Joint Analysis Group (JAG)
Report 2 Data Supplement: June 20 to July 13

- The JAG report published on July 23, 2010[1] reported on data collected between May 19 and June 19.
- This supplement extends those data to July 13.
- Some station data in this supplement did not meet quality control methods as described in Appendix B of the July 23 report. Those data are not plotted in figures 25-28, 37-40, 43-45, 75, 77, 80, 81.
- Values not plotted are noted in the data tables in Appendix D and at the end of this report.
- The figures in this supplement should be interpreted in the context of the July 23, 2010 JAG report that can be found at: http://ecowatch.ncddc.noaa.gov/JAG/reports.html

[1] Deepwater Horizon National Incident Command Joint Analysis Group. "Review of Preliminary Data to Examine Subsurface Oil in the Vicinity of MC252#1-May 19 to June 19, 2010.

The JAG acknowledges and thanks Dr. Samantha Joye (University of Georgia) and the scientists and crew on the R/V *Walton Smith* for contributing their CTD derived data for inclusion in JAG analysis and reporting, and encourages other academic and private partners to do so as well. The JAG also thanks the National Science Foundation for supporting this effort and encouraging collaboration with the JAG.

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- Figures 1-24 show the locations where each vessels collected data by week with details for 5, 20, and 50 kms.
- Figure 25 shows the mean CDOM fluorescence between 1000 m and 1300 m as a function of distance from the wellhead.
- Figure 26 shows the maximum CDOM fluorescence between 1000 m and 1300 m as function of distance from the wellhead.
- Figures 27 and 28 show changes in the mean and maximum fluorescence according to sampling date.
- Figures 29 to 84 show the daily location of mean CDOM fluorescence measurements between 1000-1300 m.
- Figures 85 shows mean fluorescence values for all stations within 20km of the wellhead, which excludes distant stations.
- Figure 86 is a perspective view of data shown in Figure 85 along with the locations of natural seeps recently mapped in the area.

Figure 1: Subsurface Monitoring Stations within 5 km of the Wellhead 19-25 May

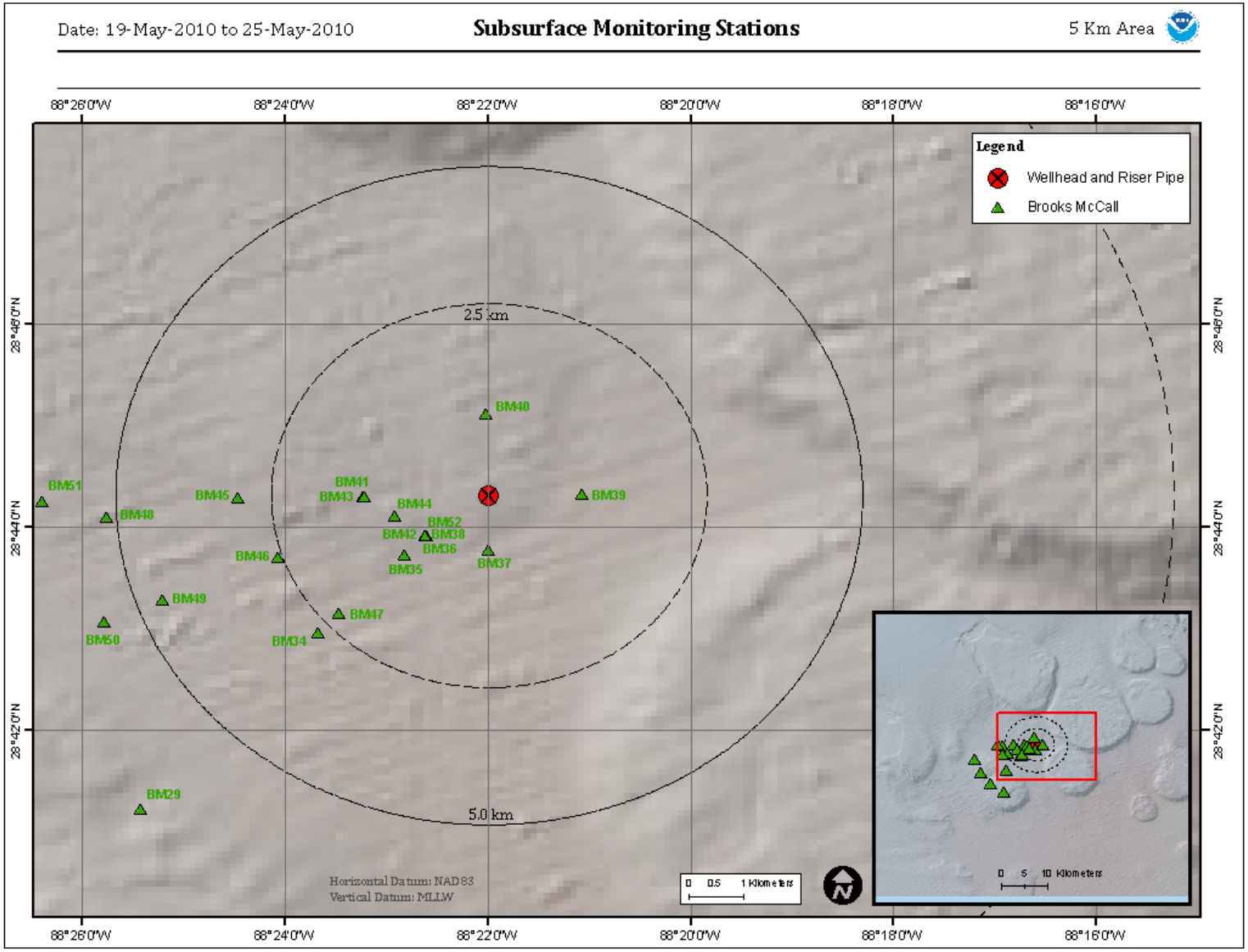


Figure 2: Subsurface Monitoring Stations within 20 km of the Wellhead 19-25 May

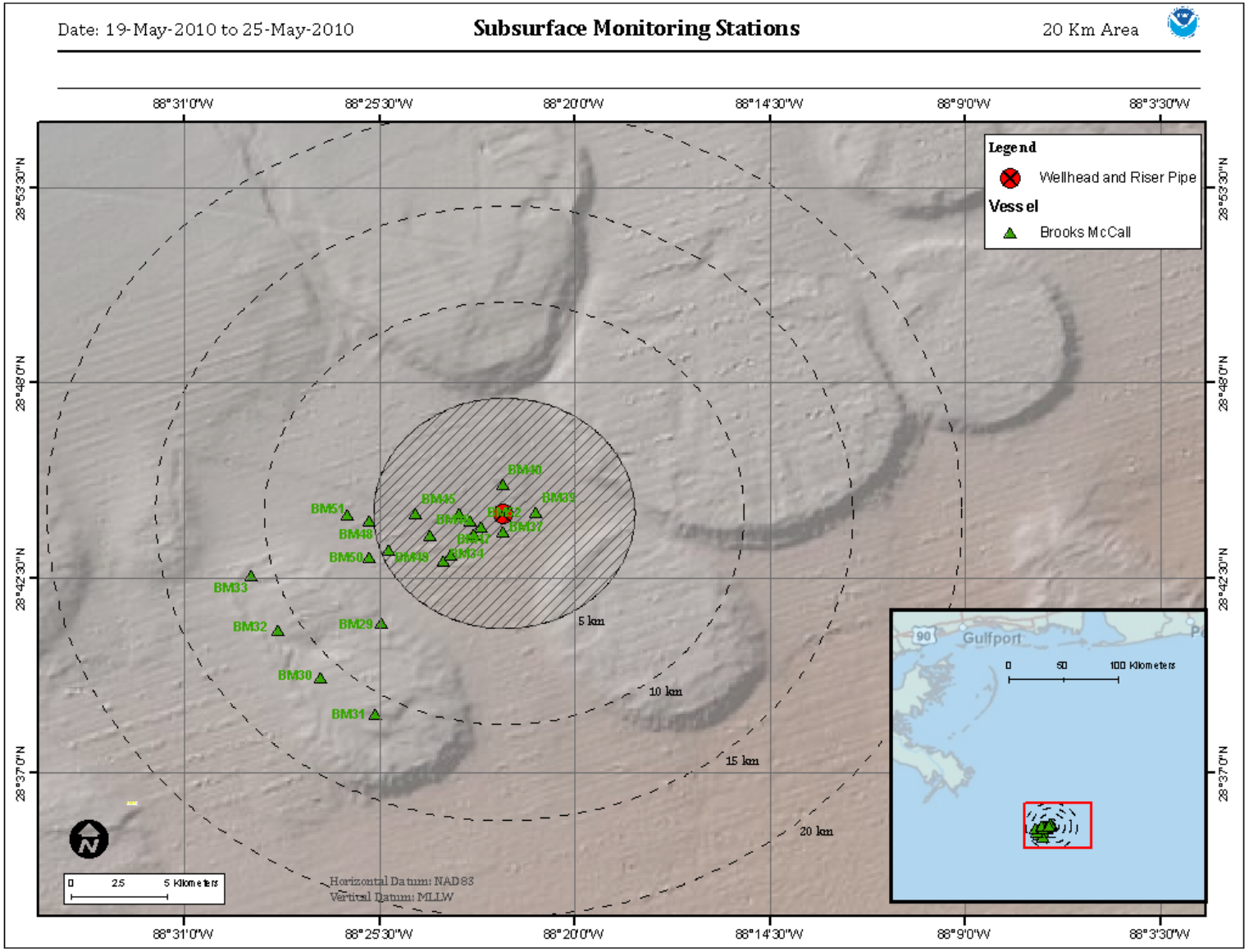


Figure 3: Subsurface Monitoring Stations within 50 km of the Wellhead 19-25 May

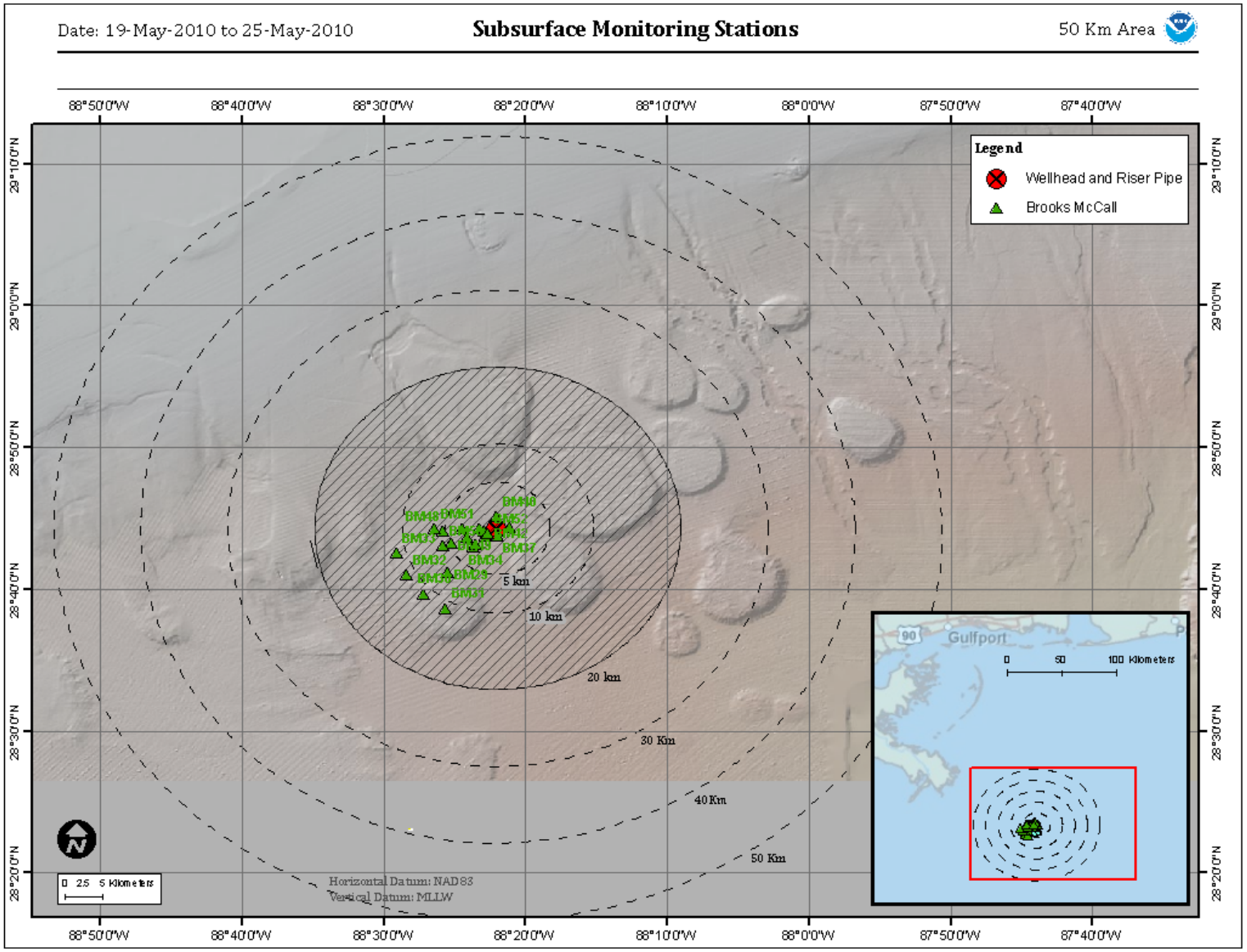


Figure 4: Subsurface Monitoring Stations within 5 km of the Wellhead 26 May – 01 June

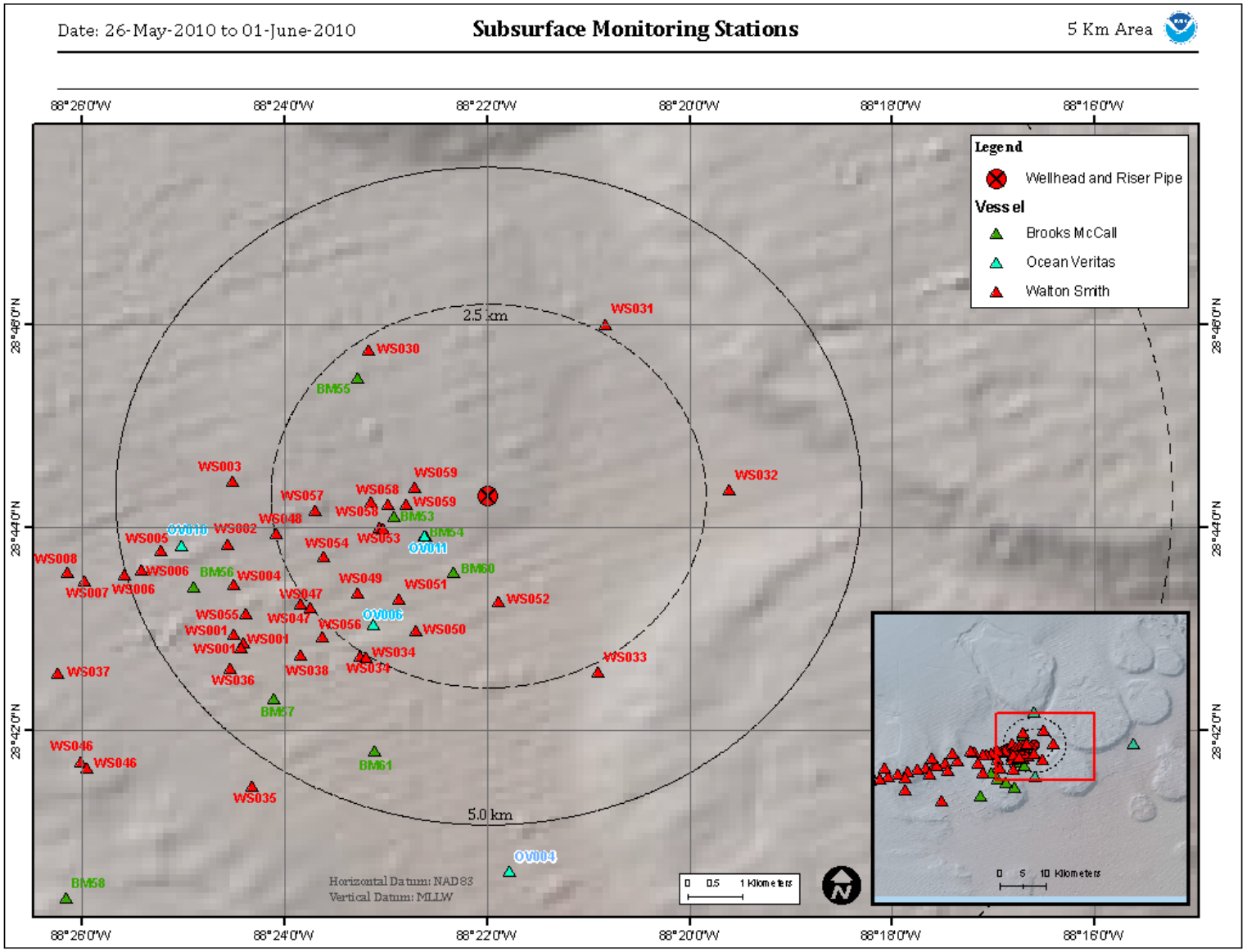


Figure 5: Subsurface Monitoring Stations within 20 km of the Wellhead 26 May – 01 June

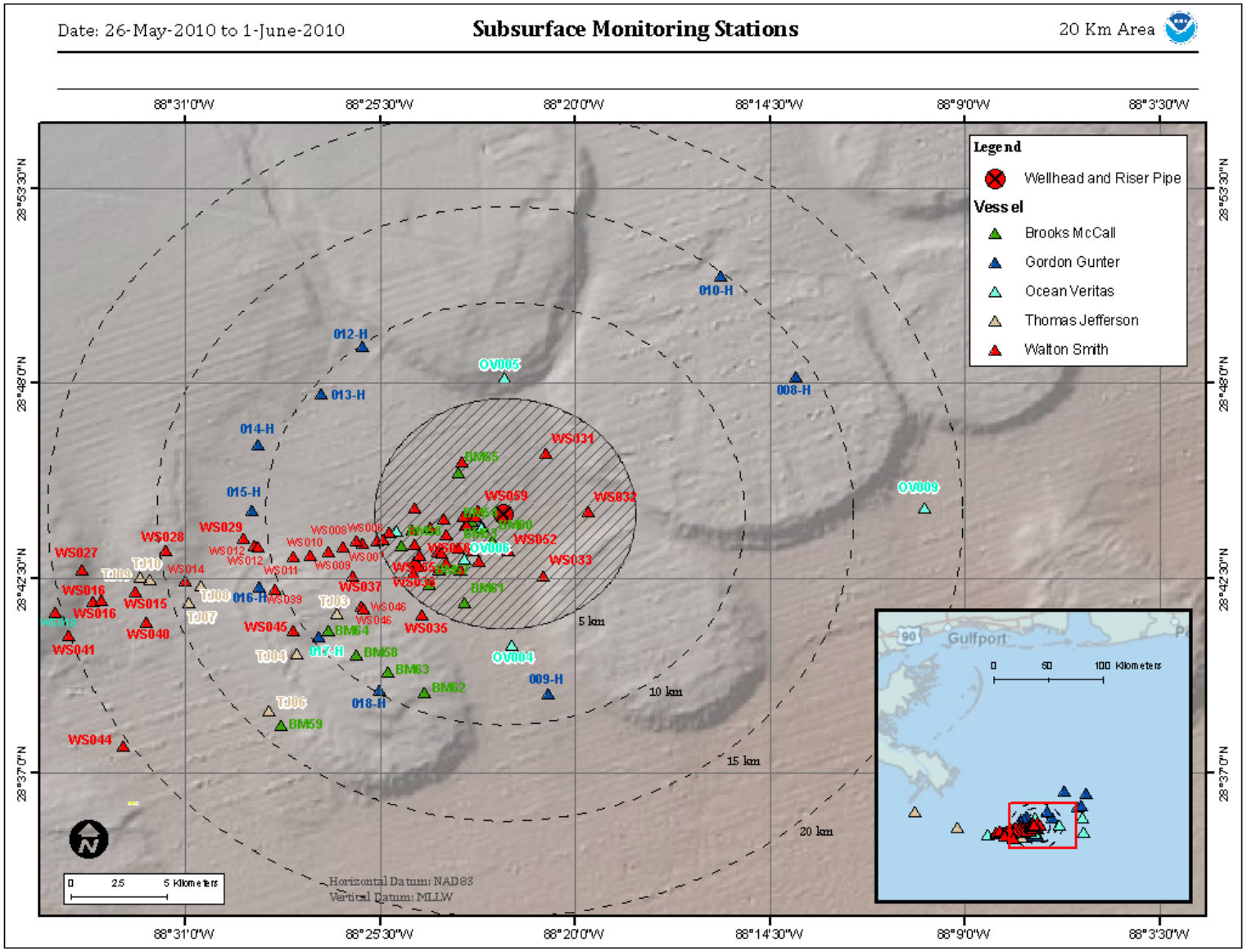


Figure 6: Subsurface Monitoring Stations within 50 km of the Wellhead 26 May – 01 June

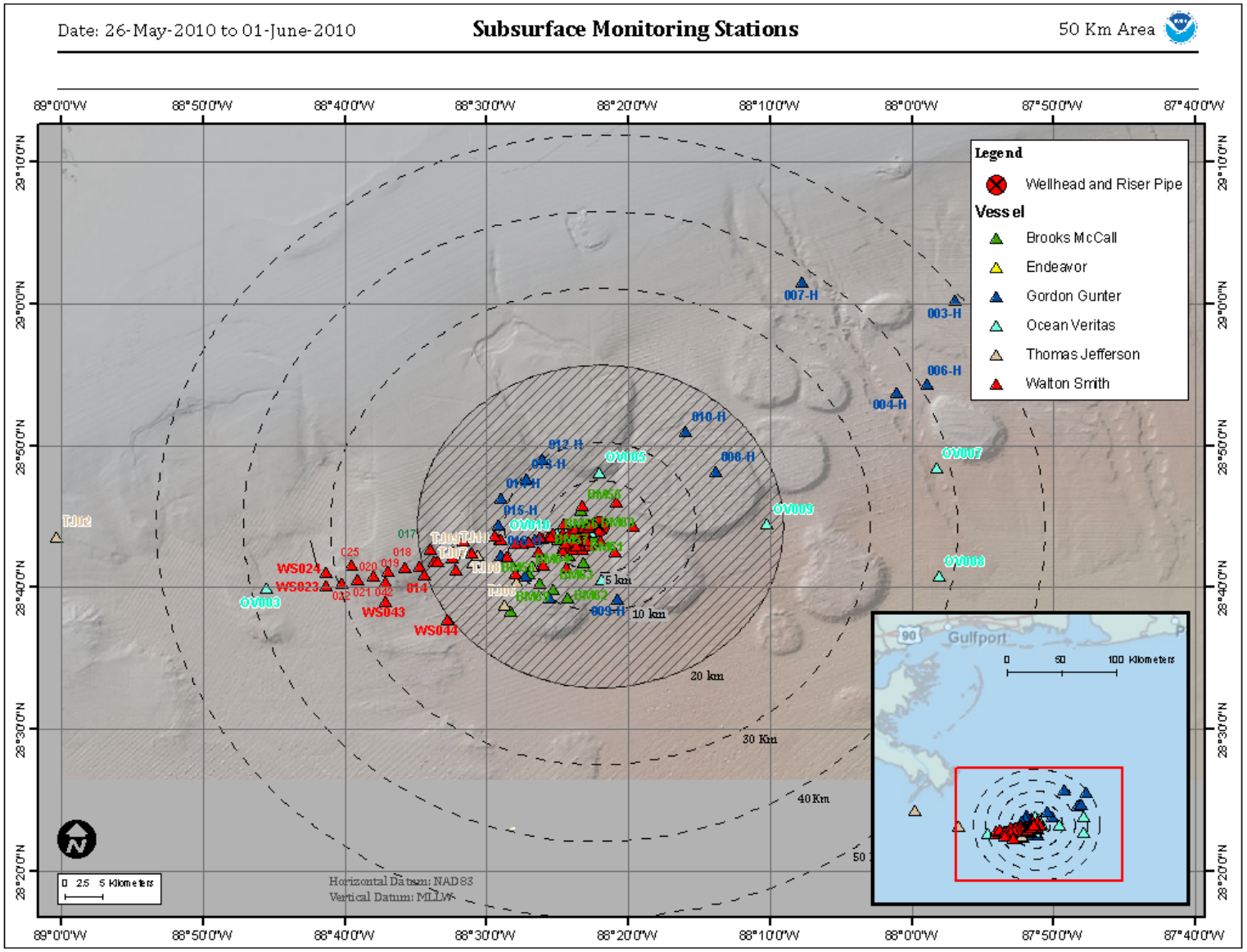


Figure 7: Subsurface Monitoring Stations within 5 km of the Wellhead 02-08 June

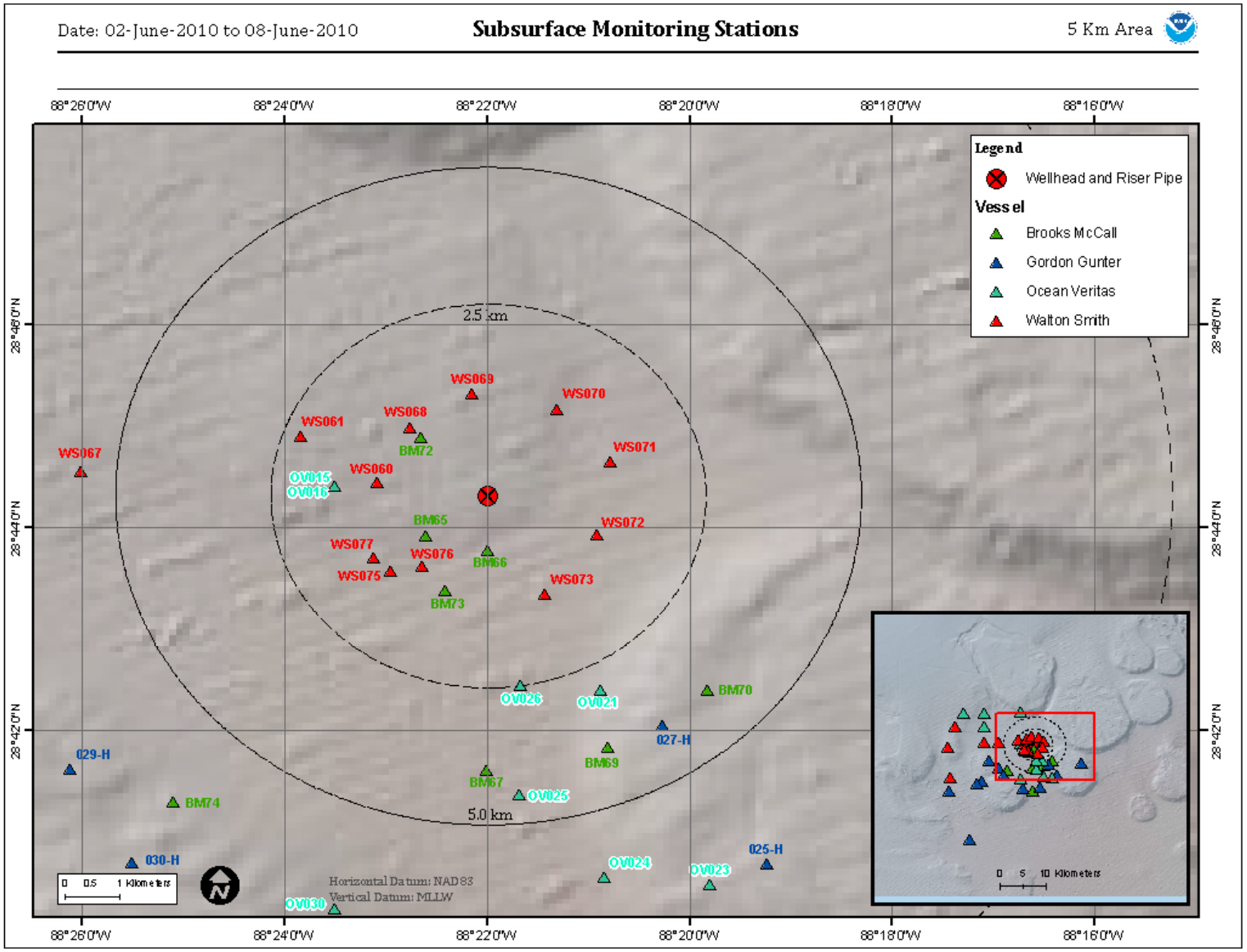


Figure 8: Subsurface Monitoring Stations within 20 km of the Wellhead 02-08 June

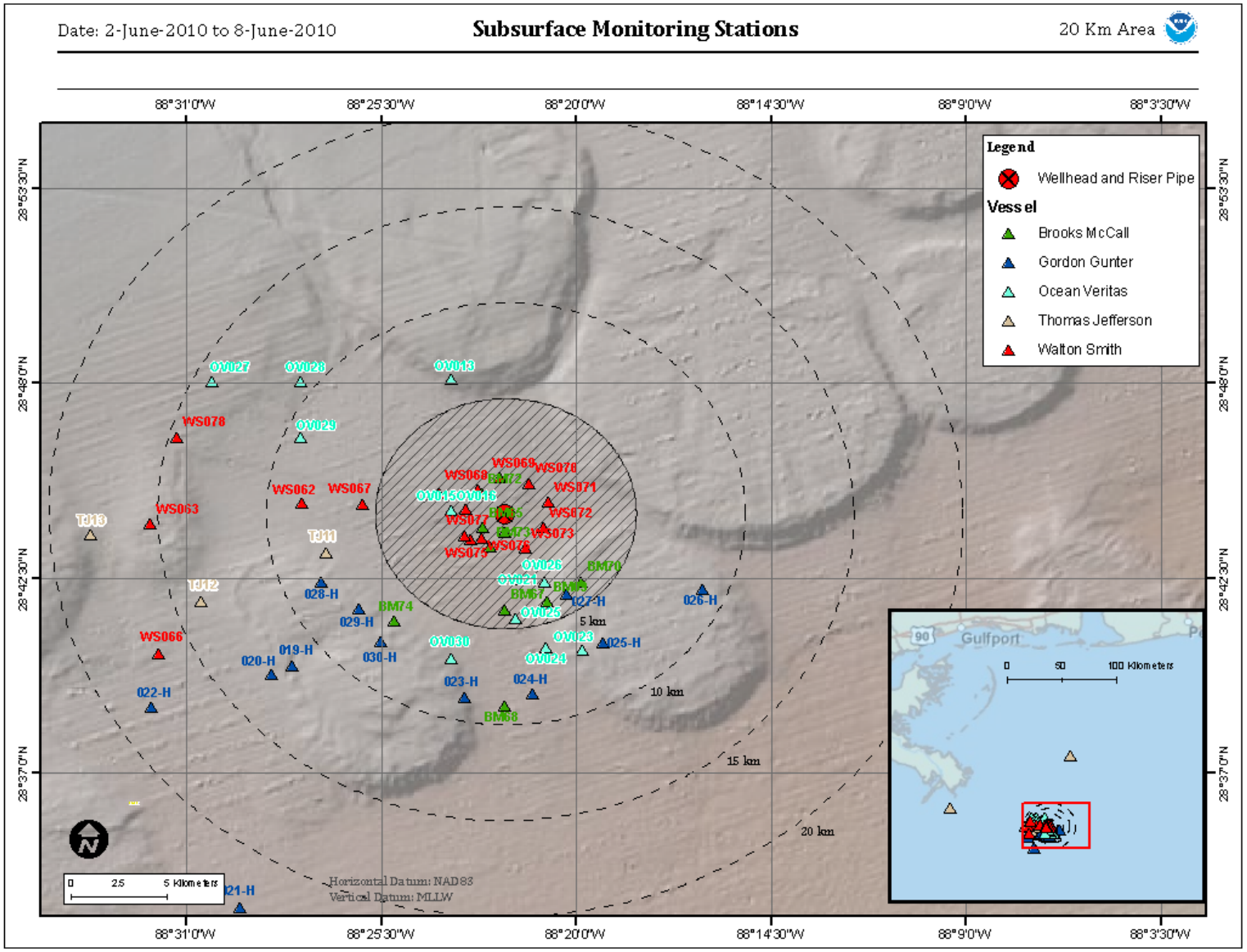


Figure 9: Subsurface Monitoring Stations within 50 km of the Wellhead 02-08 June

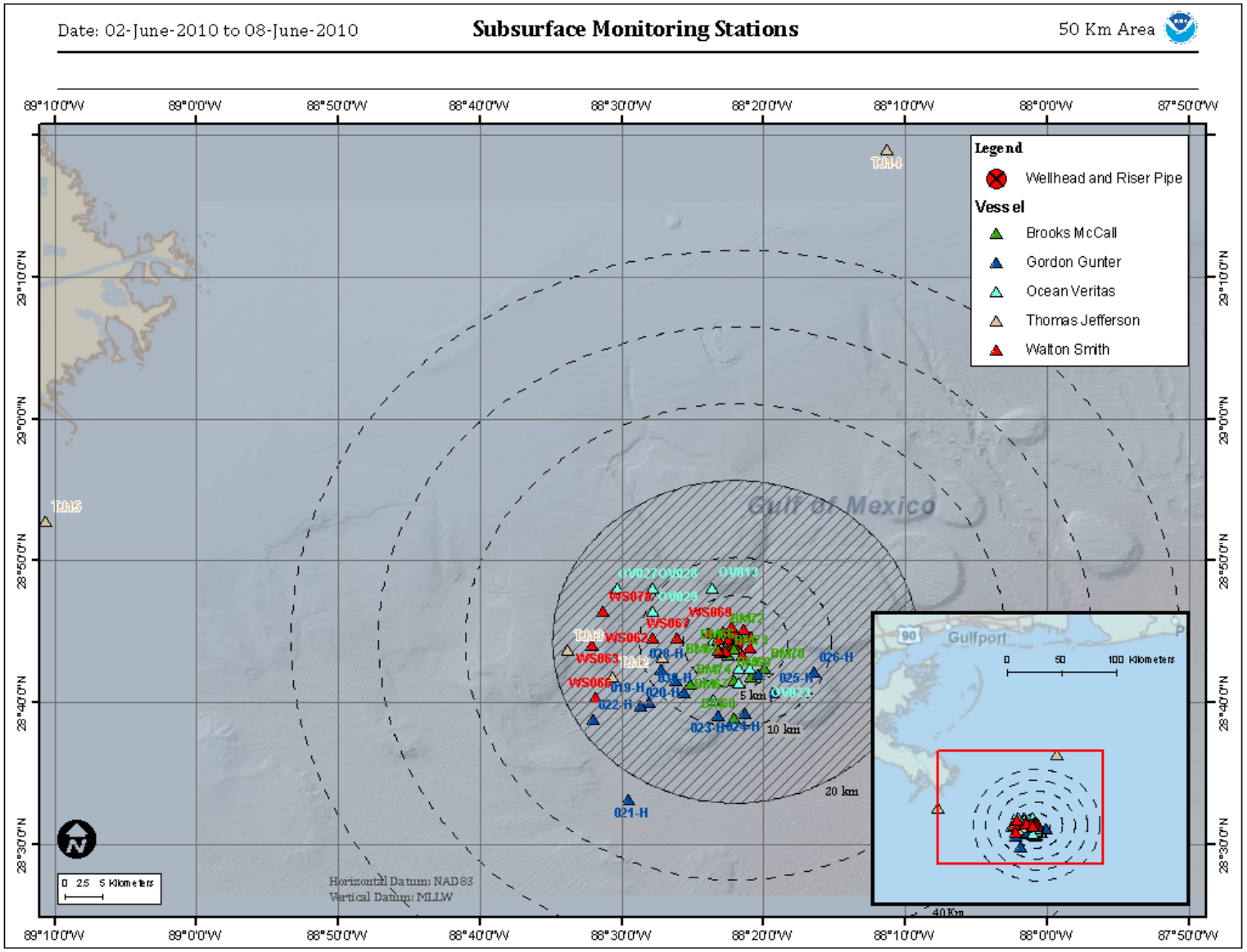


Figure 10: Subsurface Monitoring Stations within 5 km of the Wellhead 09-15 June

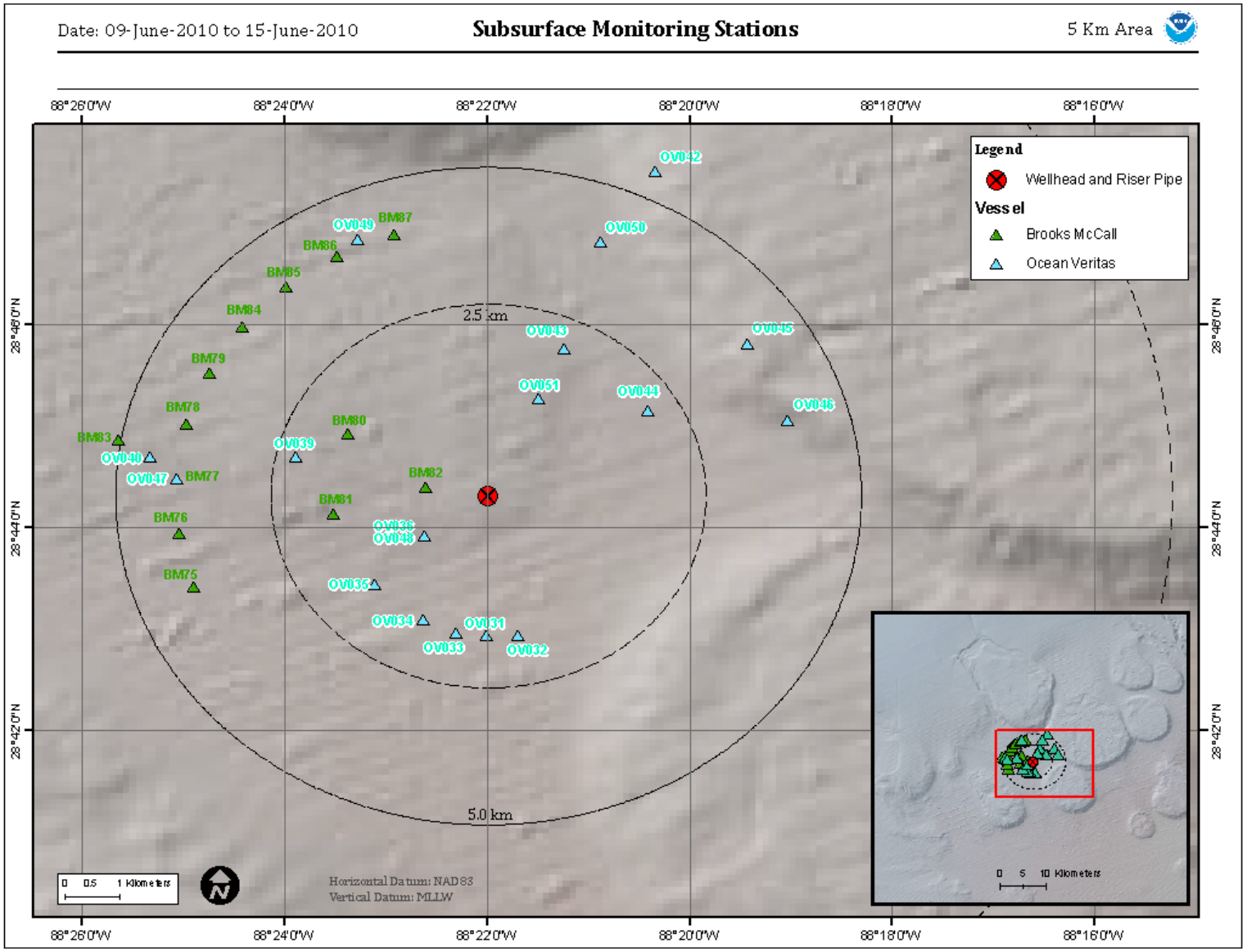


Figure 11: Subsurface Monitoring Stations within 20 km of the Wellhead 09-15 June

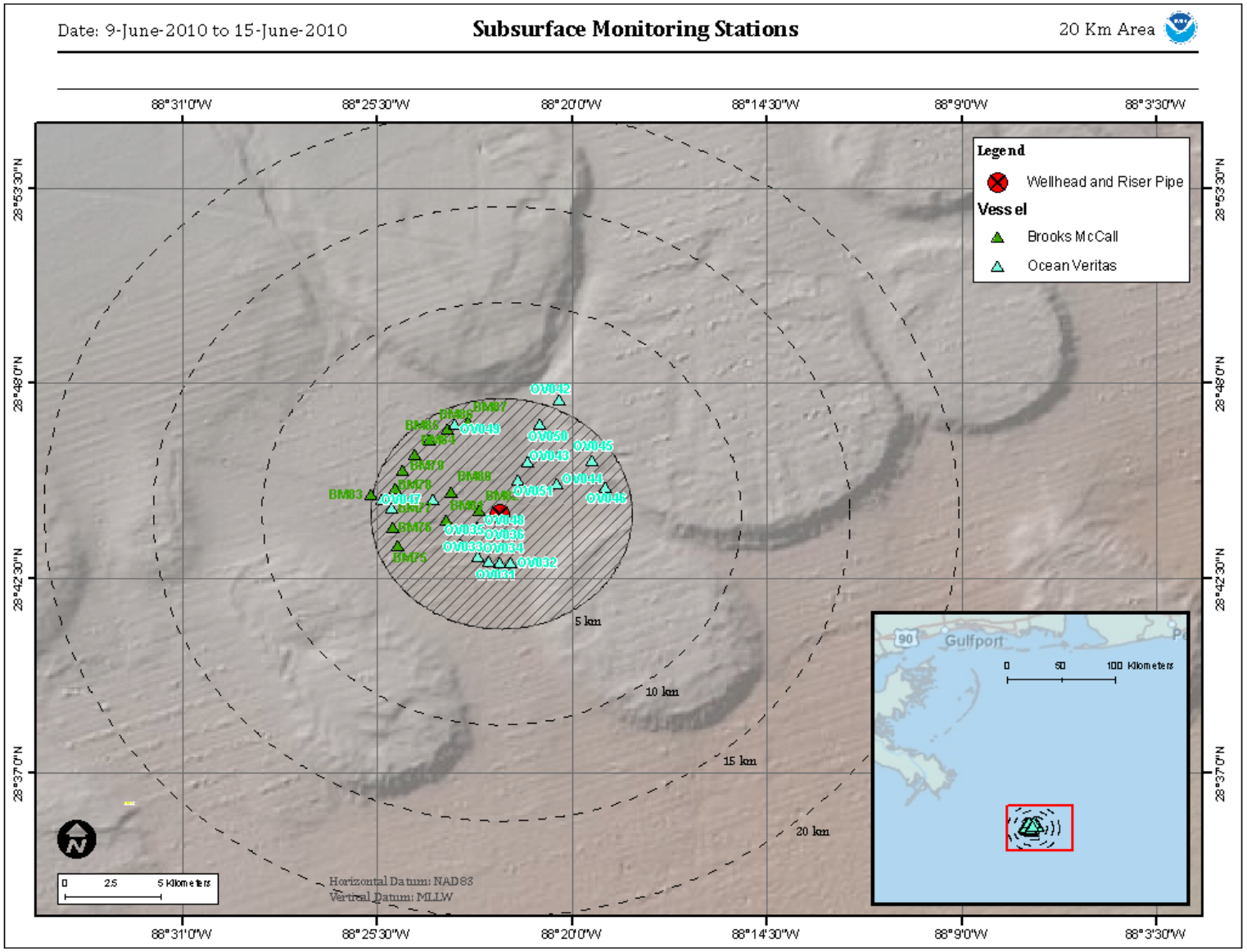


Figure 12: Subsurface Monitoring Stations within 50 km of the Wellhead 09-15 June

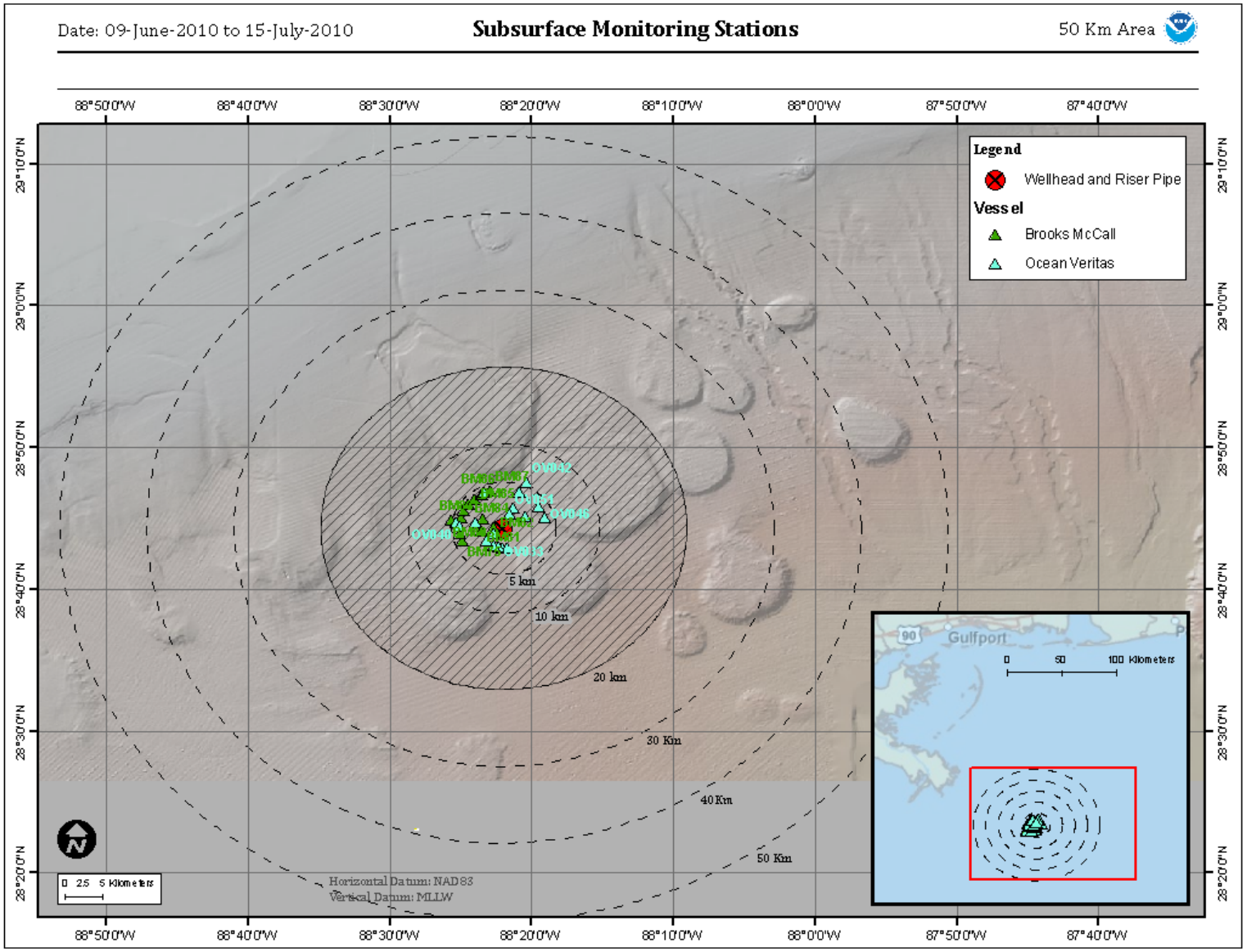


Figure 13: Subsurface Monitoring Stations within 5 km of the Wellhead 16-22 June

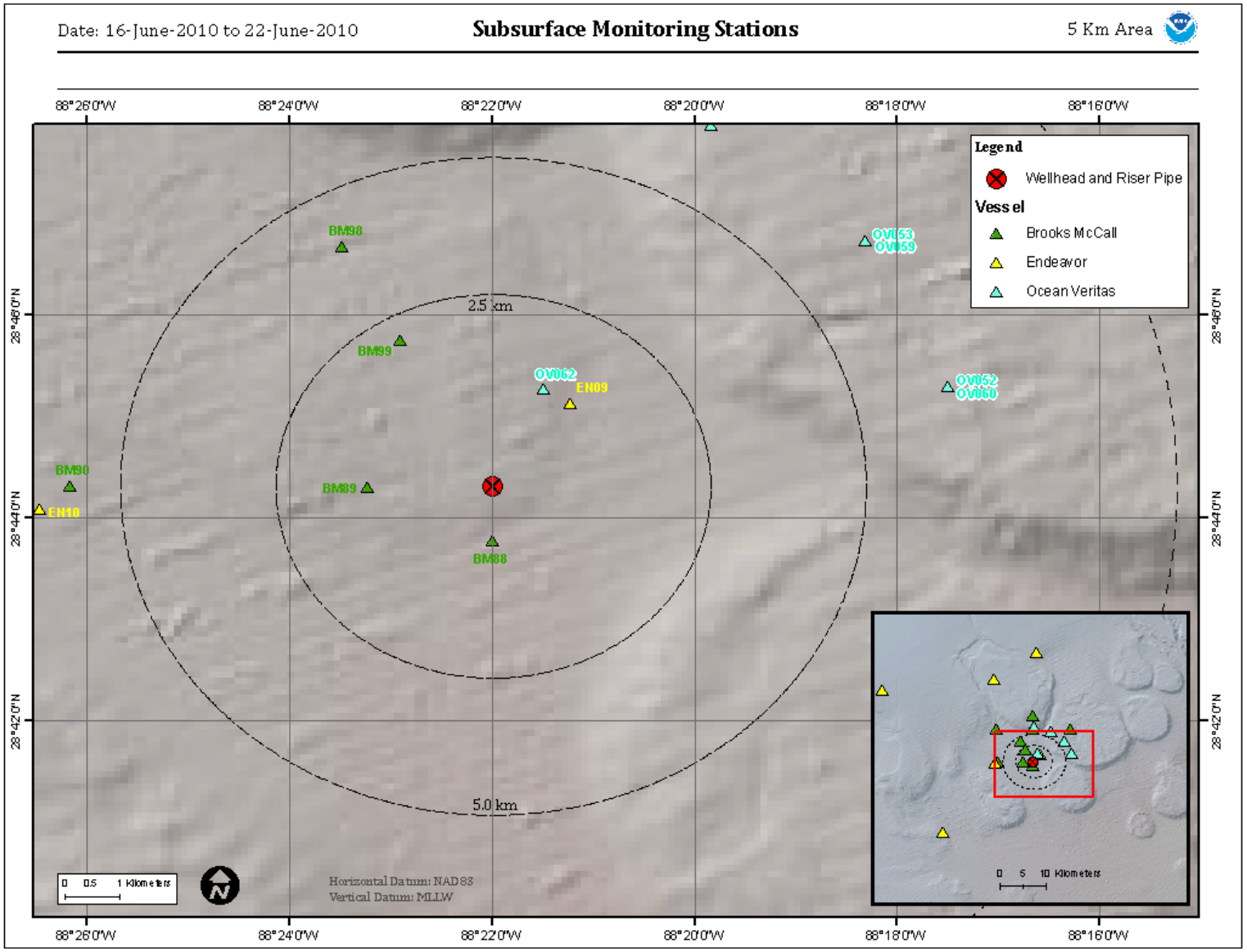


Figure 14: Subsurface Monitoring Stations within 20 km of the Wellhead 16-22 June

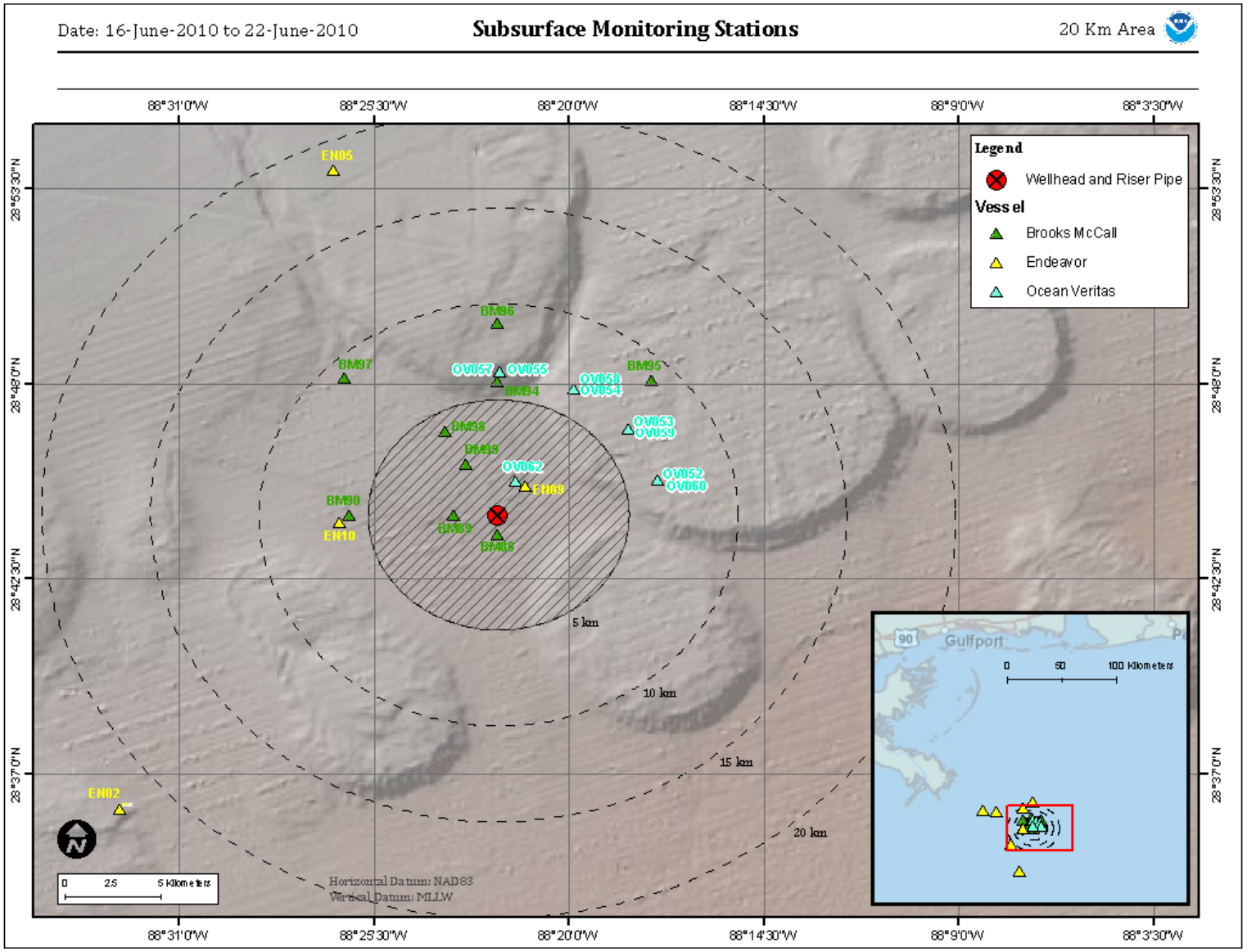


Figure 15: Subsurface Monitoring Stations within 50 km of the Wellhead 16-22 June

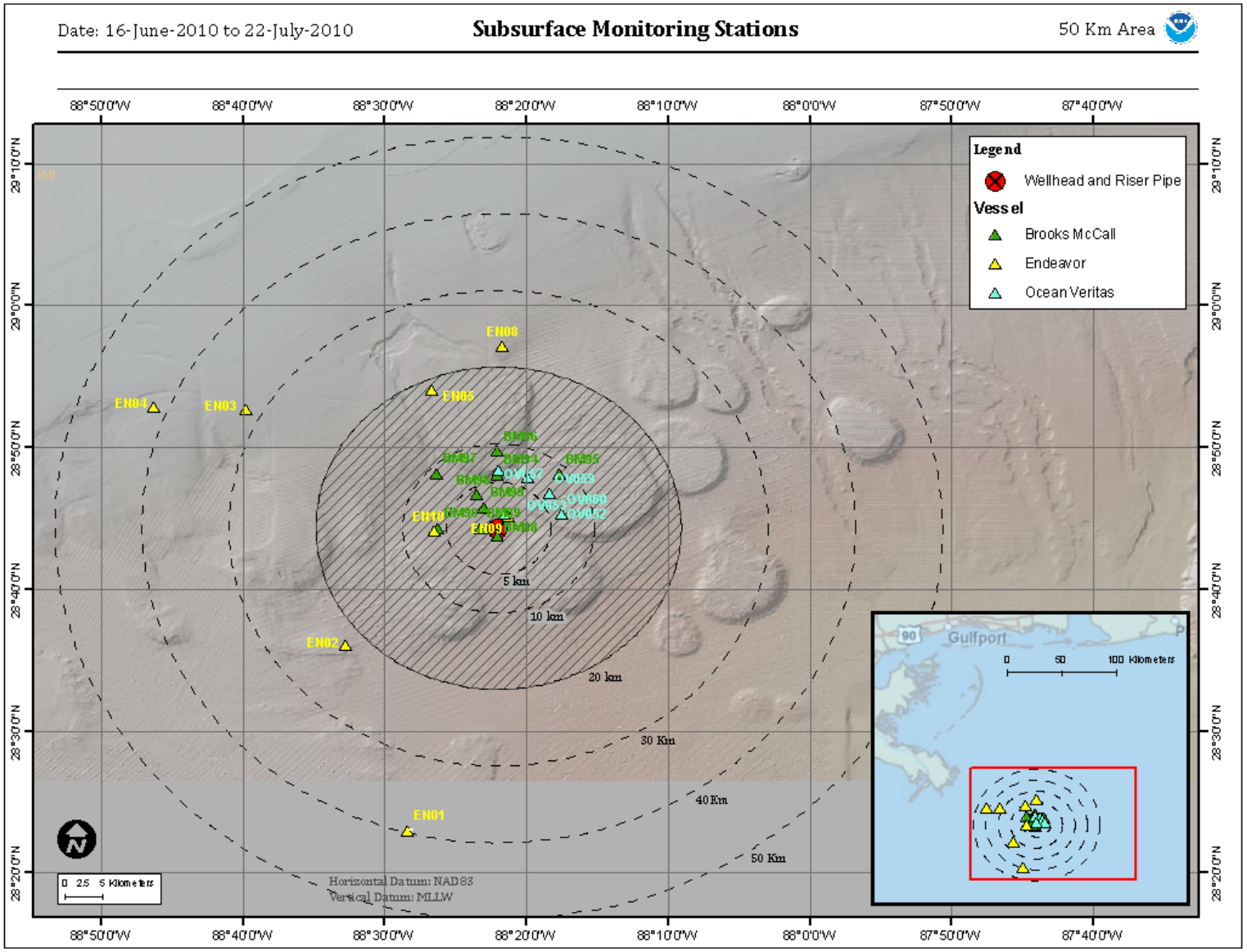


Figure 16: Subsurface Monitoring Stations within 5 km of the Wellhead 23-29 June

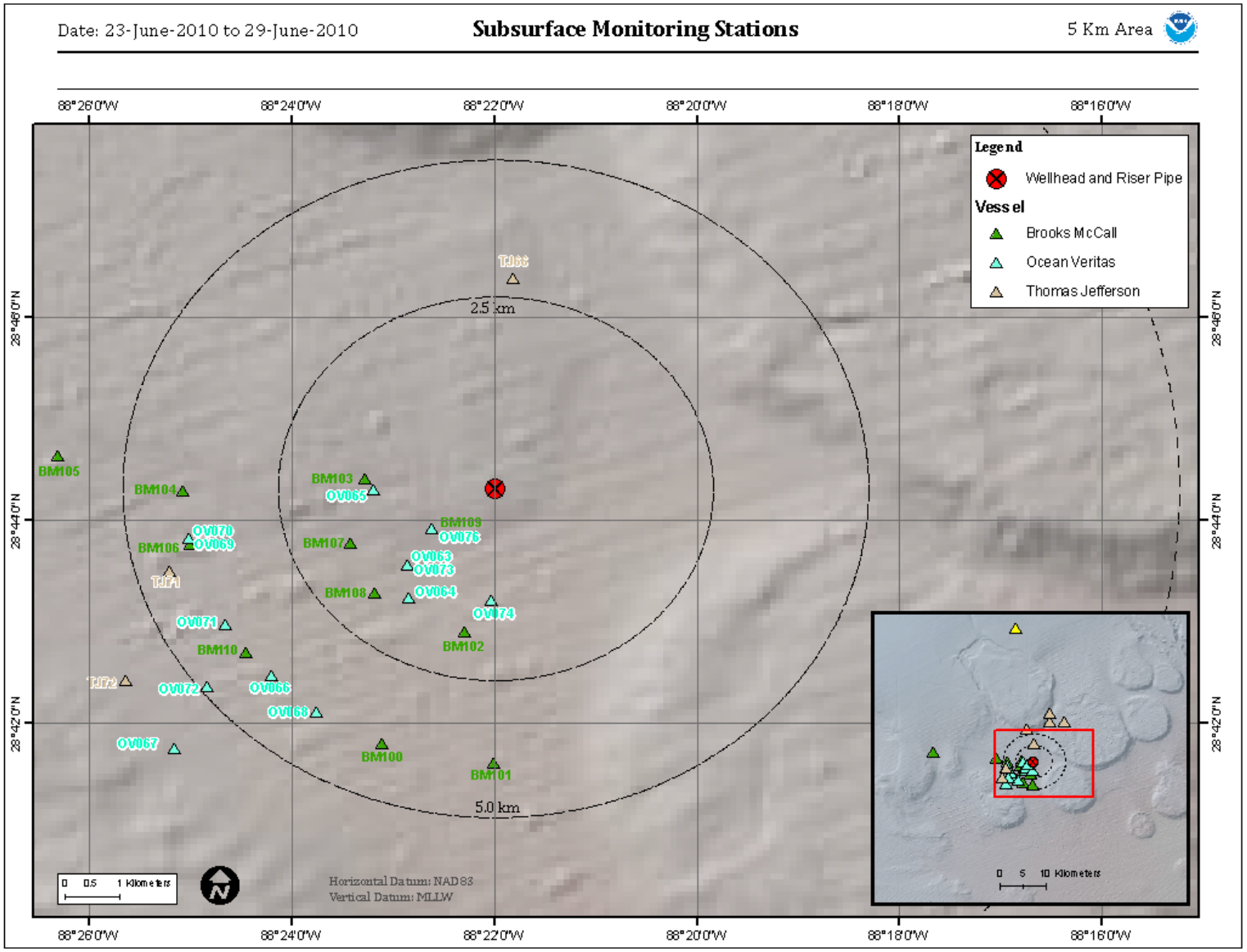


Figure 17: Subsurface Monitoring Stations within 20 km of the Wellhead 23-29 June

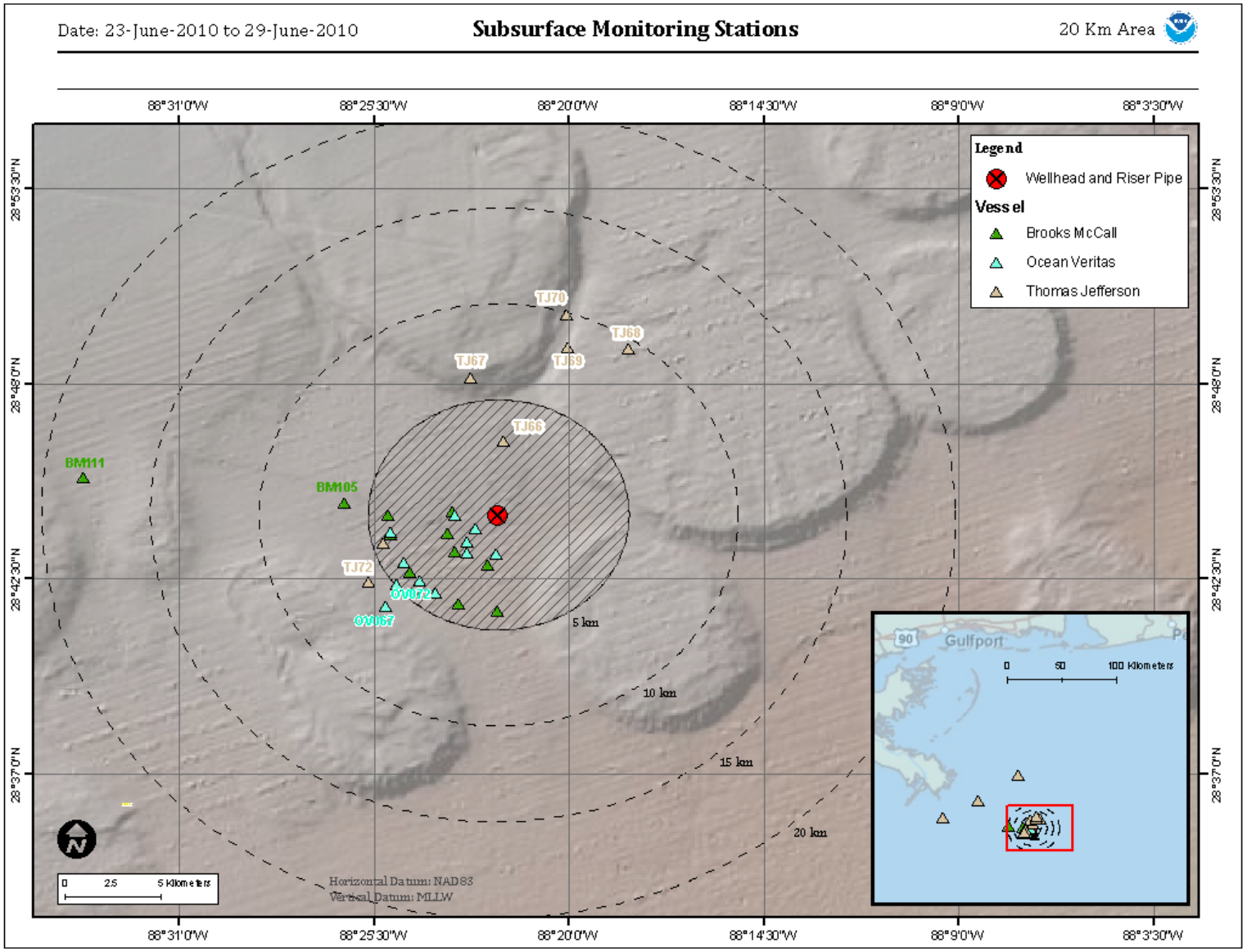


Figure 18: Subsurface Monitoring Stations within 50 km of the Wellhead 23-29 June

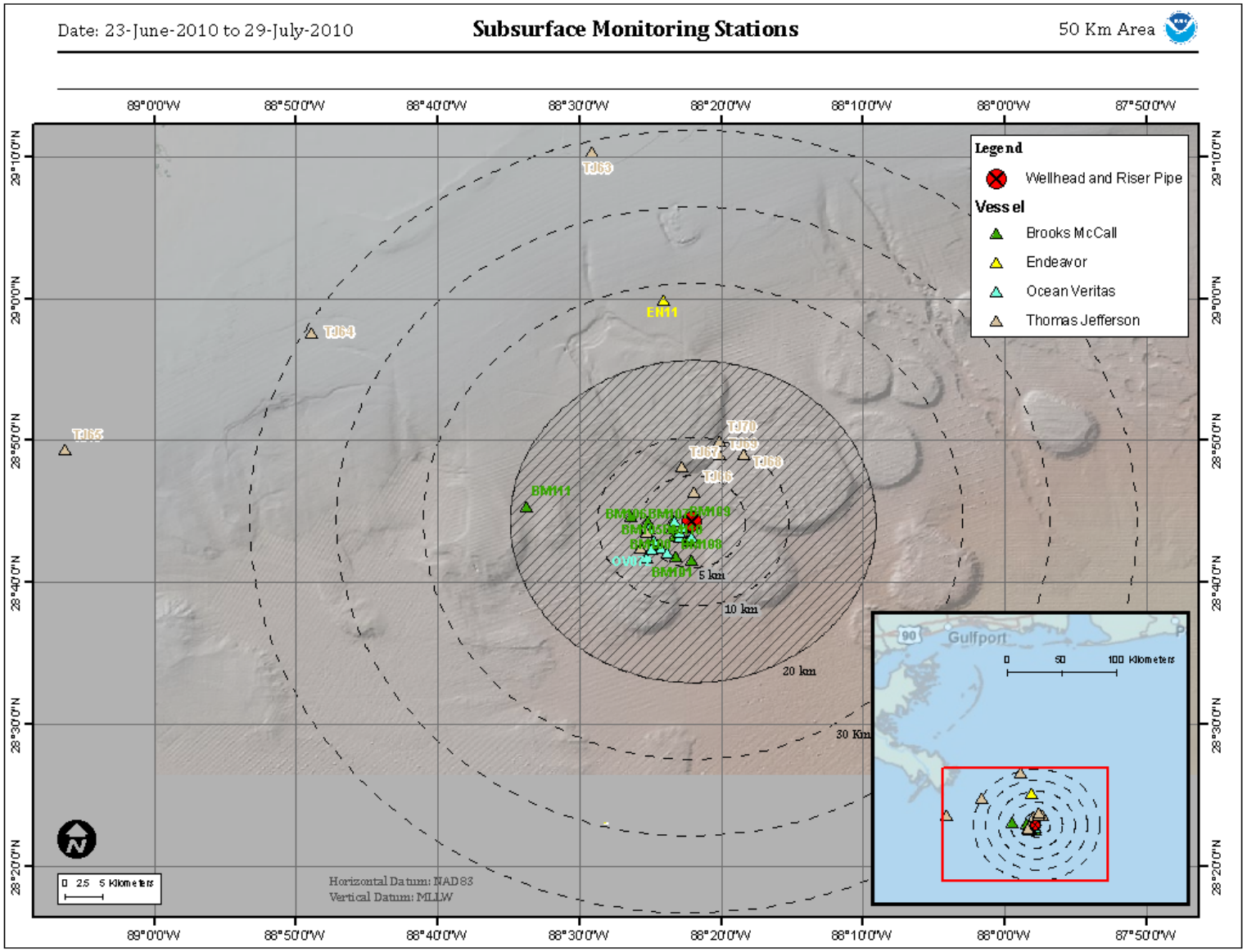


Figure 19: Subsurface Monitoring Stations within 5 km of the Wellhead 30 June – 06 July

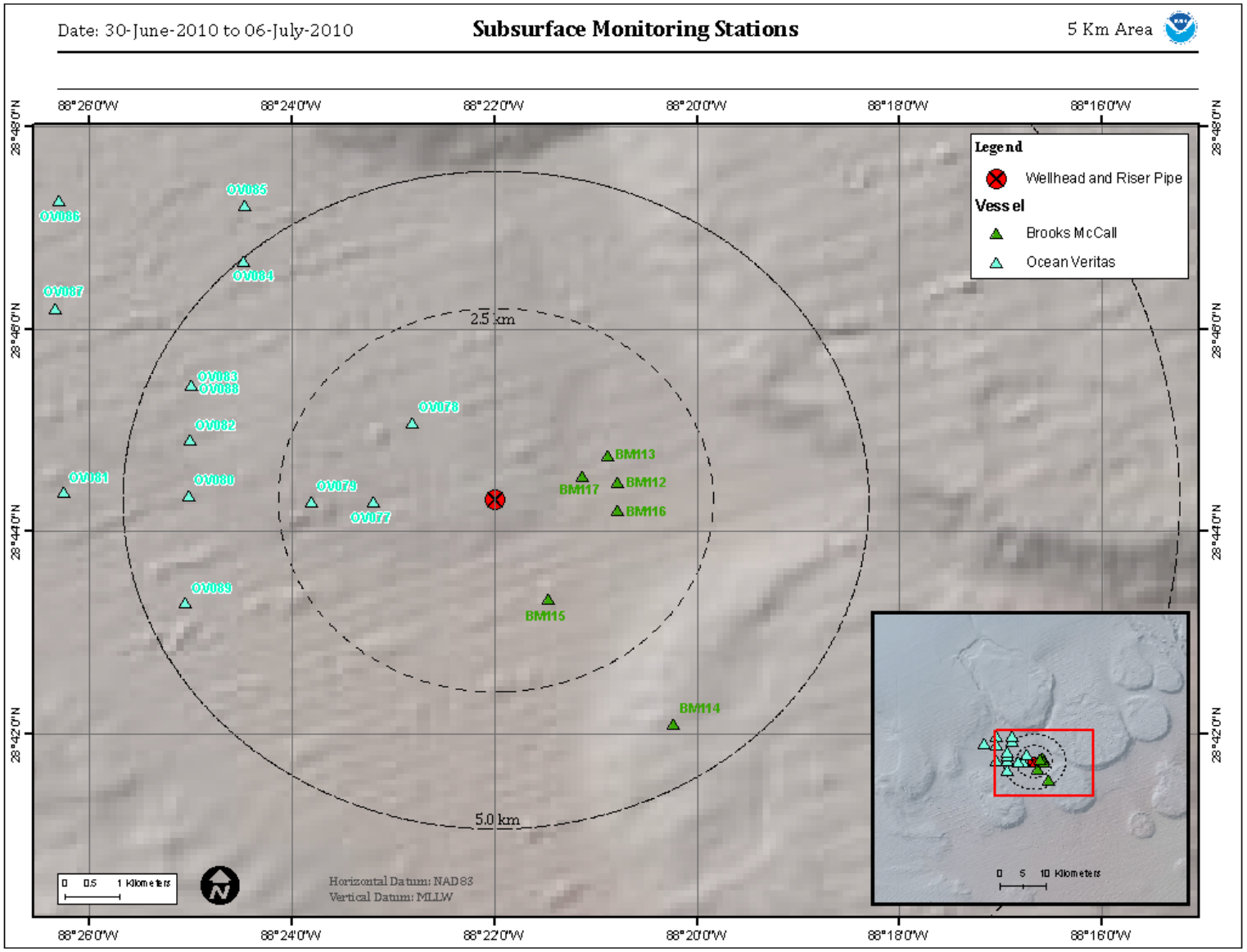


Figure 20: Subsurface Monitoring Stations within 20 km of the Wellhead 30 June – 06 July

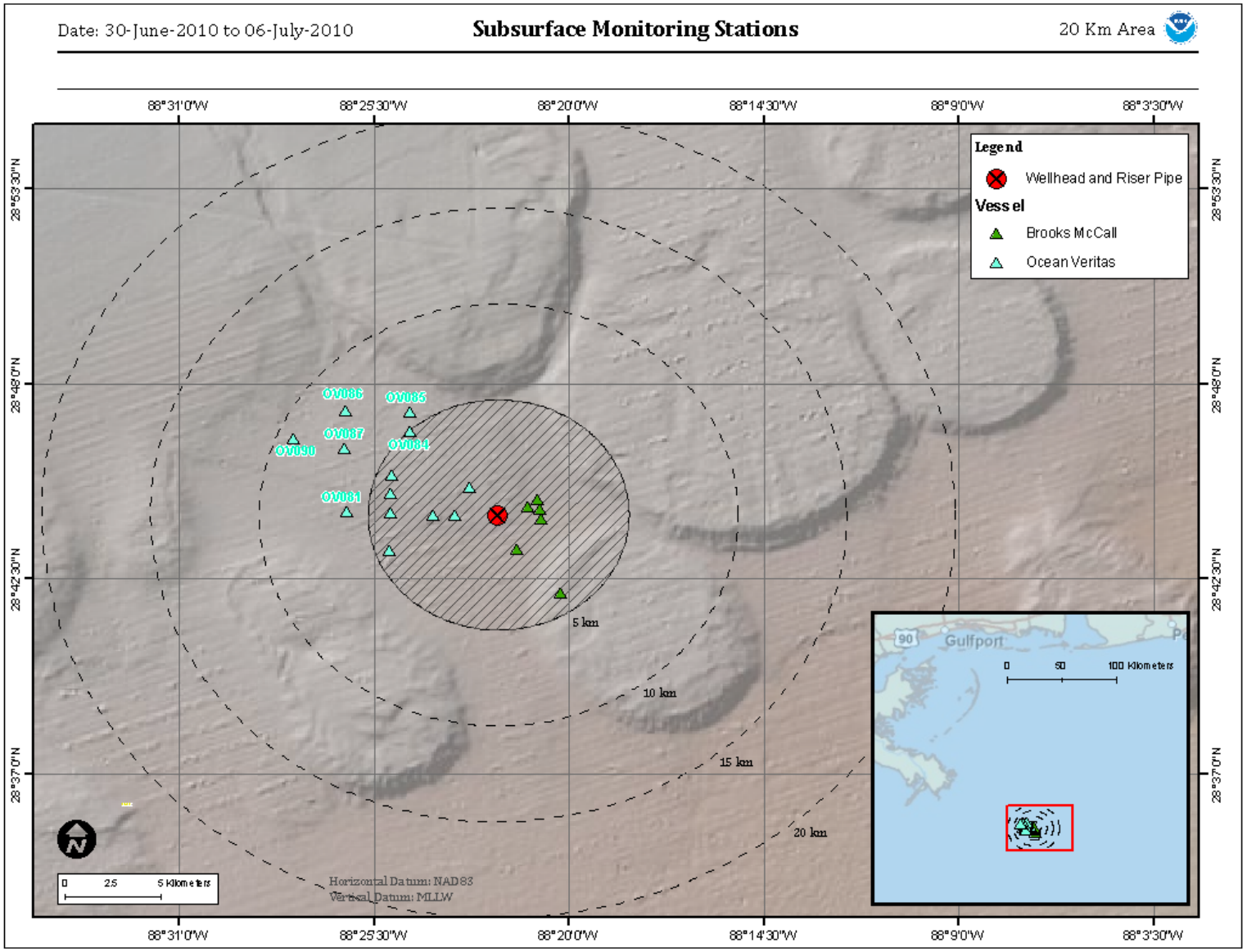


Figure 21: Subsurface Monitoring Stations within 50 km of the Wellhead 30 June – 06 July

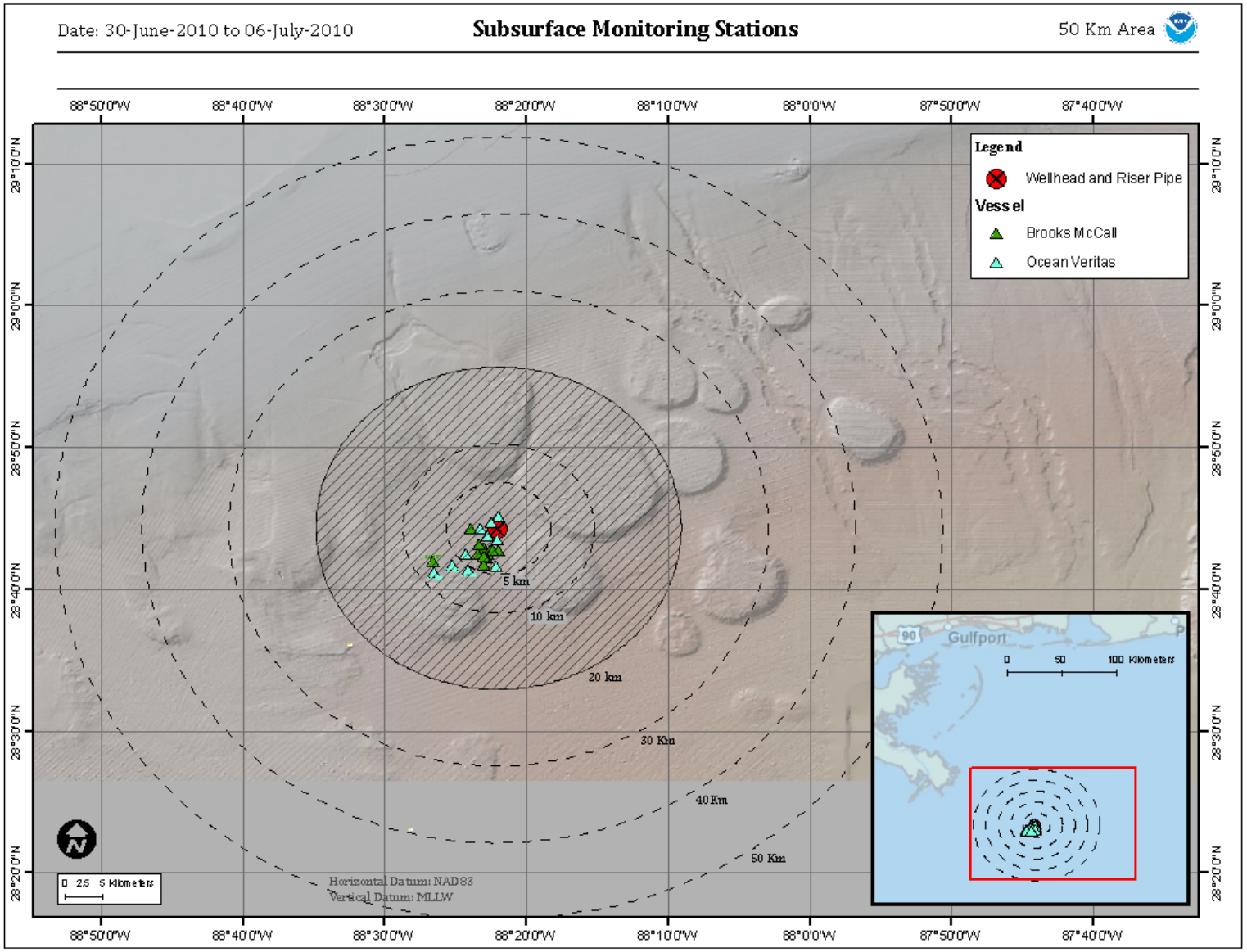


Figure 22: Subsurface Monitoring Stations within 5 km of the Wellhead 06-13 July

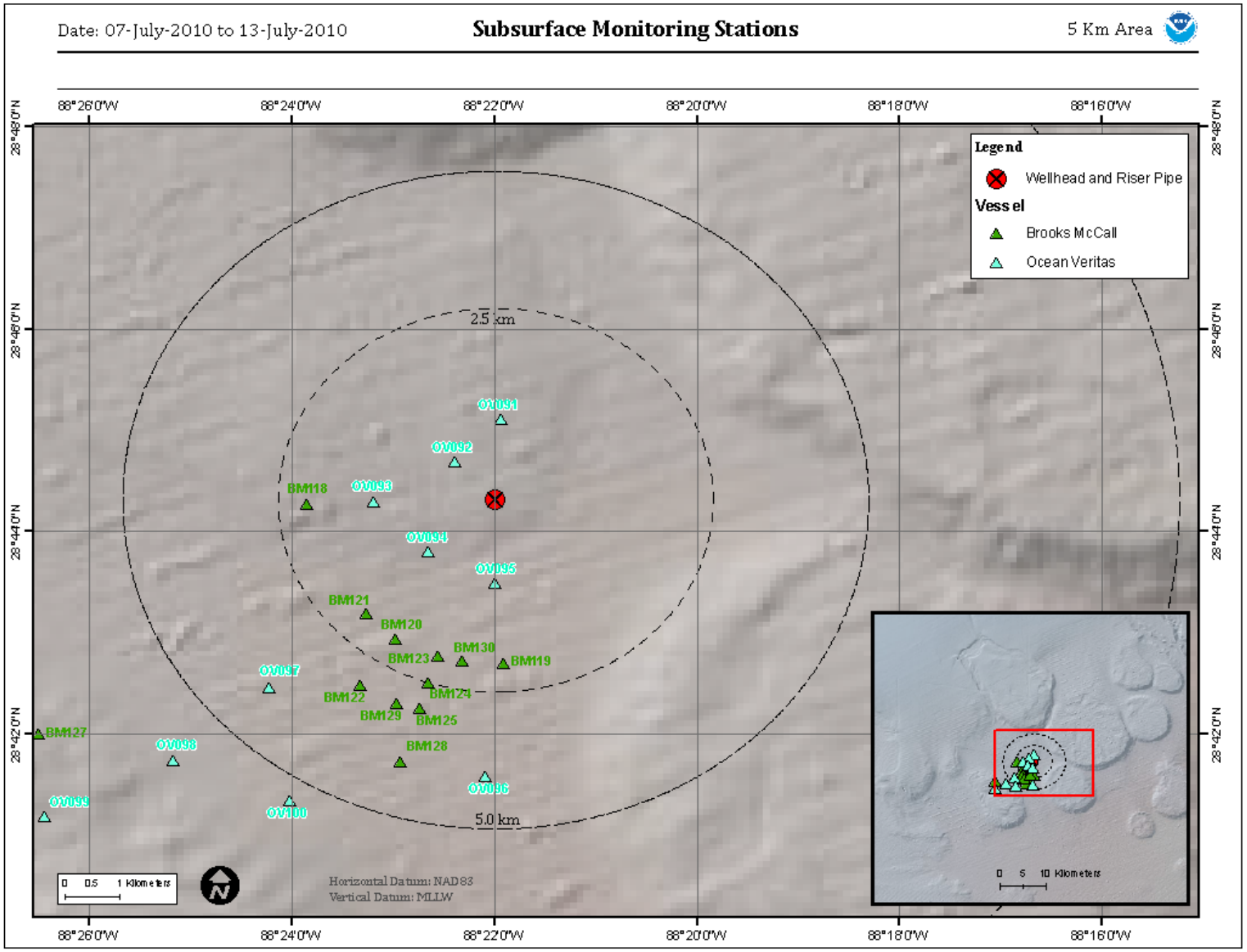


Figure 23: Subsurface Monitoring Stations within 20 km of the Wellhead 06-13 July

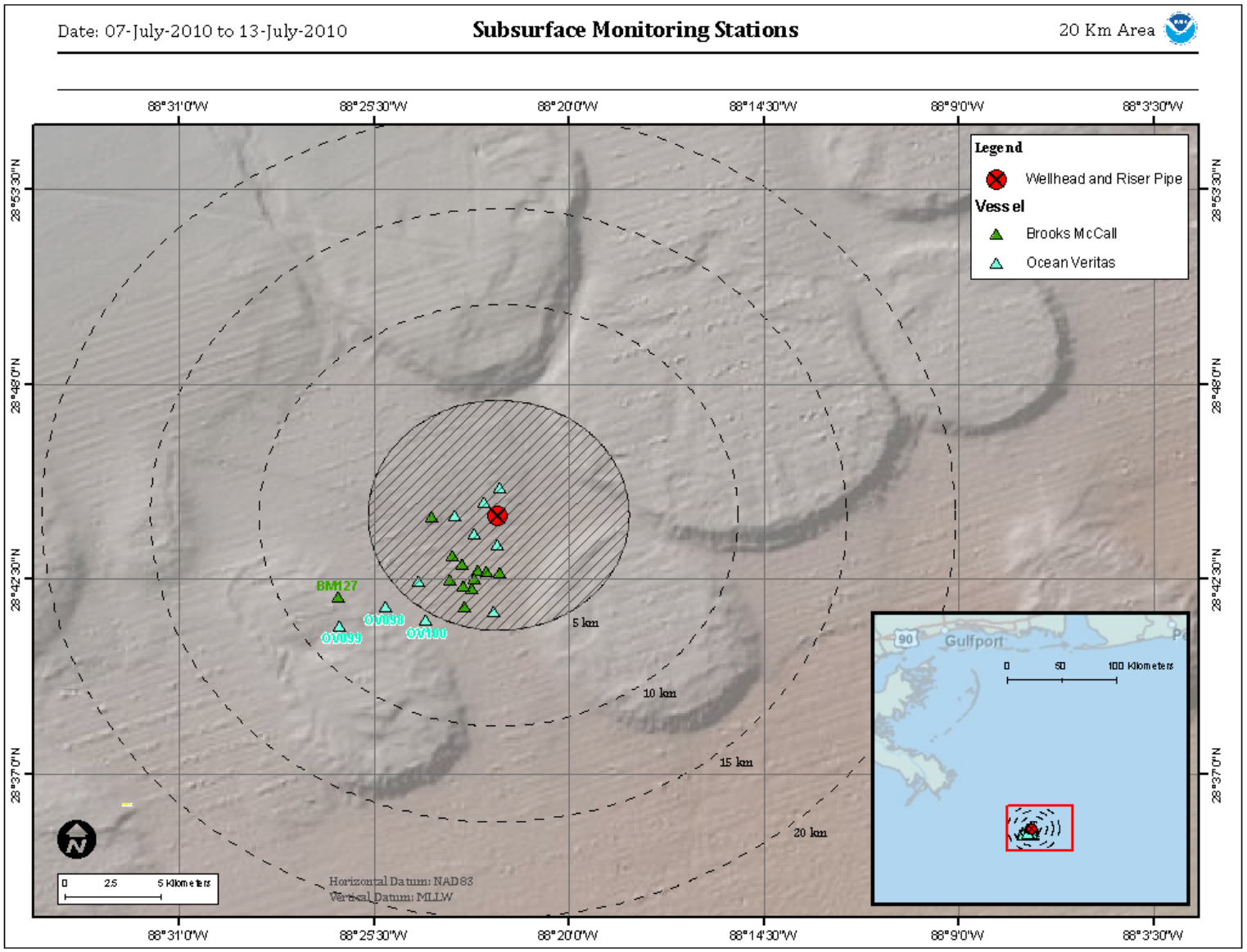


Figure 24: Subsurface Monitoring Stations within 50 km of the Wellhead 06-13 July

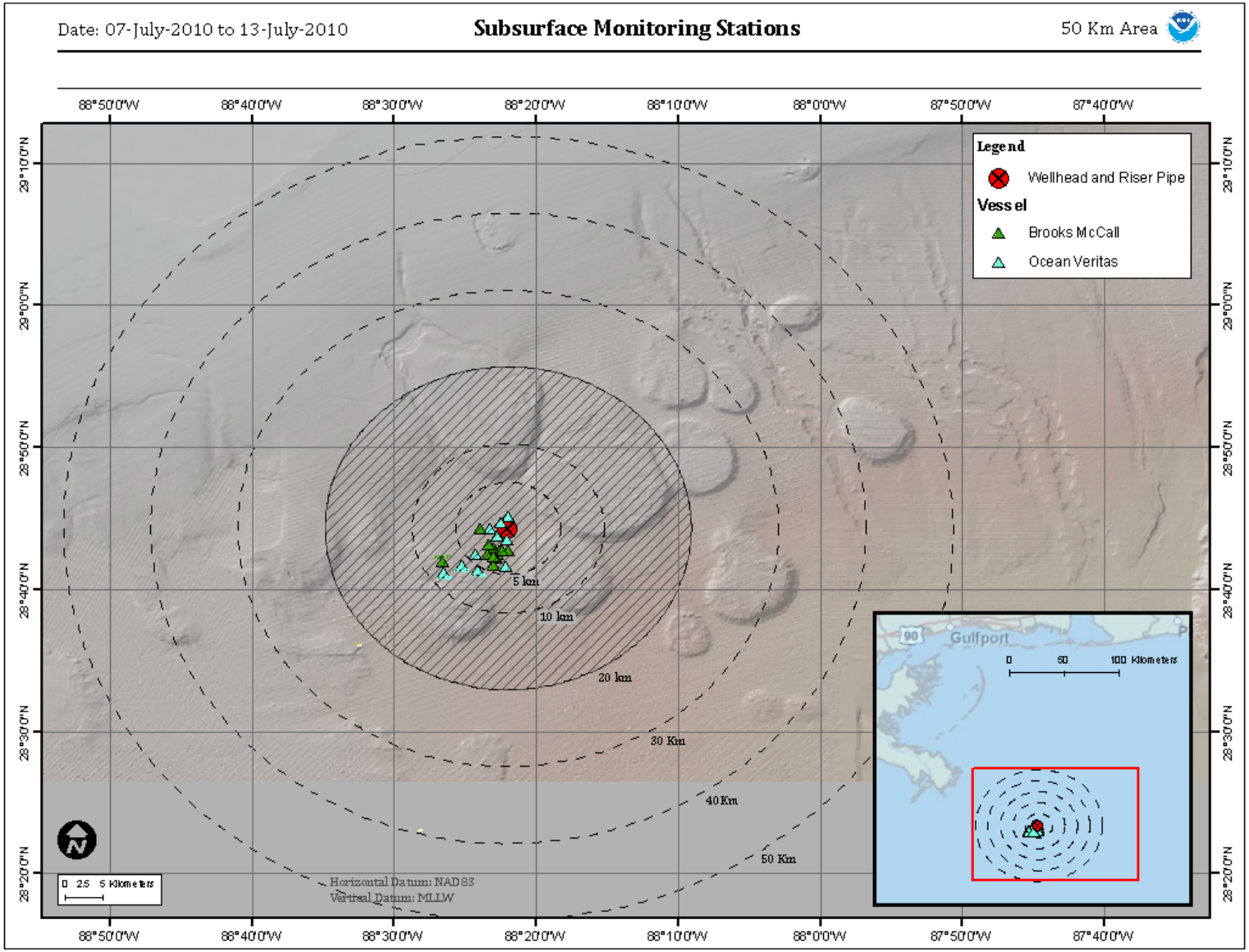
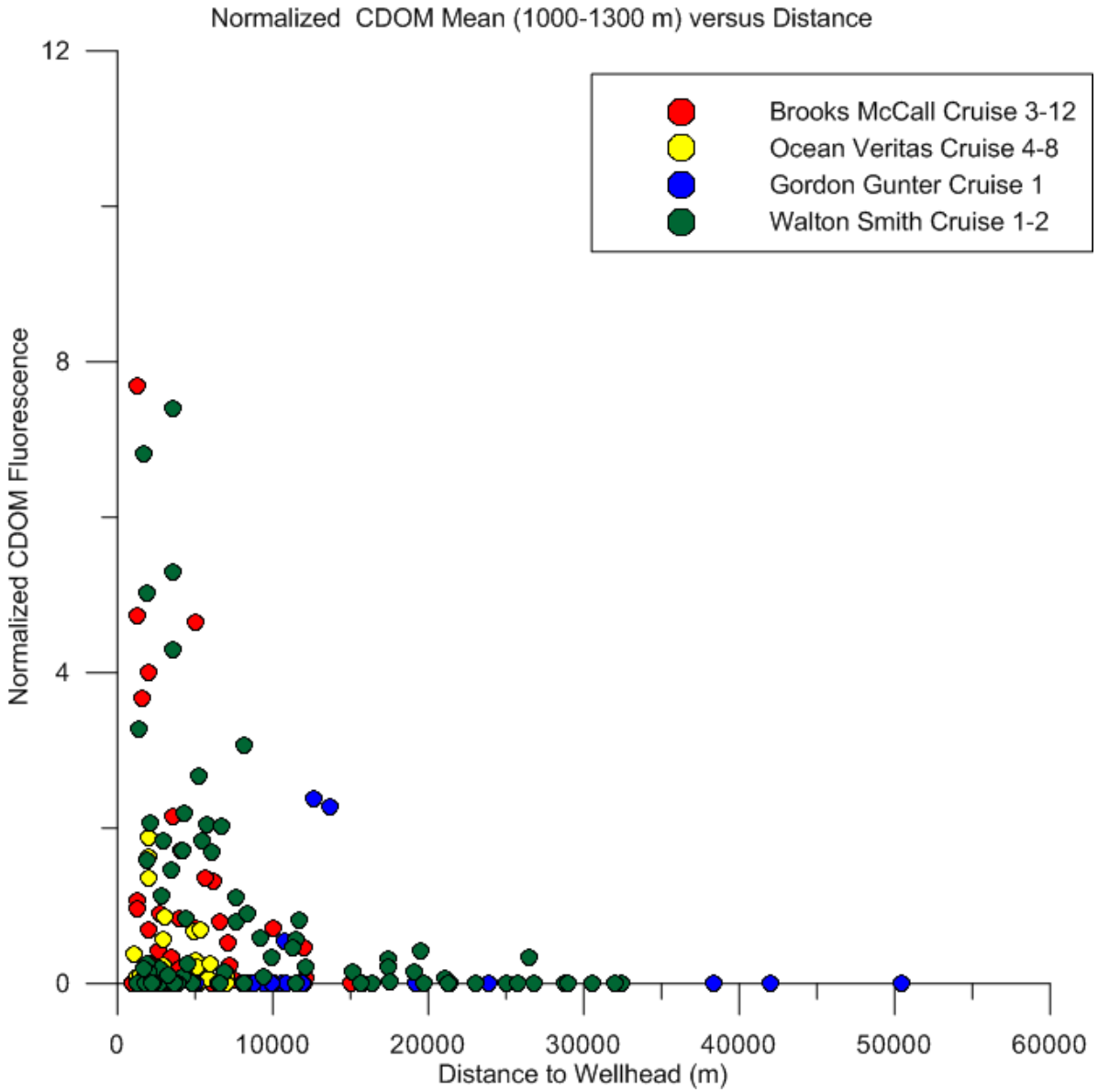
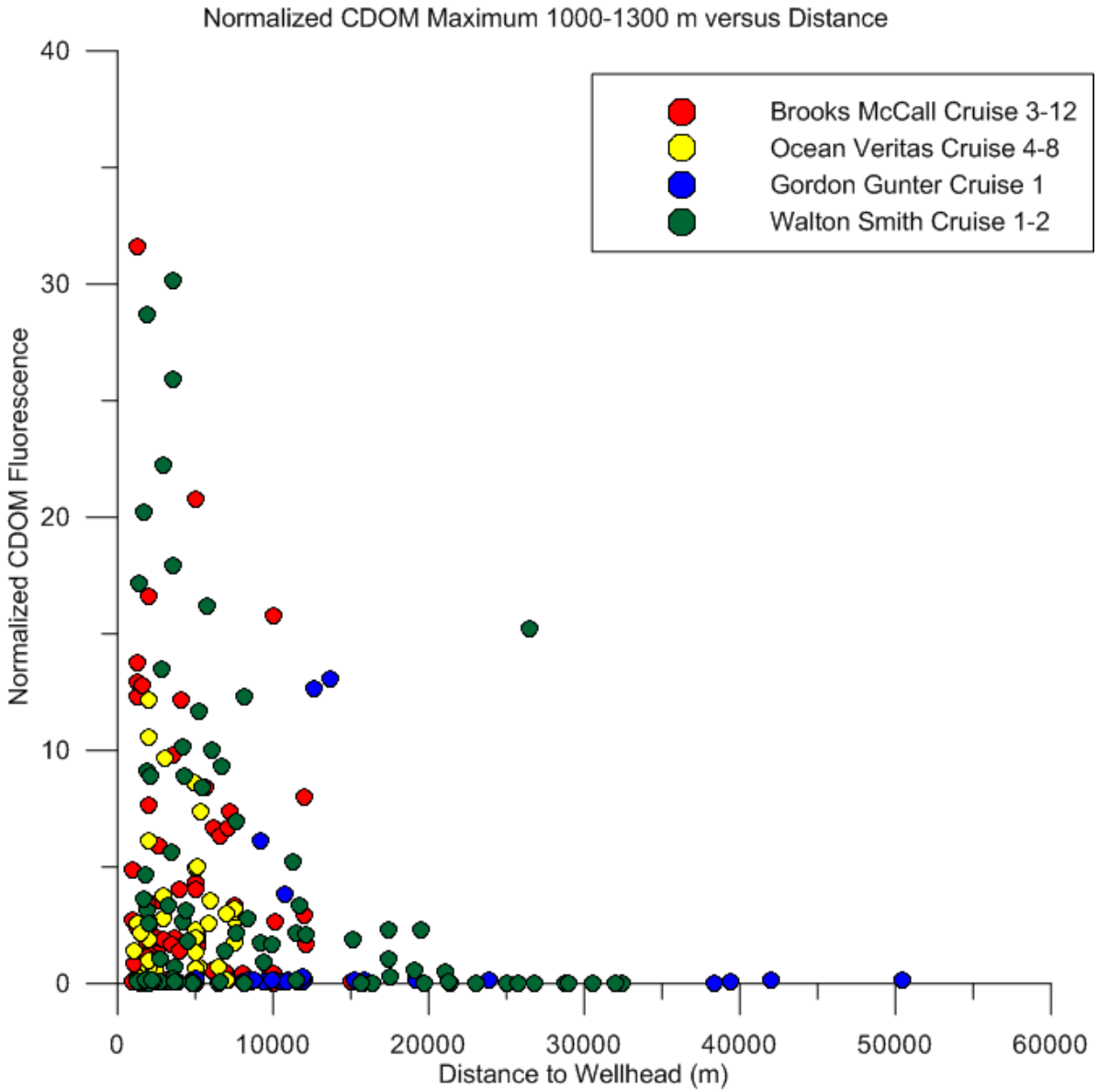


Figure 25: Mean Fluorescence (ppb QSDE) vs. Distance from the Wellhead (May 19-July



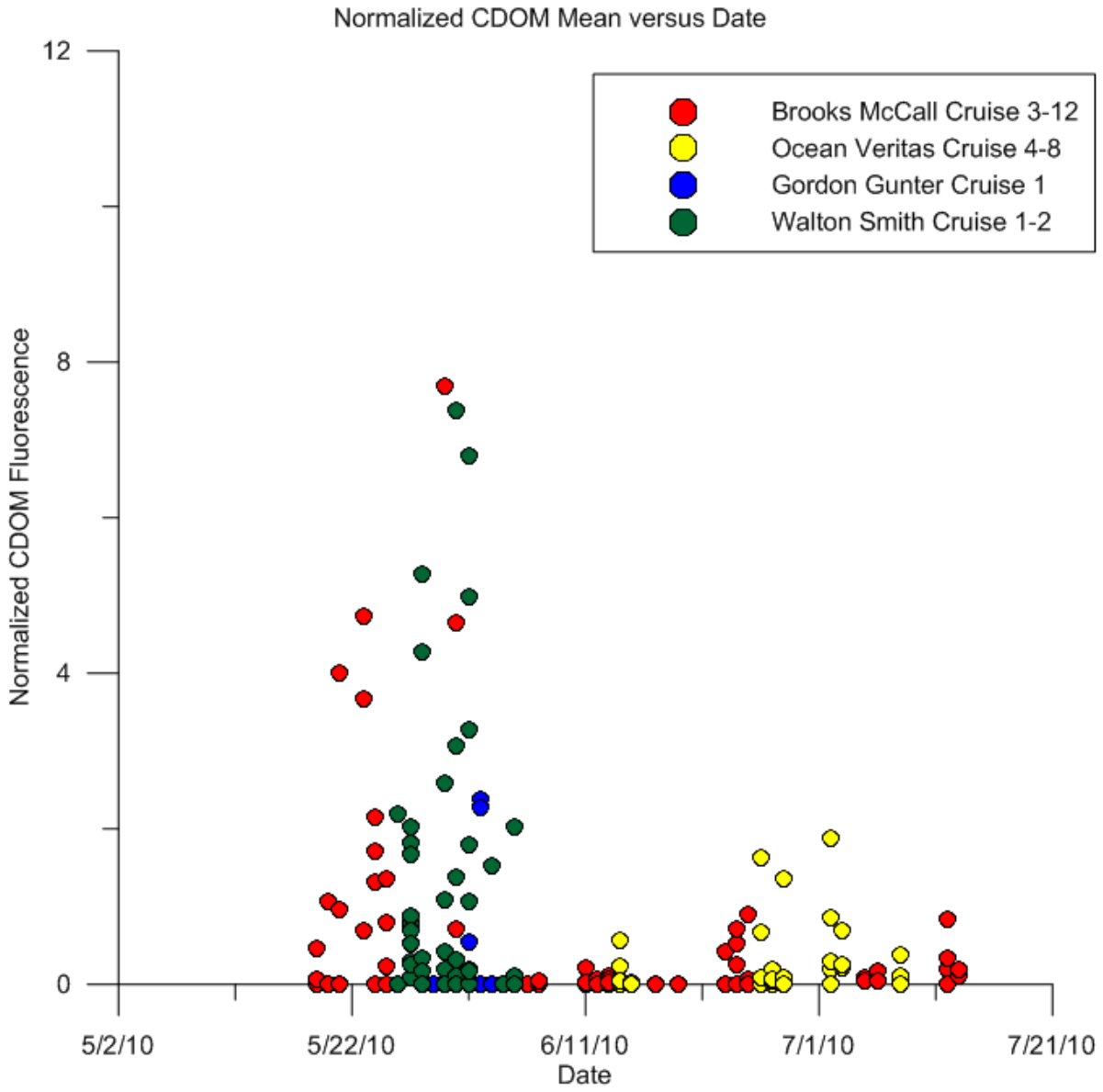
Preliminary Data Subject to Change

Figure 26: Maximum Fluorescence (ppb QSDE) vs. Distance from the Wellhead (May 19-July 13)



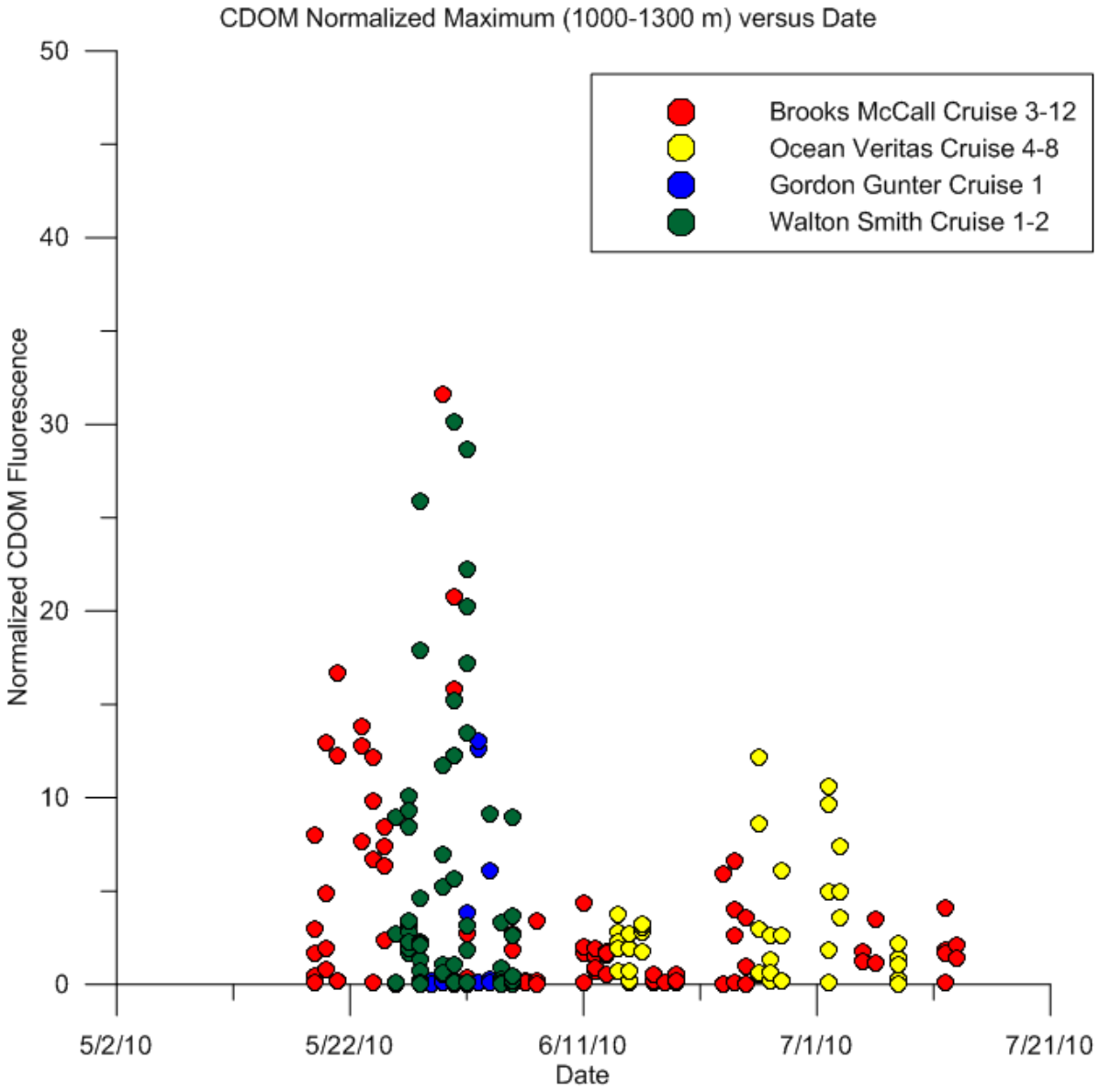
Preliminary Data Subject to Change

Figure 27: Mean Fluorescence (ppb QSDE) vs. Time of Observation (May 19-July 13)



Preliminary Data Subject to Change

Figure 28: Maximum Fluorescence (ppb QSDE) vs. Time of Observation (May 19-July 13)



Preliminary Data Subject to Change

Figure 29: Mean Fluorescence ppb (QSDE) between 1000-1300m on 19 May 2010

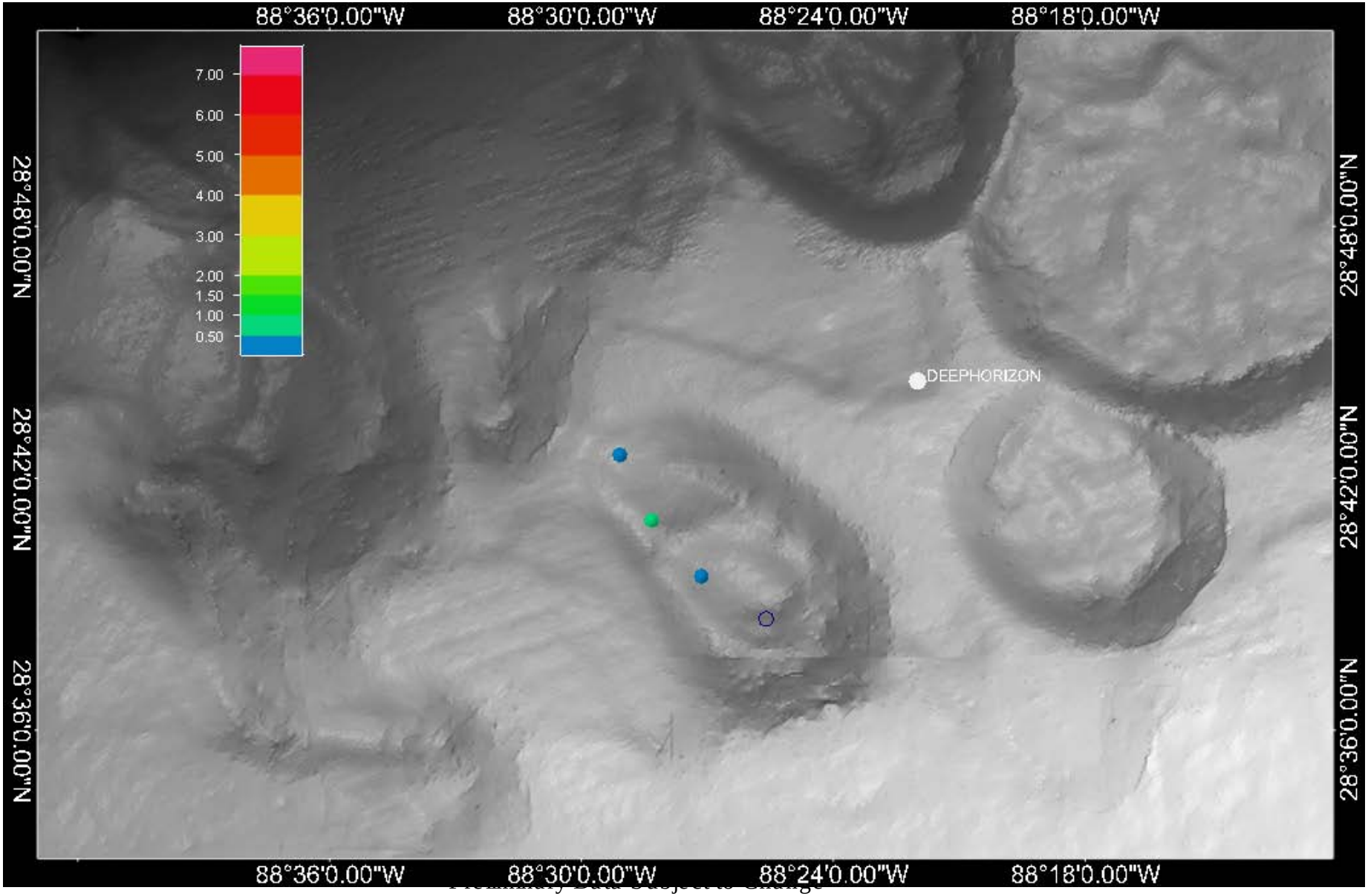


Figure 30: Mean Fluorescence ppb (QSDE) between 1000-1300m on 20 May 2010

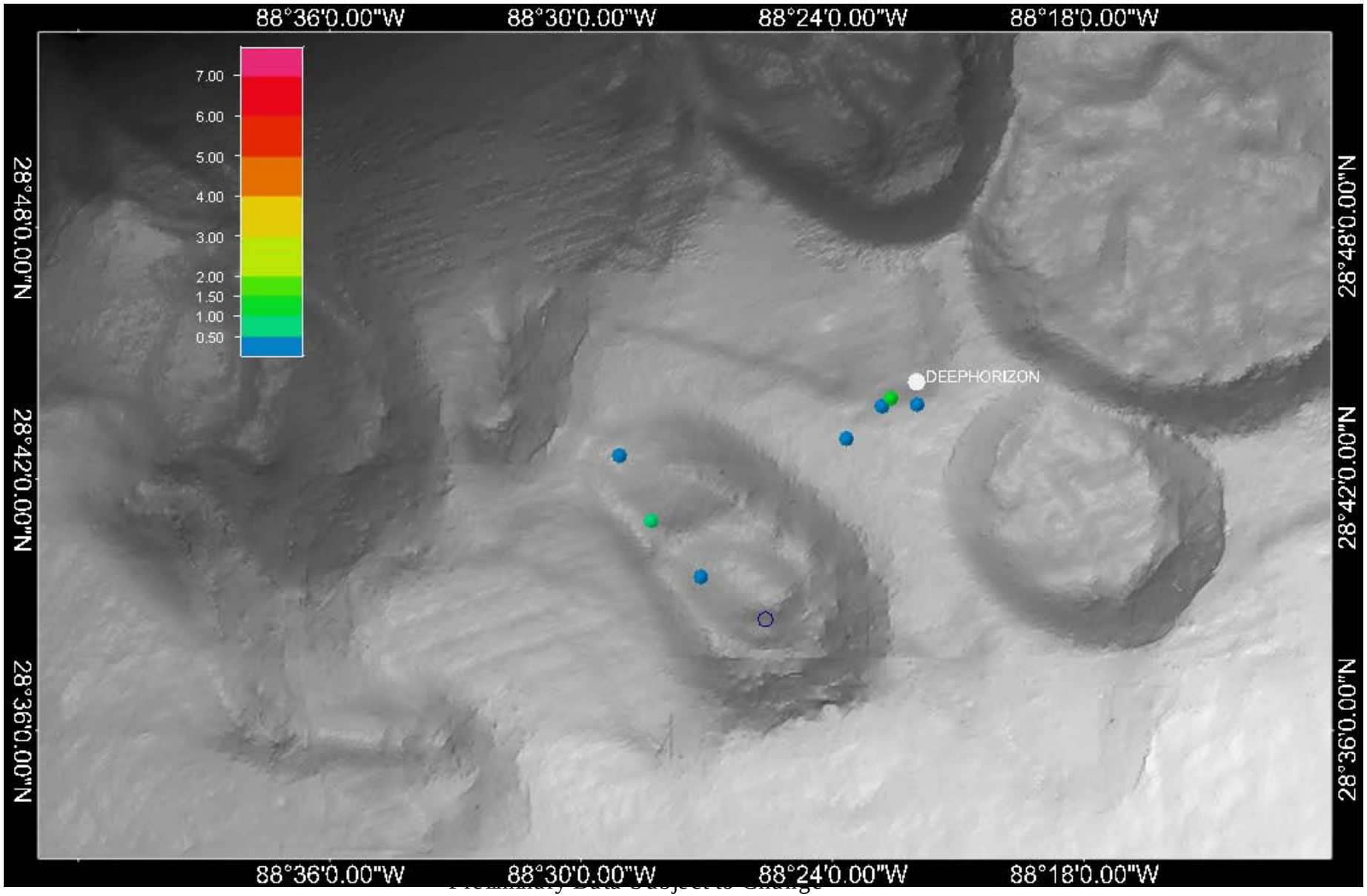


Figure 31: Mean Fluorescence ppb (QSDE) between 1000-1300m on 21 May 2010

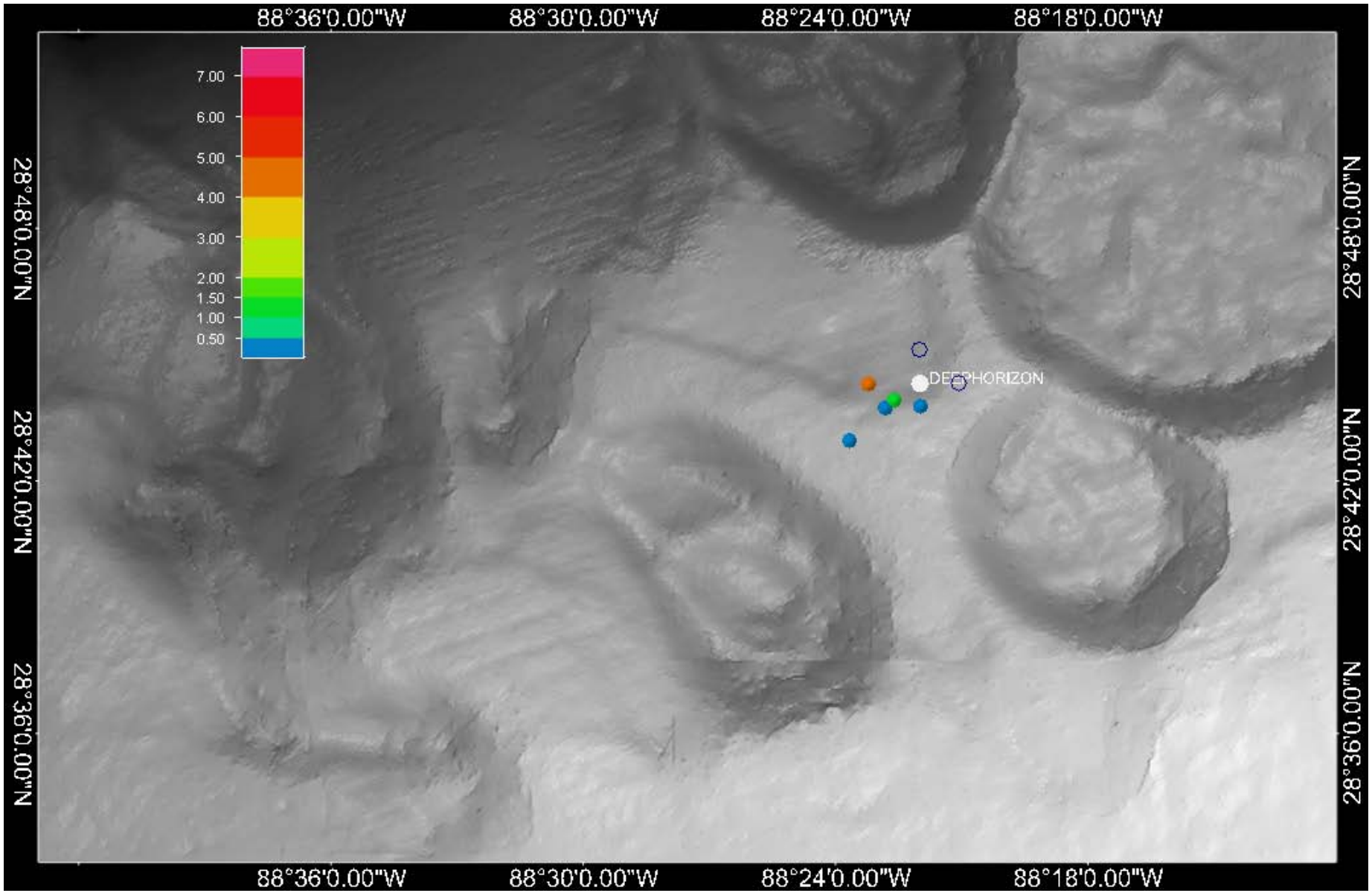


Figure 32: Mean Fluorescence ppb (QSDE) between 1000-1300m on 22 May 2010

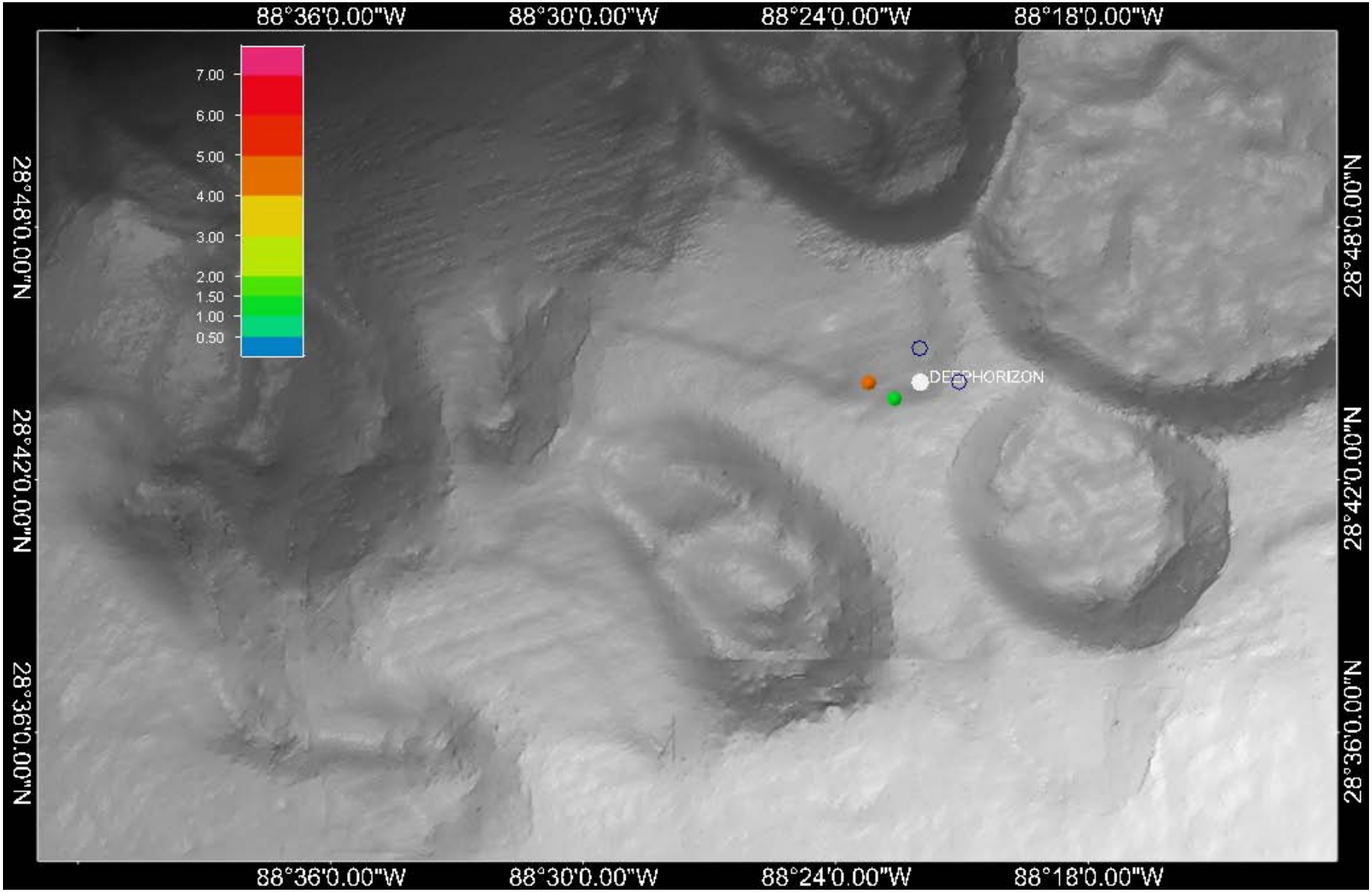


Figure 33: Mean Fluorescence ppb (QSDE) between 1000-1300m on 23 May 2010

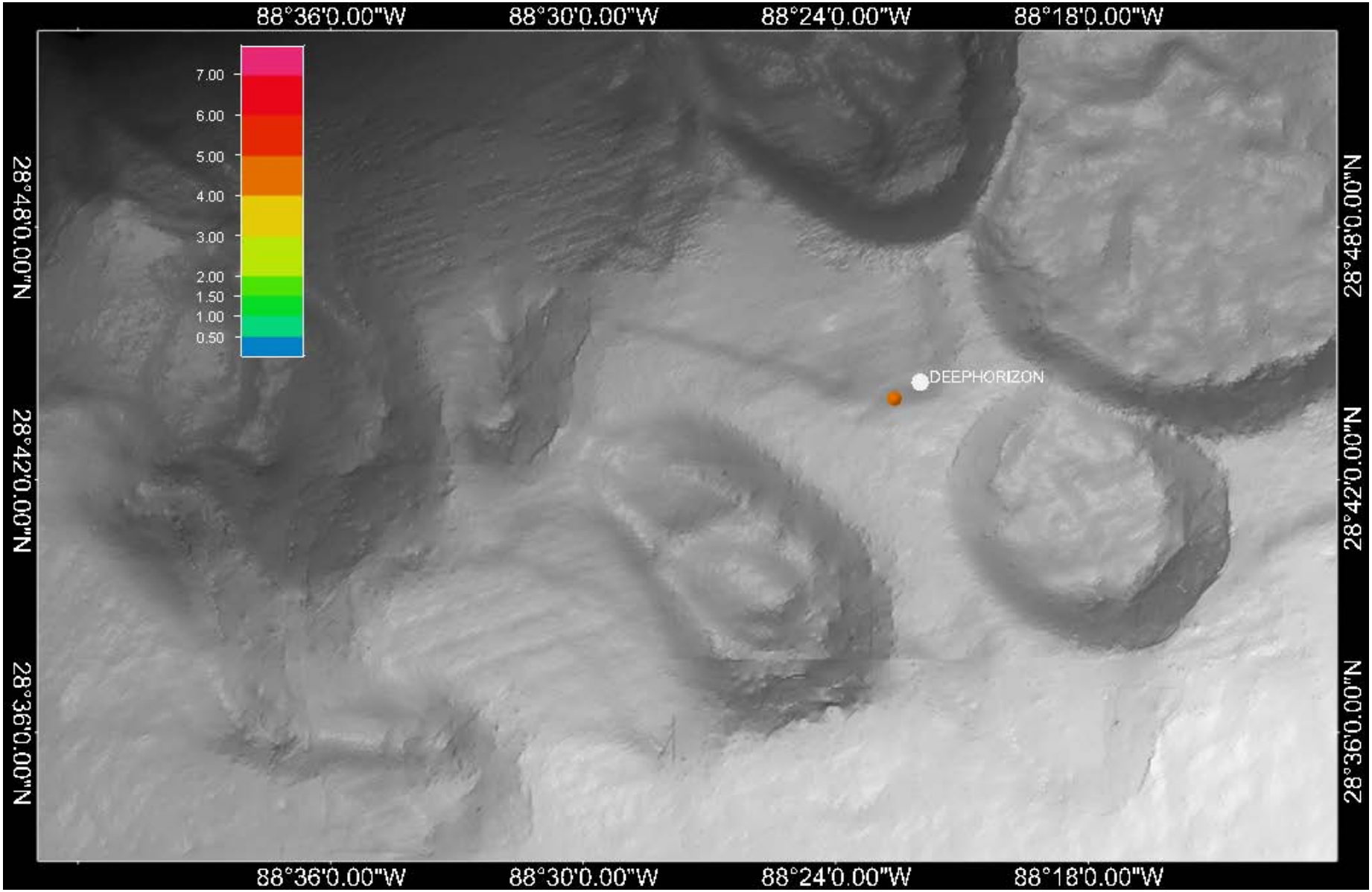


Figure 34: Mean Fluorescence ppb (QSDE) between 1000-1300m on 24 May 2010

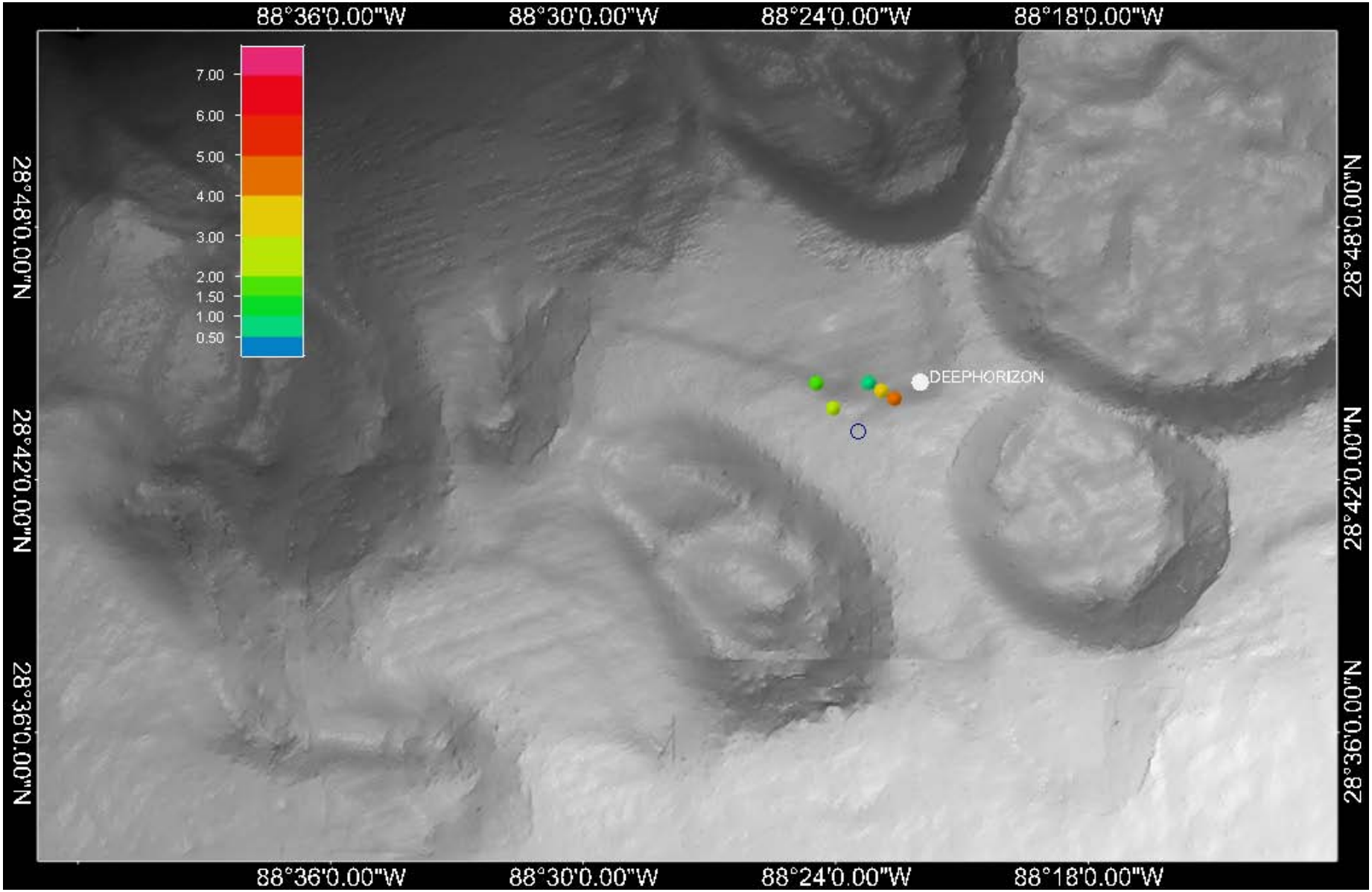


Figure 35: Mean Fluorescence ppb (QSDE) between 1000-1300m on 25 May 2010

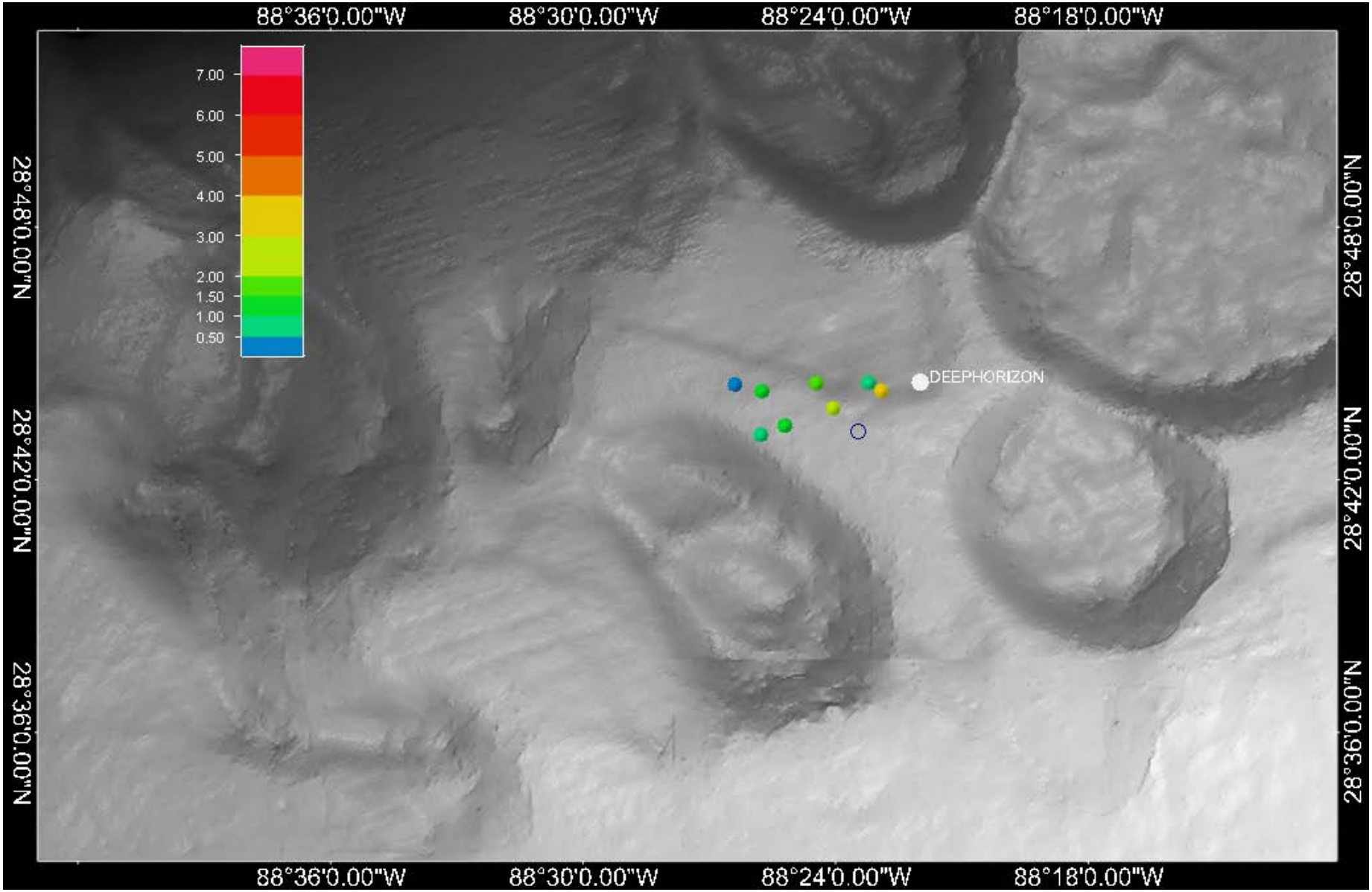


Figure 36: Mean Fluorescence ppb (QSDE) between 1000-1300m on 26 May 2010

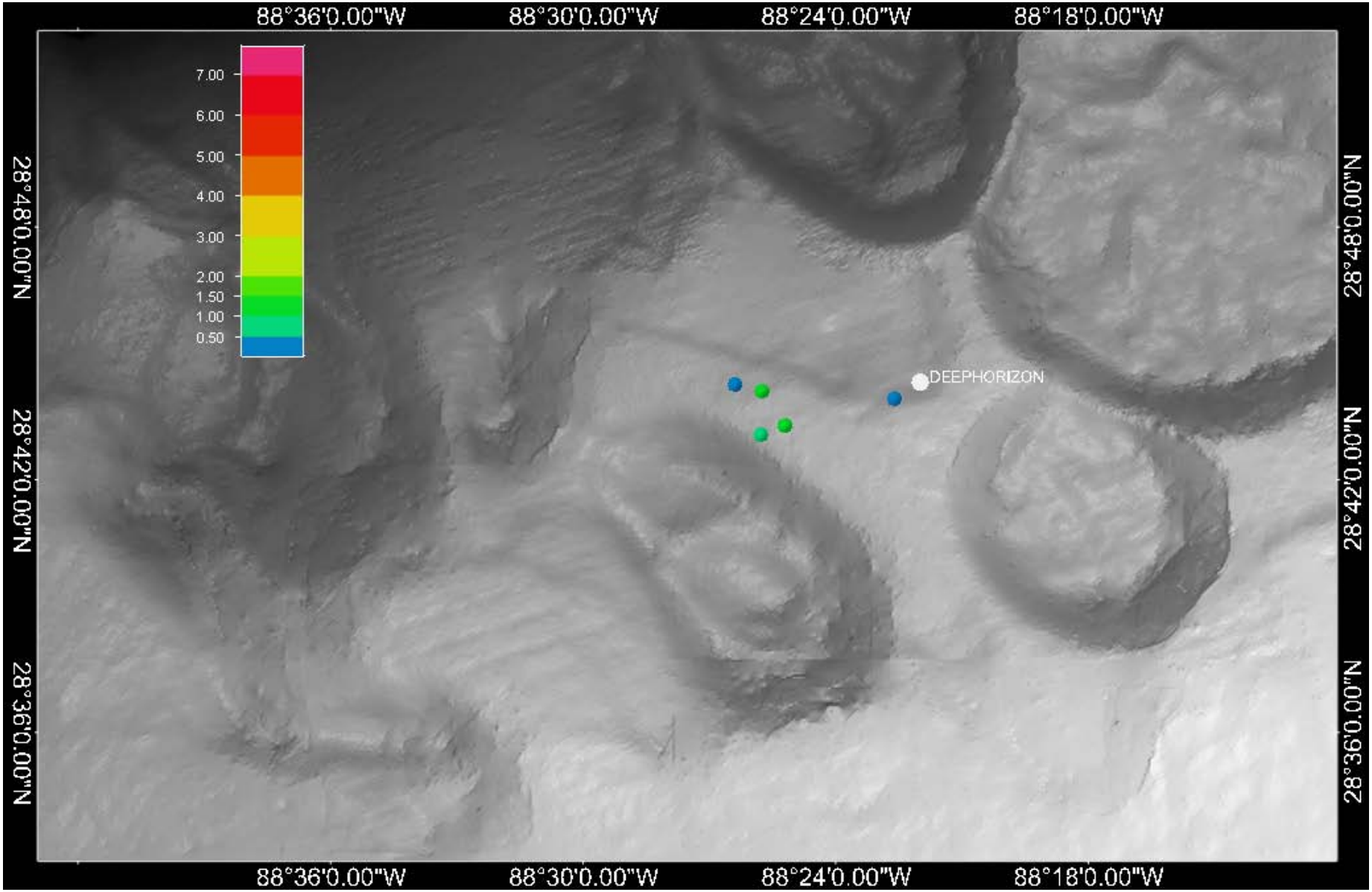


Figure 37: Mean Fluorescence ppb (QSDE) between 1000-1300m on 27 May 2010

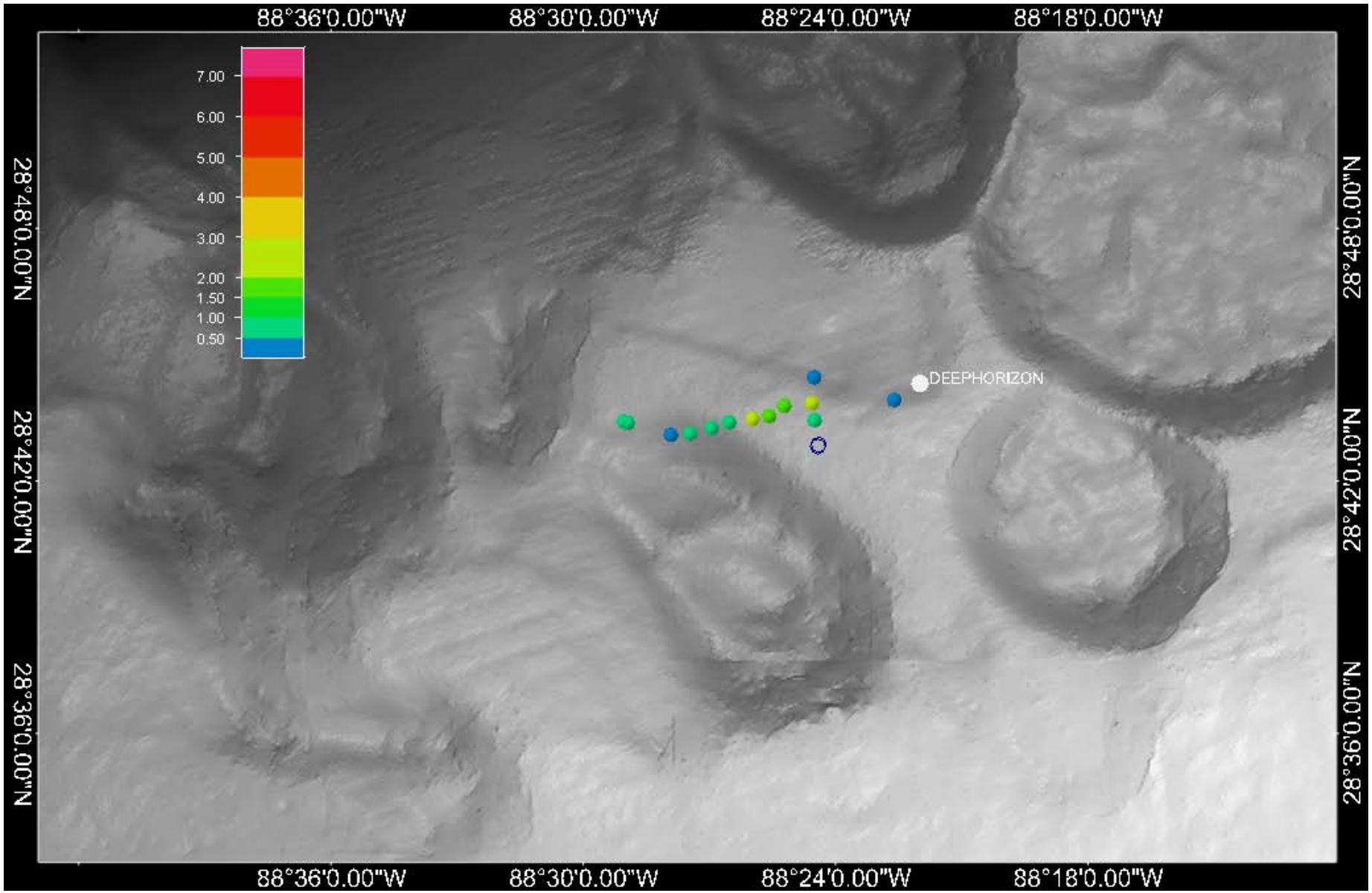


Figure 38: Mean Fluorescence ppb (QSDE) between 1000-1300m on 28 May 2010

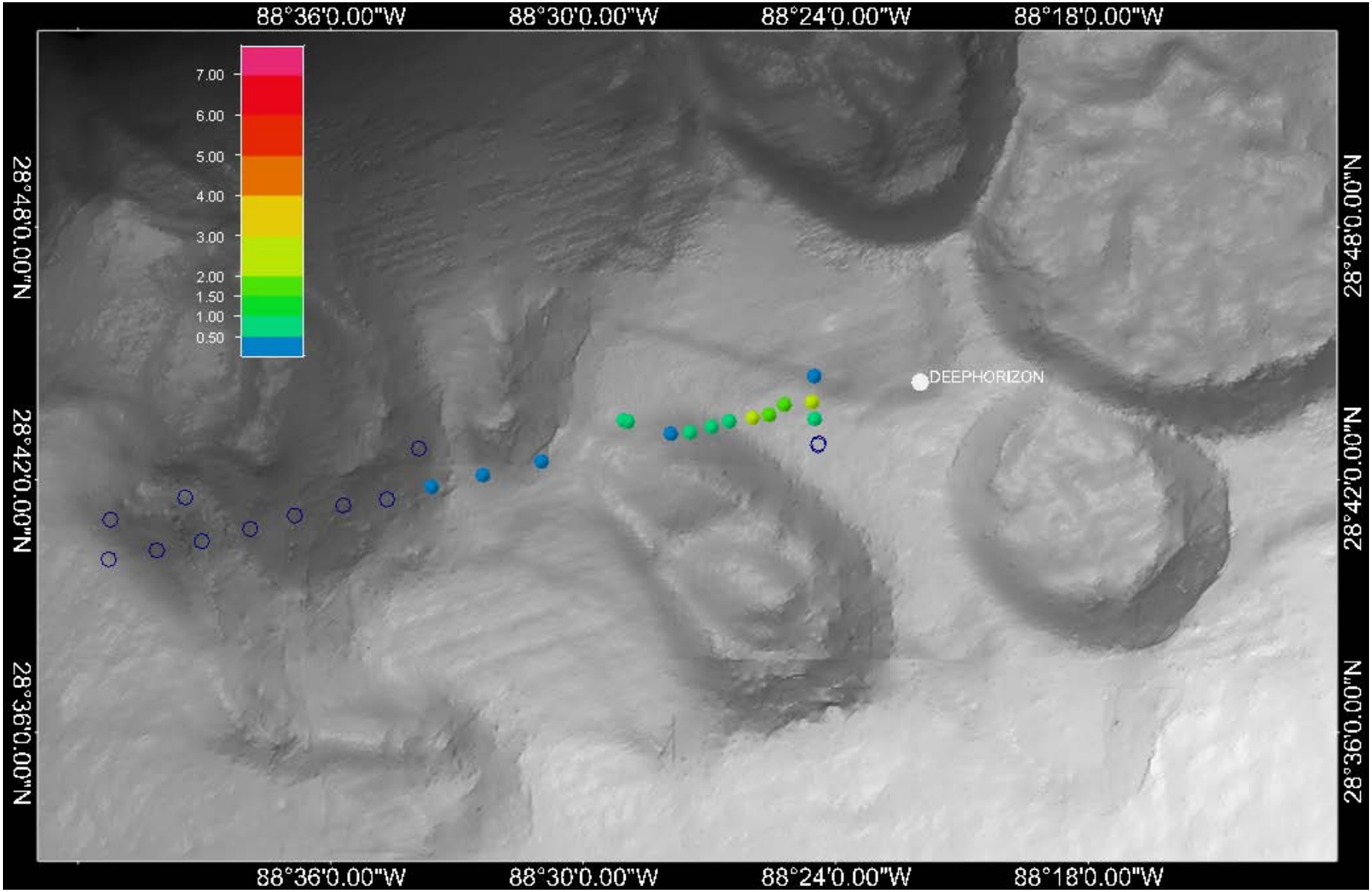


Figure 39: Mean Fluorescence ppb (QSDE) between 1000-1300m on 29 May 2010

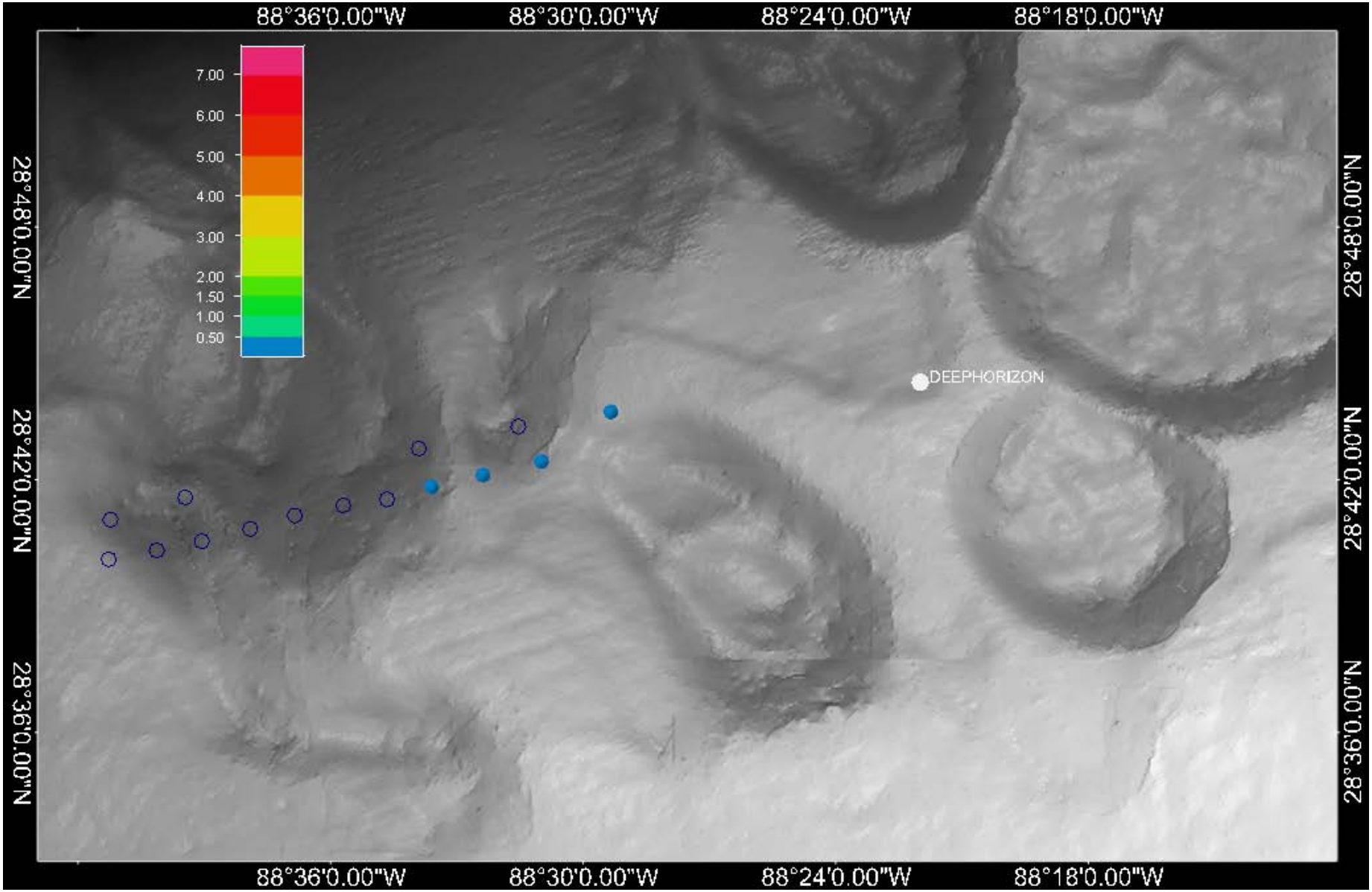


Figure 40: Mean Fluorescence ppb (QSDE) between 1000-1300m on 30 May 2010

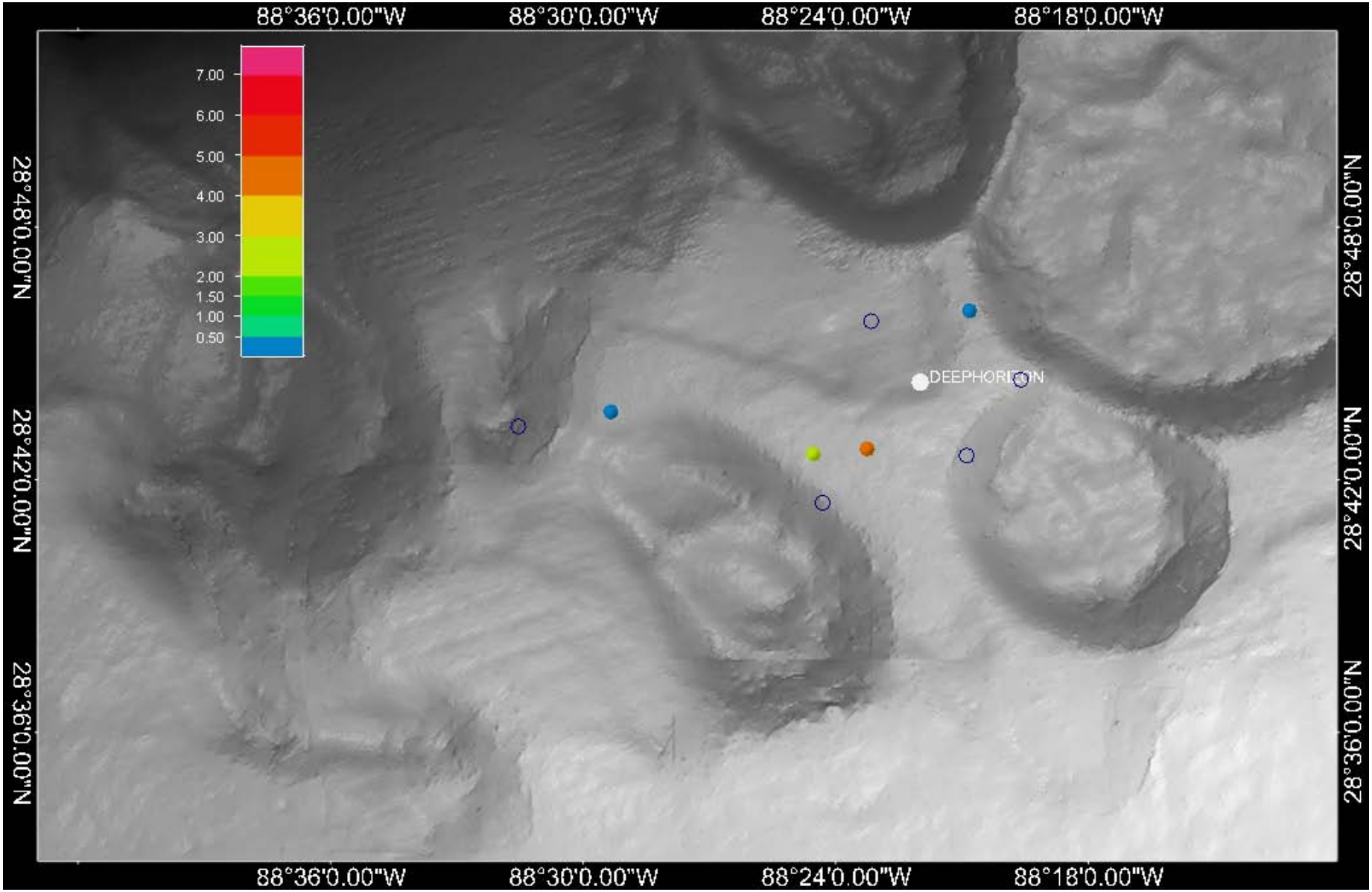


Figure 41: Mean Fluorescence ppb (QSDE) between 1000-1300m on 31 May 2010

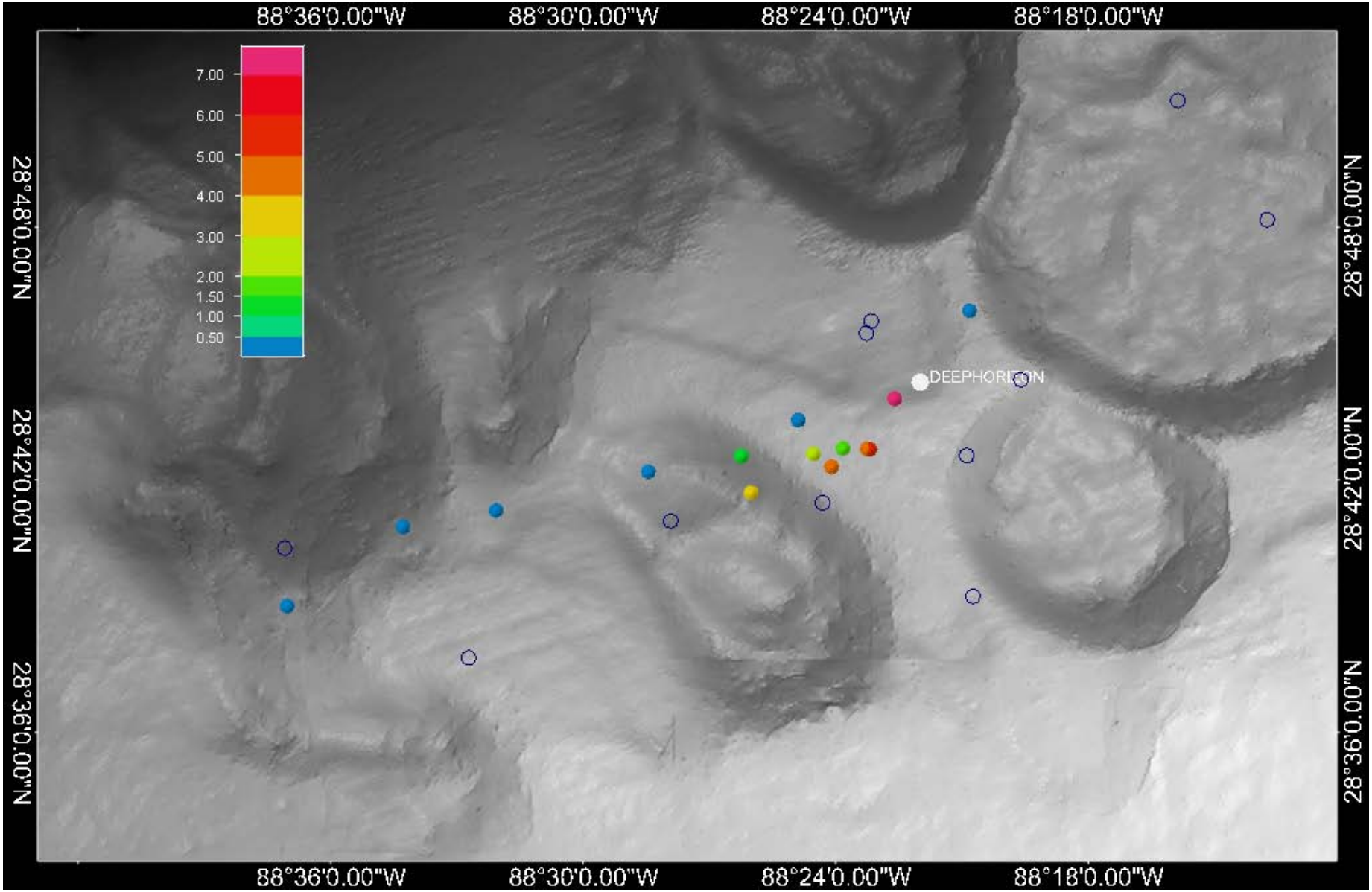


Figure 42: Mean Fluorescence ppb (QSDE) between 1000-1300m on 01 June 2010

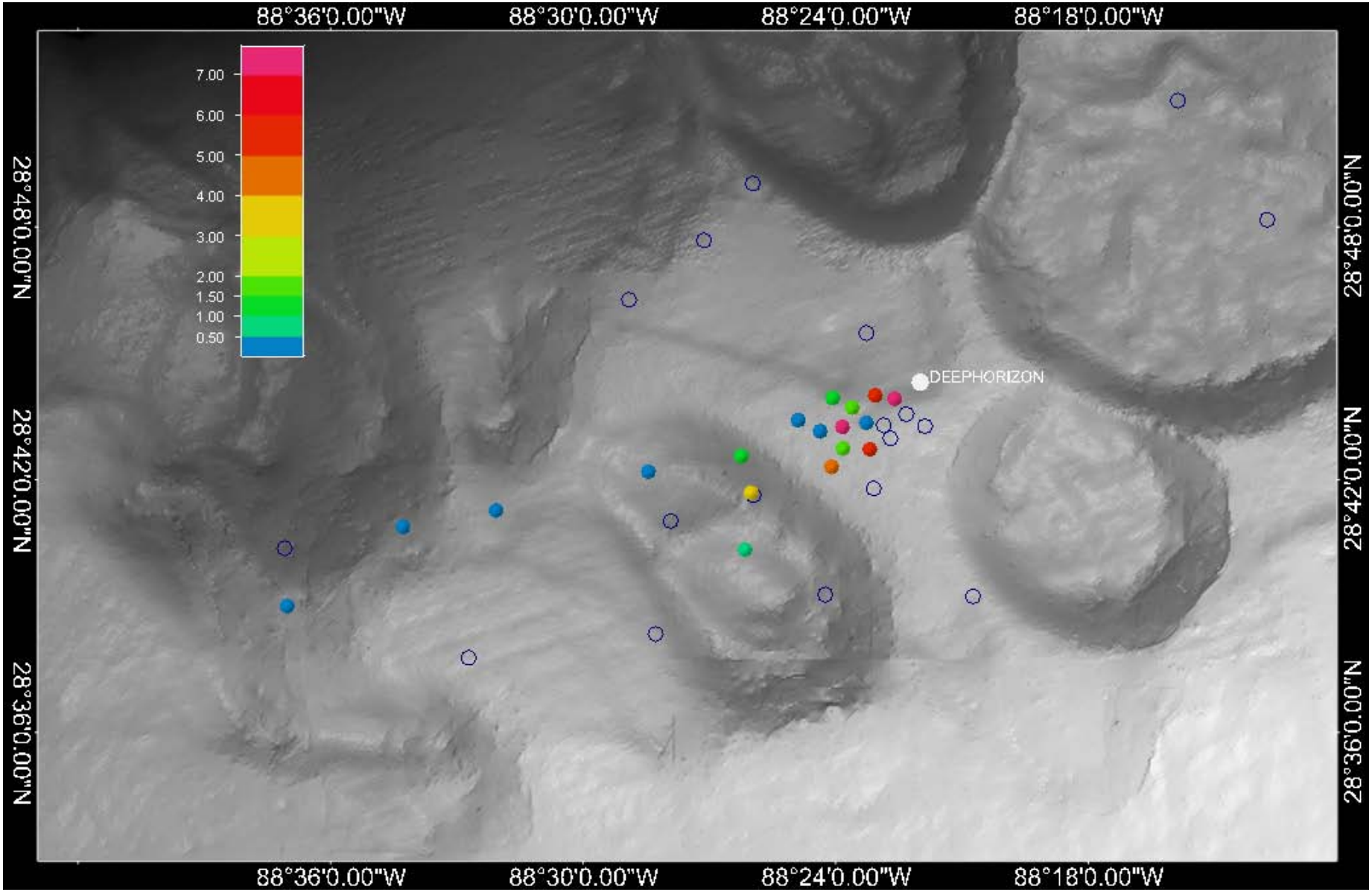


Figure 43: Mean Fluorescence ppb (QSDE) between 1000-1300m on 02 June 2010

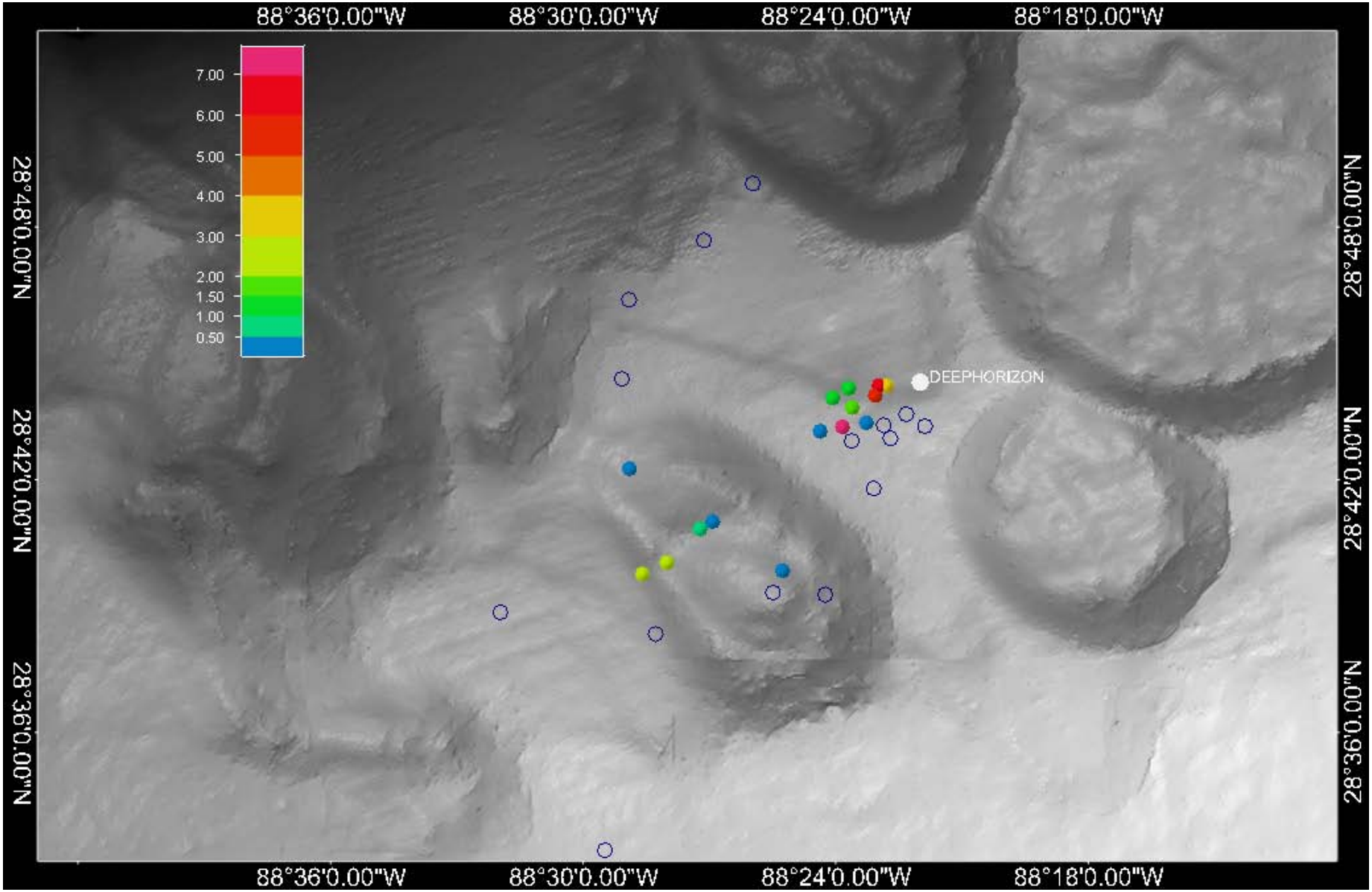


Figure 44: Mean Fluorescence ppb (QSDE) between 1000-1300m on 03 June 2010

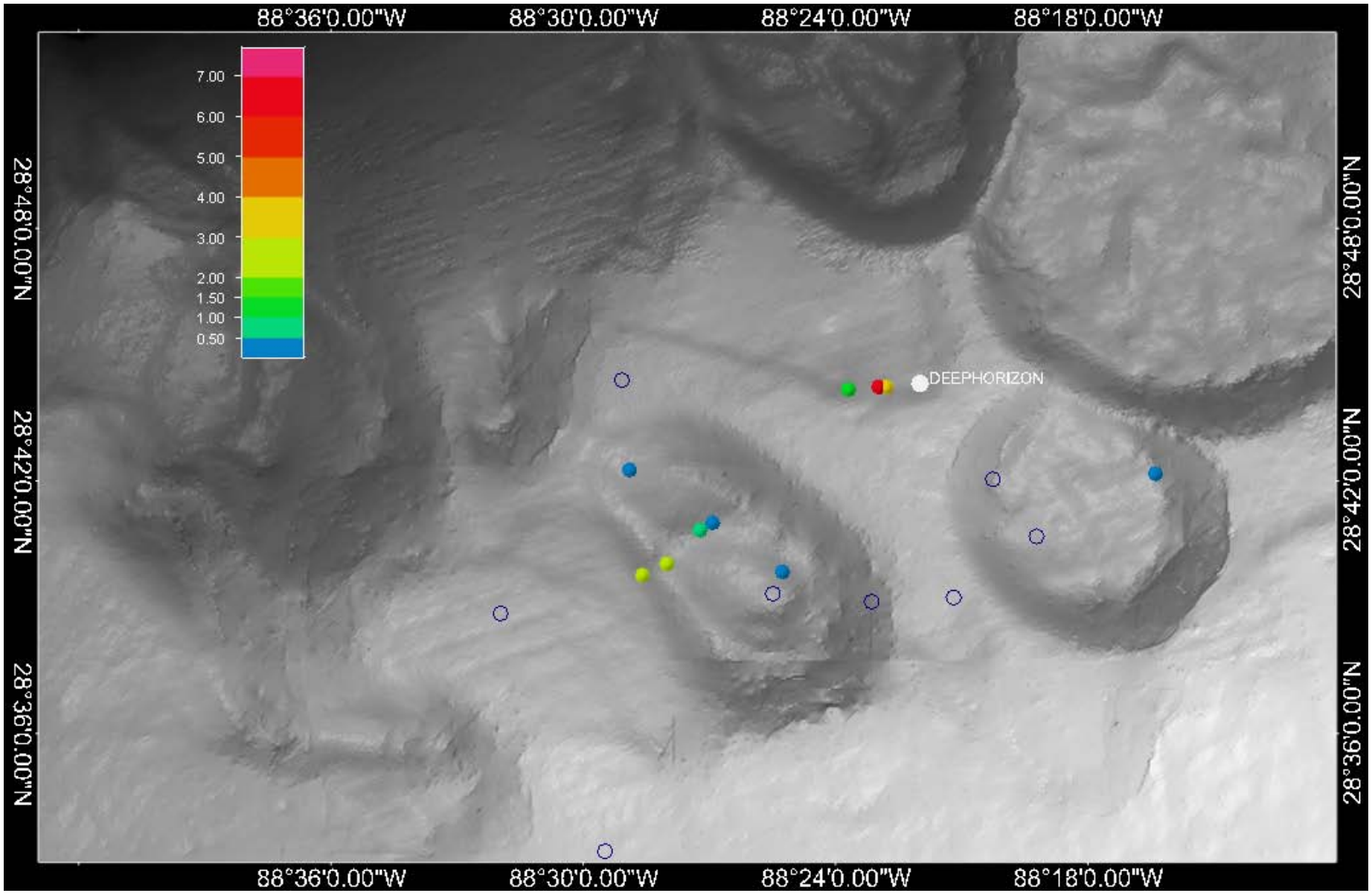


Figure 45: Mean Fluorescence ppb (QSDE) between 1000-1300m on 04 June 2010

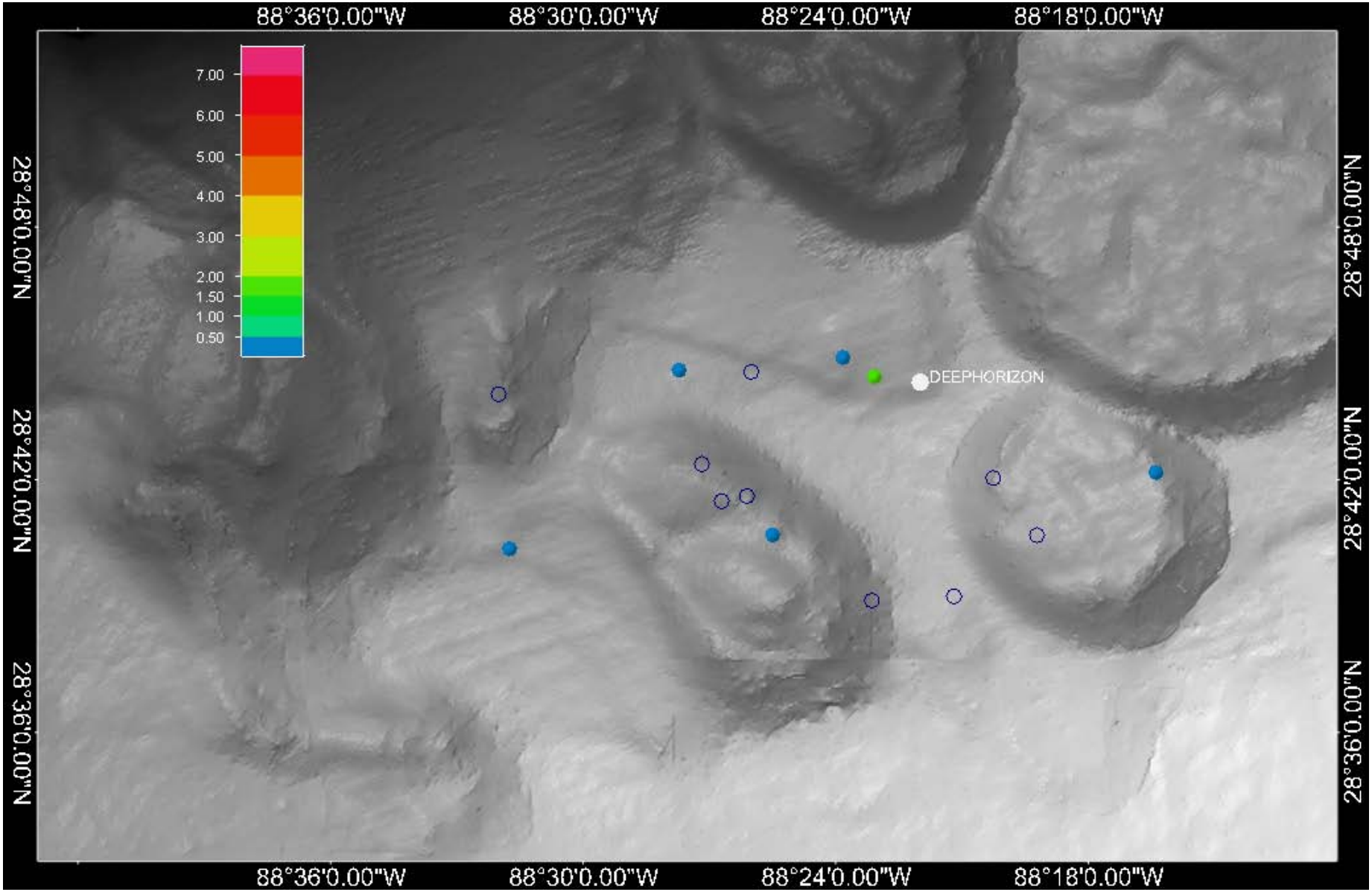


Figure 46: Mean Fluorescence ppb (QSDE) between 1000-1300m on 05 June 2010

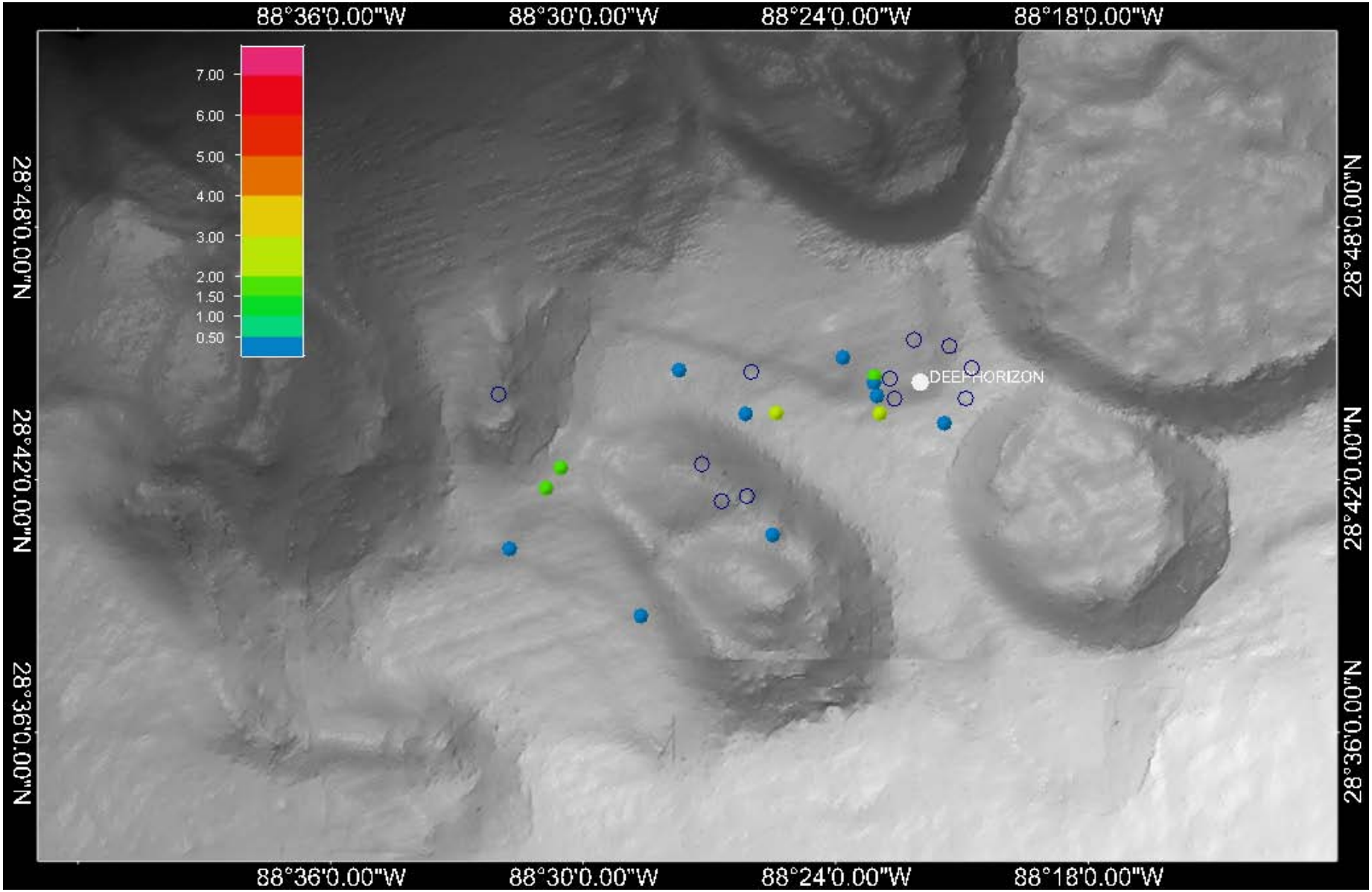


Figure 47: Mean Fluorescence ppb (QSDE) between 1000-1300m on 06 June 2010

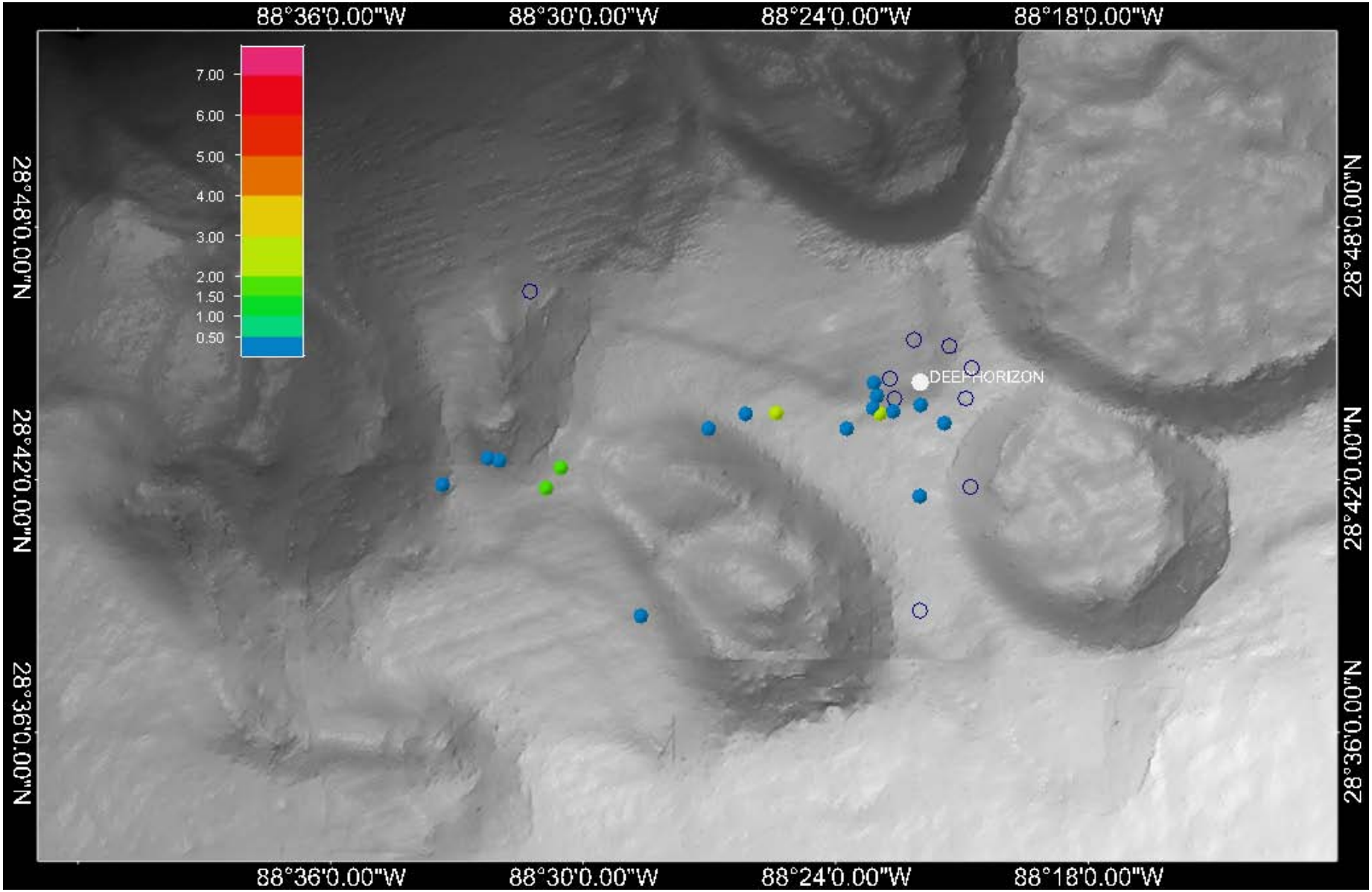


Figure 48: Mean Fluorescence ppb (QSDE) between 1000-1300m on 07 June 2010

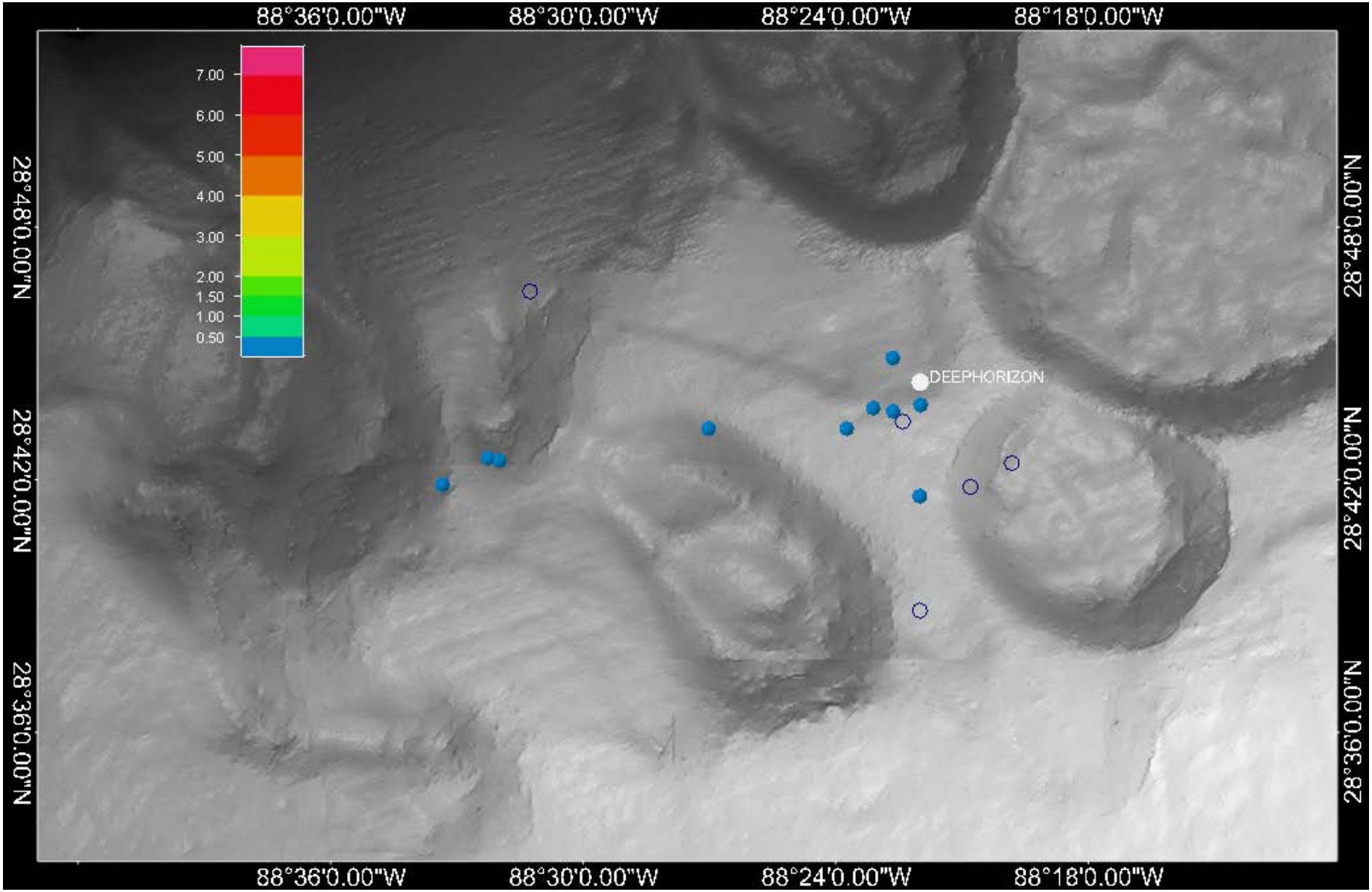


Figure 49: Mean Fluorescence ppb (QSDE) between 1000-1300m on 08 June 2010

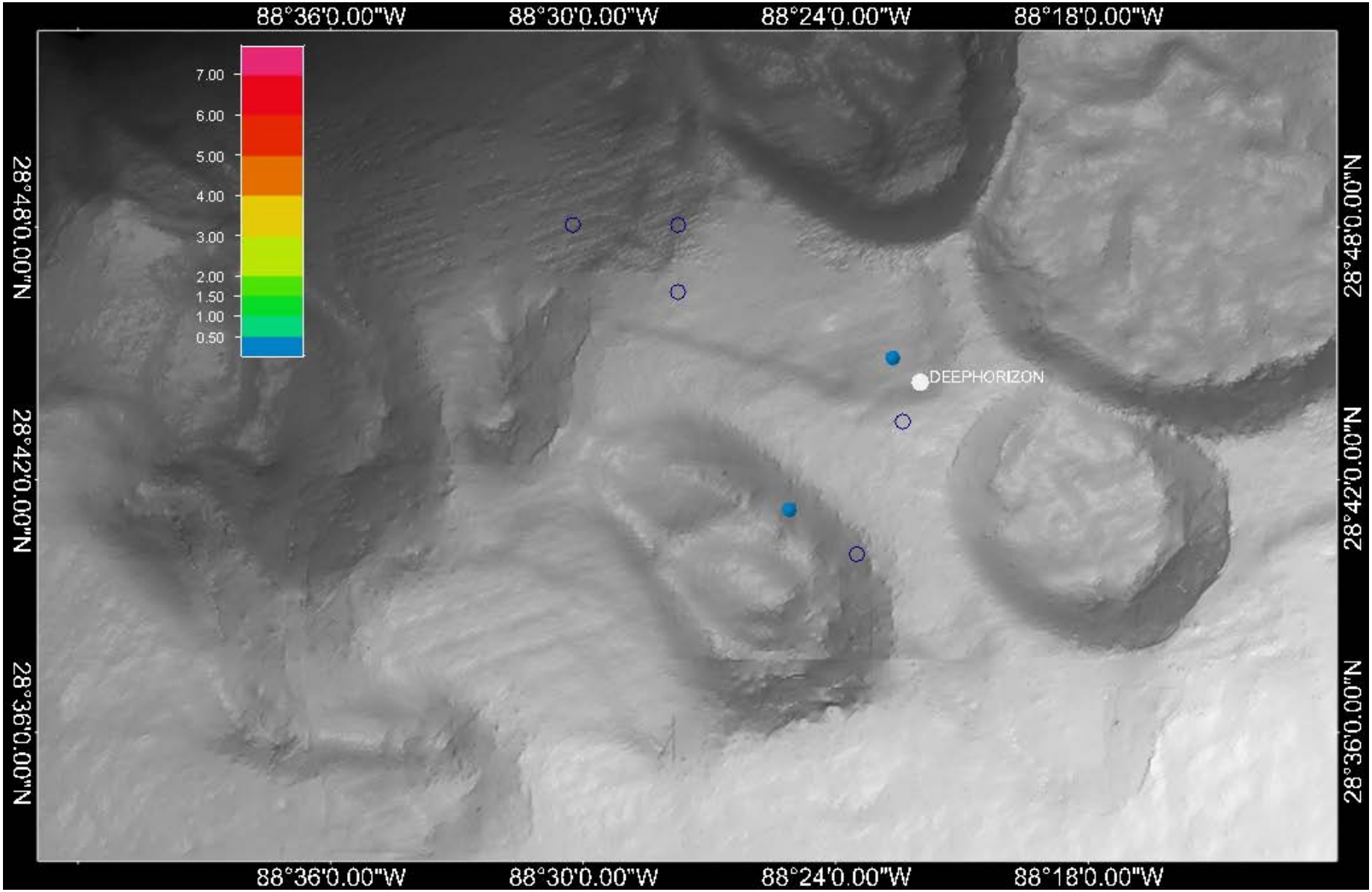


Figure 50: Mean Fluorescence ppb (QSDE) between 1000-1300m on 09 June 2010

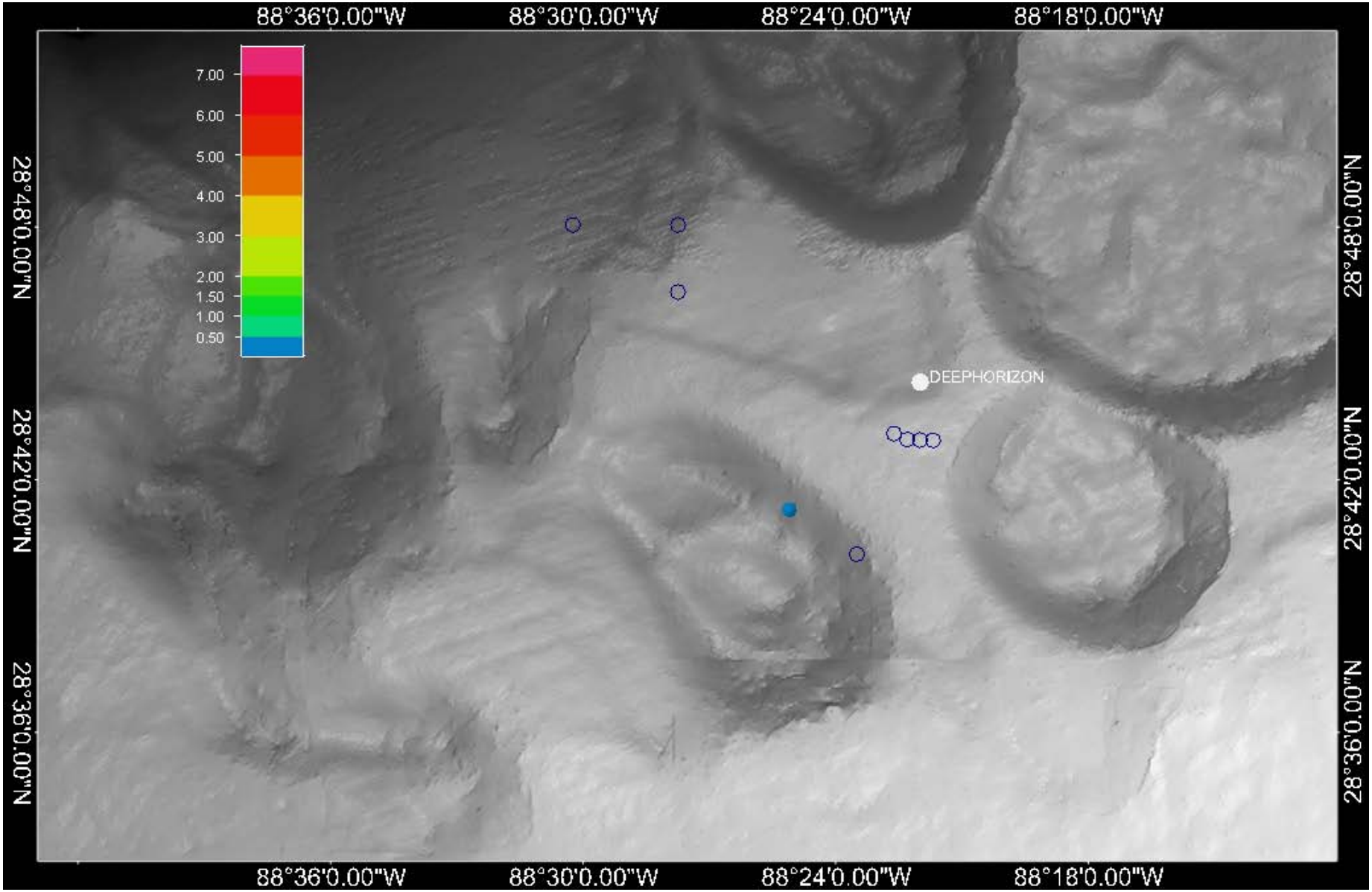


Figure 51: Mean Fluorescence ppb (QSDE) between 1000-1300m on 10 June 2010

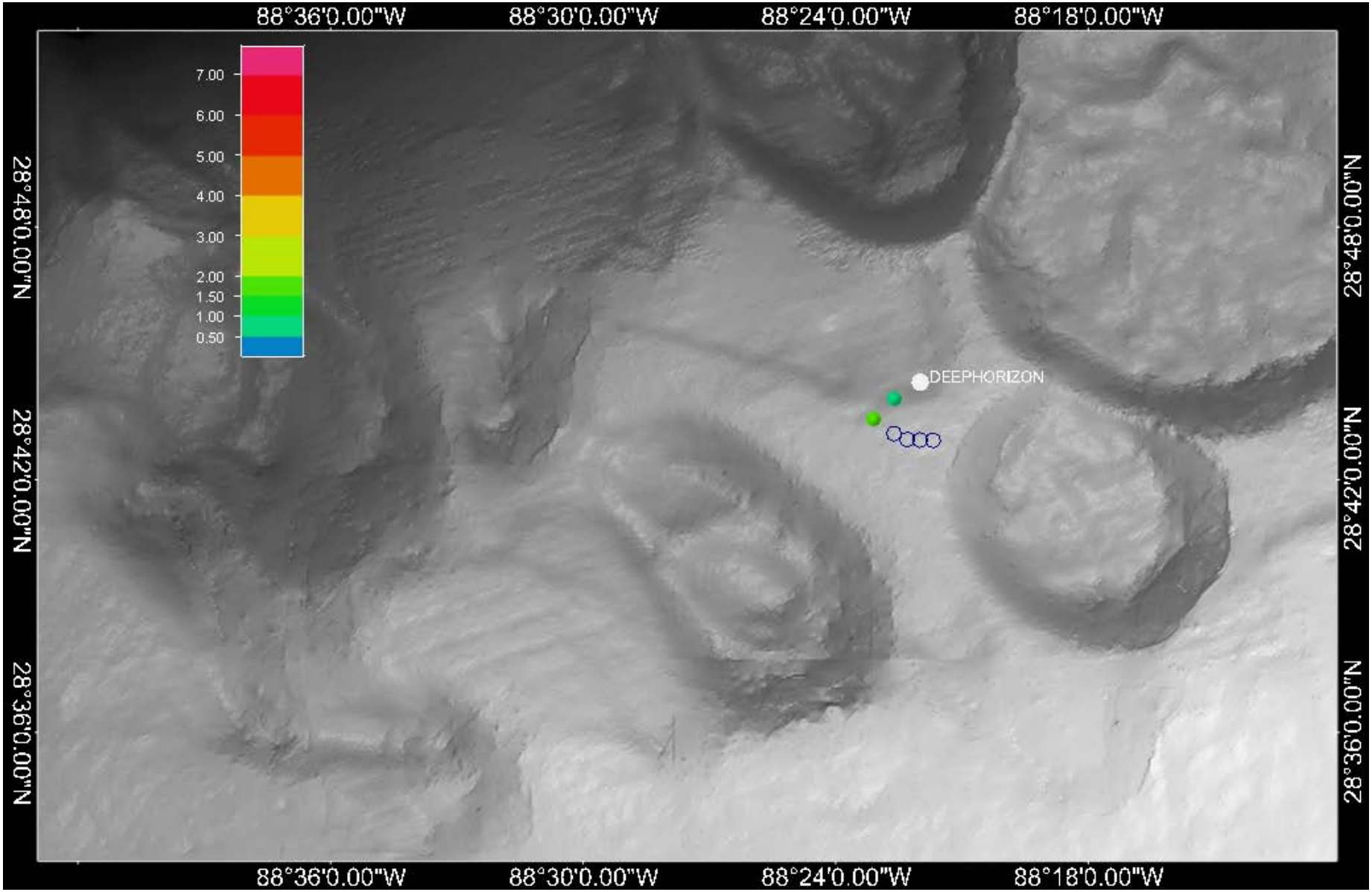


Figure 52: Mean Fluorescence ppb (QSDE) between 1000-1300m on 11 June 2010

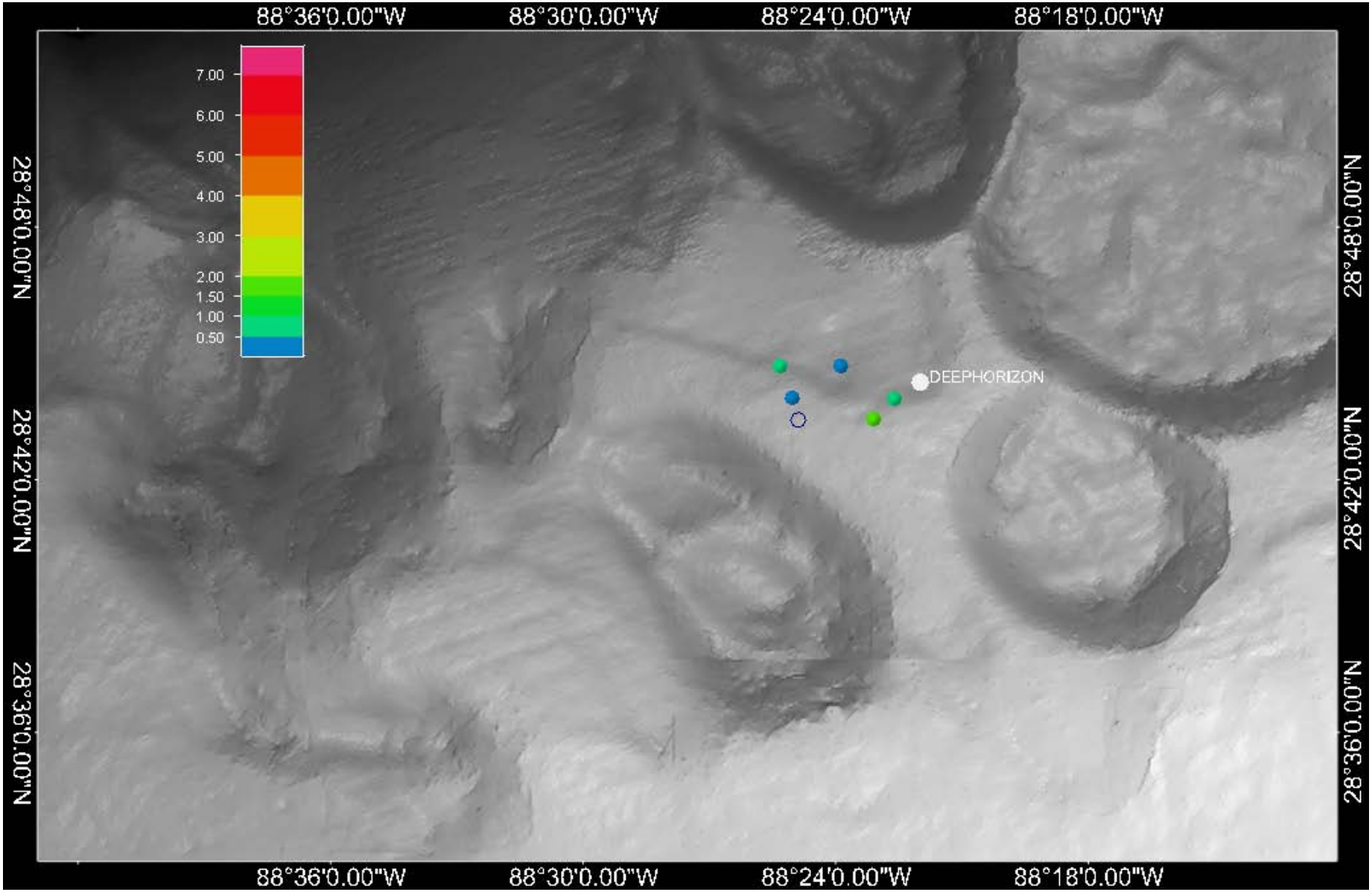


Figure 53: Mean Fluorescence ppb (QSDE) between 1000-1300m on 12 June 2010

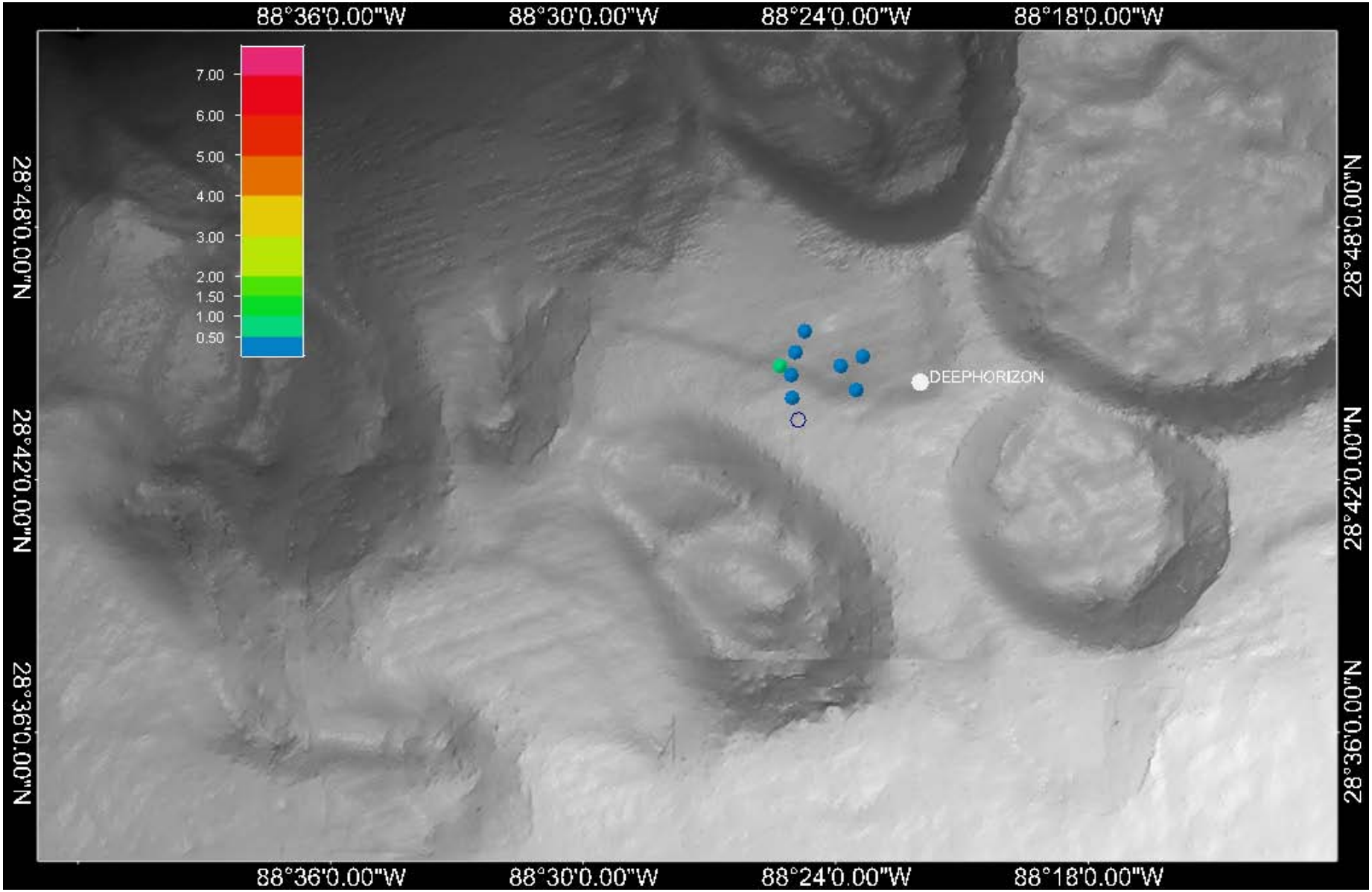


Figure 54: Mean Fluorescence ppb (QSDE) between 1000-1300m on 13 June 2010

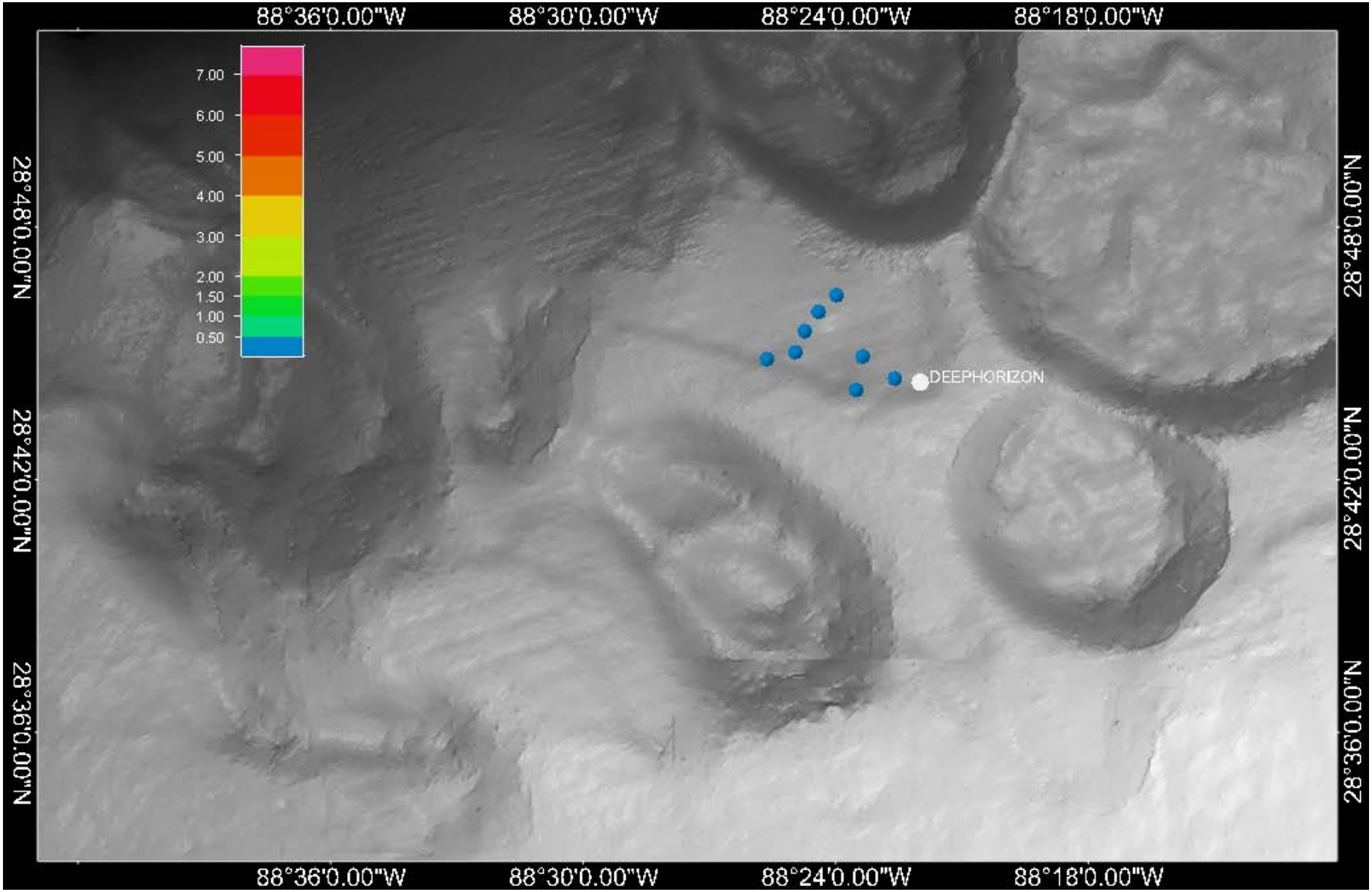


Figure 55: Mean Fluorescence ppb (QSDE) between 1000-1300m on 14 June 2010

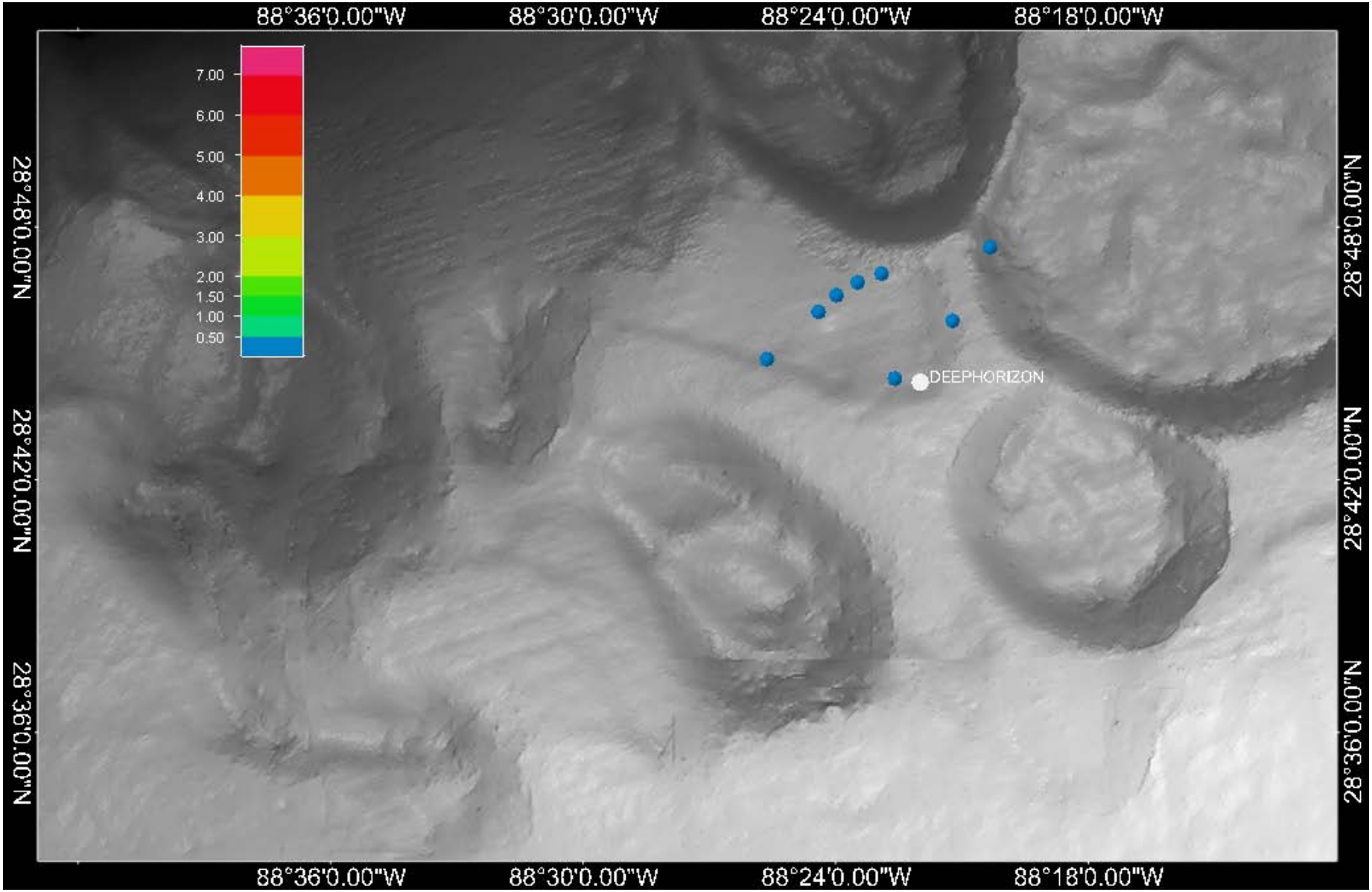


Figure 56: Mean Fluorescence ppb (QSDE) between 1000-1300m on 15 June 2010

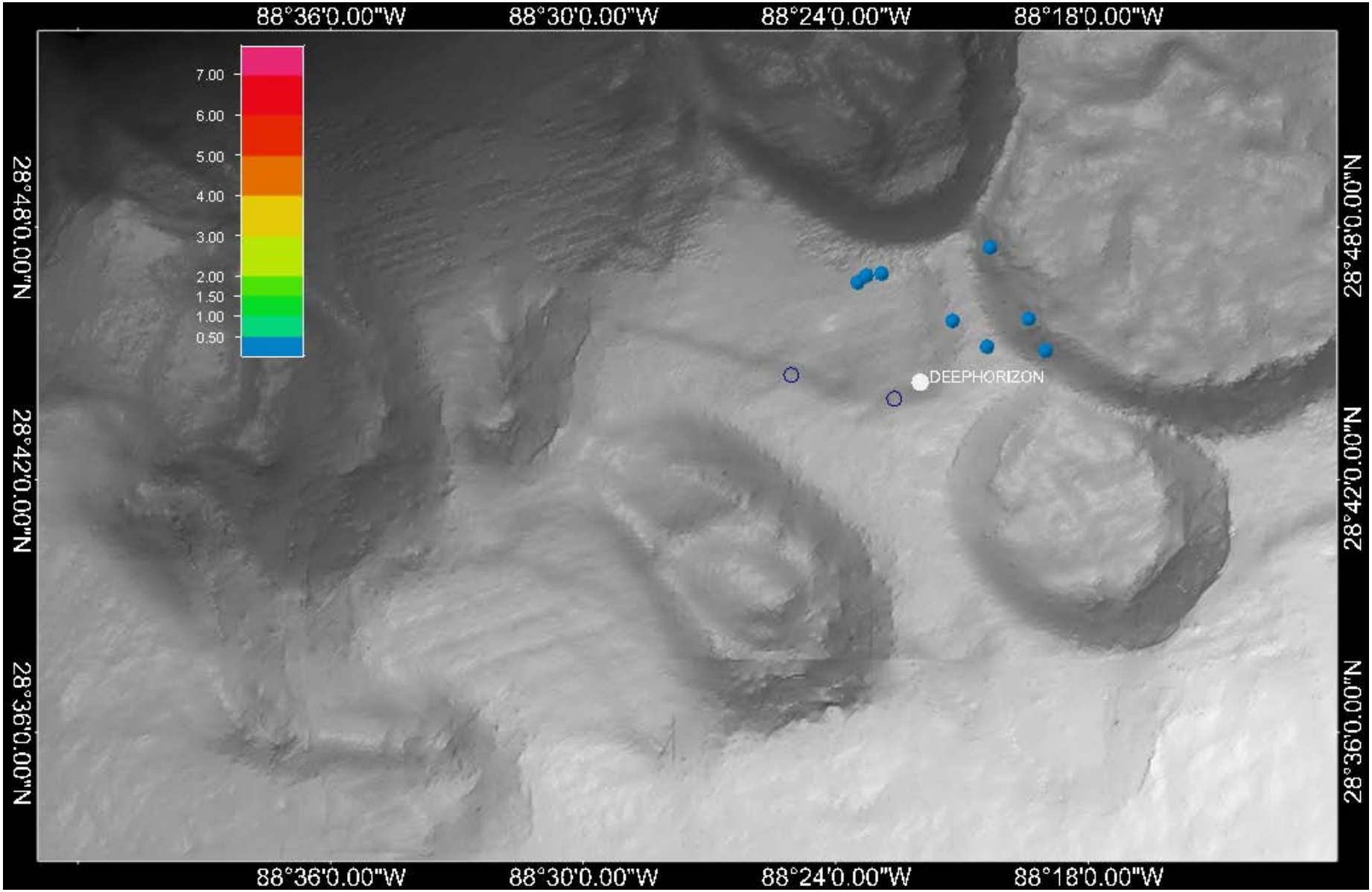


Figure 57: Mean Fluorescence ppb (QSDE) between 1000-1300m on 16 June 2010

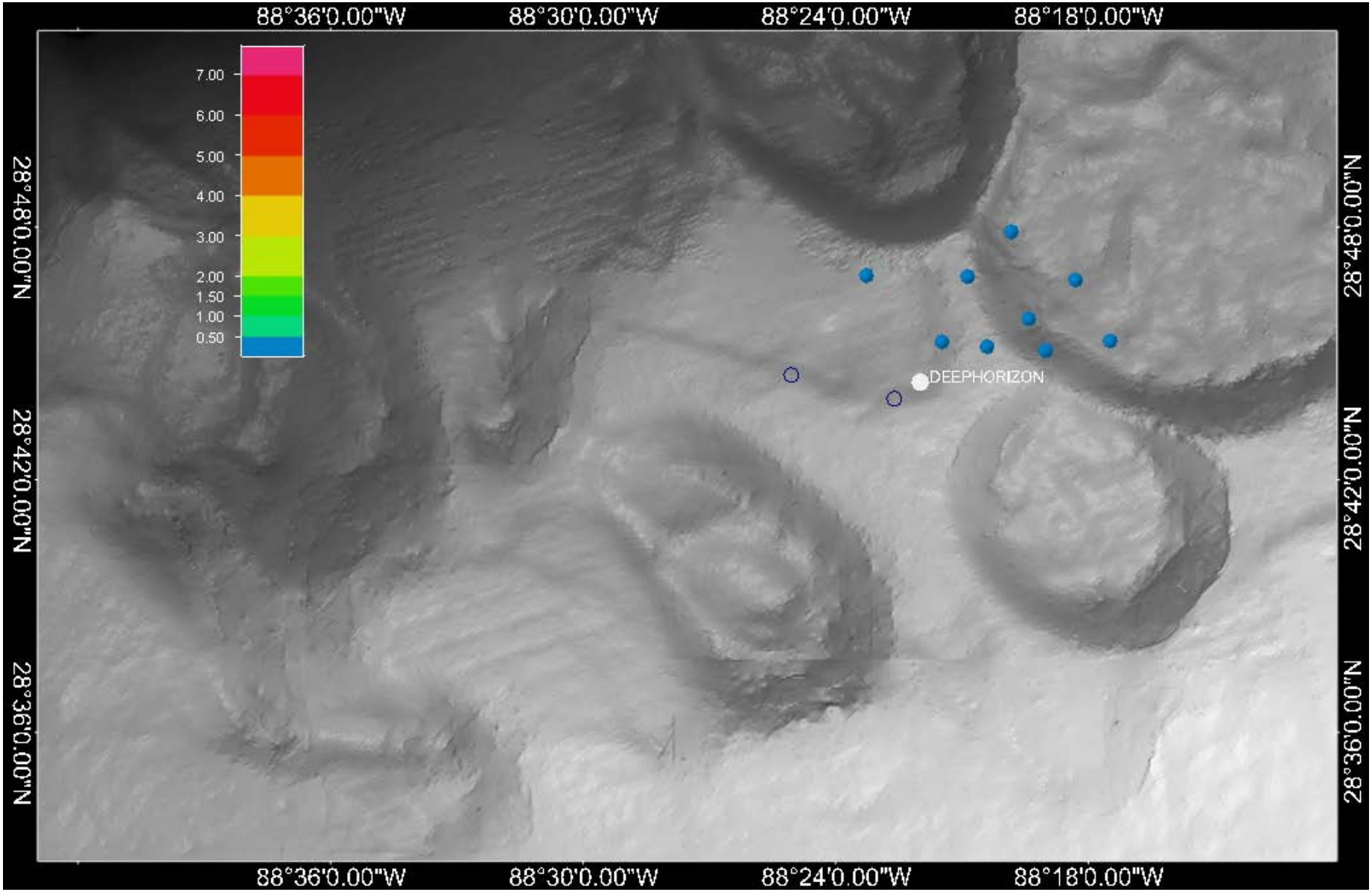


Figure 58: Mean Fluorescence ppb (QSDE) between 1000-1300m on 17 June 2010

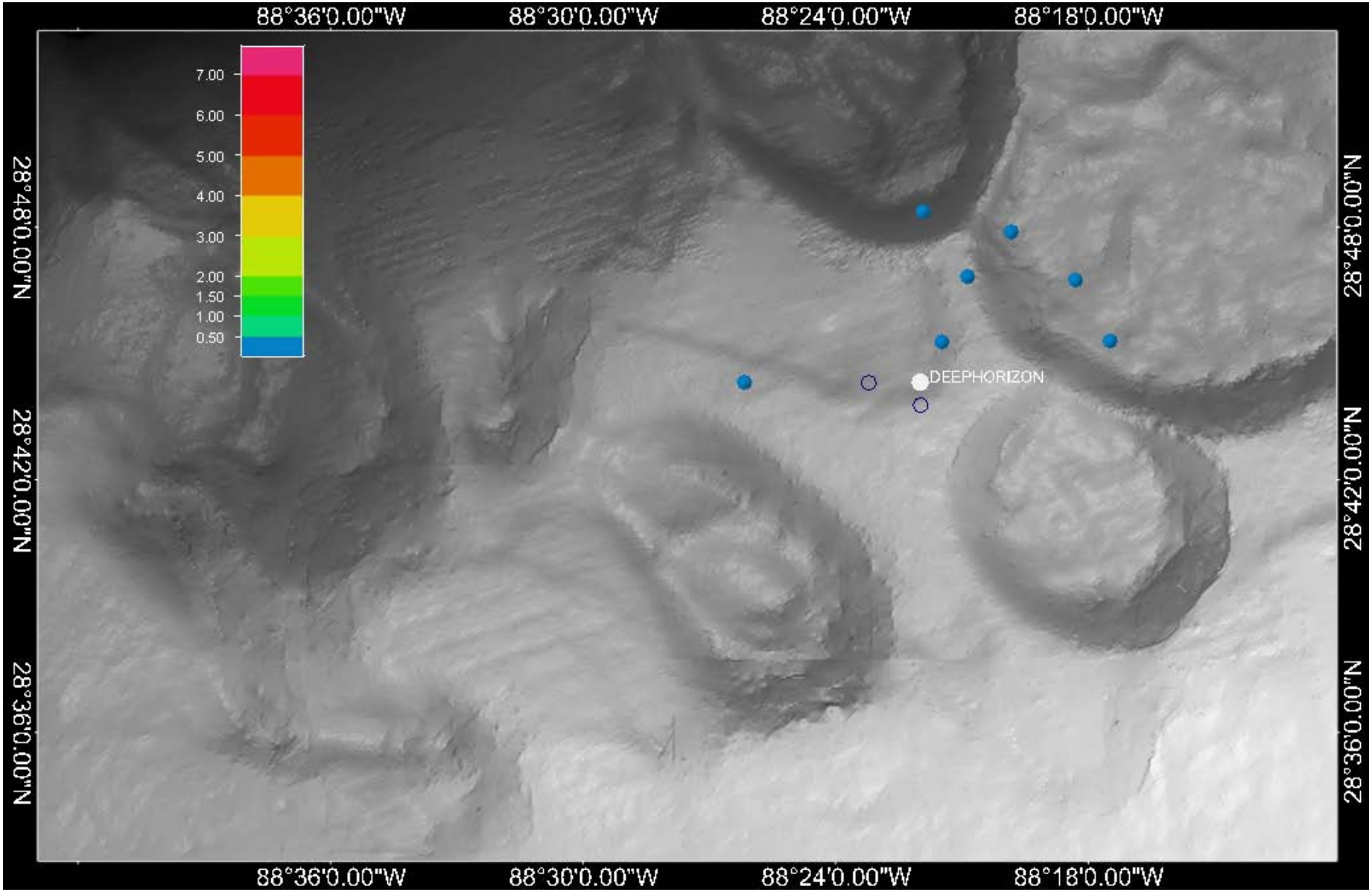


Figure 59: Mean Fluorescence ppb (QSDE) between 1000-1300m on 18 June 2010

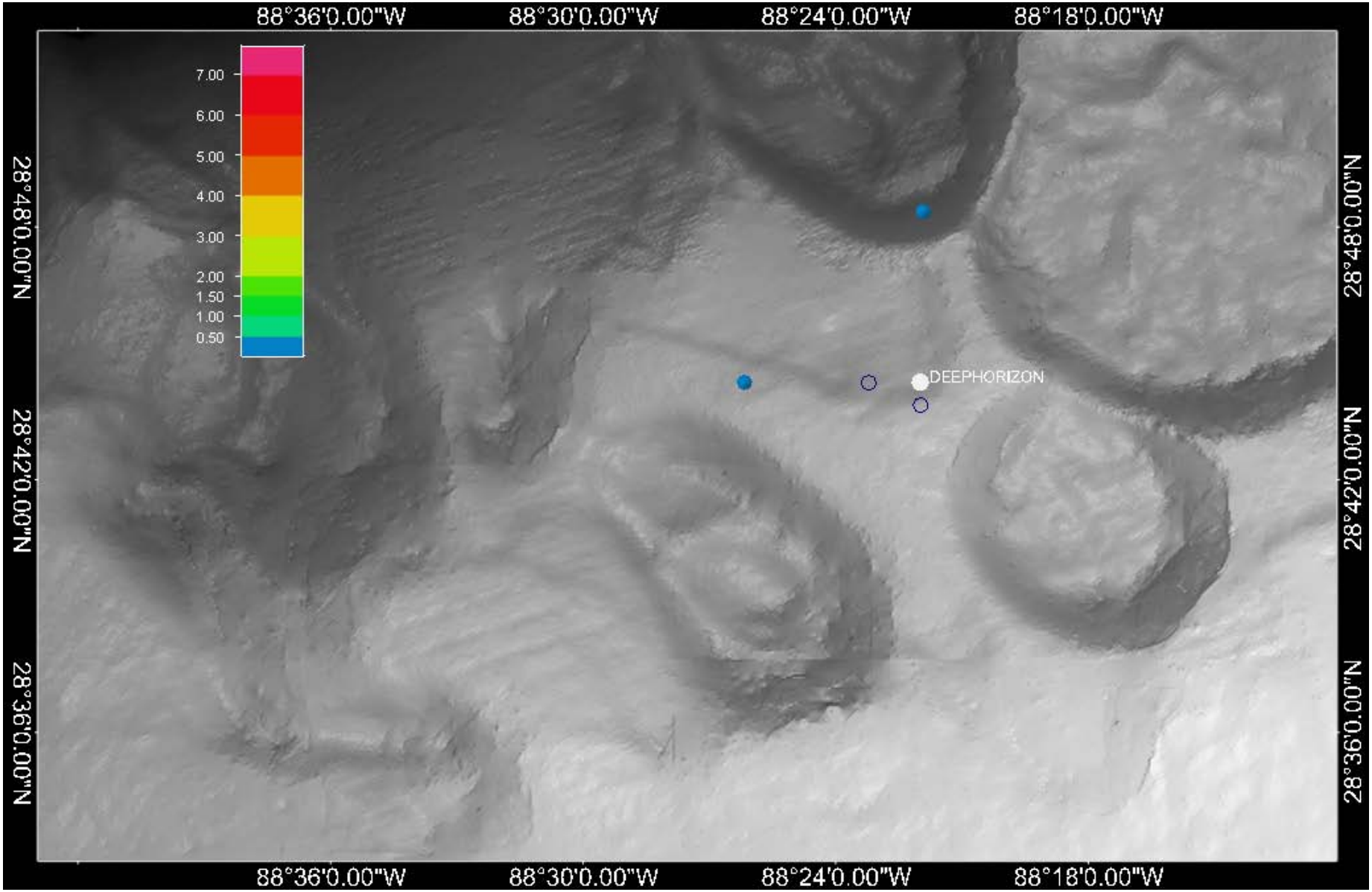


Figure 60: Mean Fluorescence ppb (QSDE) between 1000-1300m on 19 June 2010

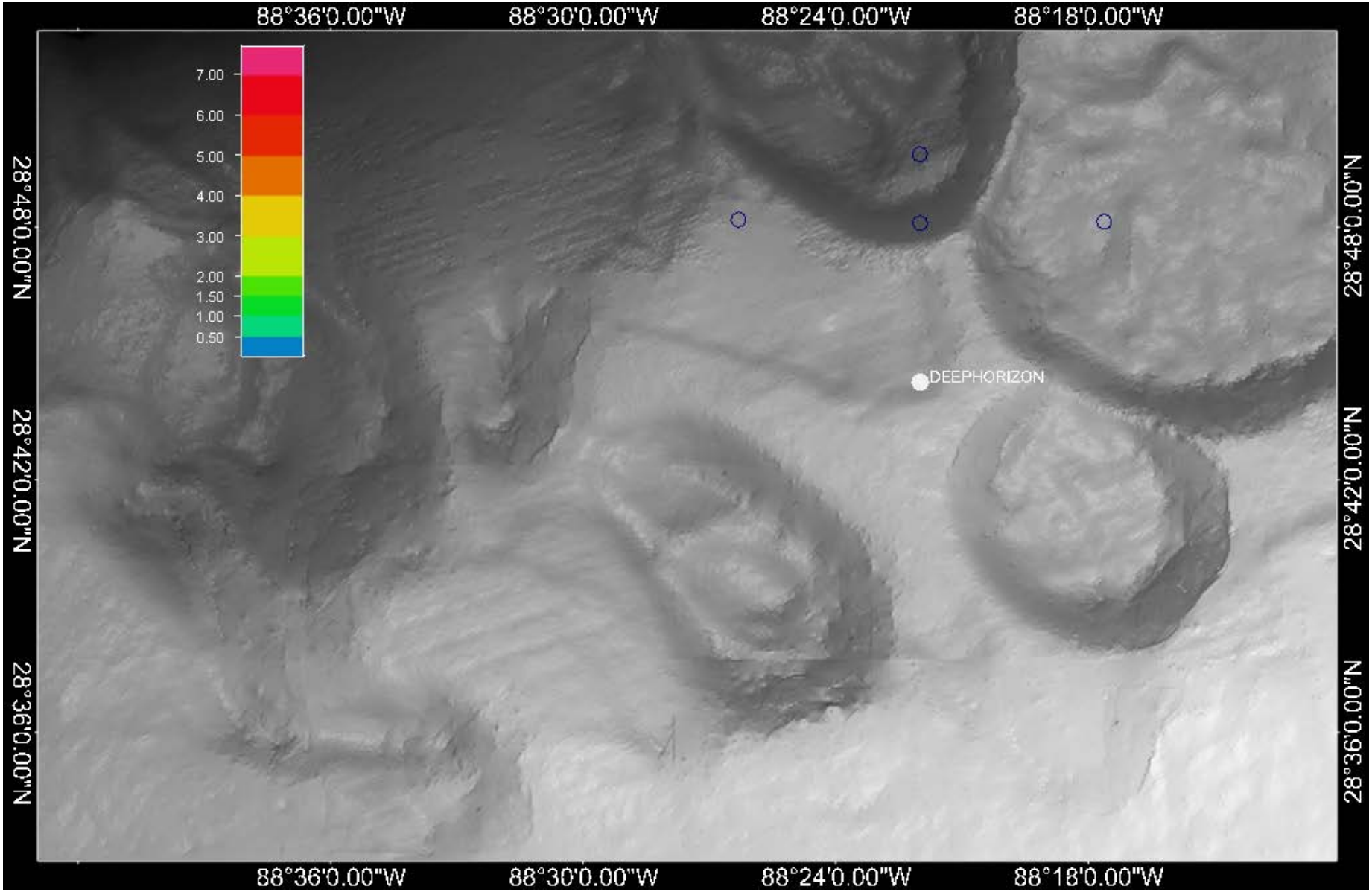


Figure 61: Mean Fluorescence ppb (QSDE) between 1000-1300m on 20 June 2010

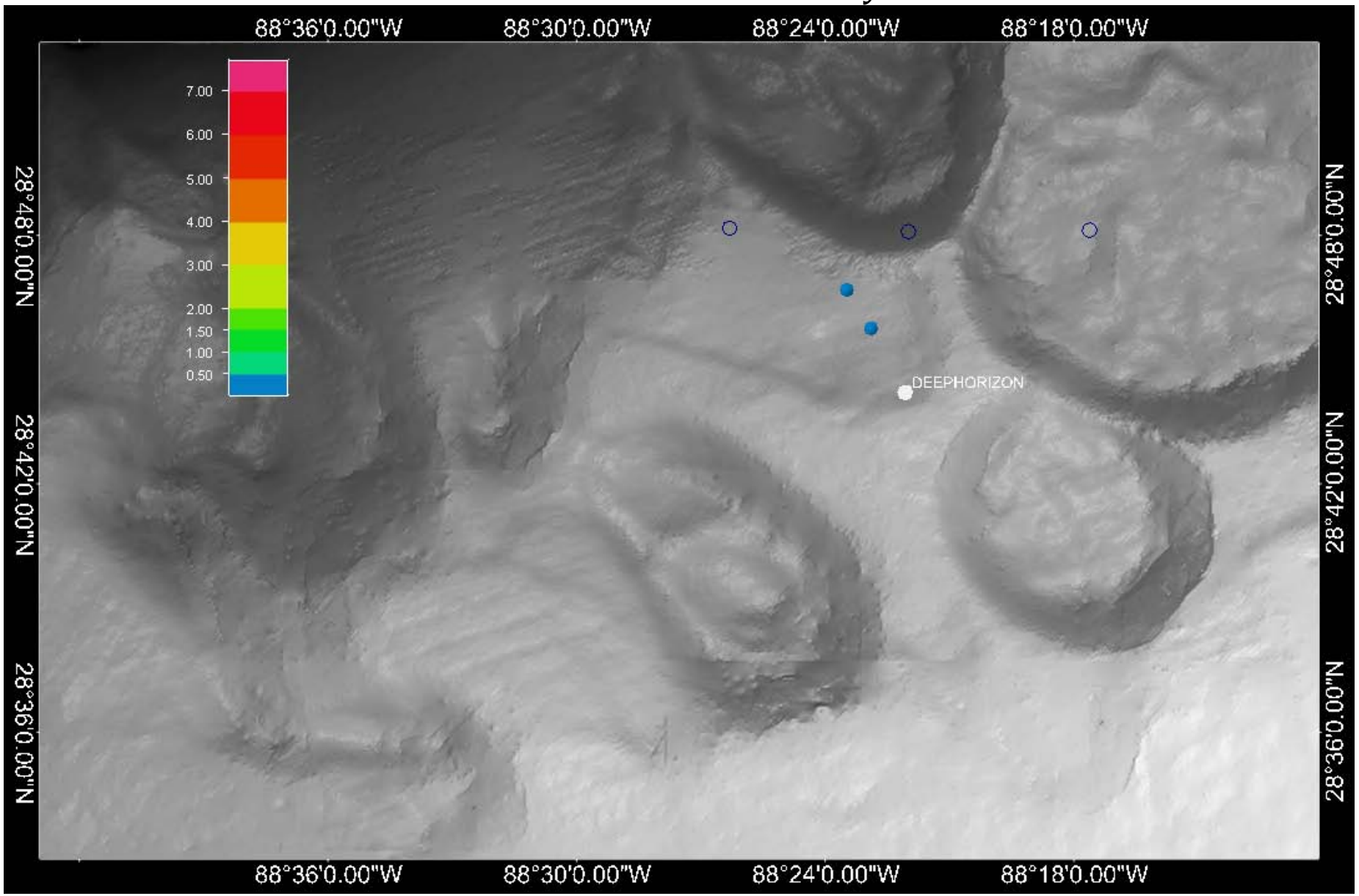


Figure 62: Mean Fluorescence ppb (QSDE) between 1000-1300m on 21 June 2010

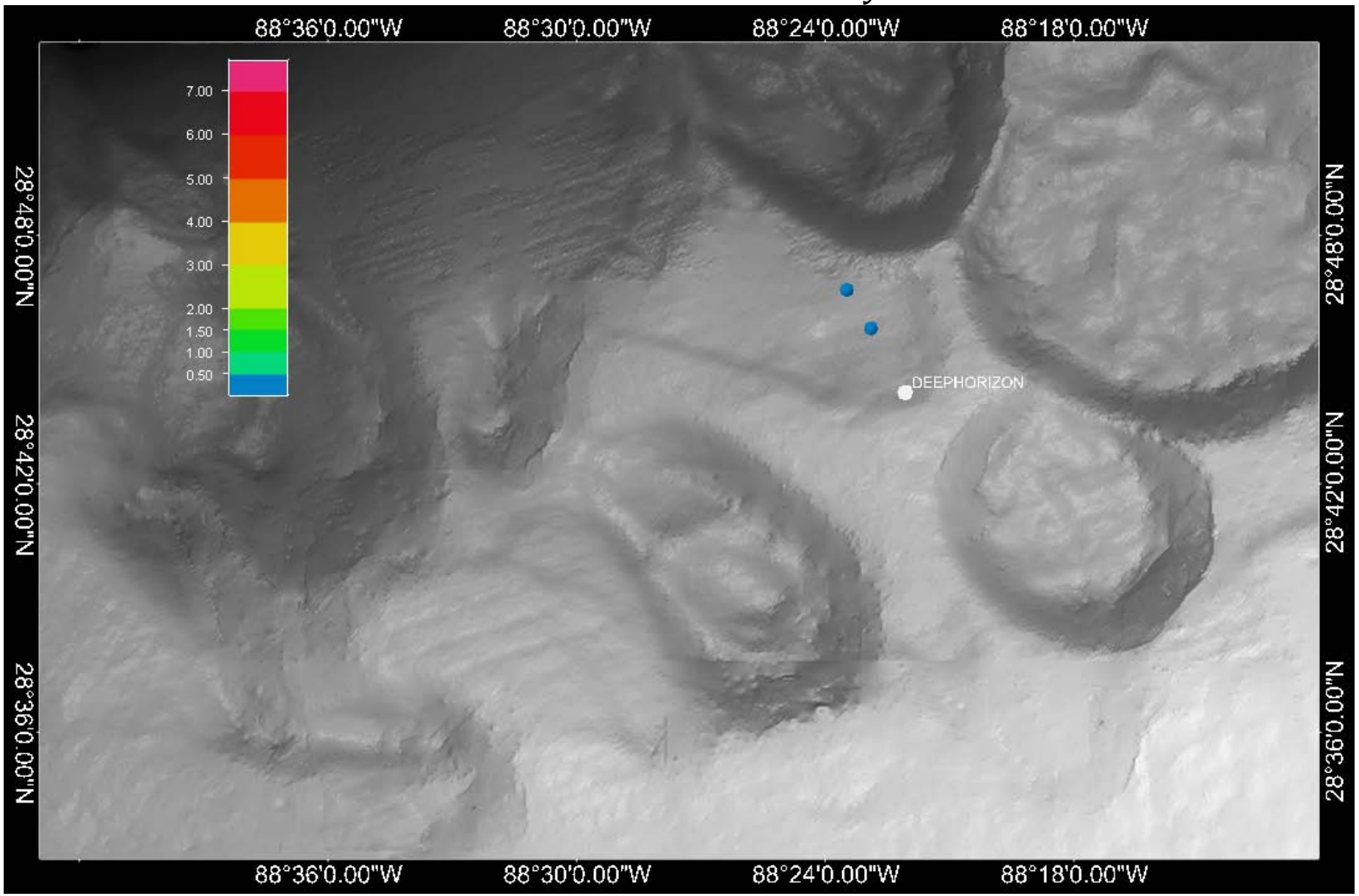


Figure 63: Mean Fluorescence ppb (QSDE) between 1000-1300m on 22 June 2010

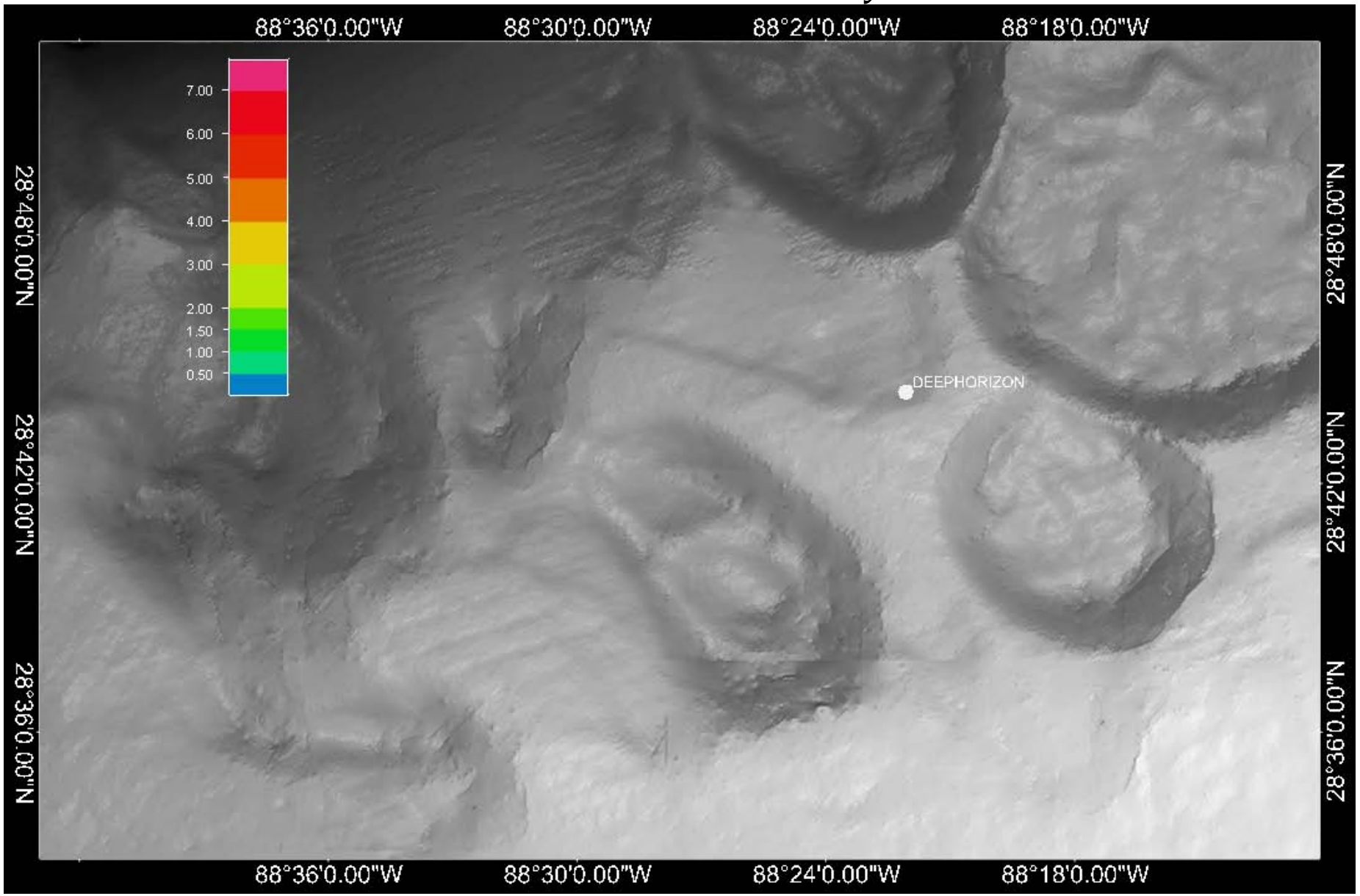


Figure 64: Mean Fluorescence ppb (QSDE) between 1000-1300m on 23 June 2010

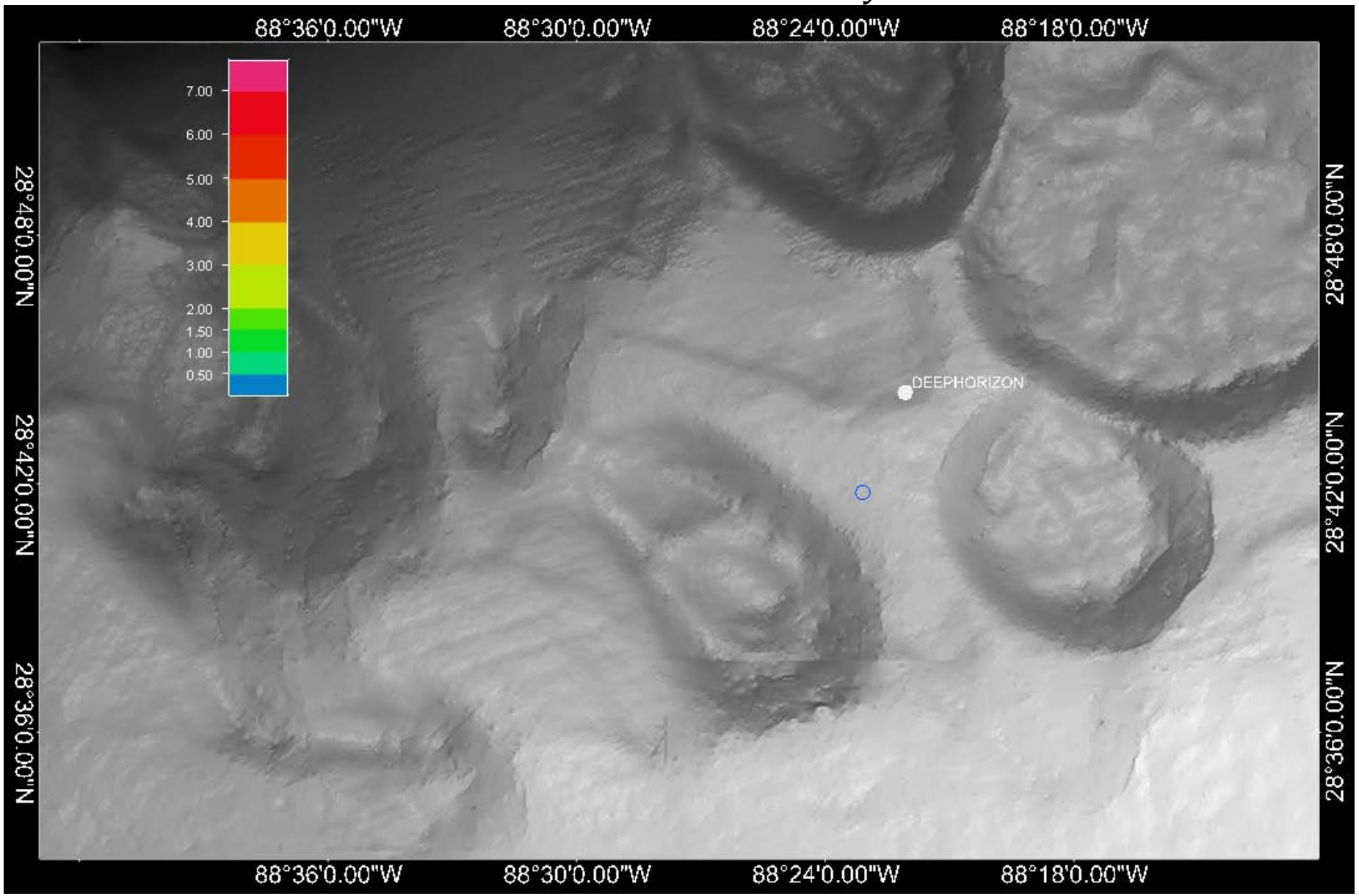


Figure 65: Mean Fluorescence ppb (QSDE) between 1000-1300m on 24 June 2010

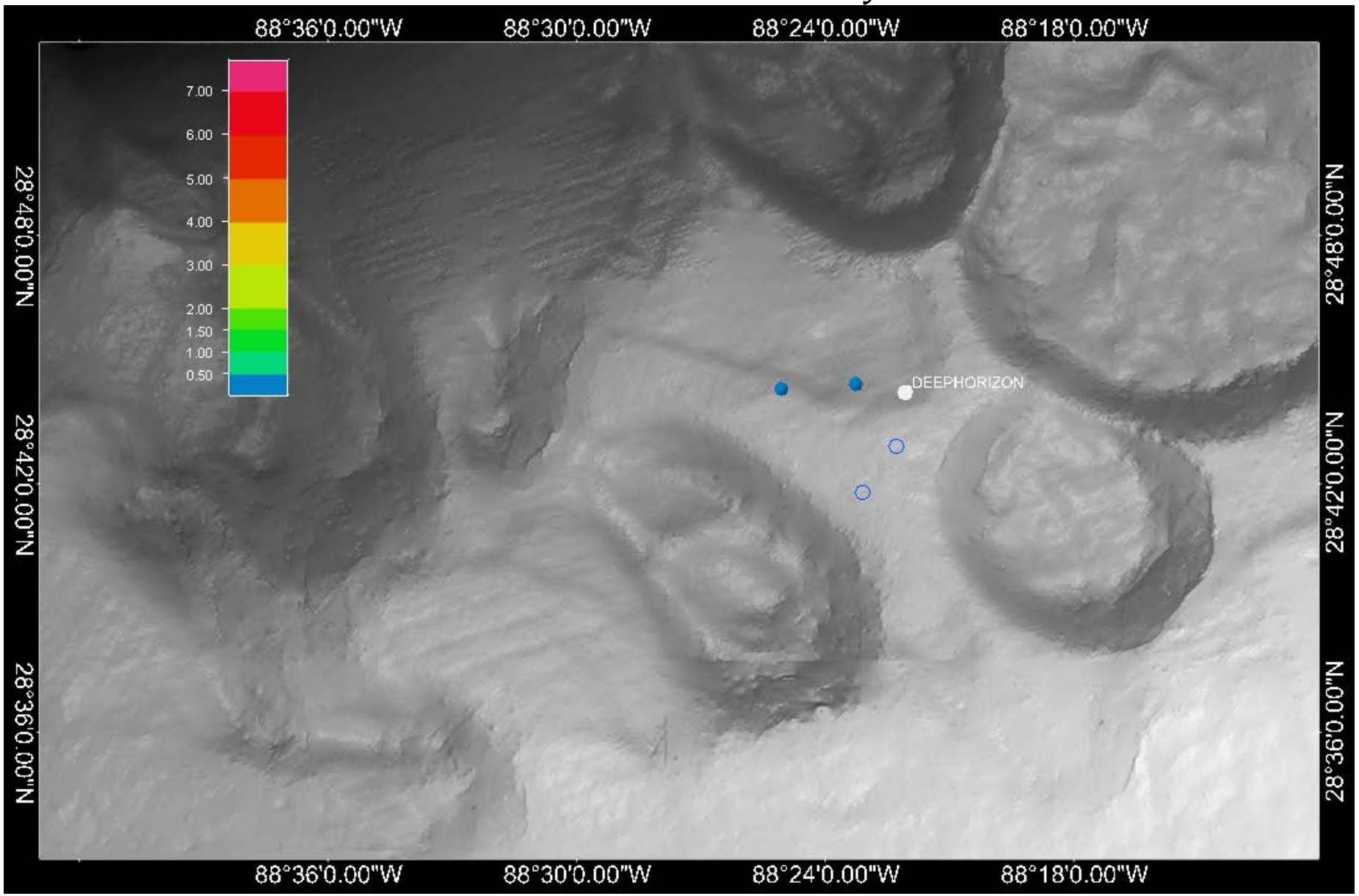


Figure 66: Mean Fluorescence ppb (QSDE) between 1000-1300m on 25 June 2010

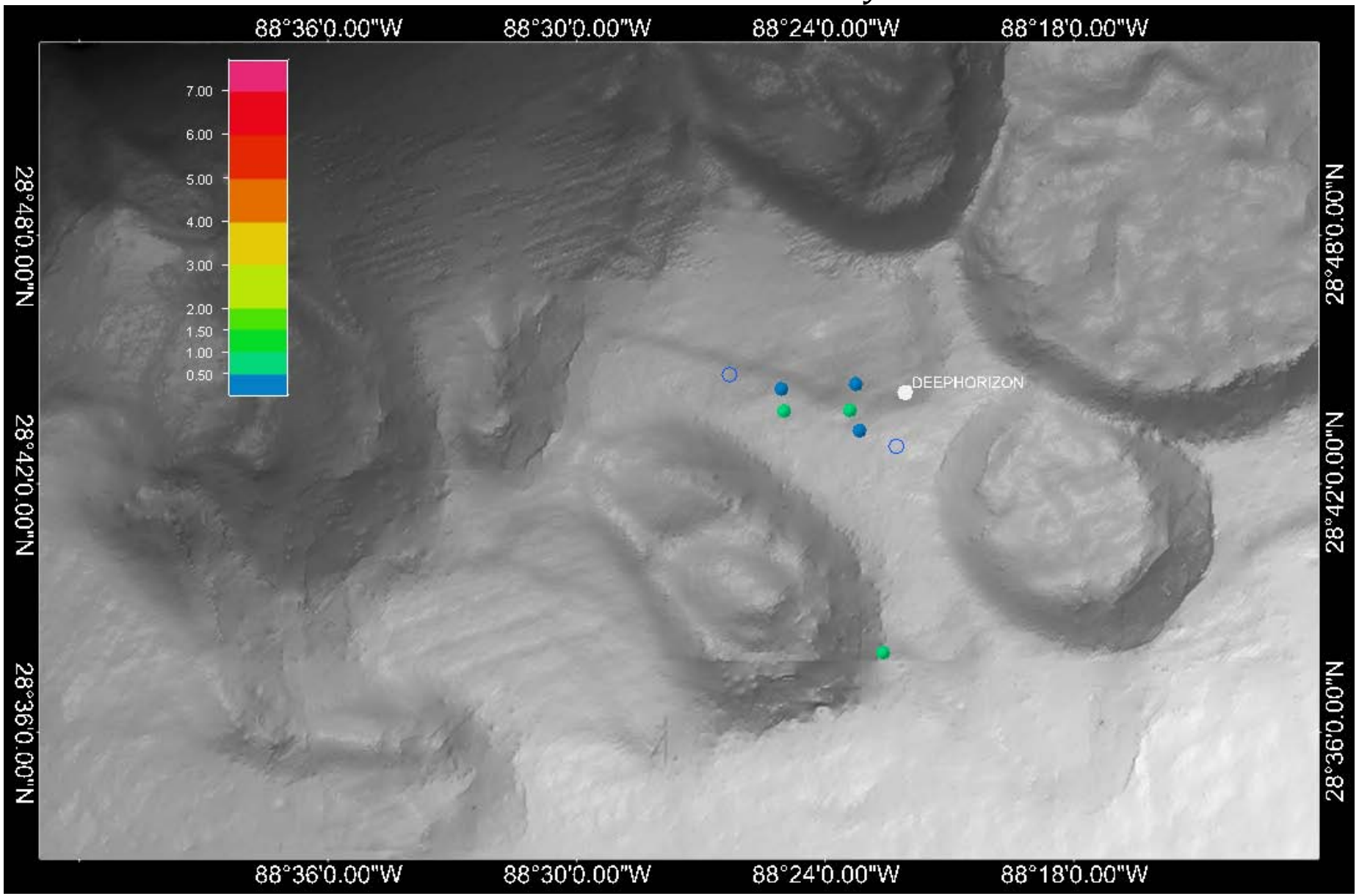


Figure 67: Mean Fluorescence ppb (QSDE) between 1000-1300m on 26 June 2010

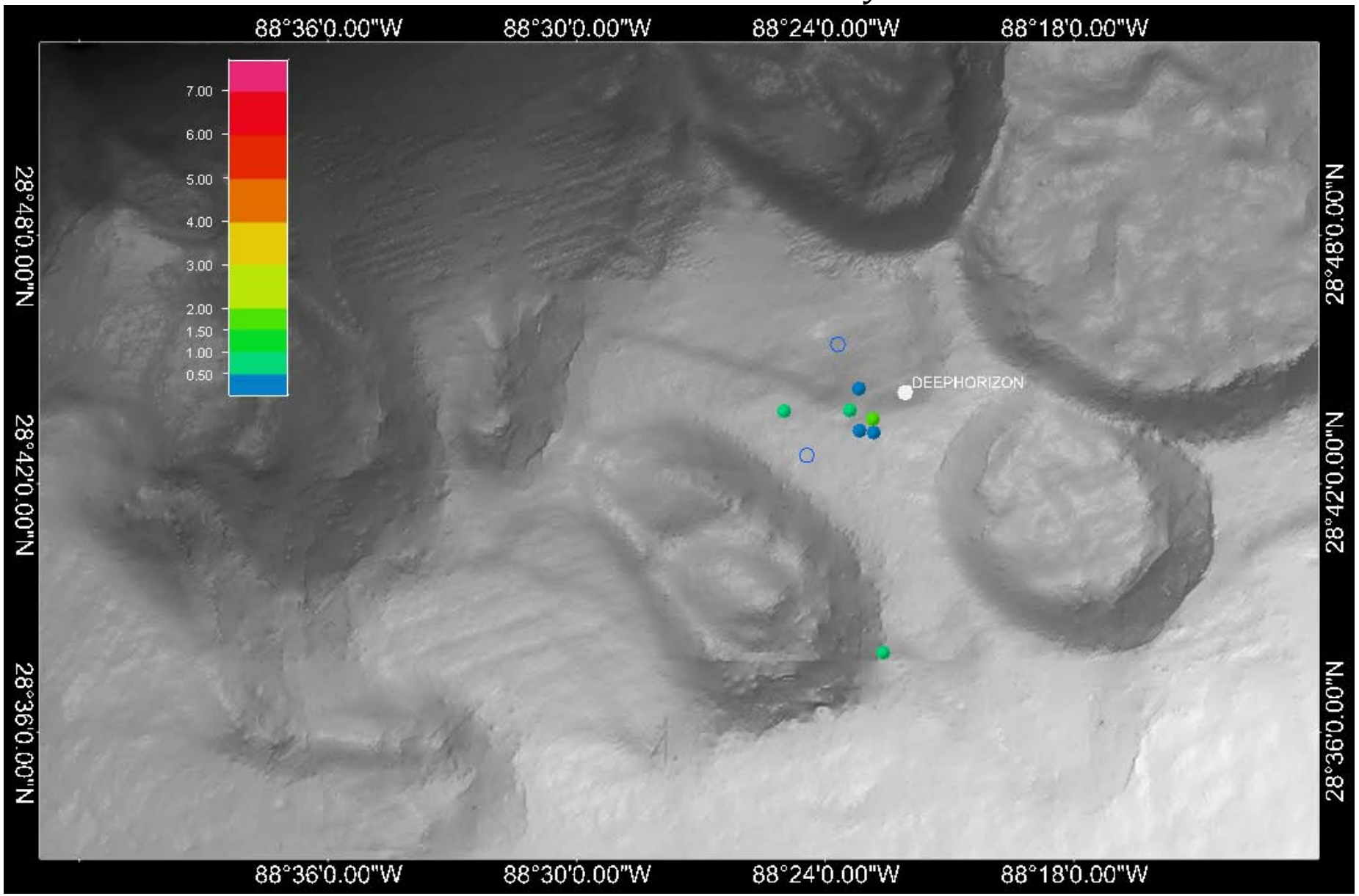


Figure 68: Mean Fluorescence ppb (QSDE) between 1000-1300m on 27 June 2010

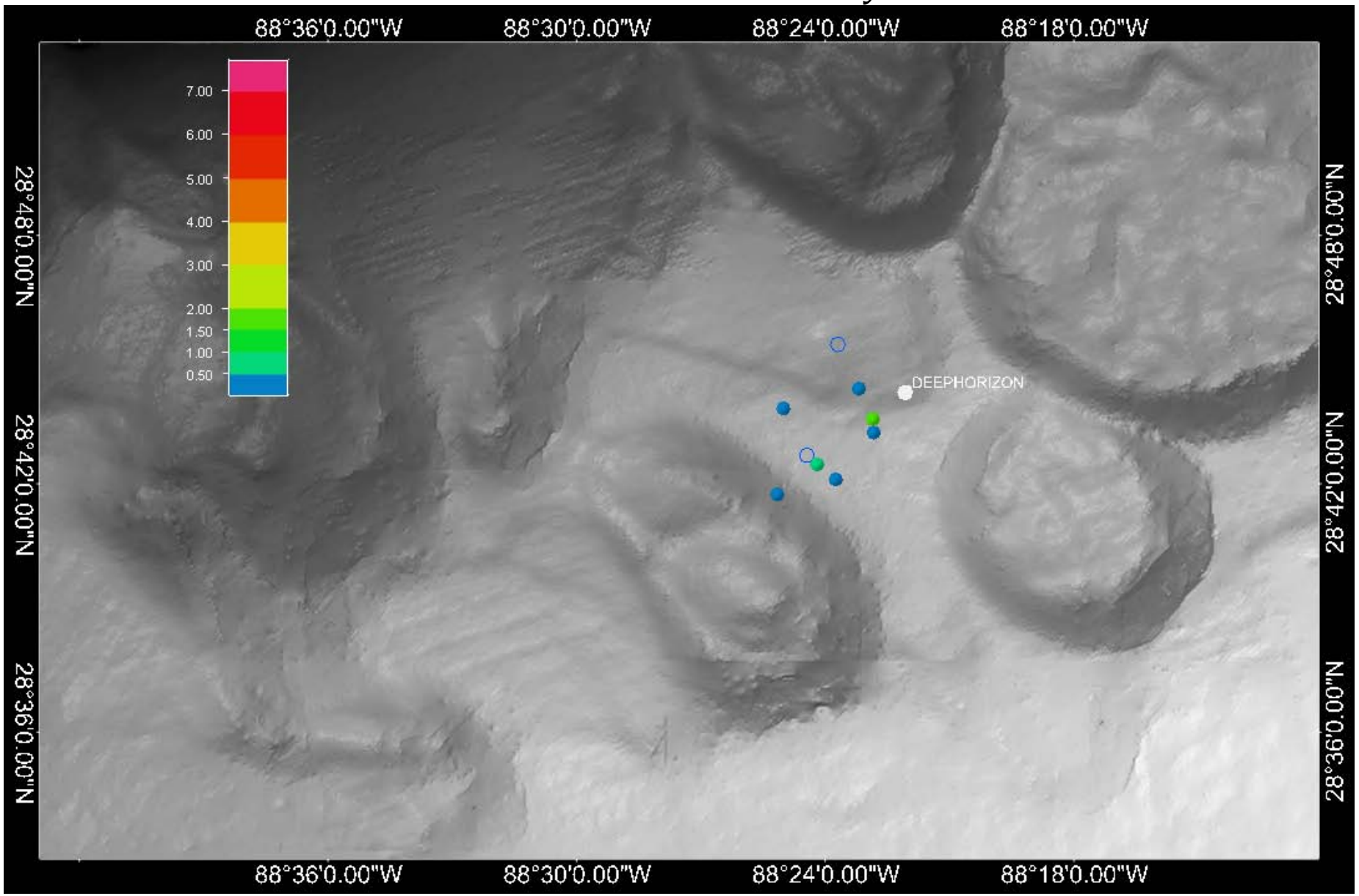


Figure 69: Mean Fluorescence ppb (QSDE) between 1000-1300m on 28 June 2010

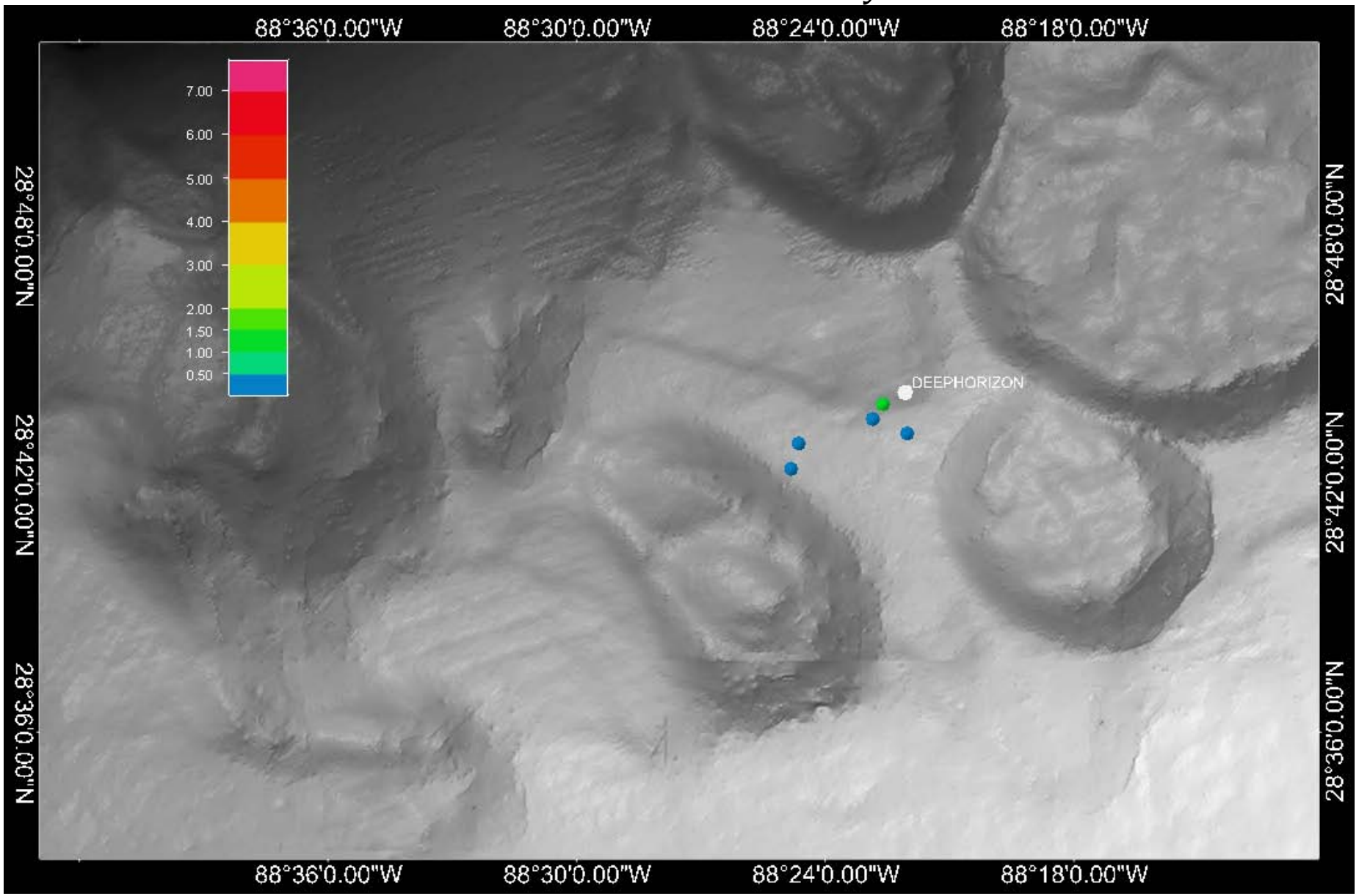


Figure 70: Mean Fluorescence ppb (QSDE) between 1000-1300m on 29 June 2010

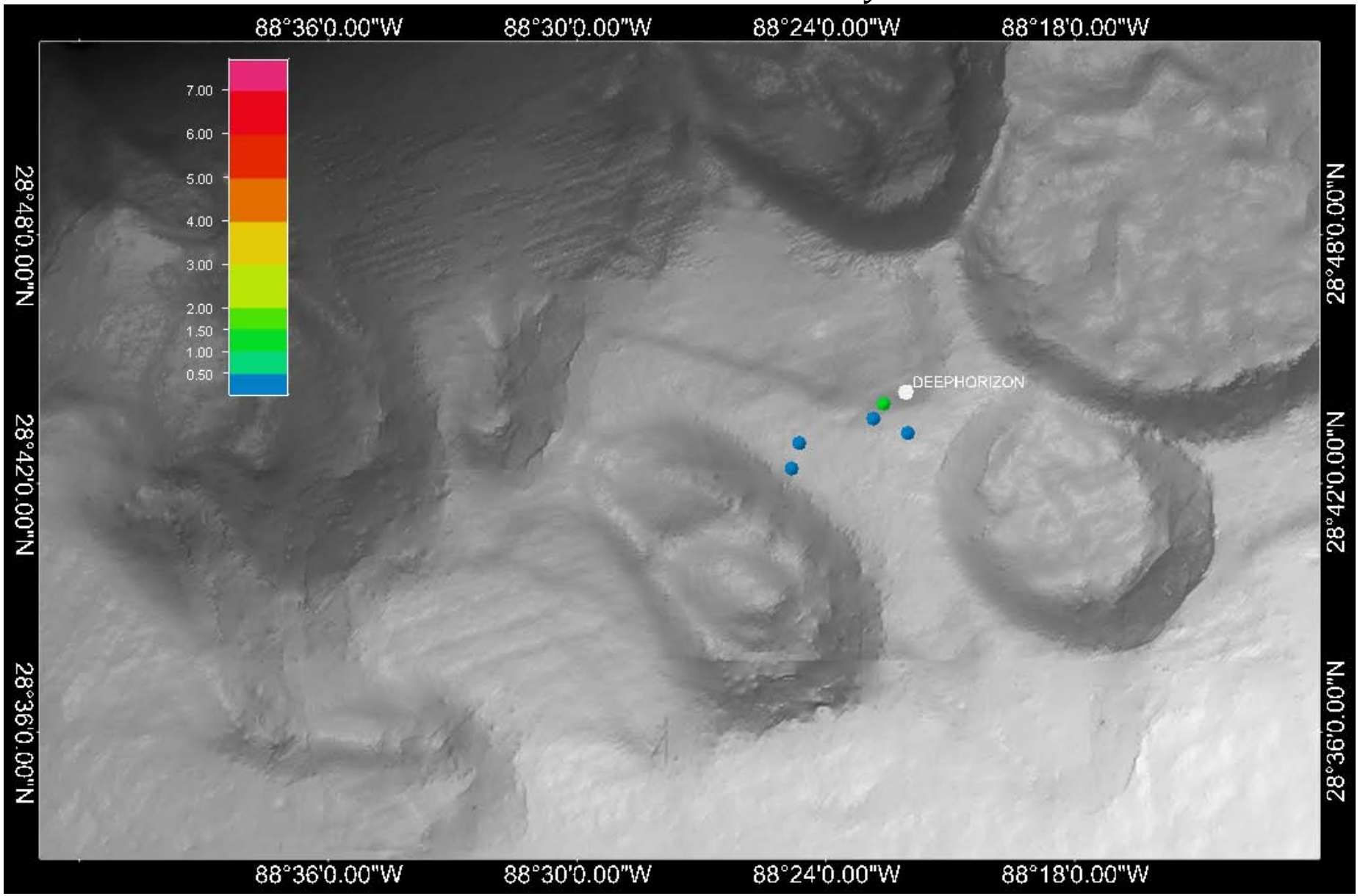


Figure 71: Mean Fluorescence ppb (QSDE) between 1000-1300m on 30 June 2010

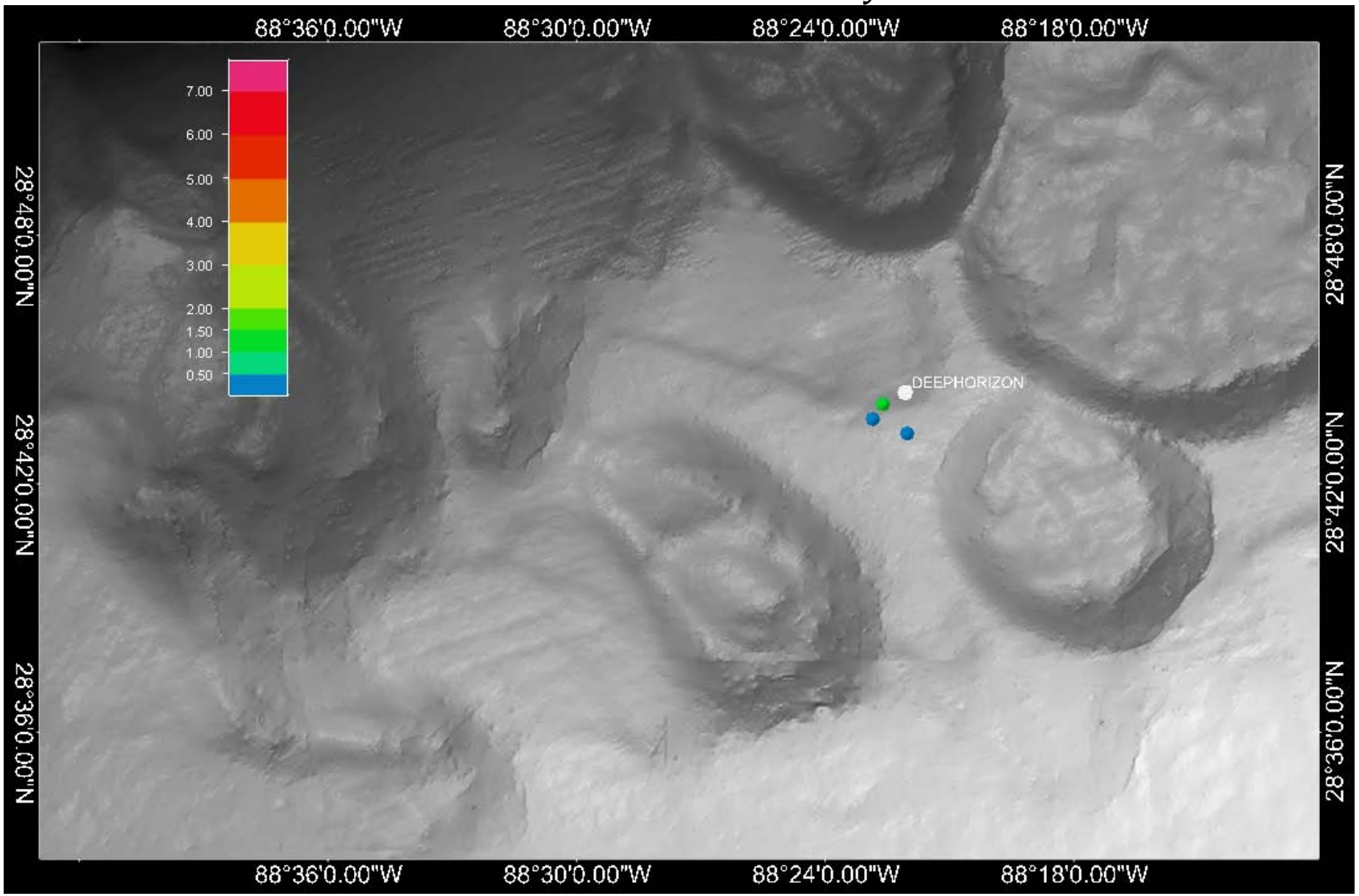


Figure 72: Mean Fluorescence ppb (QSDE) between 1000-1300m on 01 July 2010

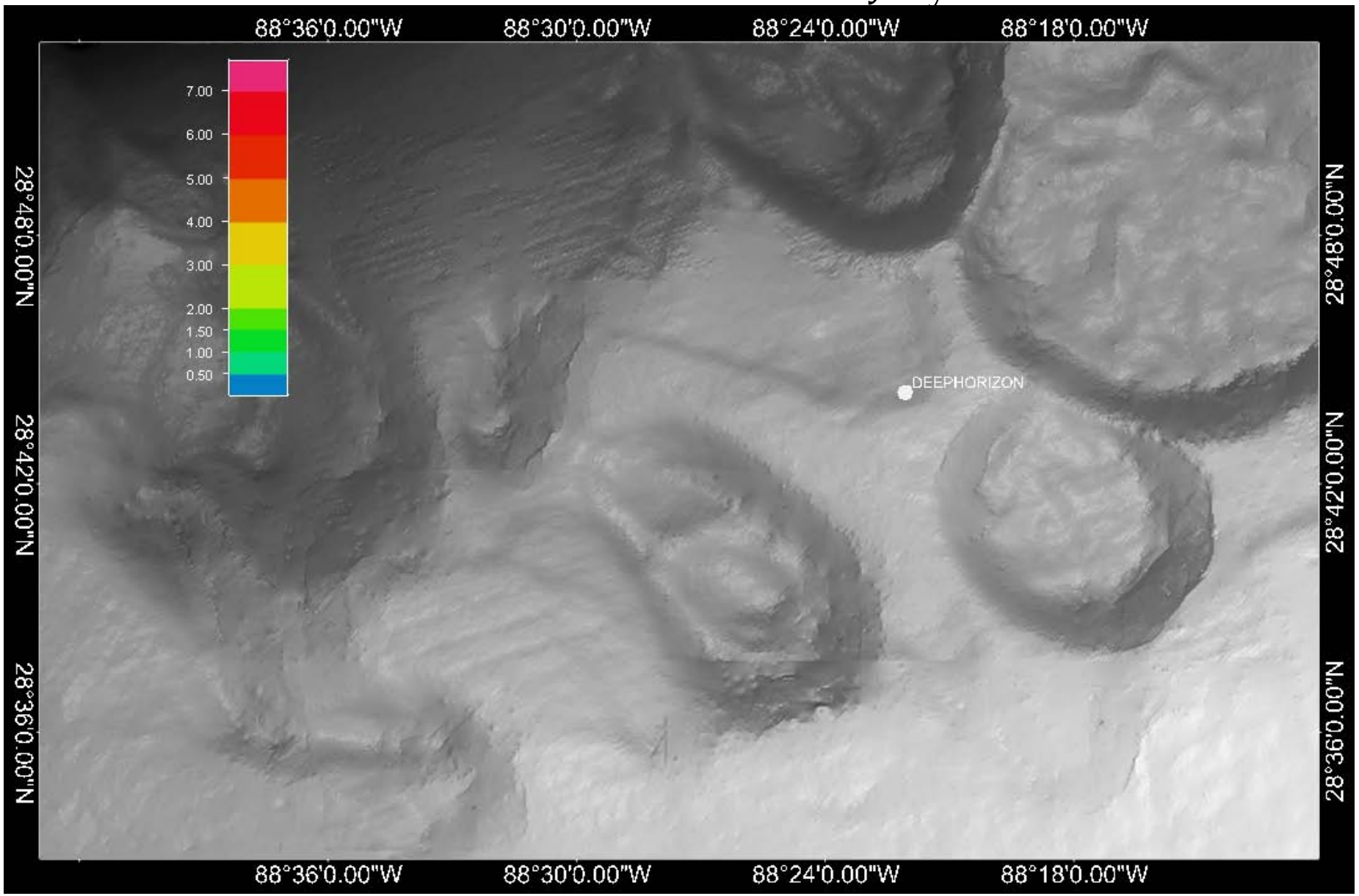


Figure 73: Mean Fluorescence ppb (QSDE) between 1000-1300m on 02 July 2010

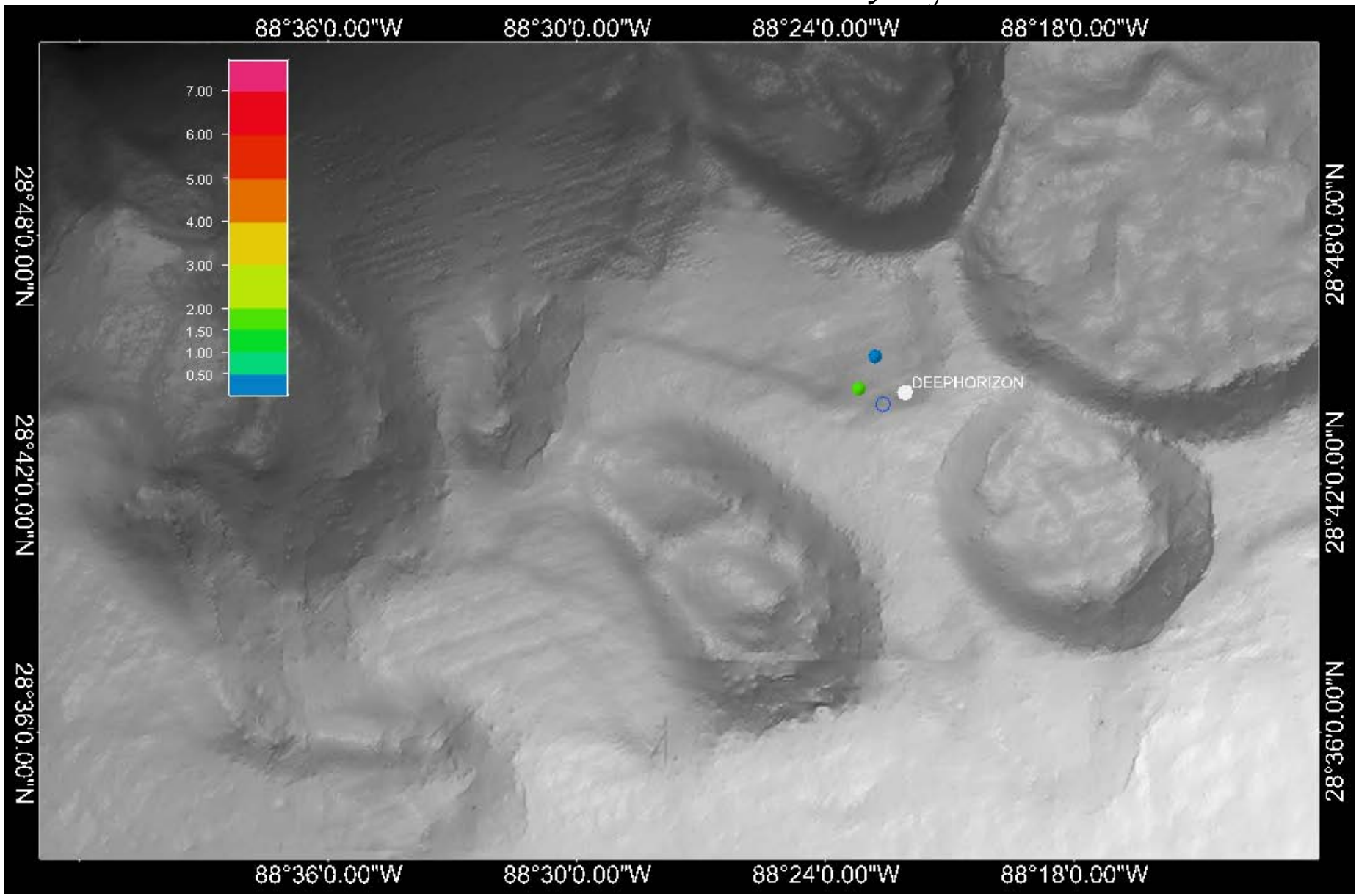


Figure 74: Mean Fluorescence ppb (QSDE) between 1000-1300m on 03 July 2010

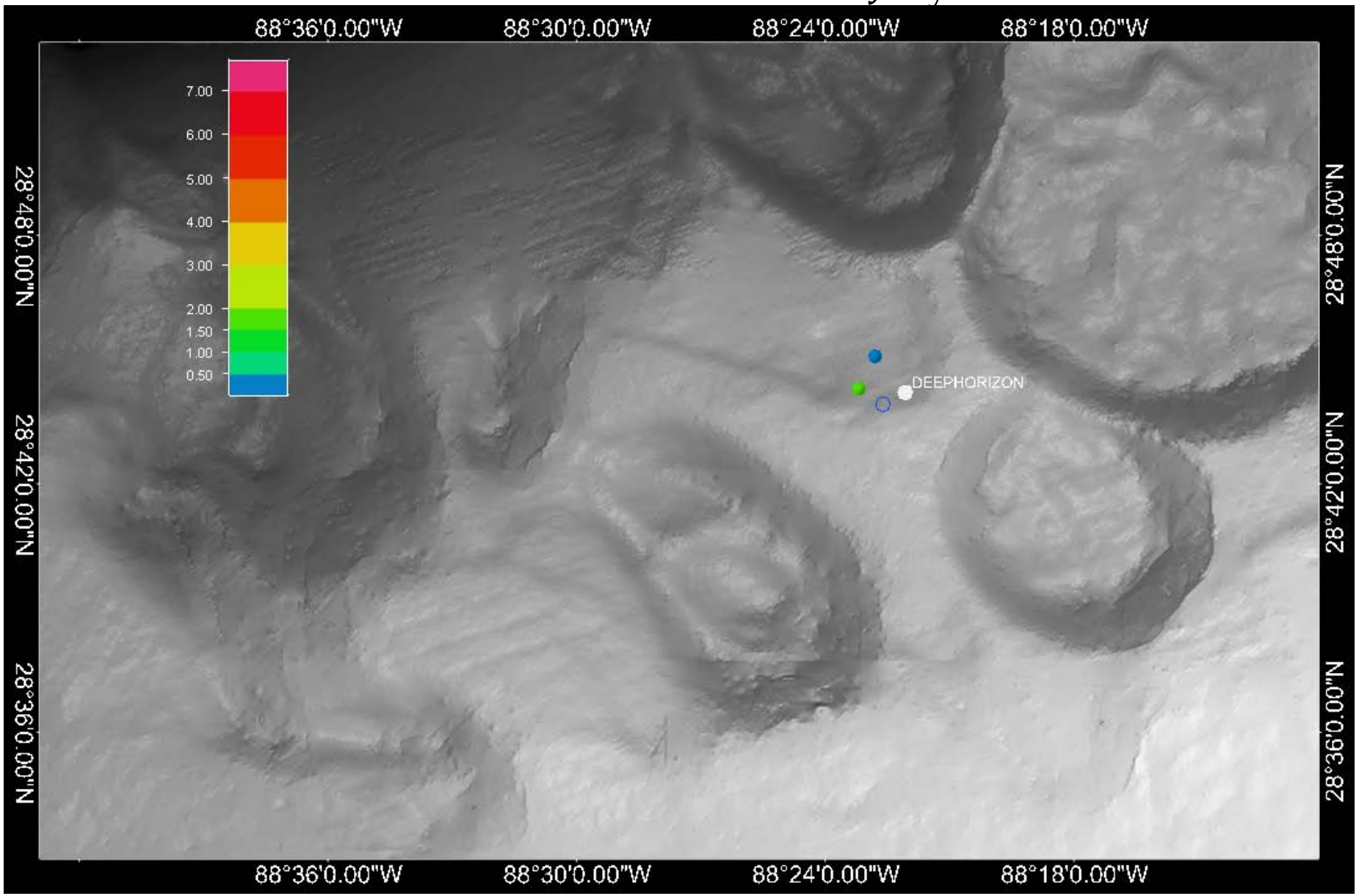


Figure 75: Mean Fluorescence ppb (QSDE) between 1000-1300m on 04 July 2010

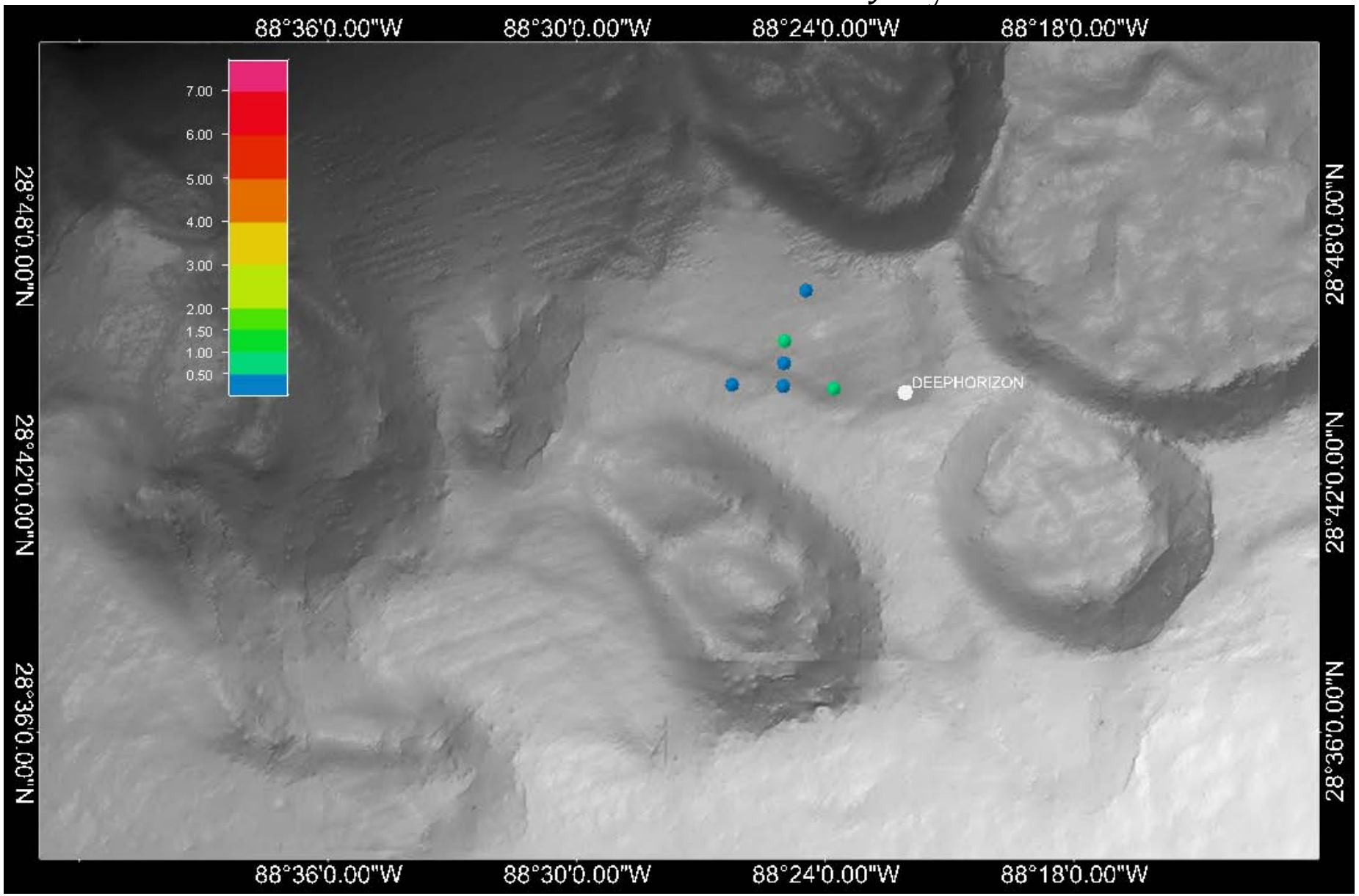


Figure 76: Mean Fluorescence ppb (QSDE) between 1000-1300m on 05 July 2010

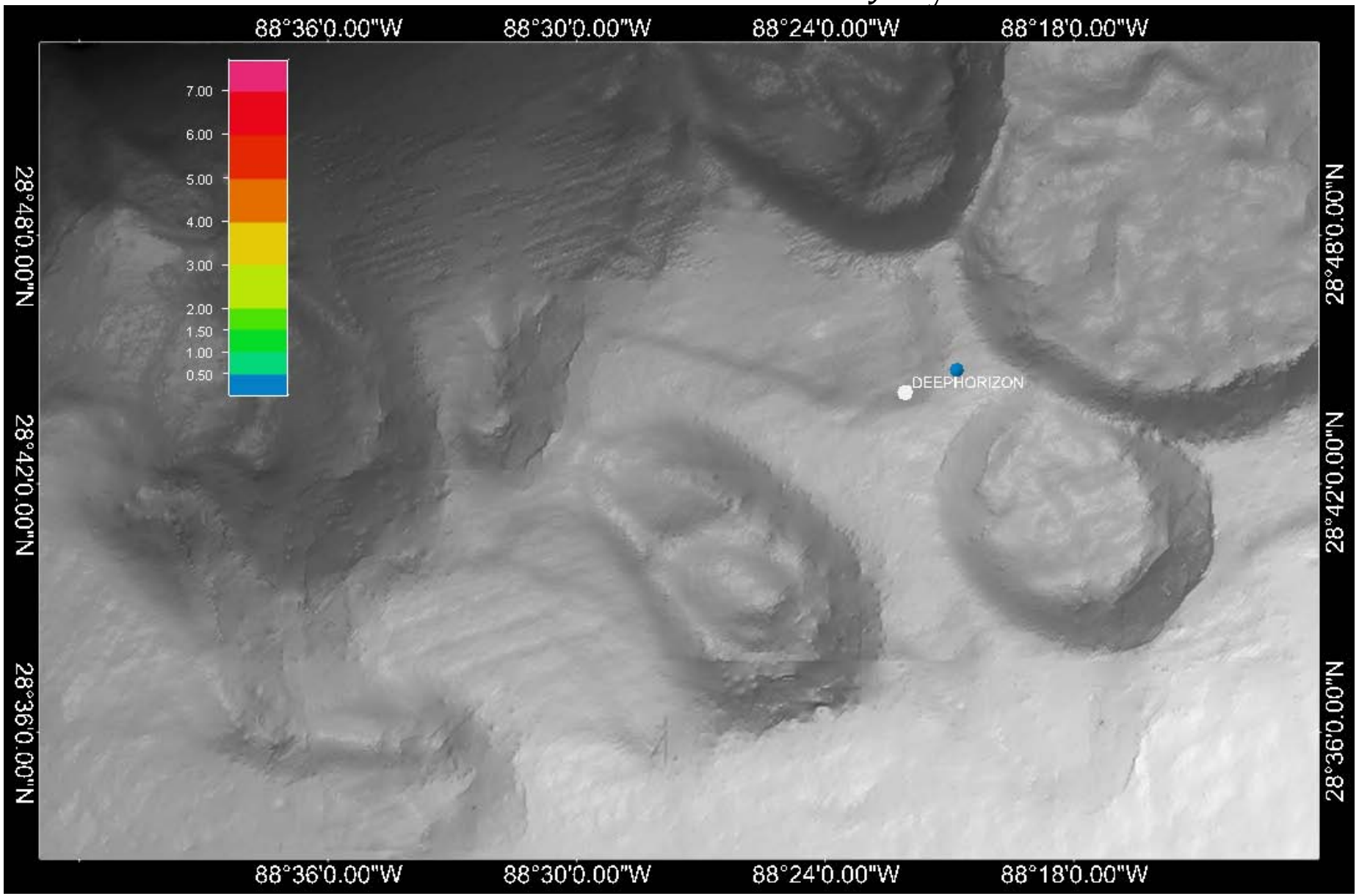


Figure 77: Mean Fluorescence ppb (QSDE) between 1000-1300m on 06 July 2010

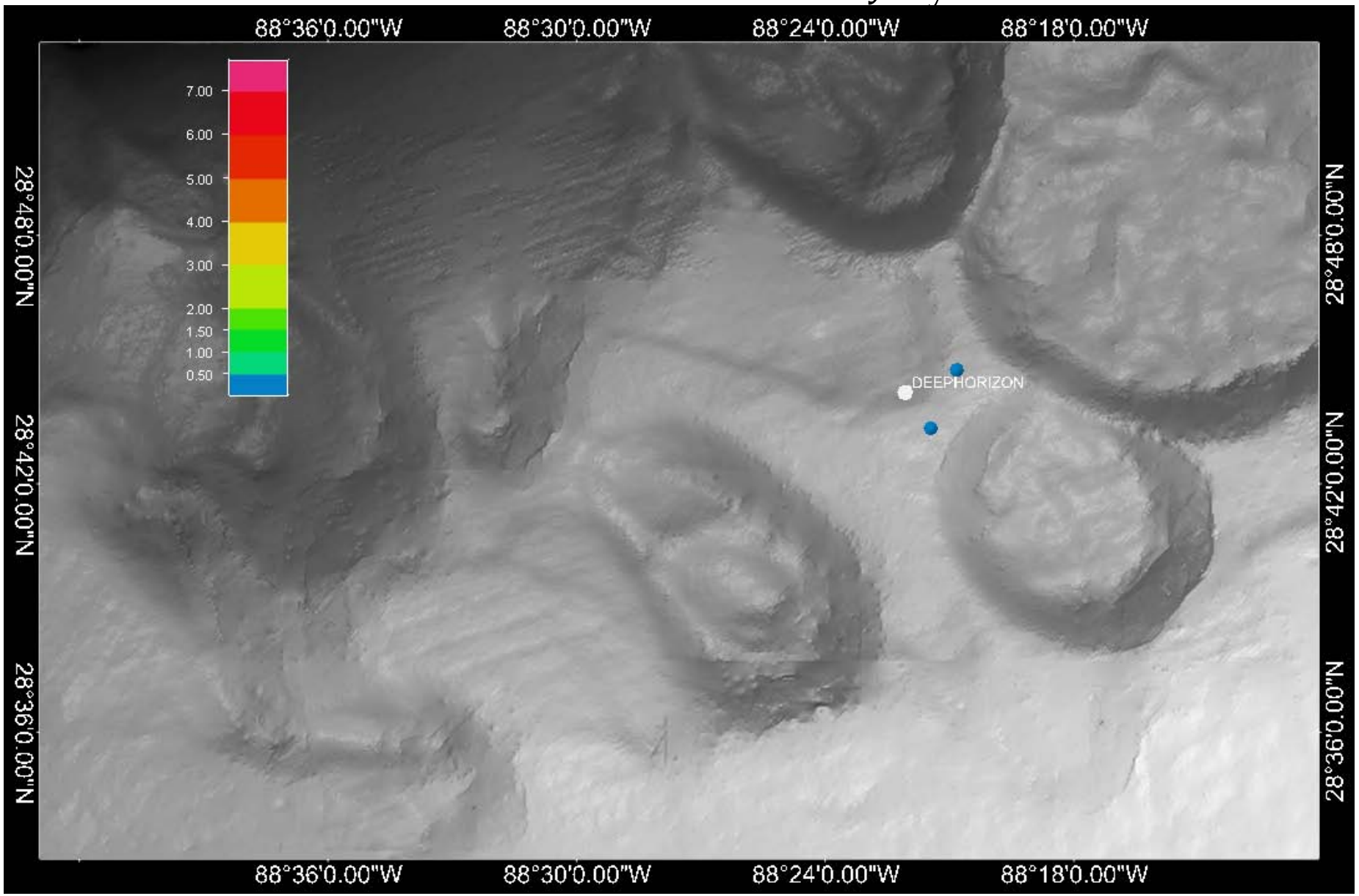


Figure 78: Mean Fluorescence ppb (QSDE) between 1000-1300m on 07 July 2010

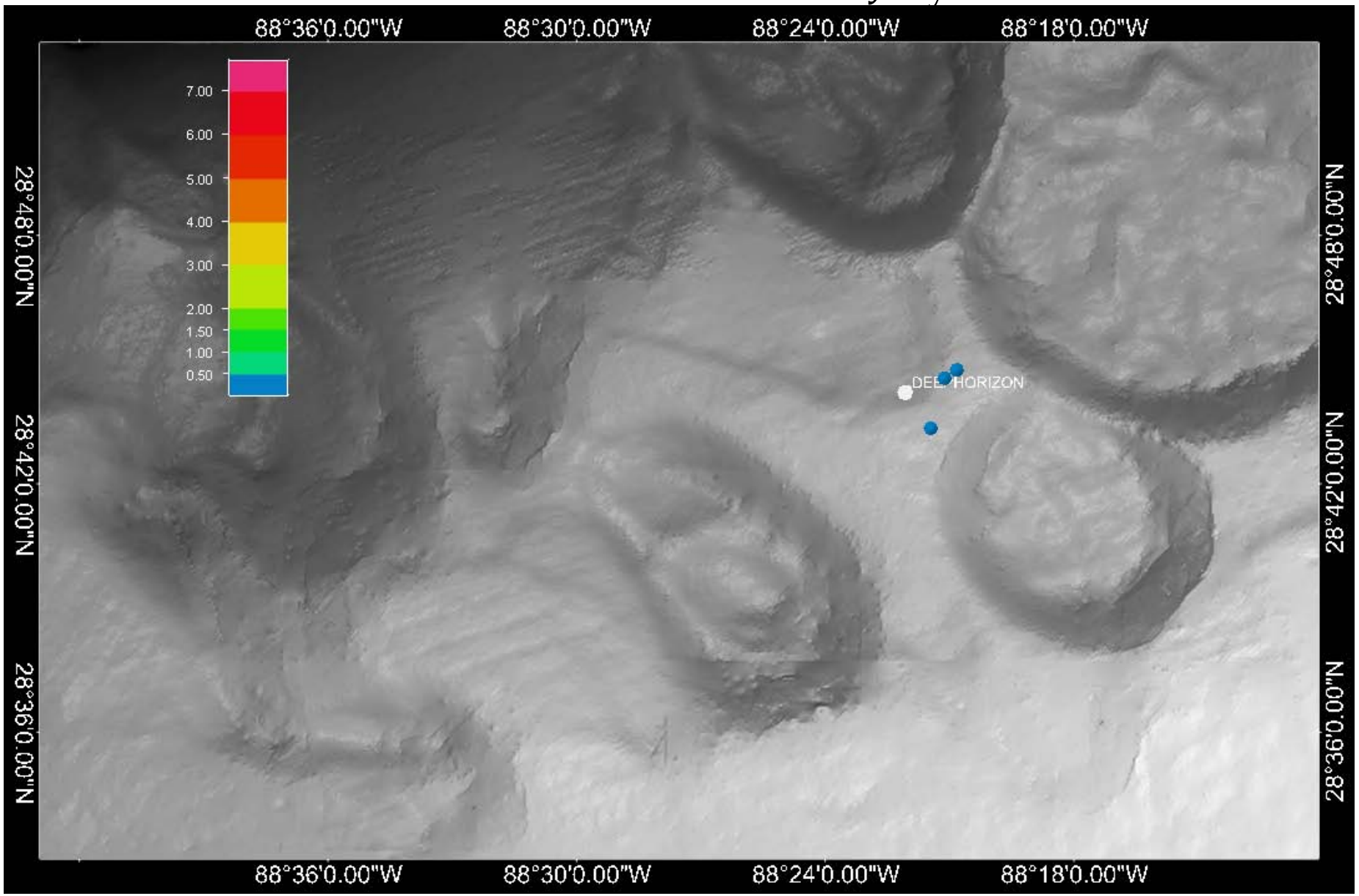


Figure 79: Mean Fluorescence ppb (QSDE) between 1000-1300m on 08 July 2010

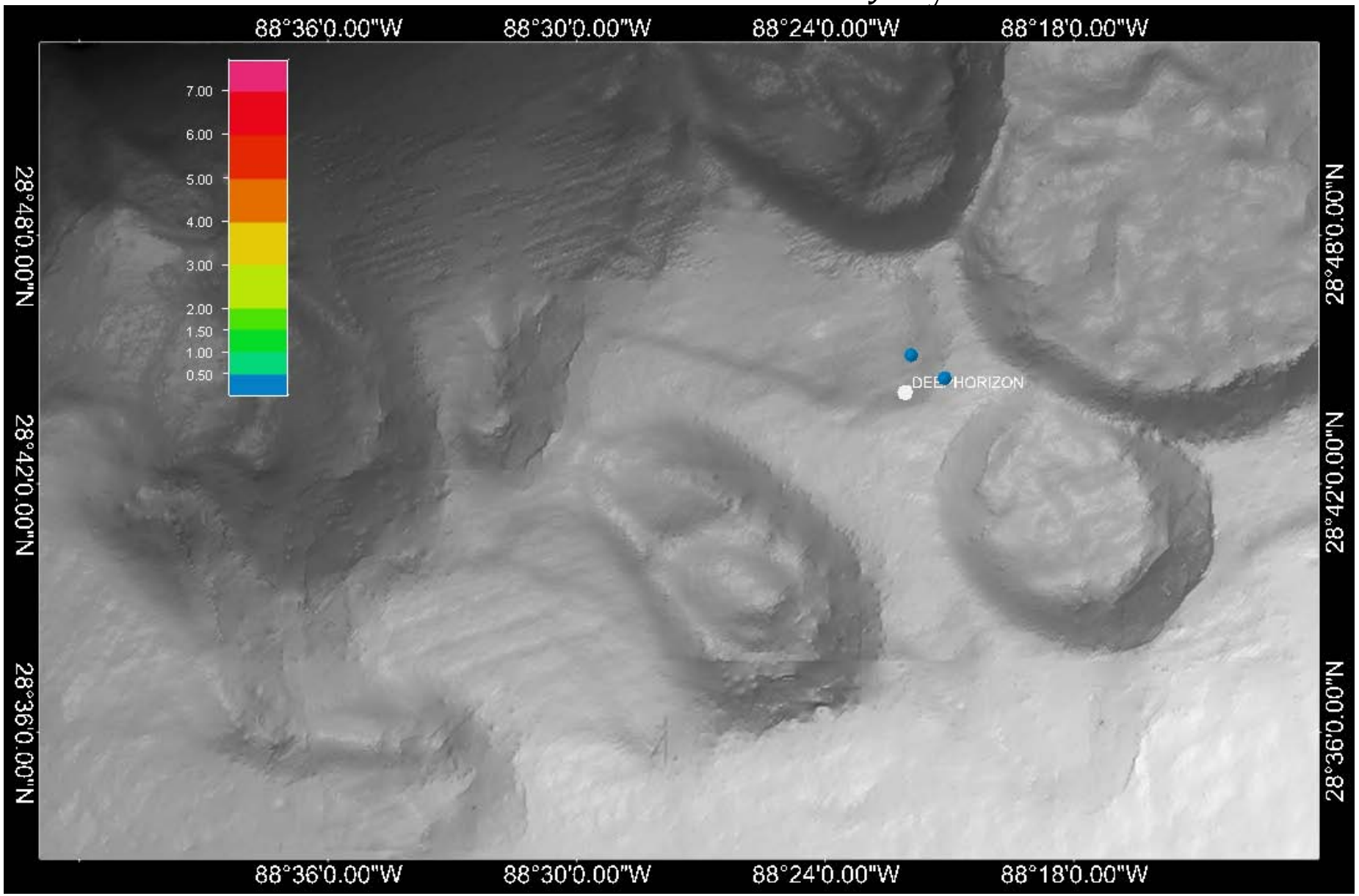


Figure 80: Mean Fluorescence ppb (QSDE) between 1000-1300m on 09 July 2010

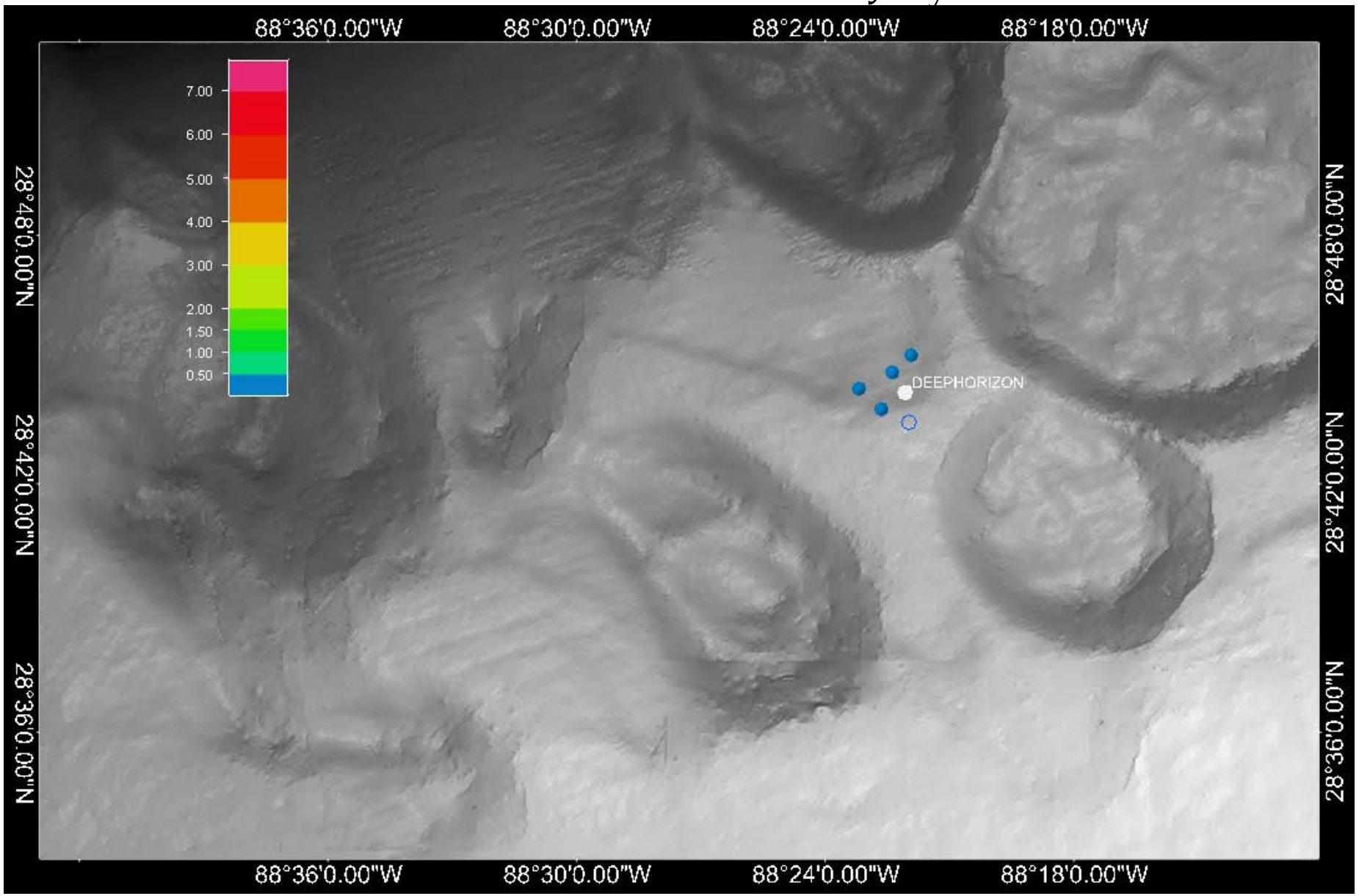


Figure 81: Mean Fluorescence ppb (QSDE) between 1000-1300m on 10 July 2010

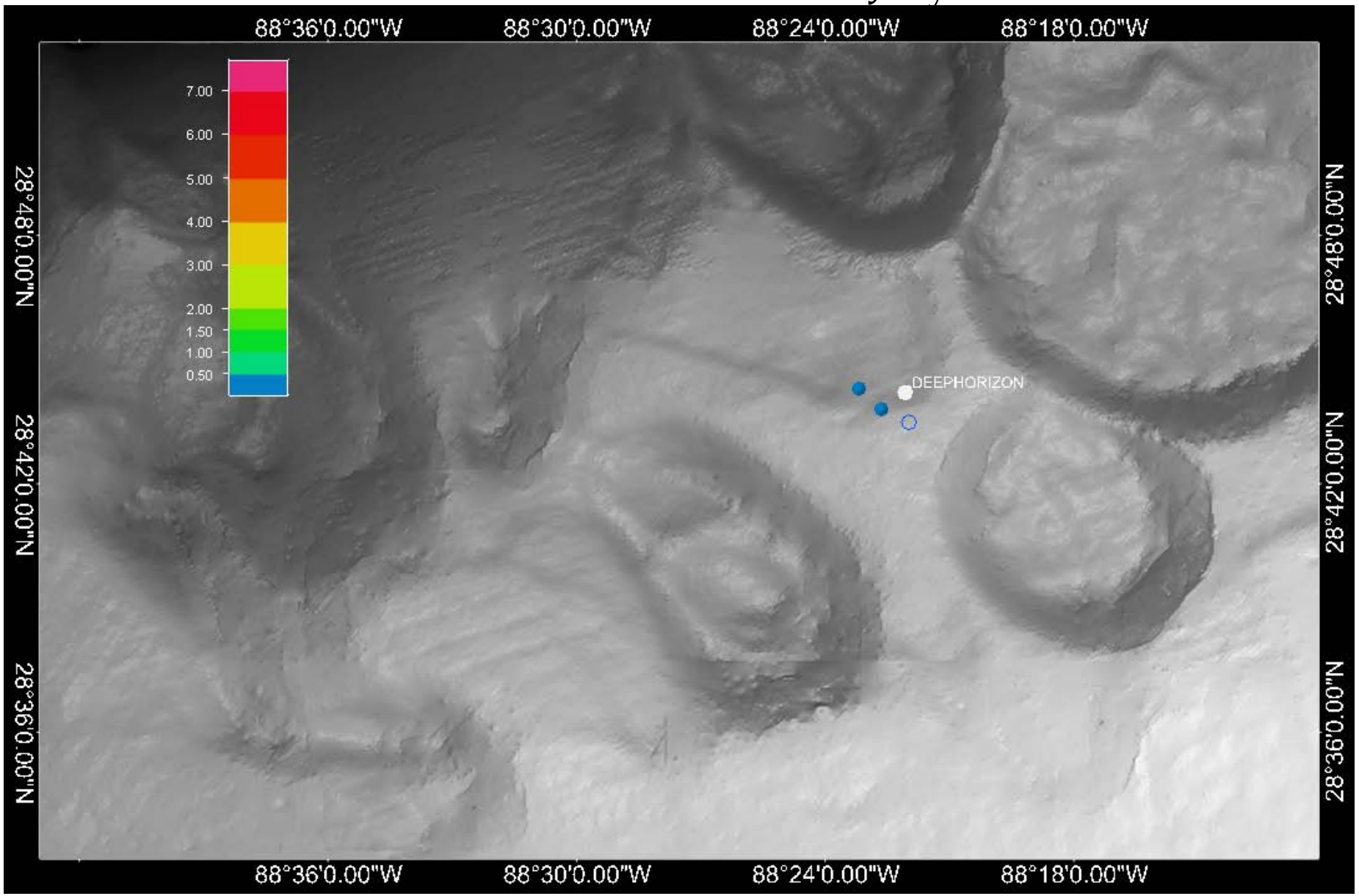


Figure 82: Mean Fluorescence ppb (QSDE) between 1000-1300m on 11 July 2010

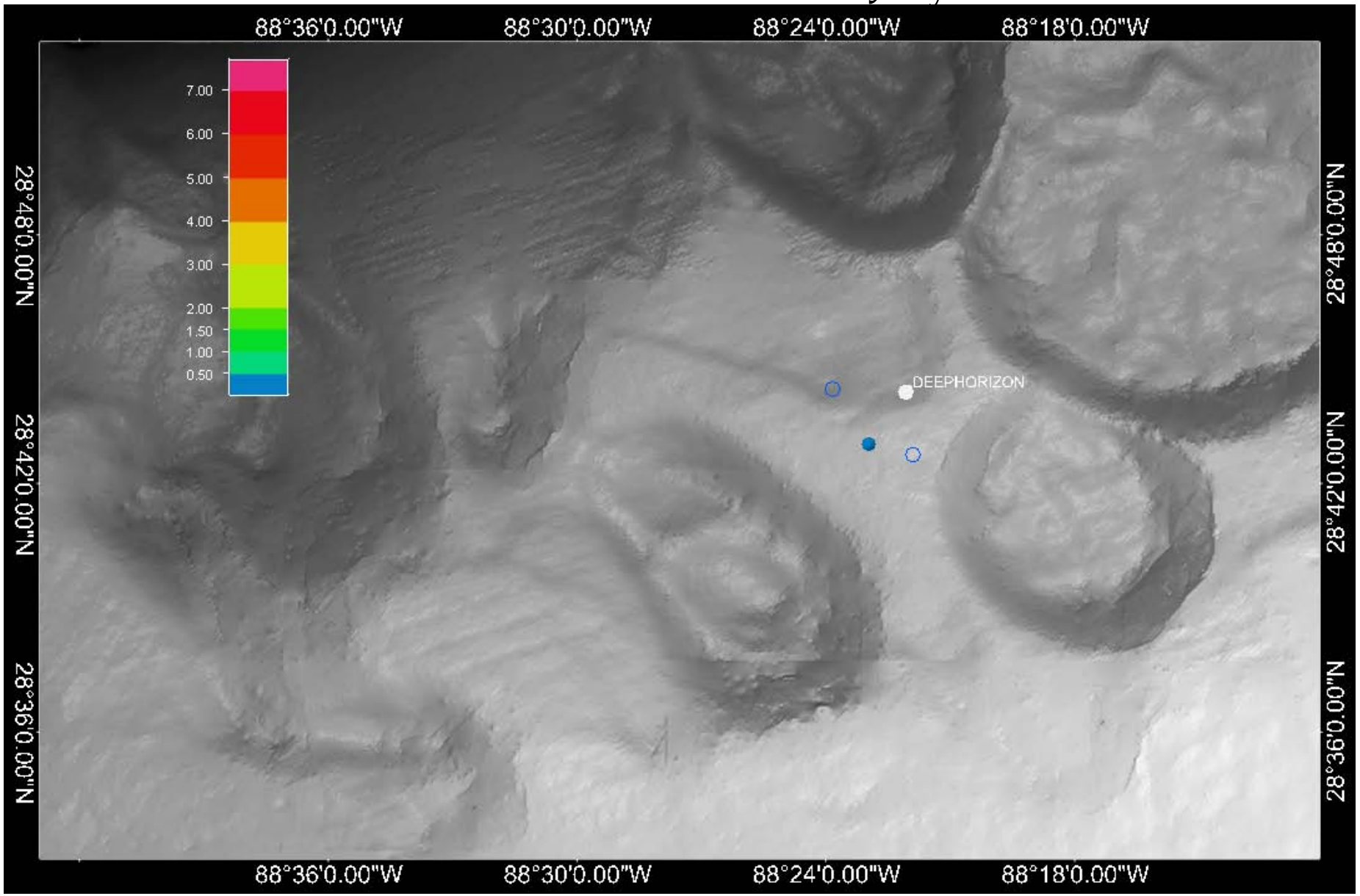


Figure 83: Mean Fluorescence ppb (QSDE) between 1000-1300m on 12 July 2010

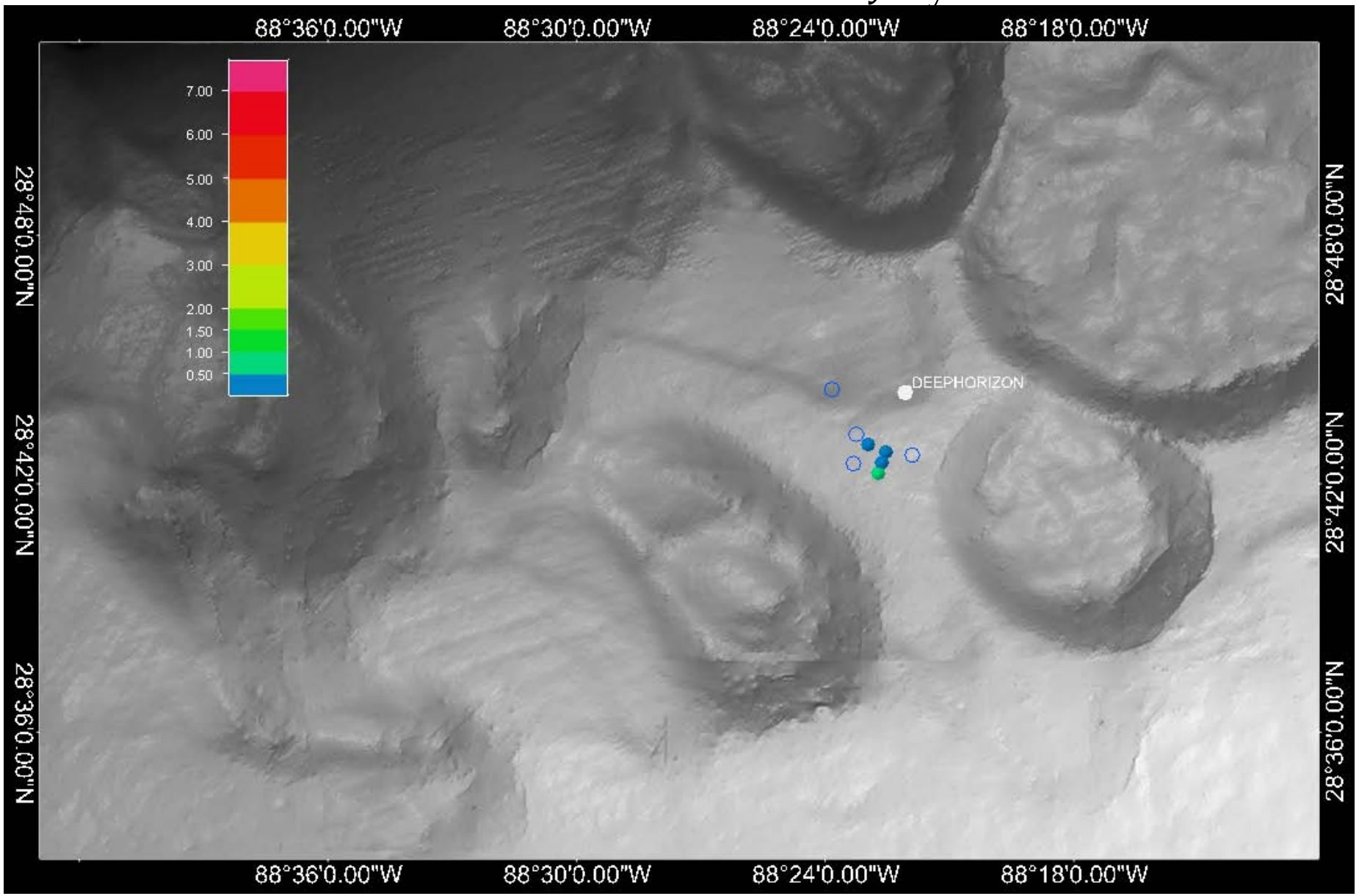


Figure 84: Mean Fluorescence ppb (QSDE) between 1000-1300m on 13 July 2010

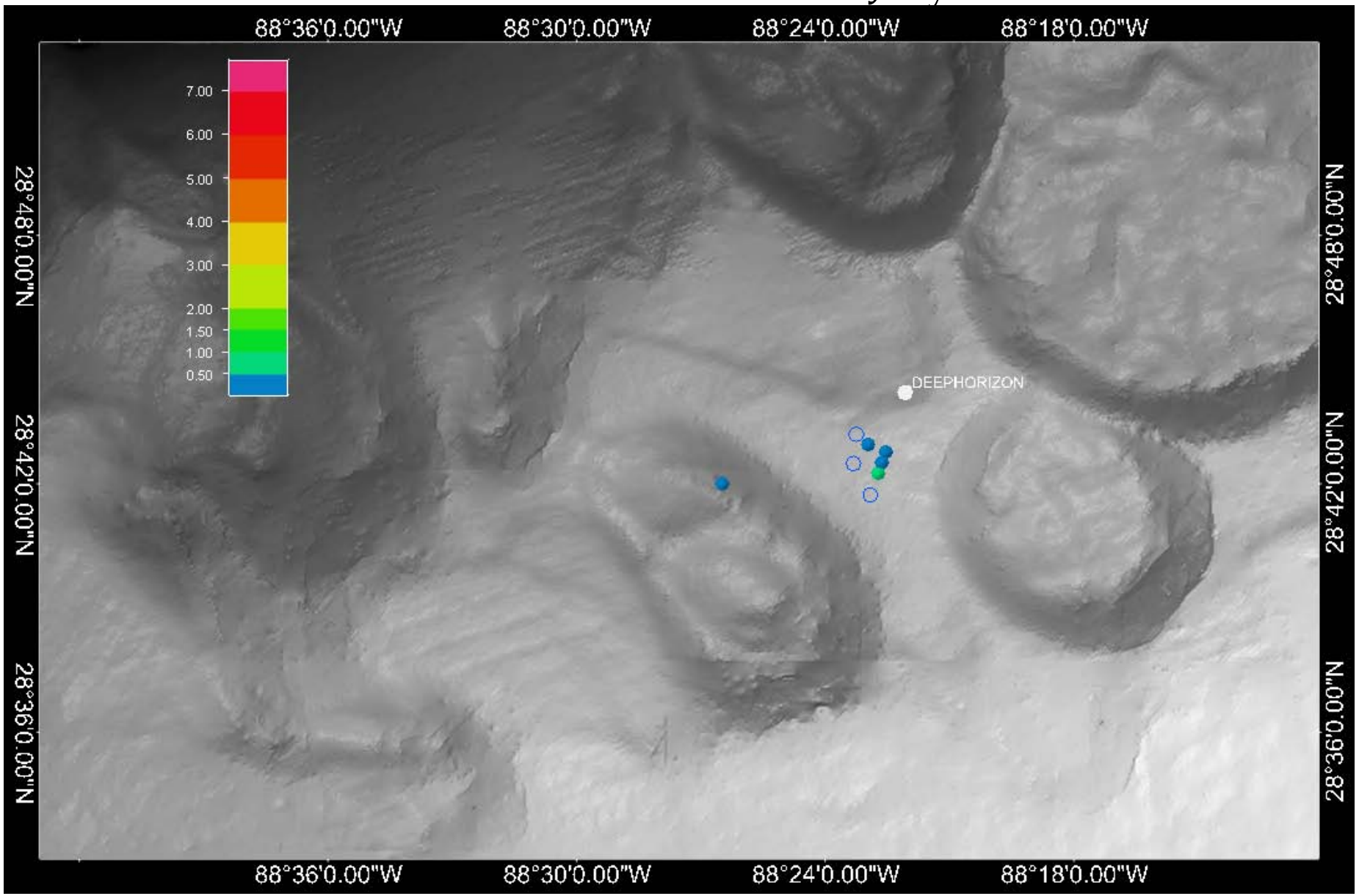


Figure 85: Mean Fluorescence ppb (QSDE) between 1000-1300m from 19 May through 13 July

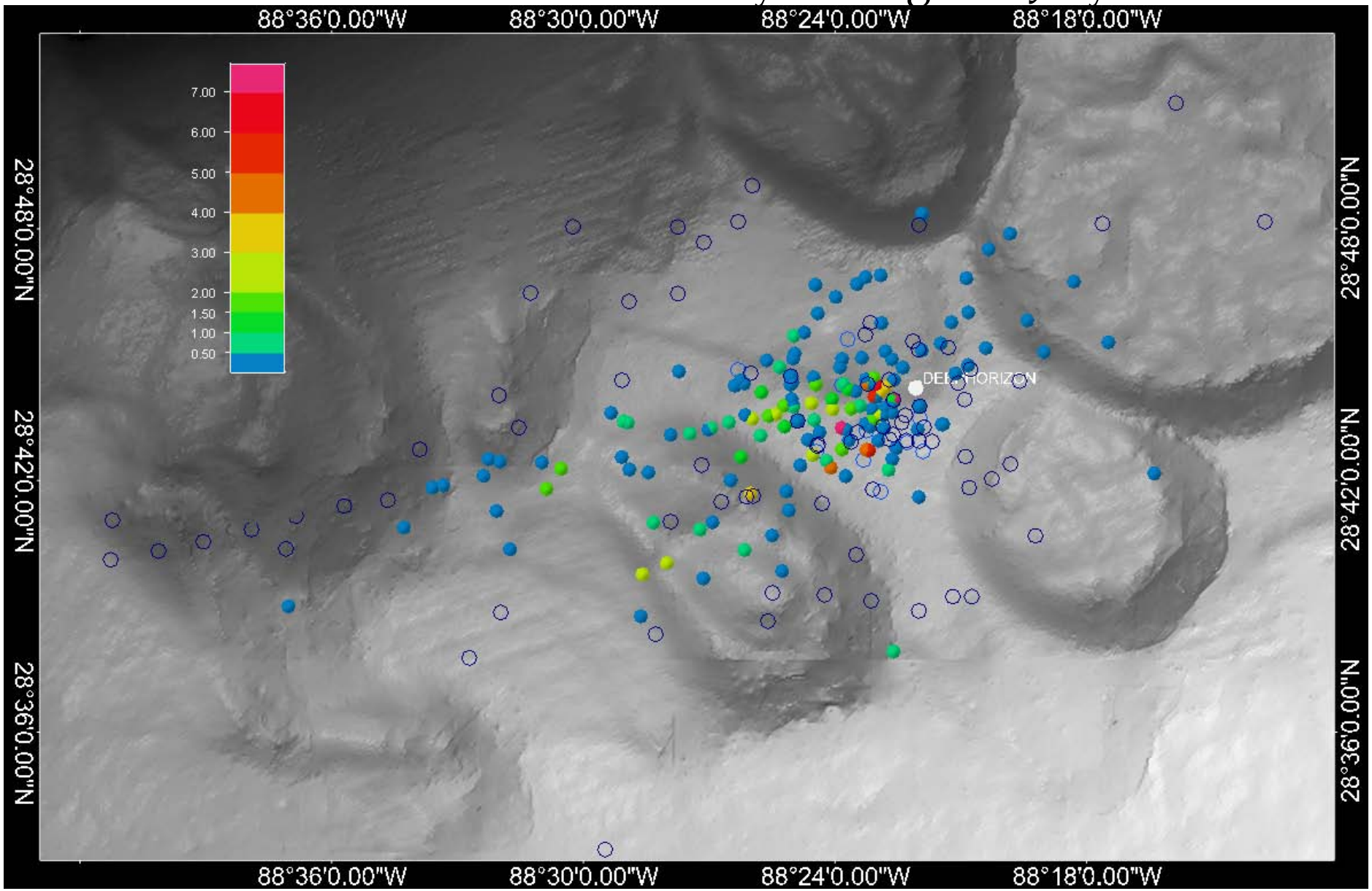


Figure 86: Mean Fluorescence ppb (QSDE) between 1000-1300m from 19 May through 13 July