY ROAD 724, 44 FT (13.4 M) EAST OF THE CENTERLINE OF A SAND DRIVE
AH9325'LEADING NORTH, 17.6 FT (5.4 M) SOUTHEAST OF THE CONCRETE WESTMOST
AH9325'GUARDRAIL POST, 2.6 FT (0.8 M) SOUTH OF A N.G.S.CARSONITE WITNESS POST
AH9325'AT GUARDRAIL.
AH9325
AH9325 STATION RECOVERY (2000)
AH9325
AH9325'RECOVERY NOTE BY FL DEPT OF ENV PRO 2000 (JLM)
AH9325'THE MARK IS ABOUT 34.5 MI (55.5 KM) SOUTHEAST OF SEBRING, 17.0 MI

AH9325'(27.4 KM) NORTHWEST OF OKEECHOBEE, 16.0 MI (25.7 KM) SOUTHWEST OF FORT
AH9325'DRUM AT THE JUNCTION OF COUNTY ROAD 700-A AND COUNTY ROAD 724, IN
AH9325'SECTION 34, TOWNSHIP 34 SOUTH, RANGE 33 EAST. TO REACH THE MARK FROM
AH9325'THE INTERSECTION OF U.S. HIGHWAY 441 (PARROTT STREET) AND U.S.
AH9325'HIGHWAY 98 (STATE HIGHWAY 70, PARK STREET) IN OKEECHOBEE, GO WEST ON
AH9325'U.S. HIGHWAY 98 (STATE HIGHWAY 70, PARK STREET) FOR 1.15 MI (1.85 KM)
AH9325'TO THE JUNCTION OF U.S. HIGHWAY 98 NORTH ON THE RIGHT, TURN RIGHT ON
AH9325'U.S. HIGHWAY 98 AND GO NORTHWESTERLY FOR 0.65 MI (1.05 KM) TO THE
AH9325'RAILROAD TRACK, CONTINUE NORTHWESTERLY ON U.S. HIGHWAY 98 FOR 11.9 MI
AH9325'(19.2 KM) TO THE JUNCTION OF COUNTY ROAD 68 EAST ON THE RIGHT,
AH9325'CONTINUE NORTHWESTERLY ON U.S. HIGHWAY 98 FOR 1.85 MI (2.98 KM) TO
AH9325'THE JUNCTION OF COUNTY ROAD 700-A ON THE RIGHT, TURN RIGHT ON COUNTY
AH9325'ROAD 700-A AND GO NORTH FOR 5.4 MI (8.7 KM) TO THE JUNCTION OF COUNTY
AH9325'ROAD 724 AND THE MARK ON THE LEFT, SET IN THE TOP OF A ROUND CONCRETE
AH9325'MONUMENT RECESSED 1.0 FT (0.3 M) BELOW THE LEVEL OF THE GROUND AND 0.6
AH9325'FT (18.3 CM) BELOW THE LEVEL OF COUNTY ROAD 724. THE MARK CAN ALSO BE
AH9325'REACHED FROM THE JUNCTION OF STATE ROAD 70 (PARK STREET) AND U.S.
AH9325'HIGHWAY 441 (PARROTT STREET) IN OKEECHOBEE, GO NORTH ON U.S. HIGHWAY
AH9325'441 (PARROTT STREET) FOR 14.4 MI (23.2 KM) TO THE JUNCTION OF COUNTY
AH9325'ROAD 68 ON THE RIGHT, CONTINUE NORTH ON U.S. HIGHWAY 441 FOR 1.0 MI
AH9325'(1.6 KM) TO THE JUNCTION OF COUNTY ROAD 724 (NW 240TH STREET) ON THE
AH9325'LEFT, TURN LEFT ON COUNTY ROAD 724 (NW 240TH STREET) AND GO WEST FOR
AH9325'12.2 MI (19.6 KM) TO THE JUNCTION OF COUNTY ROAD 700-A (NW 176TH
AH9325'AVENUE) ON THE LEFT AND THE MARK ON THE RIGHT. LOCATED 117.5 FT (35.8
AH9325'M) WEST OF THE CENTERLINE OF NORTHWEST 176TH AVENUE, 18.9 FT (5.8 M)
AH9325'EAST OF THE WEST END OF A METAL GUARDRAIL, 17.7 FT (5.4 M) NORTH OF
AH9325'THE CENTERLINE OF COUNTY ROAD 724, 2.4 FT (0.7 M) SOUTH OF A CARSONITE
AH9325'WITNESS POST AND 2.0 FT (0.6 M) SOUTH OF A METAL GUARDRAIL.

1 National Geodetic Survey, Retrieval Date = APRIL 8, 2005
AJ6095 **********
AJ6095 DESIGNATION - KR 1631 GPS
AJ6095 PID - AJ6095
AJ6095 STATE/COUNTY- FL/OKEECHOBEE
AJ6095 USGS QUAD - BASINGER (1972)
AJ6095
AJ6095 *CURRENT SURVEY CONTROL
AJ6095 _____
AJ6095* NAD 83(1986)- 27 23 05. (N) 080 59 59. (W) SCALED
AJ6095* NAVD 88 - 12.497 (meters) 41.00 (feet) ADJUSTED
AJ6095 _____
AJ6095 GEOID HEIGHT- -26.29 (meters) GEOID03
AJ6095 DYNAMIC HT - 12.478 (meters) 40.94 (feet) COMP
AJ6095 MODELED GRAV- 979,128.6 (mgal) NAVD 88
AJ6095
AJ6095 VERT ORDER - SECOND CLASS I
AJ6095
AJ6095.The horizontal coordinates were scaled from a topographic map and have
AJ6095.an estimated accuracy of +/- 6 seconds.
AJ6095
AJ6095.The orthometric height was determined by differential leveling
AJ6095.and adjusted by the National Geodetic Survey in January 2002.
AJ6095
AJ6095.The geoid height was determined by GEOID03.
AJ6095
AJ6095.The dynamic height is computed by dividing the NAVD 88
AJ6095.geopotential number by the normal gravity value computed on the
AJ6095.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AJ6095.degrees latitude (g = 980.6199 gals.).
AJ6095
AJ6095.The modeled gravity was interpolated from observed gravity values.
AJ6095
AJ6095; North East Units Estimated Accuracy
AJ6095;SPC FL E - 338,030. 200,030. MT (+/- 180 meters Scaled)
AJ6095
AJ6095 SUPERSEDED SURVEY CONTROL
AJ6095
AJ6095.No superseded survey control is available for this station.
AJ6095
AJ6095_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNL000290(NAD 83)
AJ6095_MARKER: DD = SURVEY DISK
AJ6095_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
AJ6095_STAMPING: GPS KR 1631 JAX C/E 94
AJ6095_MARK LOGO: USE
AJ6095_MAGNETIC: N = NO MAGNETIC MATERIAL
AJ6095_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AJ6095+STABILITY: SURFACE MOTION
AJ6095_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AJ6095+SATELLITE: SATELLITE OBSERVATIONS - September 23, 2000
AJ6095
AJ6095 HISTORY - Date Condition Report By
AJ6095 HISTORY - 1994 MONUMENTED USE

AJ6095 HISTORY - 20000923 GOOD FLDEP
AJ6095
AJ6095 STATION DESCRIPTION
AJ6095
AJ6095'DESCRIBED BY FL DEPT OF ENV PRO 2000 (JLM)
AJ6095'THE MARK IS ABOUT 34.3 MI (55.2 KM) SOUTHEAST OF SEBRING, 15.1 MI
AJ6095'(24.3 KM) NORTHWEST OF OKEECHOBEE ON U.S. HIGHWAY 98, IN SECTION 35,
AJ6095'TOWNSHIP 35 SOUTH, RANGE 33 EAST. TO REACH THE MARK FROM THE
AJ6095'INTERSECTION OF U.S. HIGHWAY 441 (PARROTT STREET) AND U.S. HIGHWAY
AJ6095'98 (STATE HIGHWAY 70, PARK STREET) IN OKEECHOBEE, GO WEST ON U.S.
AJ6095'HIGHWAY 98, (STATE HIGHWAY 70, PARK STREET) FOR 1.15 MI (1.85 KM) TO
AJ6095'THE JUNCTION OF U.S. HIGHWAY 98 NORTH ON THE RIGHT, TURN RIGHT ON
AJ6095'U.S. HIGHWAY 98 AND GO NORTHWESTERLY FOR 0.65 MI (1.05 KM) TO THE
AJ6095'RAILROAD TRACKS, CONTINUE NORTHWESTERLY ON U.S. HIGHWAY 98 FOR 11.9
AJ6095'MI (19.2 KM) TO THE JUNCTION OF COUNTY ROAD 68 EAST ON THE RIGHT,
AJ6095'CONTINUE NORTHWESTERLY ON U.S. HIGHWAY 98 FOR 1.15 MI (1.85 KM) TO
AJ6095'THE MARK ON THE RIGHT, SET IN THE TOP OF A ROUND CONCRETE MONUMENT
AJ6095'RECESSED 0.1 FT (3.0 CM) BELOW THE LEVEL OF THE GROUND AND 2.0 FT (0.6
AJ6095'M) BELOW THE LEVEL OF U.S. HIGHWAY 98. LOCATED 245.0 FT (74.7 M) EAST
AJ6095'OF THE EXTENDED CENTERLINE OF A DRIVEWAY AT 16525, 106.2 FT (32.4 M)
AJ6095'EAST OF THE CENTER OF A FIELD ENTRANCE ROAD AND METAL GATE, 43.0 FT
AJ6095'(13.1 M) NORTH OF THE CENTERLINE OF U.S. HIGHWAY 98, 18.4 FT (5.6 M)
AJ6095'SOUTH OF A HOG WIRE FENCE AND 16.6 FT (5.1 M) SOUTH OF A CARSONITE
AJ6095'WITNESS POST.

1 National Geodetic Survey, Retrieval Date = APRIL 8, 2005
AH9319 ***
AH9319 DESIGNATION - KR 1625 GPS
AH9319 PID - AH9319
AH9319 STATE/COUNTY- FL/OKEECHOBEE
AH9319 USGS QUAD - FORT BASINGER (1972)
AH9319
AH9319 *CURRENT SURVEY CONTROL
AH9319 _____
AH9319* NAD 83(1999)- 27 18 47.10108(N) 081 01 29.14134(W) ADJUSTED
AH9319* NAVD 88 - 10.031 (meters) 32.91 (feet) ADJUSTED
AH9319 _____
AH9319 X - 884,725.023 (meters) COMP
AH9319 Y - -5,601,600.894 (meters) COMP
AH9319 Z - 2,909,075.348 (meters) COMP
AH9319 LAPLACE CORR- -2.34 (seconds) DEFLEC99
AH9319 ELLIP HEIGHT- -16.20 (meters) (05/31/01) GPS OBS
AH9319 GEOID HEIGHT- -26.22 (meters) GEOID03
AH9319 DYNAMIC HT - 10.016 (meters) 32.86 (feet) COMP
AH9319 MODELED GRAV- 979,112.3 (mgal) NAVD 88
AH9319
AH9319 HORZ ORDER - FIRST
AH9319 VERT ORDER - SECOND CLASS I
AH9319 ELLP ORDER - FOURTH CLASS I
AH9319
AH9319.The horizontal coordinates were established by GPS observations
AH9319.and adjusted by the National Geodetic Survey in May 2001.
AH9319
AH9319.The orthometric height was determined by differential leveling
AH9319.and adjusted by the National Geodetic Survey in May 2004.
AH9319.No vertical observational check was made to the station.
AH9319
AH9319.The X, Y, and Z were computed from the position and the ellipsoidal ht.
AH9319
AH9319.The Laplace correction was computed from DEFLEC99 derived deflections.
AH9319
AH9319.The ellipsoidal height was determined by GPS observations
AH9319.and is referenced to NAD 83.
AH9319
AH9319.The geoid height was determined by GEOID03.
AH9319
AH9319.The dynamic height is computed by dividing the NAVD 88
AH9319.geopotential number by the normal gravity value computed on the
AH9319.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AH9319.degrees latitude (g = 980.6199 gals.).
AH9319
AH9319.The modeled gravity was interpolated from observed gravity values.
AH9319
AH9319; North East Units Scale Factor Converg.
AH9319;SPC FL E - 330,093.796 197,549.289 MT 0.99994125 -0 00 40.9
AH9319;UTM 17 - 3,021,113.151 497,550.125 MT 0.99960007 -0 00 40.9
AH9319
AH9319! - Elev Factor x Scale Factor = Combined Factor

AH9319!SPC FL E - 1.00000254 x 0.99994125 = 0.99994379
AH9319!UTM 17 - 1.00000254 x 0.99960007 = 0.99960261
AH9319
AH9319: Primary Azimuth Mark Grid Az
AH9319:SPC FL E - KR 1626 GPS 243 21 02.3
AH9319:UTM 17 - KR 1626 GPS 243 21 02.3
AH9319
AH9319|---|
AH9319| PID Reference Object Distance Geod. Az |
AH9319| dddmmss.s |
AH9319| AH9318 KR 1626 GPS APPROX. 1.1 KM 2432021.4 |
AH9319|---|
AH9319
AH9319 SUPERSEDED SURVEY CONTROL
AH9319
AH9319 NAD 83(1990)- 27 18 47.10008(N) 081 01 29.14064(W) AD( ) 1
AH9319 ELLIP H (06/01/99) -16.19 (m) GP( ) 4 1
AH9319
AH9319.Superseded values are not recommended for survey control.
AH9319.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AH9319.See file dsdata.txt to determine how the superseded data were derived.
AH9319
AH9319_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML9755021113(NAD 83)
AH9319_MARKER: DD = SURVEY DISK
AH9319_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
AH9319_STAMPING: KR 1625 GPS 1994 JAX C/E
AH9319_MARK LOGO: USE
AH9319_PROJECTION: FLUSH
AH9319_MAGNETIC: N = NO MAGNETIC MATERIAL
AH9319_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AH9319+STABILITY: SURFACE MOTION
AH9319_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AH9319+SATELLITE: SATELLITE OBSERVATIONS - May 08, 2003
AH9319
AH9319 HISTORY - Date Condition Report By
AH9319 HISTORY - 1994 MONUMENTED USE
AH9319 HISTORY - 20010908 GOOD FLDEP
AH9319 HISTORY - 20030508 GOOD BAH
AH9319
AH9319 STATION DESCRIPTION
AH9319
AH9319'DESCRIBED BY US ENGINEERS 1994
AH9319'THE STATION IS ABOUT 12.4 MI (20.0 KM) NORTHWEST OF OKEECHOBEE, 16.9
AH9319'MI (27.2 KM) SOUTHEAST OF LORIDA, 0.1 MI (0.2 KM) SOUTHWEST OF THE
AH9319'KISSIMMEE RIVER CANAL C-38, IN SECTION 33, TOWNSHIP 36 SOUTH, RANGE 33
AH9319'EAST. TO REACH THE STATION FROM THE POST OFFICE IN LORIDA, GO
AH9319'SOUTHEAST ON U.S.HIGHWAY 98 FOR 13.45 MI (21.65 KM) TO A JUNCTION WITH
AH9319'COUNTY ROAD 721 AT FORT BASINGER, THEN TURN RIGHT AND PROCEED SOUTH ON
AH9319'COUNTY ROAD 721 FOR 3.35 MI (5.39 KM) TO A JUNCTION WITH UNPAVED
AH9319'UNDERHILL ROAD, THEN TURN LEFT ON UNDERHILL ROAD AND PROCEED EASTERLY
AH9319'AND SOUTHEASTERLY FOR 1.35 MI (2.17 KM) TO A JUNCTION WITH 65-D ACCESS
AH9319'ROAD TO THE NORTHEAST, THEN TURN LEFT AND PROCEED NORTHEAST ON 65-D
AH9319'ACCESS ROAD FOR 0.5 MI (0.8 KM) TO A GAGING STATION AND CONTROL
AH9319'STRUCTURE CROSSING, THEN CONTINUE 0.2 MI (0.3 KM) TO THE STATION ON

AH9319'THE RIGHT, SET IN THE TOP OF A ROUND CONCRETE MONUMENT 0.2 FT (6.1 CM)
AH9319'BELOW GROUND LEVEL. LOCATED 267.5 FT (81.5 M) EAST OF THE SOUTHEAST
AH9319'CORNER OF THE FENCE ENCLOSING A S.FL.W.M.D.COMMUNICATIONS ANTENNA
AH9319'TOWER, 38.0 FT (11.6 M) SOUTHEAST OF THE CENTERLINE OF 65-D ACCESS
AH9319'ROAD, 47.1 FT (14.4 M) NORTHEAST OF A BRACED WOOD R/W FENCE CORNER
AH9319'POST WITH WITNESS SIGN, 45.07 FT (13.74 M) NORTHEAST OF KR 1357 AZ MK
AH9319'SURVEY DISK (U.S.E.) IN A CONCRETE MONUMENT, 46.6 FT (14.2 M)
AH9319'NORTHEAST OF A S.FL.W.M.D.METAL WITNESS POST, AND 3.0 FT (0.9 M)
AH9319'NORTHWEST OF A N.G.S.CARSONITE WITNESS POST. RECOVERABLE WITH
AH9319'MAGNETIC LOCATOR, MAGNETIC SOURCE UNKNOWN.
AH9319
AH9319 STATION RECOVERY (2001)
AH9319
AH9319'RECOVERY NOTE BY FL DEPT OF ENV PRO 2001 (JLM)
AH9319'RECOVERED AS DESCRIBED.
AH9319'
AH9319'
AH9319'
AH9319'
AH9319'
AH9319'
AH9319'
AH9319'
AH9319'
AH9319'
AH9319'
AH9319
AH9319 STATION RECOVERY (2003)
AH9319
AH9319'RECOVERY NOTE BY BERRYMAN & HENIGAR 2003 (KAW)
AH9319'RECOVERED IN GOOD CONDITION.

NEO 111 0003 350145.314 179205.957 14.314 FLE0901 m 0
NEO 111 0004 342542.873 178816.320 16.009 FLE0901 m 0
NEO 111 0005 338893.569 185298.647 12.228 FLE0901 m 0
NEO 111 0006 321598.849 194654.607 9.485 FLE0901 m 0
NEO 111 0009 344305.059 187658.266 13.453 FLE0901 m 0
NEO 111 0015 348761.751 184852.914 15.069 FLE0901 m 0
NEO 111 0020 346936.421 199251.014 17.151 FLE0901 m 0
NEO 111 0024 330093.797 197549.289 10.031 FLE0901 m 0

NEO 001 0007 331426.141 194663.214 11.674 FLE0901 m 0
NEO 001 0001 352129.618 181575.755 14.656 FLE0901 m 0
NEO 001 0021 338000.688 200194.786 12.497 FLE0901 m 0

NEO 000 0055 324888.455 214324.577 12.929 FLE0901 m 0

02_PC61
NEO 000 PC61TBM2 351356.181 180618.625 12.679 FLE0901 m 0
NEO 000 0002 351356.313 180620.112 12.322 FLE0901 m 0

04_KRCF
NEO 000 0016 349779.914 181640.172 12.011 FLE0901 m 0
NEO 000 KRCFTBM1 349779.927 181639.340 12.253 FLE0901 m 0
NEO 000 KRCFTBM2 349775.479 181642.270 12.219 FLE0901 m 0

05_KRCN
NEO 000 0017 349663.669 181437.666 12.090 FLE0901 m 0
NEO 000 KRCNTBM1 349659.115 181439.859 12.296 FLE0901 m 0

06_KRDR
07_KRDN
08_KRDF

NEO 000 0018 349195.206 180440.994 12.114 FLE0901 m 0
NEO 000 KRDRTBM1 349252.210 180498.418 12.284 FLE0901 m 0
NEO 000 KRDFTBM1 349096.681 180491.764 12.715 FLE0901 m 0
NEO 000 0019 349095.923 180489.783 12.094 FLE0901 m 0

09_KRAF
NEO 000 KRAFTBM1 346905.539 183738.924 12.767 FLE0901 m 0
NEO 000 0013 346905.382 183733.534 11.715 FLE0901 m 0 NAVD88

10_PC42
NEO 000 0014 346897.677 183885.883 11.593 FLE0901 m 0
NEO 000 PC42TBM1 346895.790 183884.917 11.953 FLE0901 m 0

11_KRAN
NEO 000 KRANTBM2 346704.040 183467.152 12.462 FLE0901 m 0
NEO 000 0012 346699.819 183473.013 11.620 FLE0901 m 0

12_KRBN
NEO 000 KRBNTBM1 346529.237 183083.026 12.167 FLE0901 m 0
NEO 000 0011 346528.656 183087.177 11.742 FLE0901 m 0

13_KRBF

NEO	000	0010	346430.671	182949.205	11.665	FLE0901 m	0
NEO	000	KRBFTBM2	346434.268	182946.385	11.943	FLE0901 m	0

18_C38BAS

NEO	000	0008	335530.159	194665.976	12.293	FLE0901 m	0

19_PD03F

NEO	000	PD03TBM2	335102.124	197066.411	9.156	FLE0901 m	0
NEO	000	0022	335100.253	197072.528	8.515	FLE0901 m	0

21_PD01F

NEO	000	PD01FTBM2	331461.734	195822.424	9.139	FLE0901 m	0
NEO	000	0023	331464.730	195840.066	8.302	FLE0901 m	0