

Appendix F
Data Processing Logs



FORM 6-5 DATA PROCESSING LOG

SITE: Fort Ord

Survey Date: April 25, 2006

Sensor: Mag Cart

AREA: ODDS U1, U2, K1, K2

Crew: CN, JF, VV

Sensor Verification QC Log

042506_FORM_62.xls

Navigation Verification QC Log

042506_FORM_61.xls

Navigation Correction

Mag Sensor Offsets:

Mag 1 x = 0m, y = 0m

Mag 2 x = .61m, y = -.61m

Lag Correction:

Mag 1 = 1 fiducial

Mag 2 = 2 fiducials

Data Cataloging and Coordinate Conversion

Initial GPS NMEA output: WGS84 Geographic (lat/lon)

MagMap conversion: WGS84 Geographic -> UTM Zone 10N (meters)

Geosoft conversion: UTM Zone 10N -> California State Plane Zone 4, US Survey Foot

Final: California State Plane Zone 4, US Survey Foot

Data Leveling / Diurnal Correction

None, diurnal observations were made but were not used in data processing.

See data file 042506_base.stn

Data Filtering

Dropouts were removed in Magmap2000.

Additional despiking was done in Geosoft using a non-linear filter:

NLFILT.WIDTH= 1

NLFILT.TOLERANCE=0.0

GX nlfilt.gx

Additional spikes were removed manually. Data was interpolated using minimum curvature in Geosoft:

Interp.Method="Minimum Curvature"

Interp.Edge="No"

interp.gx

Initial Review

Initial field data files are valid. Appropriate data files are included.

Data Location Plot Review

Data covers planned survey area. Please see QC file 042506_FORM_61.xls for details.

Comments

Four ODDS plots were surveyed in one sweep in order to minimize the frequency of turn arounds with the Mag cart. This was done to expedite the ODDS survey. The final processed data is separated into individual plots. Please see the header for each data file for more information.

Shaw GP:

cn 05/01/06

Init. Date

Shaw QC

Init Date

Field log files:

042506_FADL.pdf

Field data files:

left1.bin right1.bin

left2.bin right2.bin

left3.bin right3.bin

leftqc.bin rightqc.bin

leftaz.bin rightaz.bin

Initial (x,y,z) files:

ODDS_MAG_raw.xyz

Processed (x,y,z) files:

U1_mag_proc.xyz

U2_mag_proc.xyz

K1_mag_proc.xyz

K2_mag_proc.xyz

Target files:

U1_targets_mag_tf.xyz

U1_targets_mag.xyz

U2_targets_mag_tf.xyz

U2_targets_mag.xyz

K1_targets_mag_tf.xyz

K1_targets_mag.xyz

K2_targets_mag_tf.xyz

K2_targets_mag.xyz



FORM 6-5 DATA PROCESSING LOG

SITE: Fort Ord

Survey Date: April 27, 2006

Sensor: EM61MK2 Towed Array

AREA: ODDS U1, U2, K1, K2

Crew: CN, JF, VV

Sensor Verification QC Log

042706_FORM_62.xls

Navigation Verification QC Log

042706_FORM_61.xls

Navigation Correction

EM Offsets:

EM1 x = 0m, y = 0m

EM2 x = .61m, y = -.61m

EM3 x = -.61m, y = -.61m

Lag Correction:

EM1 = 0 fids

EM2 = 2.5

EM3 = 4.5

Data Cataloging and Coordinate Conversion

Initial GPS NMEA output: WGS84 Geographic (lat/lon)

MagMap conversion: WGS84 Geographic -> UTM Zone 10N (meters)

Geosoft conversion: UTM Zone 10N -> California State Plane Zone 4, US Survey Foot

Final: California State Plane Zone 4, US Survey Foot

Data Leveling / Diurnal Correction

Geosoft GX: uxdrift.gx

Parameters: UXDRIFT.LOW=10

UXDRIFT.HIGH=60

UXDRIFT.BLOCK=100

Note: The same drift correction was applied to all lines and all sensors.

Data Filtering

None

Initial Review

Initial field data files are valid. Appropriate data files are included.

Data Location Plot Review

Data covers planned survey area. Please see QC file 042706_FORM_61.xls for details.

Comments

Four ODDS plots were surveyed in one sweep in order to minimize the frequency of turn arounds with the towed array. This was done to expedite the ODDS survey. The final processed data is separated into individual plots. Please see the header for each data file for more information.

Shaw GP:

cn 05/01/06

Init. Date

Shaw QC

Init Date

Field log files:

042706_FADL.pdf

Field data files:

042706a.Survey

042706b.Survey

042706c.Survey

042706d.Survey

042706e.Survey

042706z.Survey

Initial (x,y,z) files:

ODDS_EM_raw.xyz

Processed (x,y,z) files:

U1_em_proc.xyz

U2_em_proc.xyz

K1_em_proc.xyz

K2_em_proc.xyz

Target files:

U1_targets.xyz

U2_targets.xyz

K1_targets.xyz

K2_targets.xyz