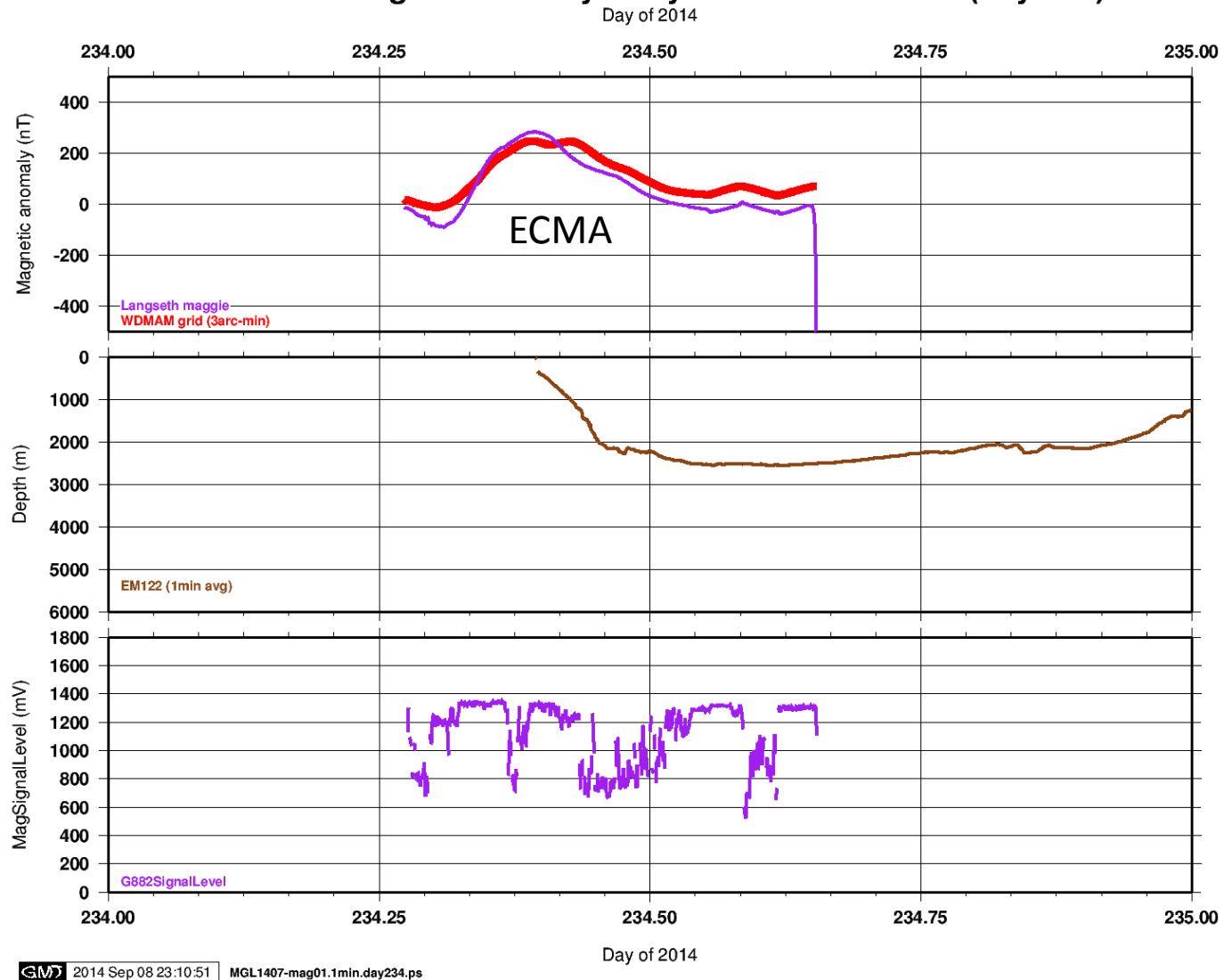


MGL1407 Daily Magnetism Plots
G-882 (SN 882462)
August 26- September 11, 2014 (Julian Days 234-254)

The following pages show the daily magnetism plots done as part of the daily quality control. One day (UTC time) is shown per page, with annotation.

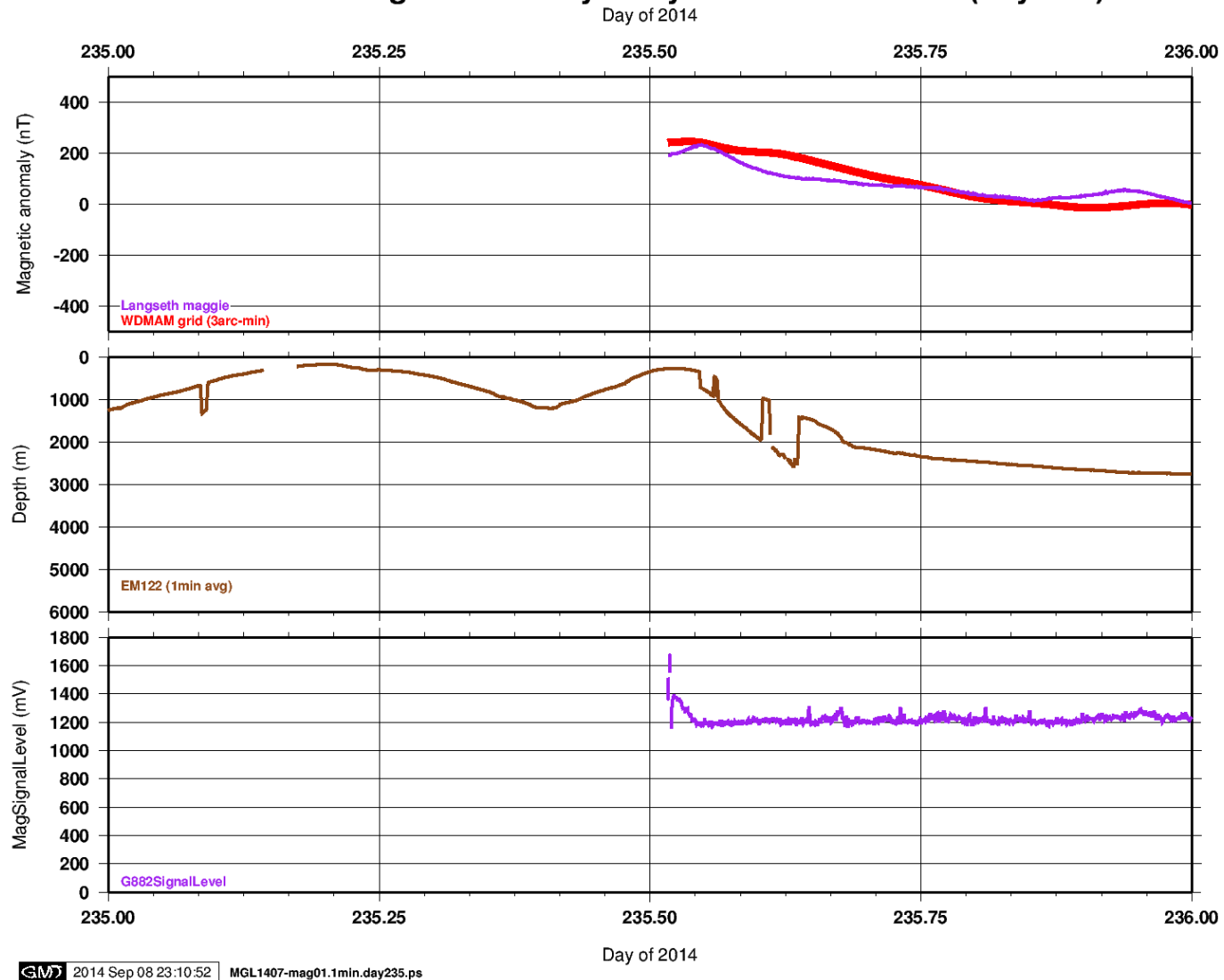
Panel 1 (Top)	Shows the smoothed G-882 total magnetic counts (purple) plotted with the matching World Data Magnetic Anomaly Map profile (red). NOTE: Magnetism data collection did not start until Jday 234
Panel 2 (Middle)	Shows the bathymetry measured aboard <i>Langseth</i> (dark brown line) using the EM122. Bathymetry is plotted as 1-minute averaged data.
Panel 3 (Bottom)	Shows the Signal Level (magenta)

MGL1407 Magnetics/Bathymetry/GPS -- 2014/08/22 (day 234)



Trial Deployment on continental shelf: magnetometer towpoint set at 220 m. Downward spike at 1600 z is G-882 being retrieved without being powered down first. Seismic deployment started at 1600. ECMA – East Coast Magnetic Anomaly

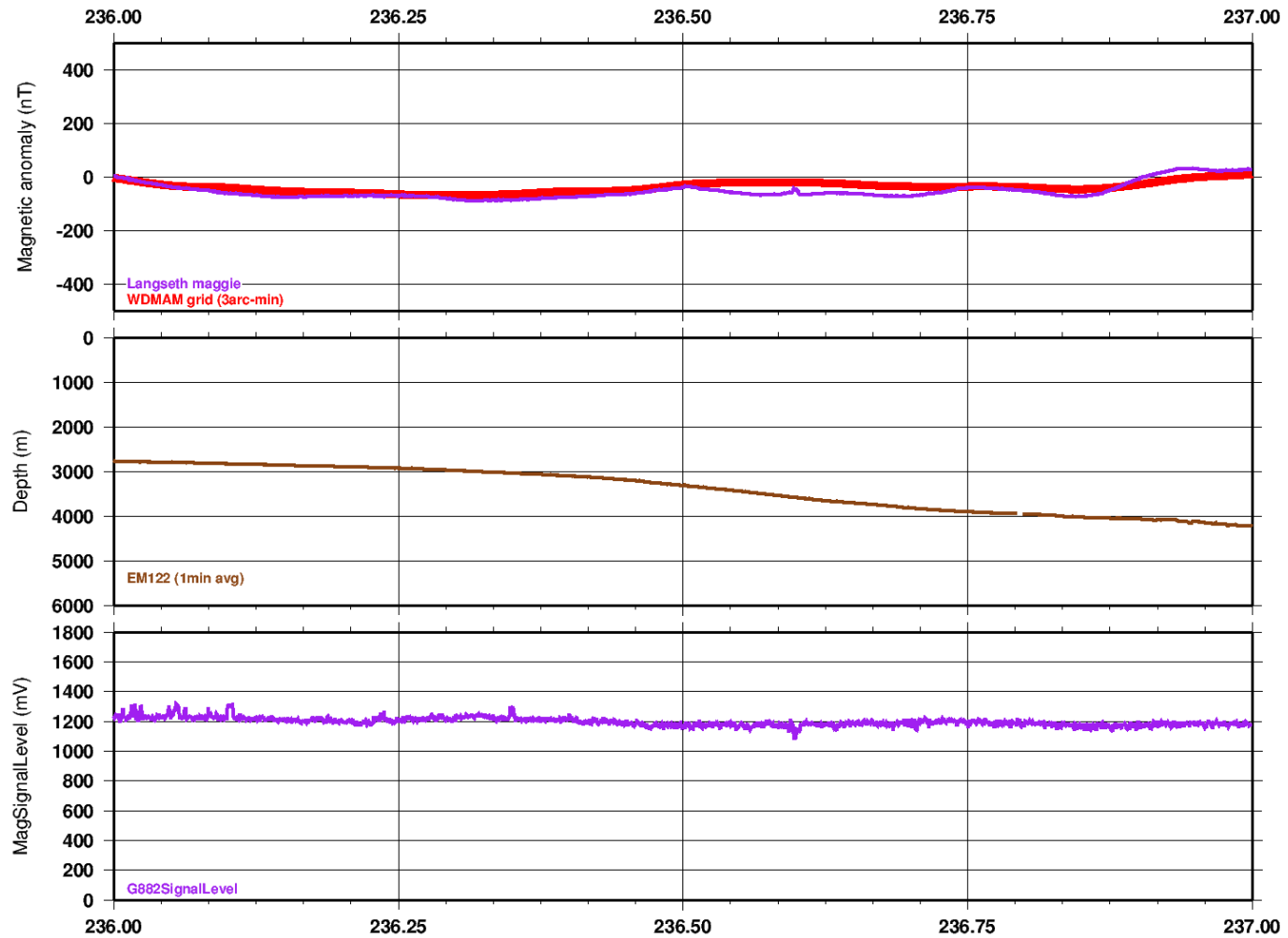
MGL1407 Magnetics/Bathymetry/GPS -- 2014/08/23 (day 235)



Line MCS01 started at 14:07, G-882 deployed at 12:30.
At East Coast Magnetic Anomaly, proceeding down margin.

MGL1407 Magnetics/Bathymetry/GPS -- 2014/08/24 (day 236)

Day of 2014

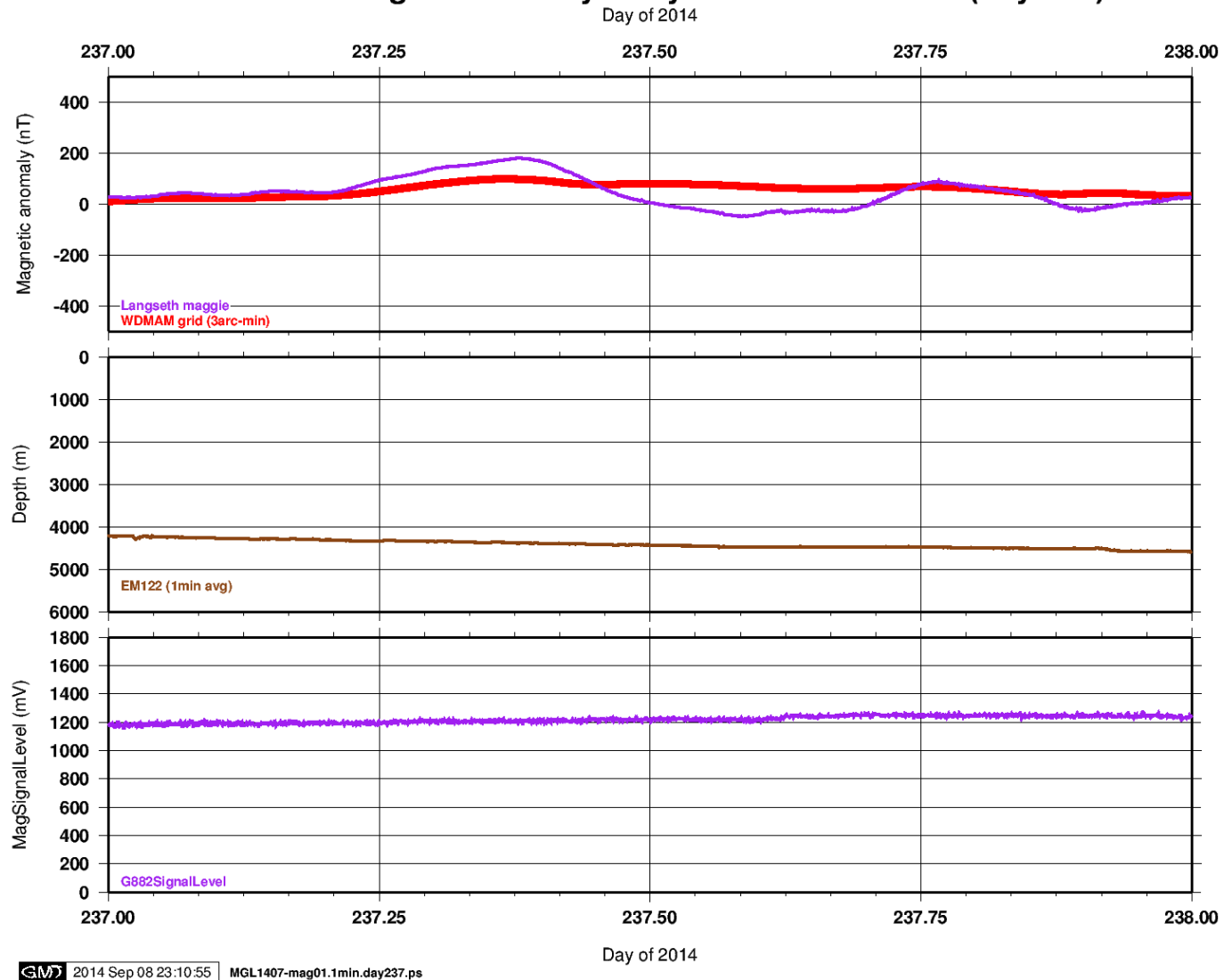


GM 2014 Sep 08 23:10:54 MGL1407-mag01.1min.day236.ps

Day of 2014

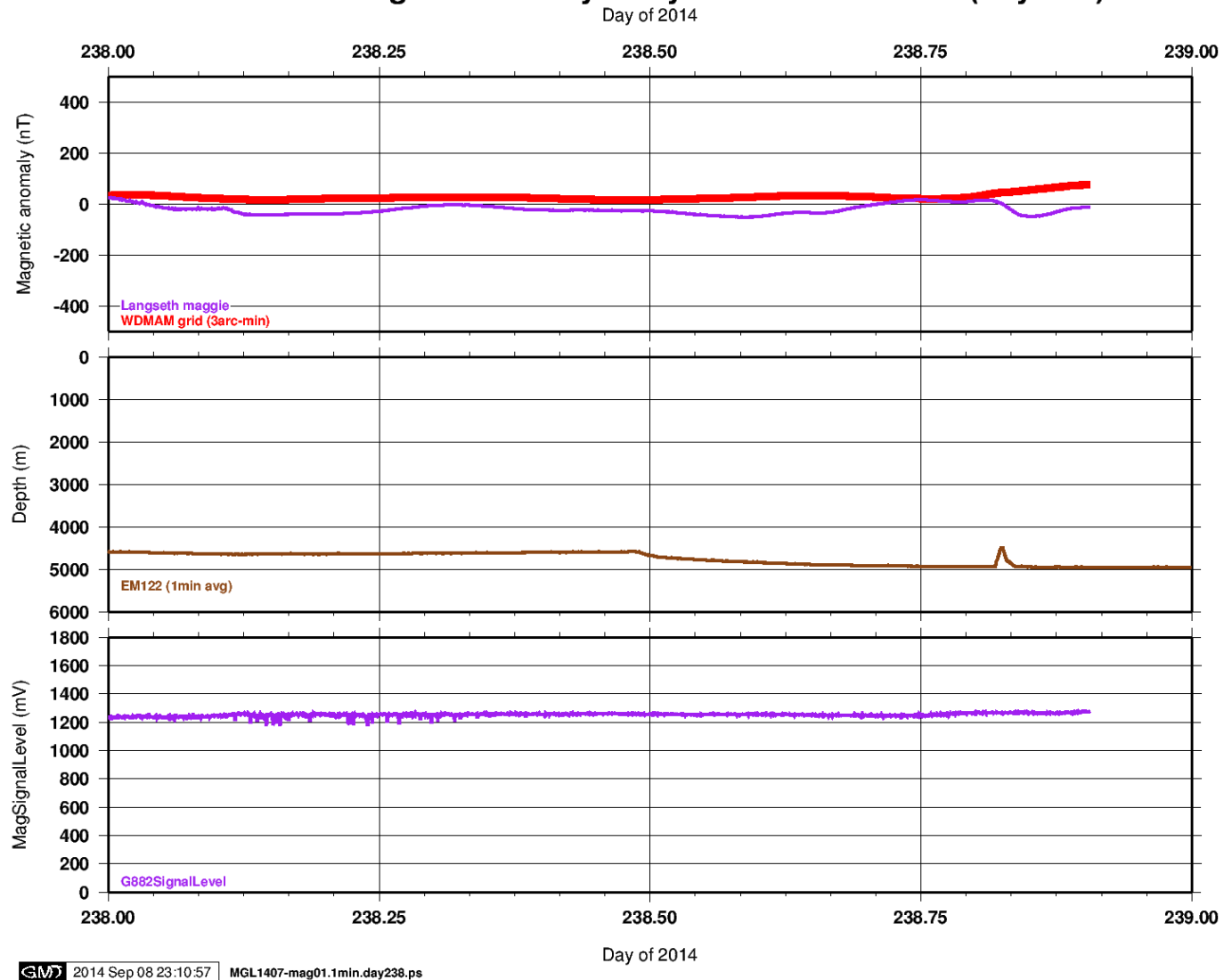
Line MCS01 continues.

MGL1407 Magnetics/Bathymetry/GPS -- 2014/08/25 (day 237)



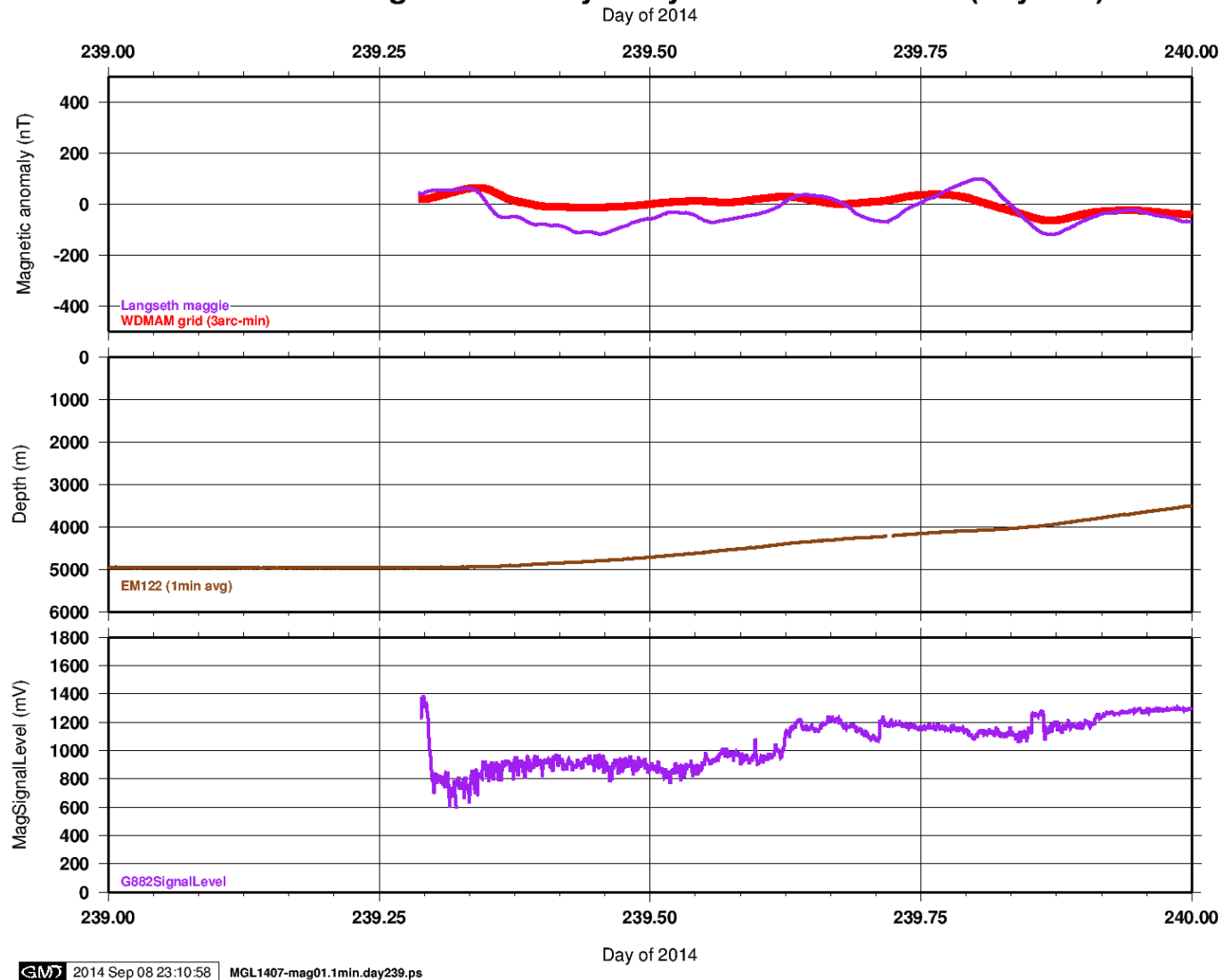
Line MCS01 ends at 01:29 z; Line MCS02 from 01:36-14:49 z; Line MCS03 starts at 14:53 z.
 Blake Spur Magnetic Anomaly – 00:00 z; large magnetic anomaly – 12:00 z – 16:00 z on GIS map.

MGL1407 Magnetics/Bathymetry/GPS -- 2014/08/26 (day 238)



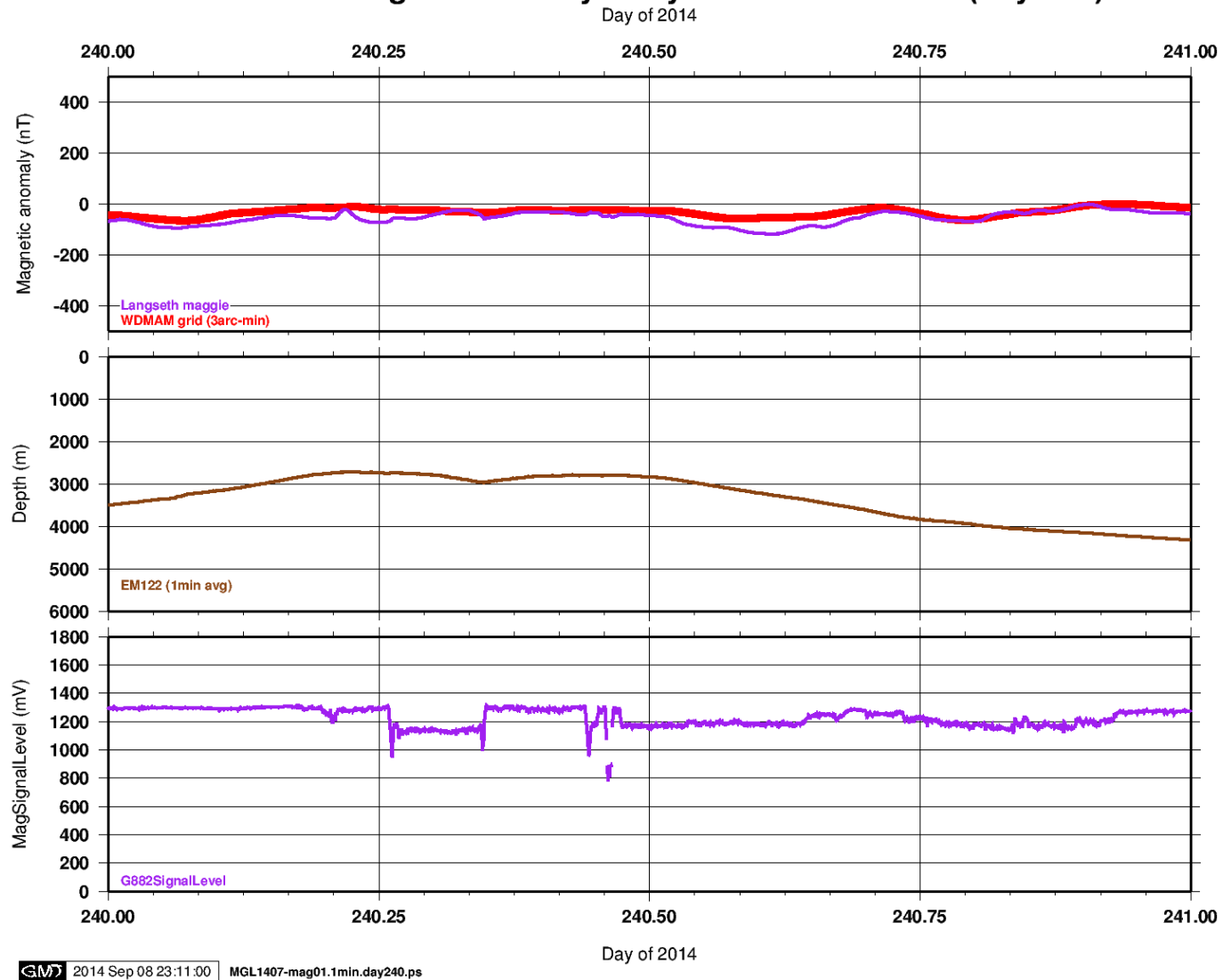
Line MCS03 ends 2:52 z; Line MCS06 02:59 z -22:00 z. G-882 retrieved at 22:00 z to begin recovering gear before transit to avoid tropical storm Cristobal.

MGL1407 Magnetics/Bathymetry/GPS -- 2014/08/27 (day 239)



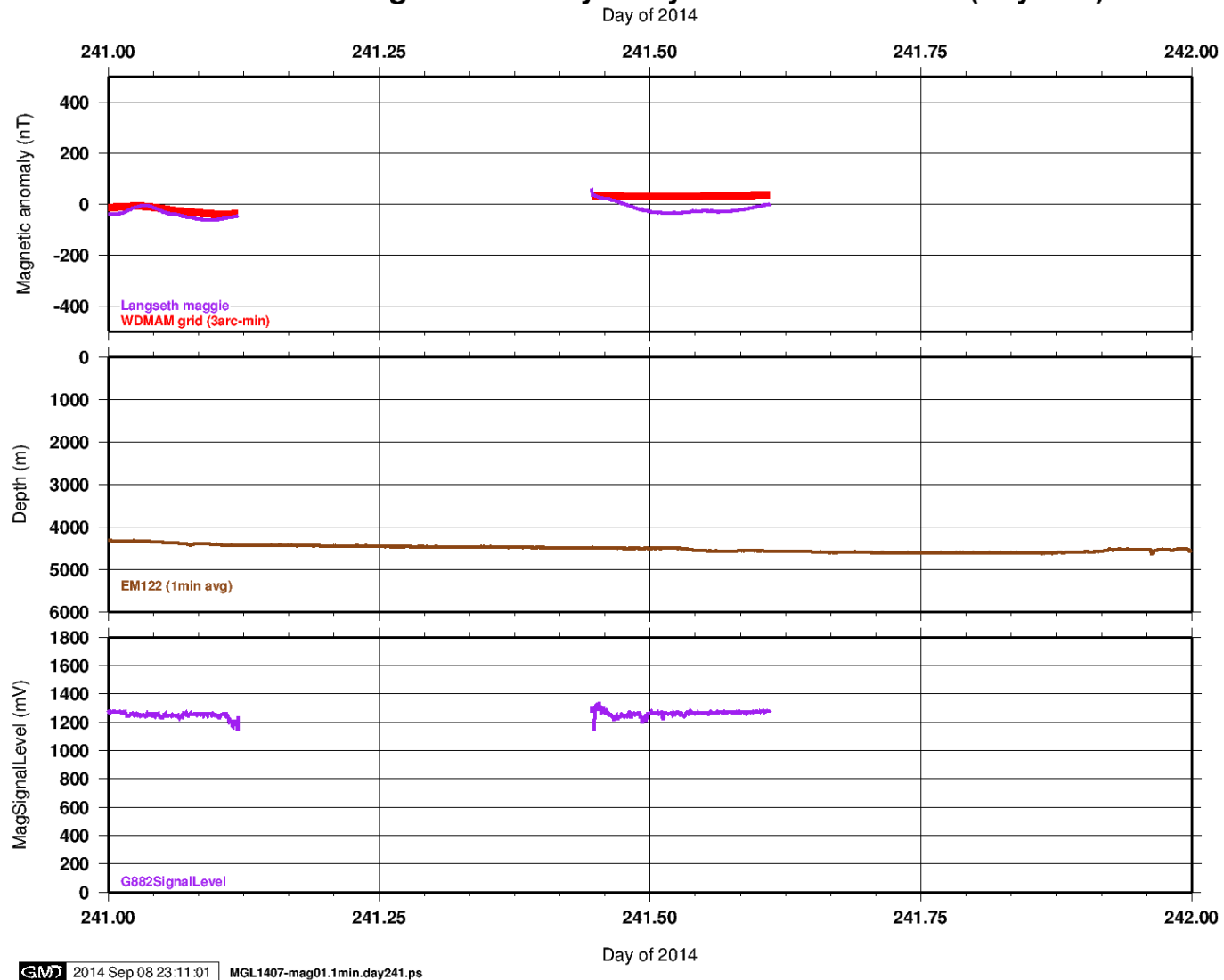
G-882 redeployed at 07:00 z after all seismic equipment is recovered.
Langseth steaming northwest to avoid hurricane Cristobal.

MGL1407 Magnetics/Bathymetry/GPS -- 2014/08/28 (day 240)



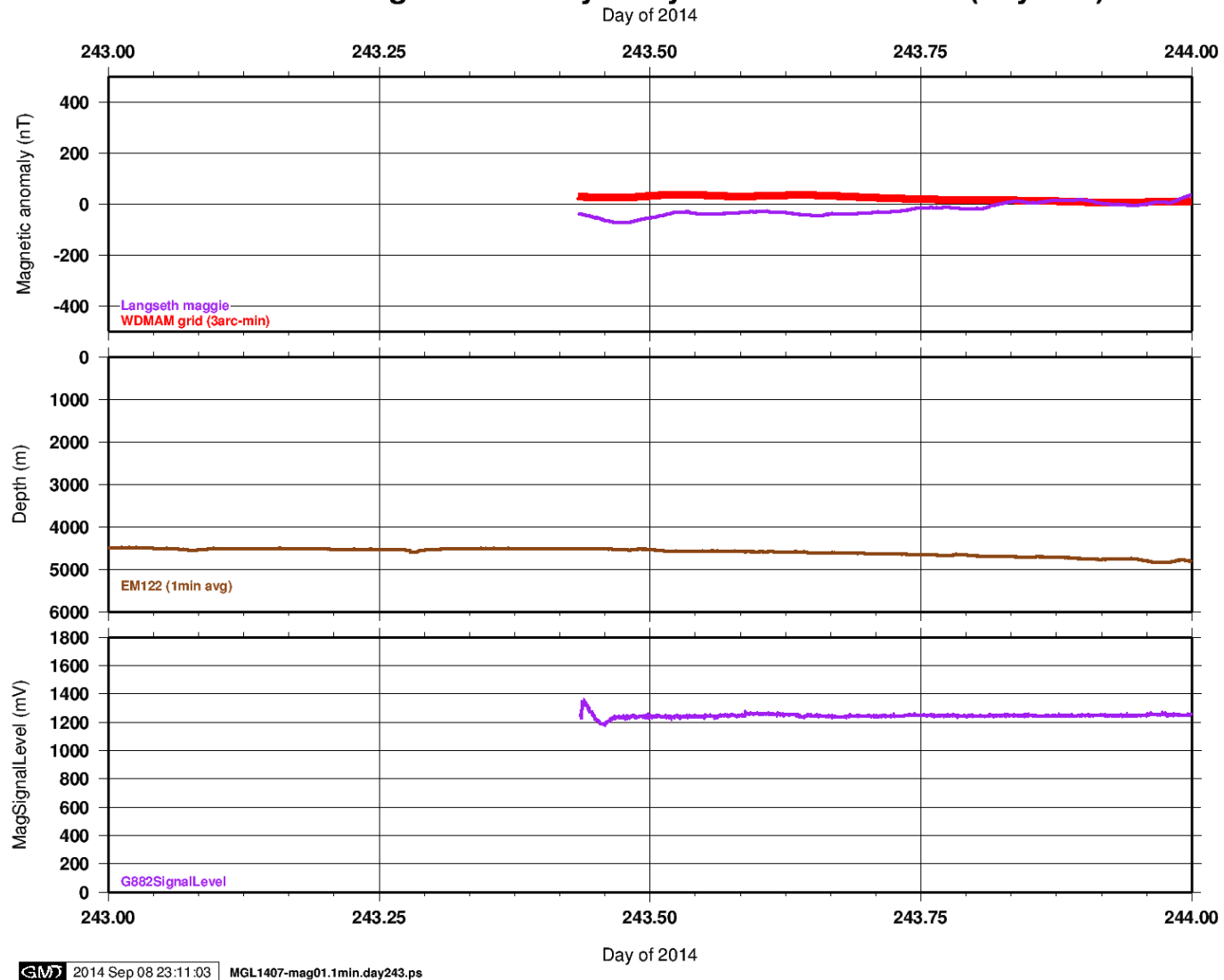
G-882 calibration loop was run; 10:49 z first loop complete; 11:06 z second loop complete; 11:23 z third loop complete.

MGL1407 Magnetics/Bathymetry/GPS -- 2014/08/29 (day 241)



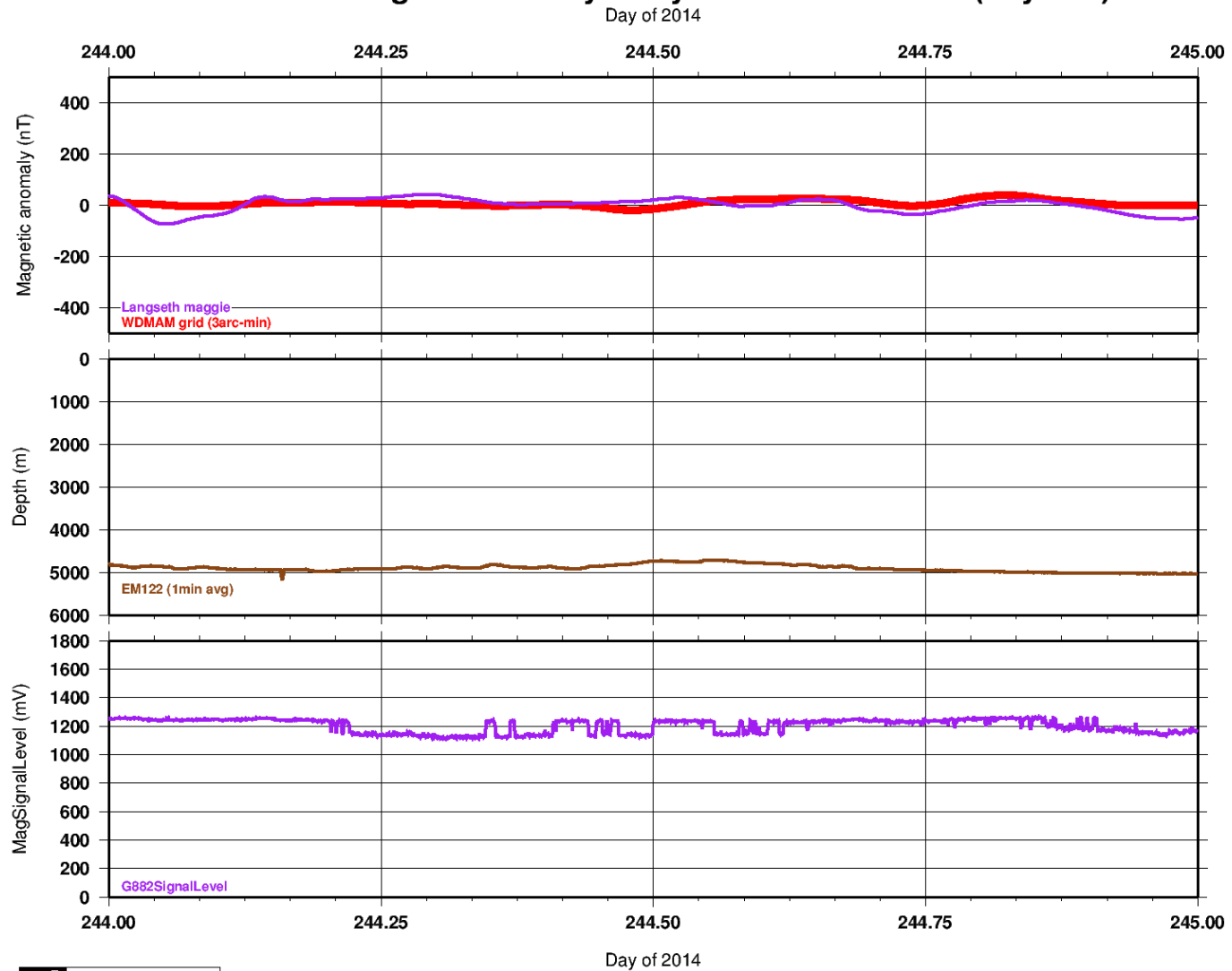
02:55 z - G-882 is pulled for seismic equipment deployment. Line MCS03A collected from 12:11 z-14:37 z. G-882 retrieved for medical evacuation.

MGL1407 Magnetics/Bathymetry/GPS -- 2014/08/31 (day 243)



No data collection early part of day 242 due to medical evacuation. Seismic data collection resumed on day 243 at 11:15 z at start of Line MCS03B.

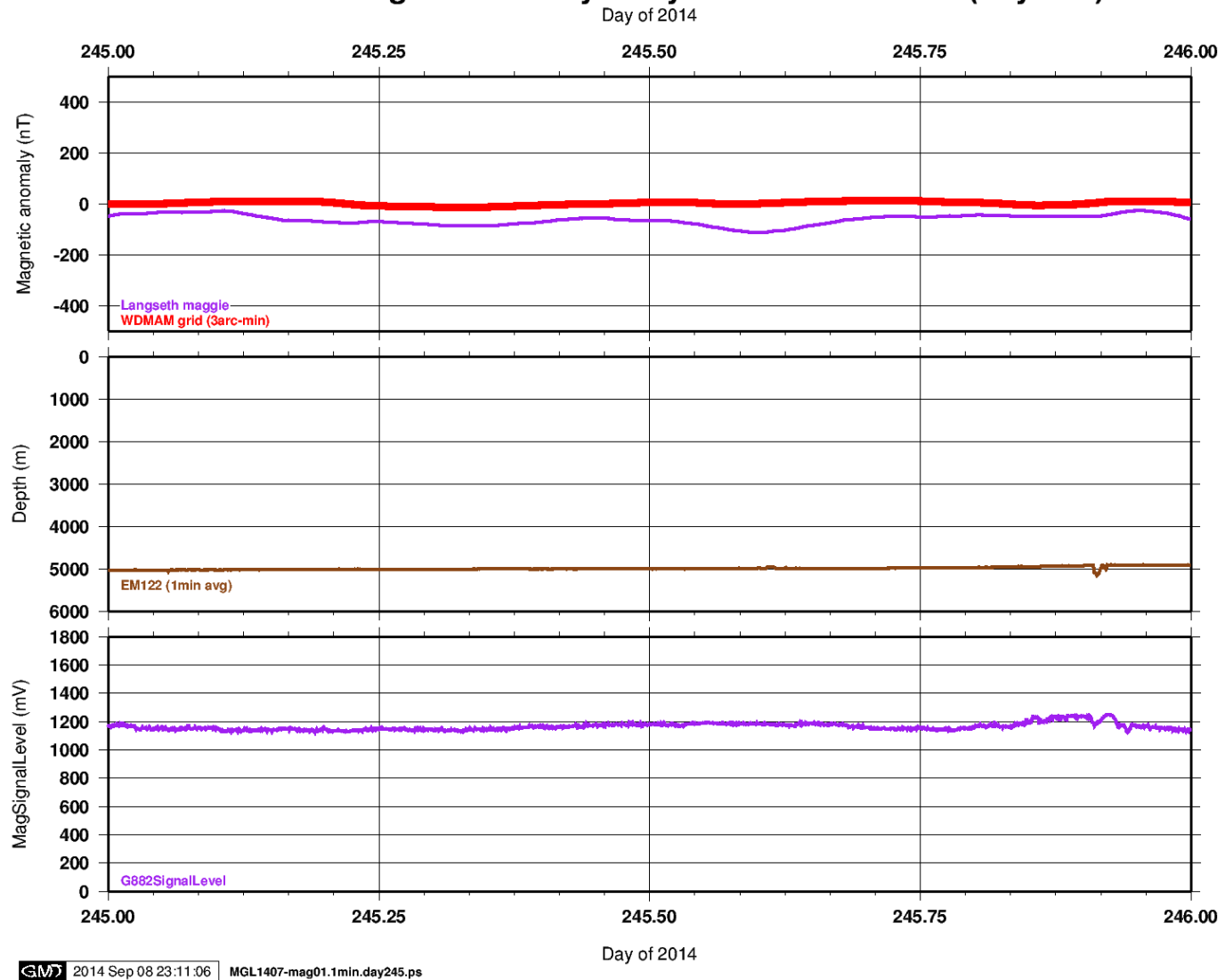
MGL1407 Magnetics/Bathymetry/GPS -- 2014/09/01 (day 244)



GM 2014 Sep 08 23:11:05 MGL1407-mag01.1min.day244.ps

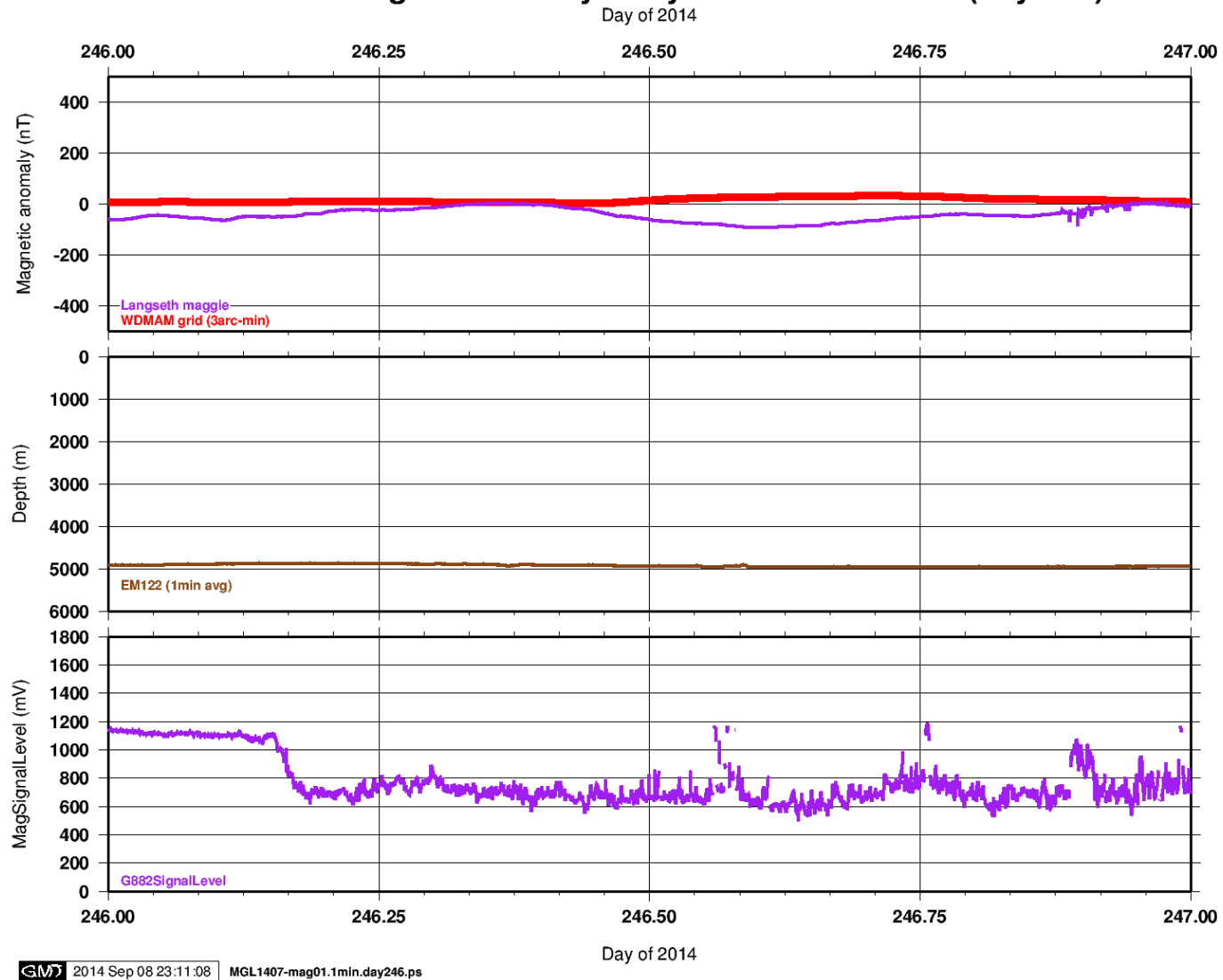
Line MCS03B ends at 3:30 z; Line MCS07 starts at 3:35 z.

MGL1407 Magnetics/Bathymetry/GPS -- 2014/09/02 (day 245)



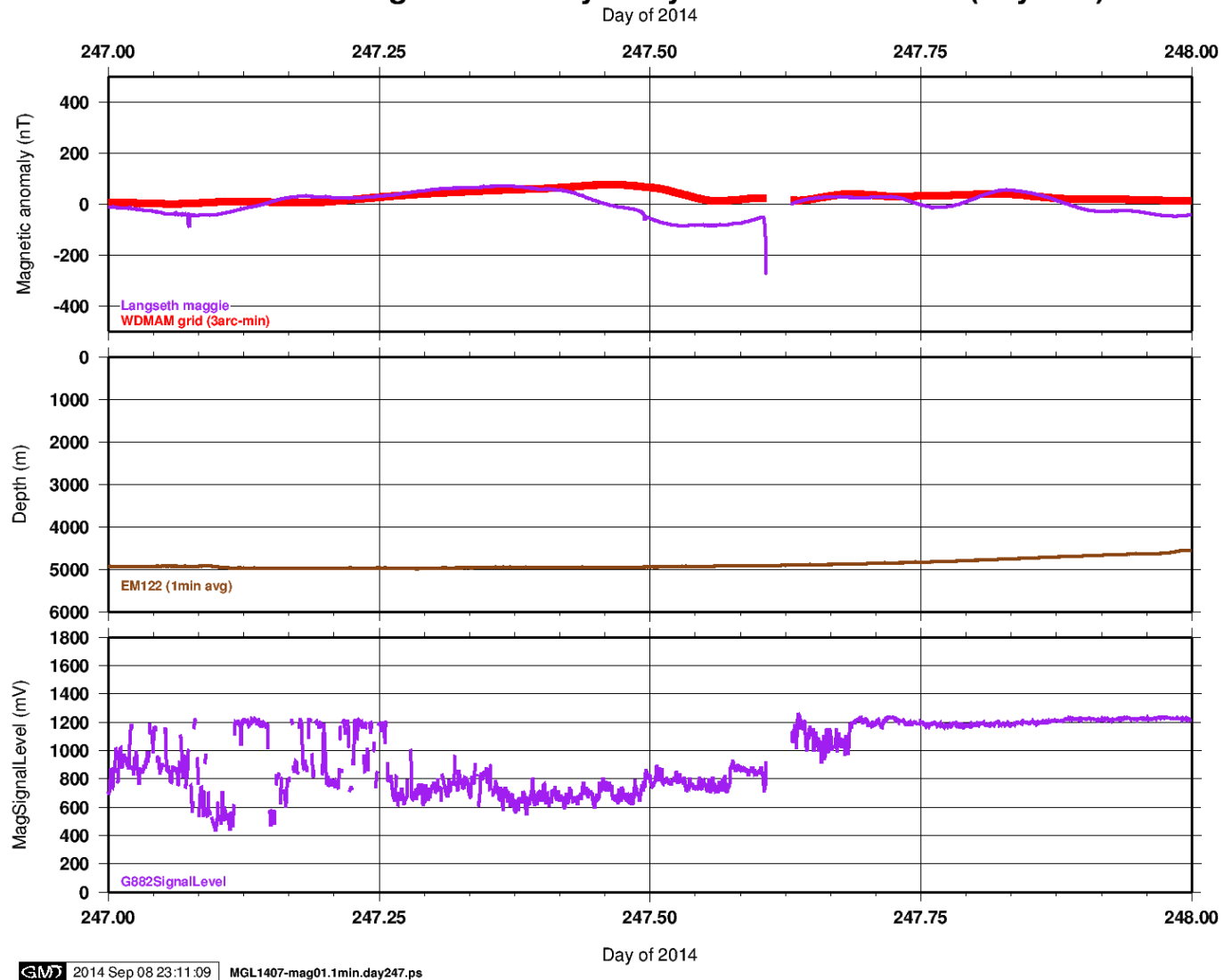
Line MCS07 ends at 22:02 z. Line MCS08 started at 22:08 z.

MGL1407 Magnetics/Bathymetry/GPS -- 2014/09/03 (day 246)



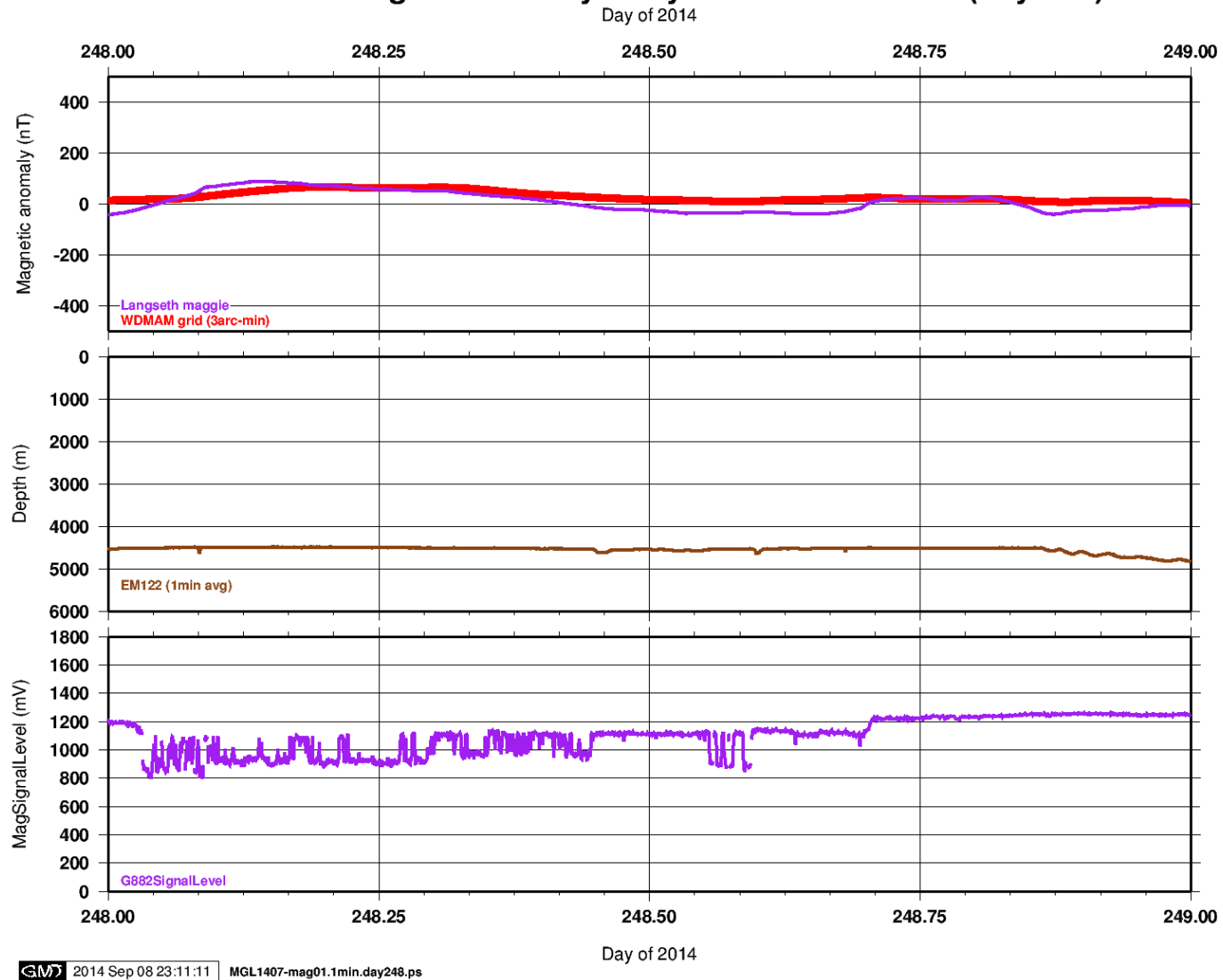
Line MCS08 ends at 04:01 z. Line MCS06A started at 4:03 z.

MGL1407 Magnetics/Bathymetry/GPS -- 2014/09/04 (day 247)



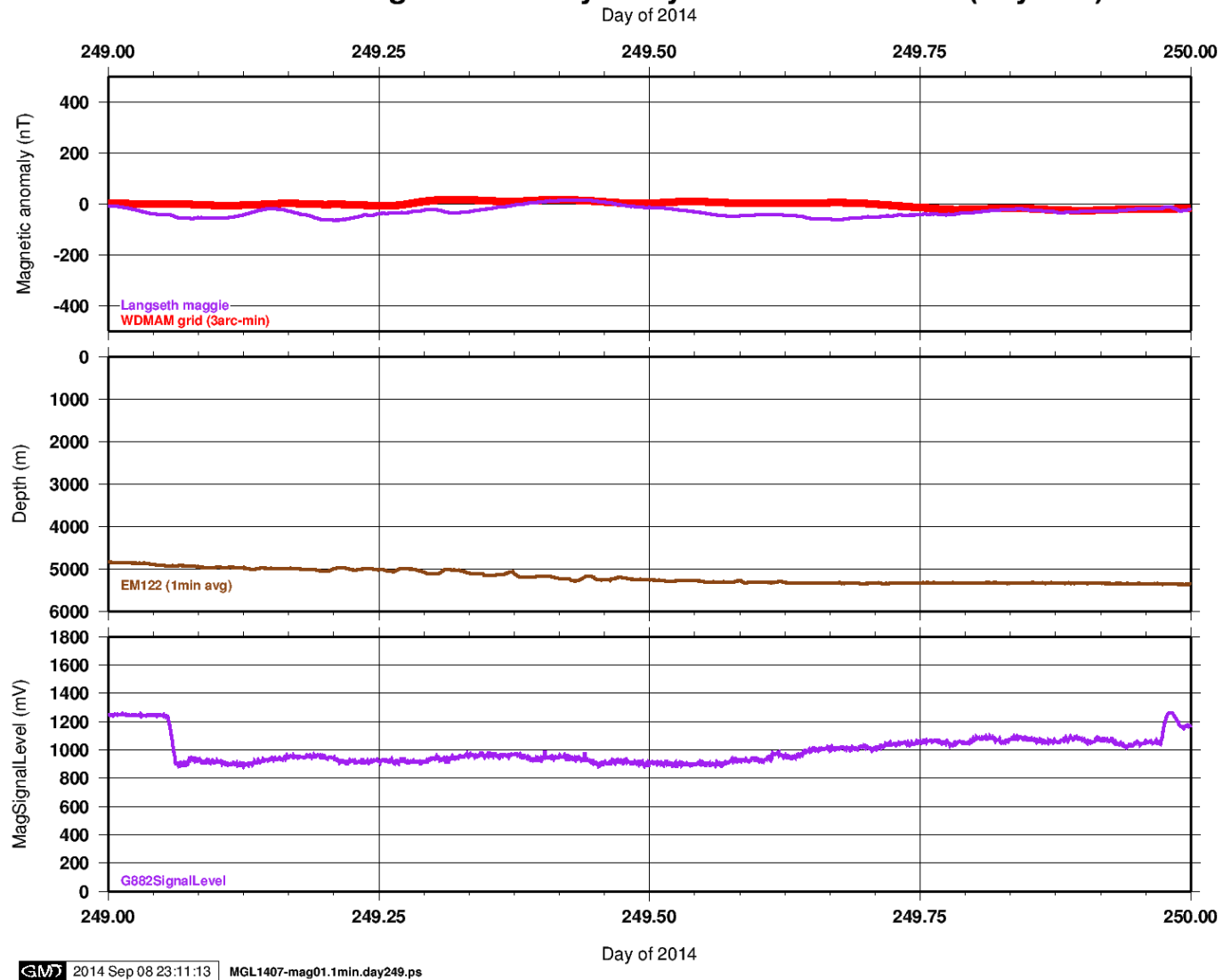
Line MCS06A ends at 11:52 z. Line MCS09 starts at 11:55 z. G-882 pulled at ~14:30 z for seaweed removal, connector cleaning and redeployed. Spike downward is retrieval of G-882 without powering down first.

MGL1407 Magnetics/Bathymetry/GPS -- 2014/09/05 (day 248)



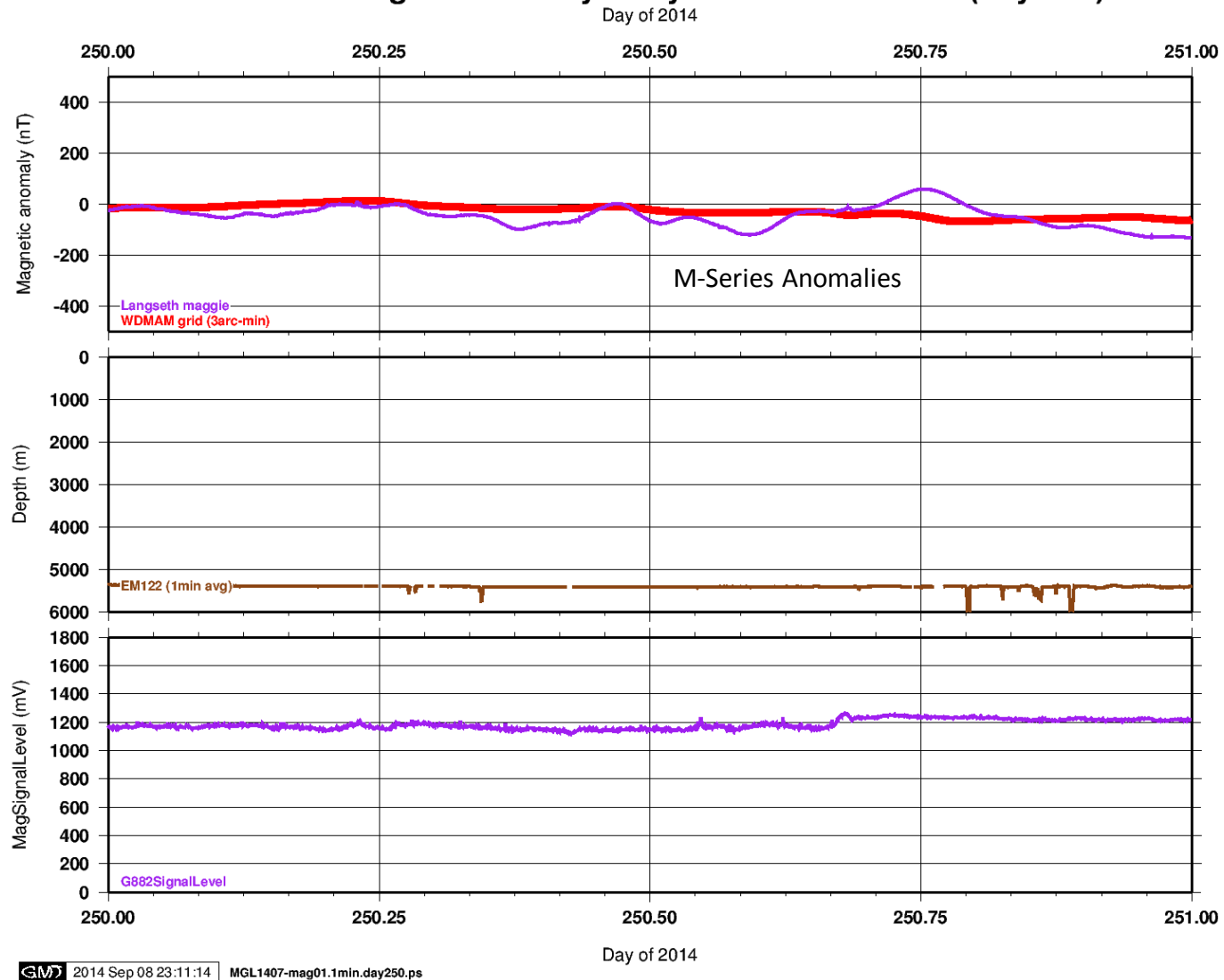
Line MCS 09 ends at 02:05 z. Line MCS10A starts at 02:18 z, ends at 16:49 z. Line MCS10B starts at 16:54 z.

MGL1407 Magnetics/Bathymetry/GPS -- 2014/09/06 (day 249)



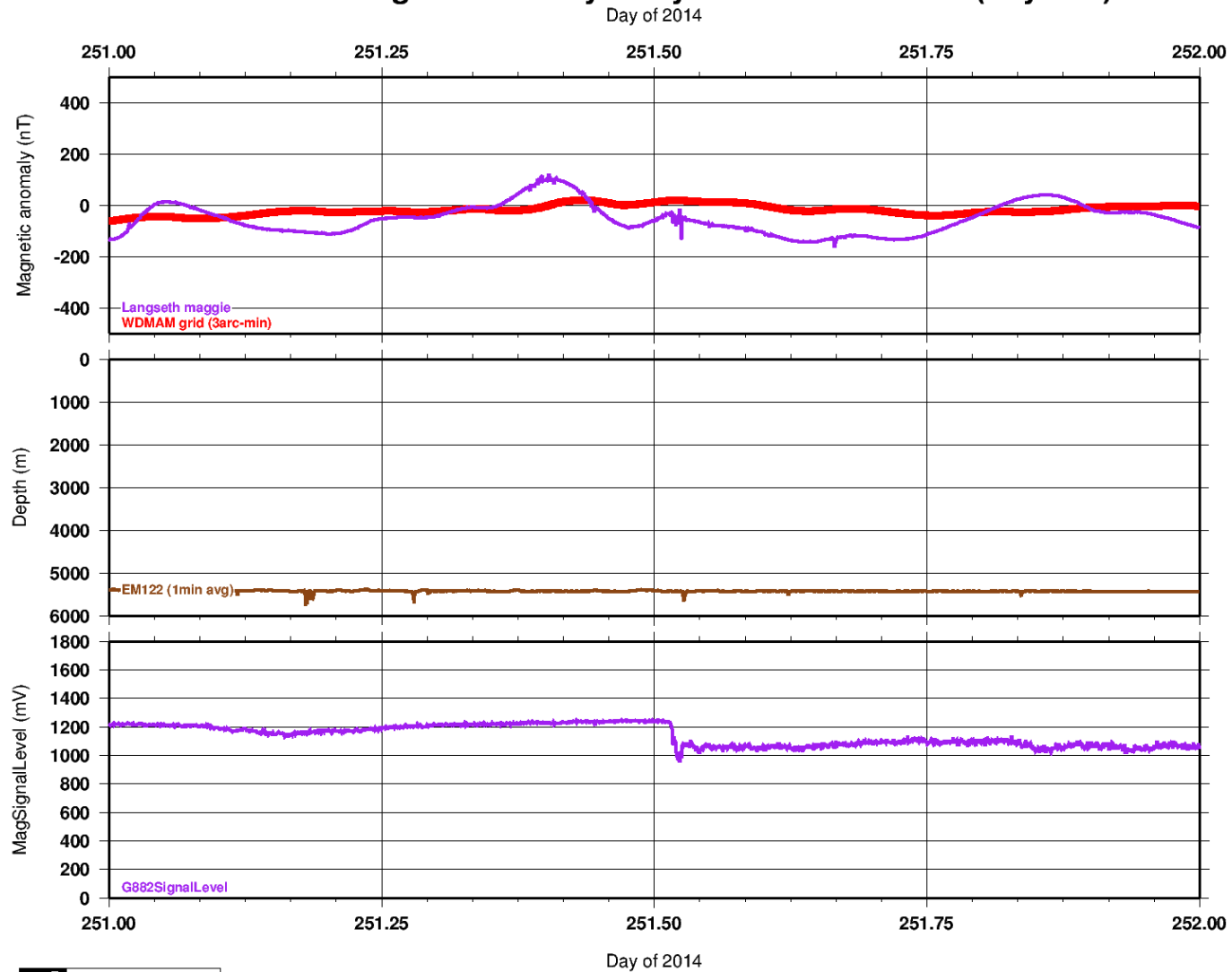
Line MCS10B ends at 01:23 z. Line MCS10C starts at 1:28 z, ends at 23:27 z. Line MCS11A starts at 23:44 z.

MGL1407 Magnetics/Bathymetry/GPS -- 2014/09/07 (day 250)



Line MCS11A ends at 16:14 z. Line MCS12A starts at 16:19 z. M-Series Anomalies – Mesozoic magnetic anomalies in the vicinity of anomaly M-25 and the Jurassic magnetic quiet zone.

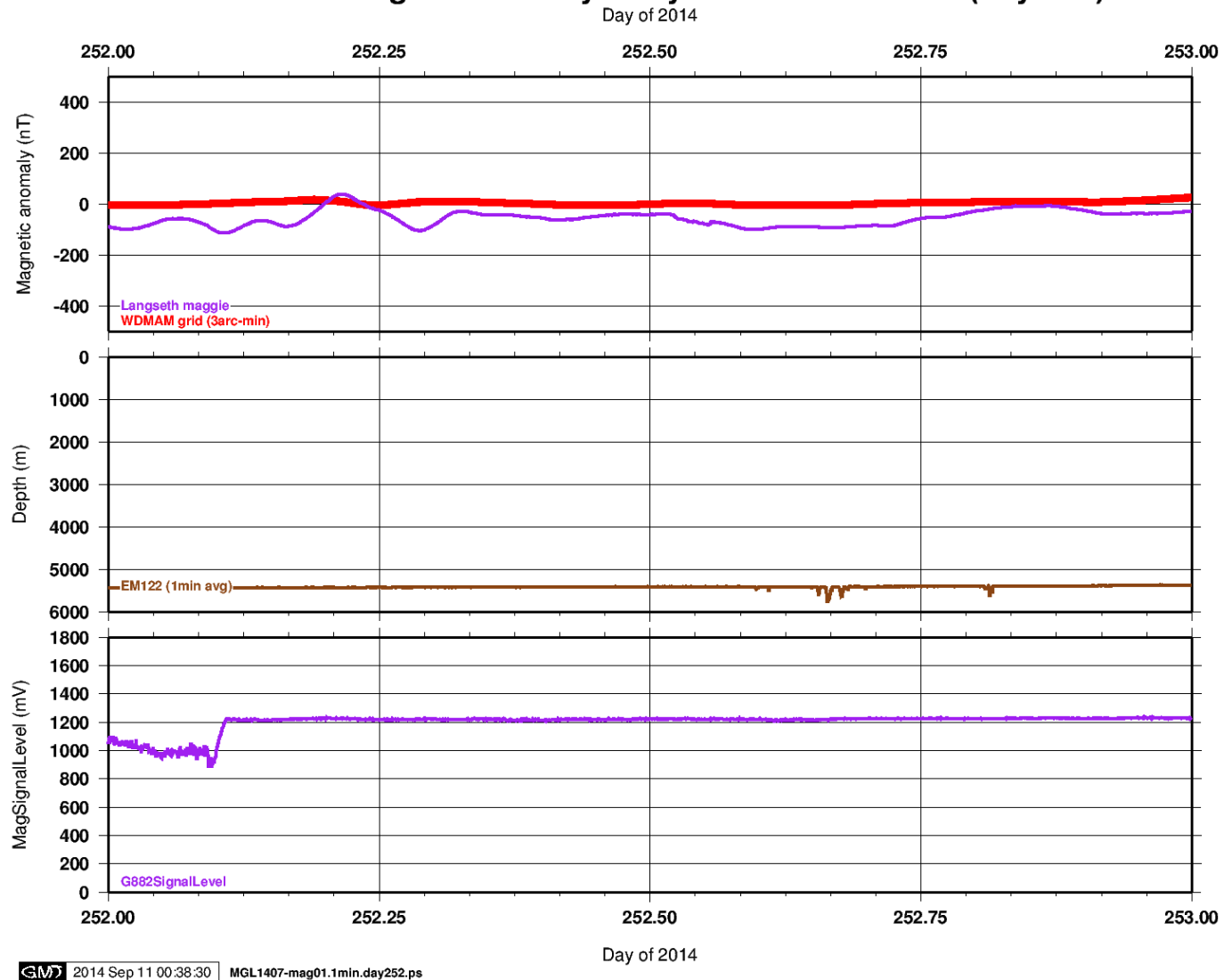
MGL1407 Magnetics/Bathymetry/GPS -- 2014/09/08 (day 251)



GM 2014 Sep 08 23:11:16 MGL1407-mag01.1min.day251.ps

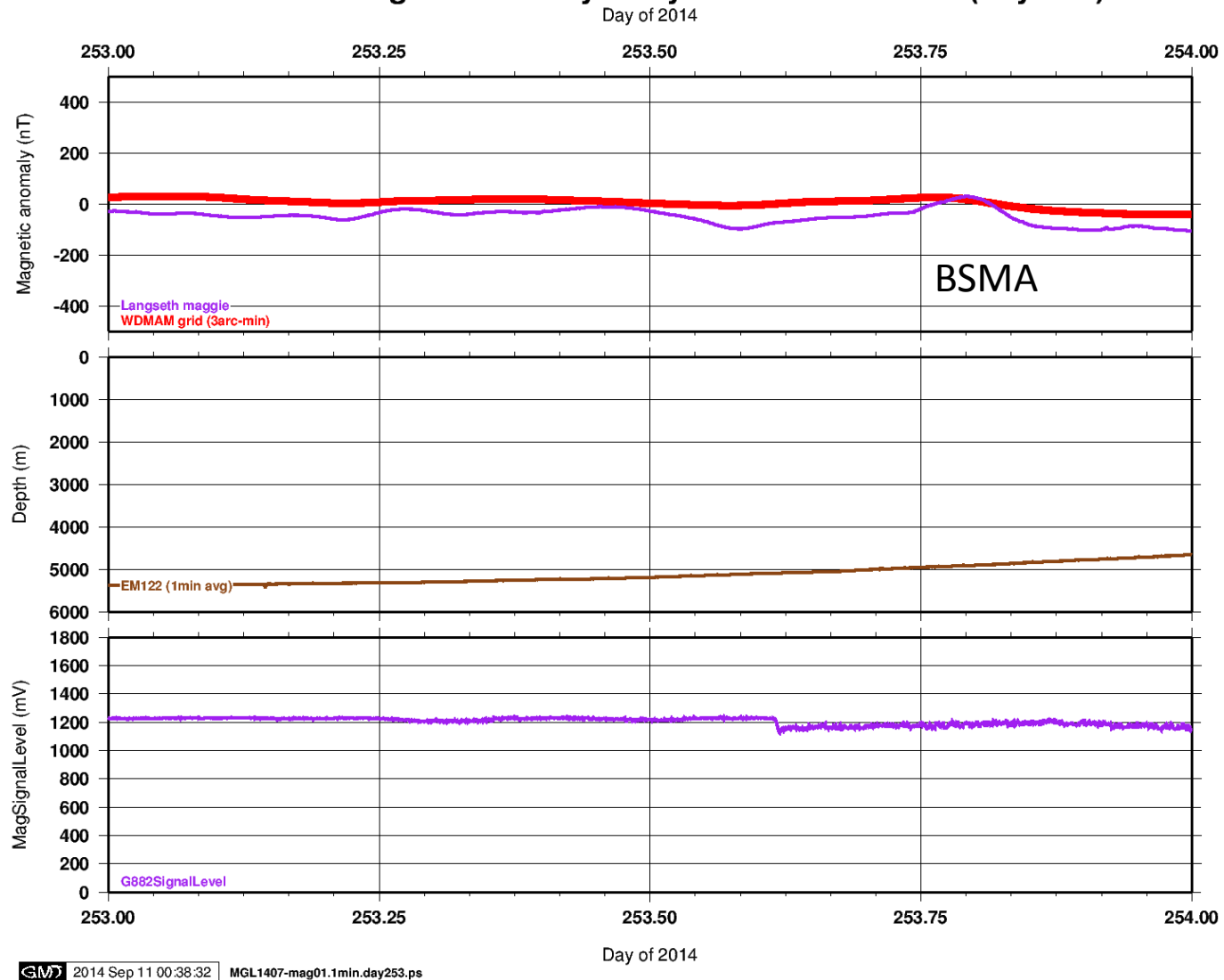
Line MCS12A ends at 12:16 z. Line MCS12B starts at 12:33 z.

MGL1407 Magnetics/Bathymetry/GPS -- 2014/09/09 (day 252)



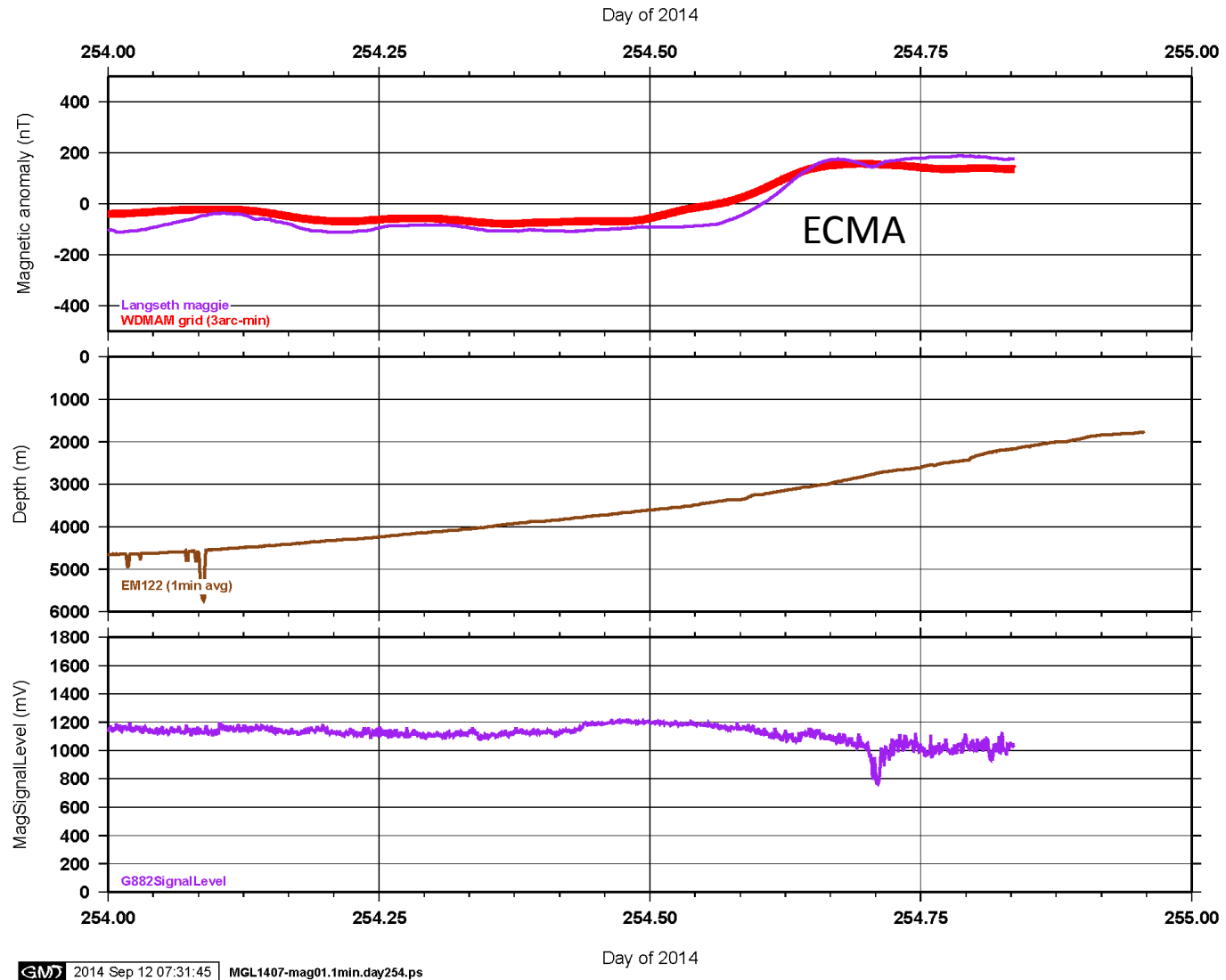
Line MCS12B ends at 2:22 z. Line MCS13 starts at 2:27 z, ends at 17:30 z. Line MCS14 starts at 17:37 z.

MGL1407 Magnetics/Bathymetry/GPS -- 2014/09/10 (day 253)



Line MCS14 ends at 14:48 z. Line MCS15 starts at 14:52 z. BSMA – Blake Spur Magnetic Anomaly

MGL1407 Magnetics/Bathymetry/GPS -- 2014/09/11 (day 254)



Line MCS15 ends at 17:00 z. Line MCS16 starts at 17:04 z and ends at 19:53 z. G-882 recovered after MCS16.
ECMA – East Coast Magnetic Anomaly