

**U.S. Geological Survey (USGS)
Water-Quality Monitoring Station
Sentinel Island, Lake Mead, Arizona and Nevada**

Water Years 2005 – 09

**Averaged Temperature,
Dissolved Oxygen, and
Specific Conductance**

**By
Depth-Dependent Profiles**

Explanation of Graphs:

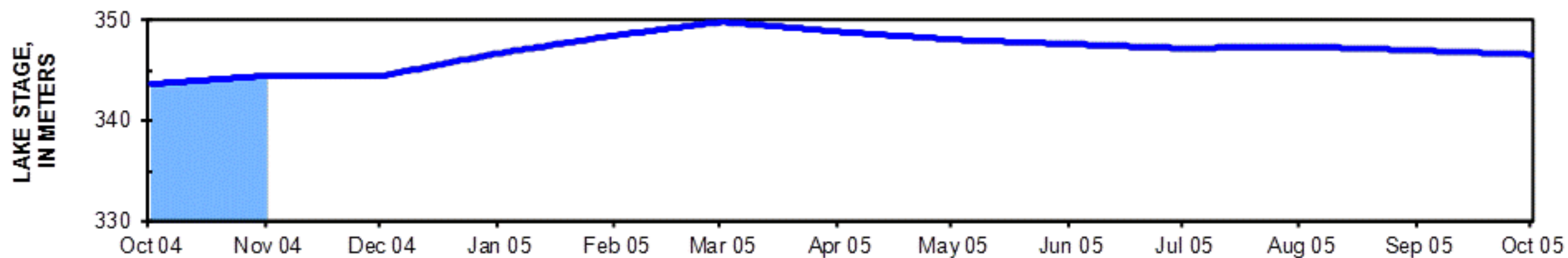
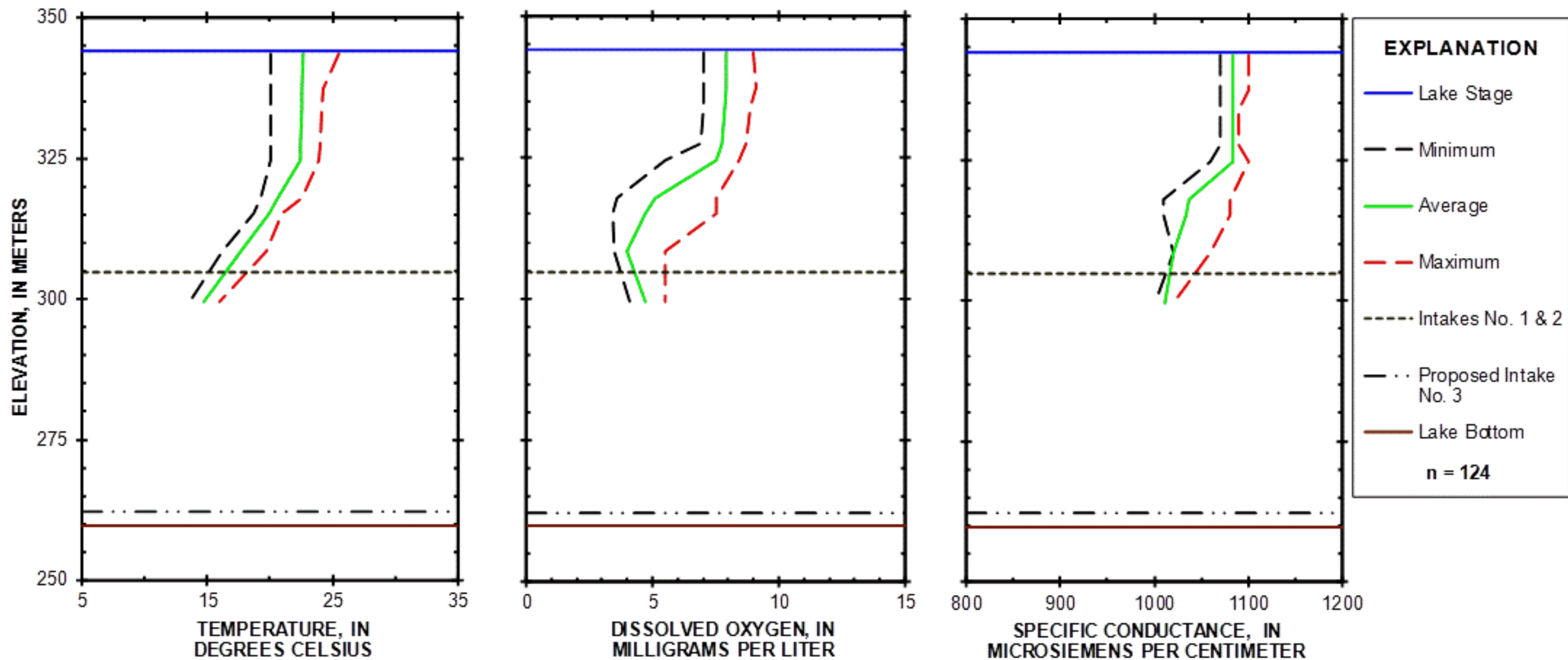
The upper three plots presented in the following graphs show averaged temperature, dissolved oxygen, and specific conductance profile data as a function of depth. Depth below lake stage has been normalized to elevation¹ (in meters) because of the fluctuating elevation of the lake stage over the period of interest. The profiles plotted are averages, as well as the maximum and minimum values, recorded for each parameter at each depth during the period for each graph. The number (n) of individual depth-dependent profiles used to compute the average is displayed within the explanation for the plots. Also displayed on these plots are the average monthly elevations of the lake stage, the elevation of drinking-water intakes (two existing and one proposed) that are operated by the Southern Nevada Water Authority, and the elevation of the lake bottom² at the Sentinel Island monitoring station.

The bottom plot shows the elevation of the lake stage (in meters) as a function of time for individual water years. In addition, this plot shows a shaded section that indicates the period of time that is used for the average, maximum, and minimum values presented in the upper three plots.

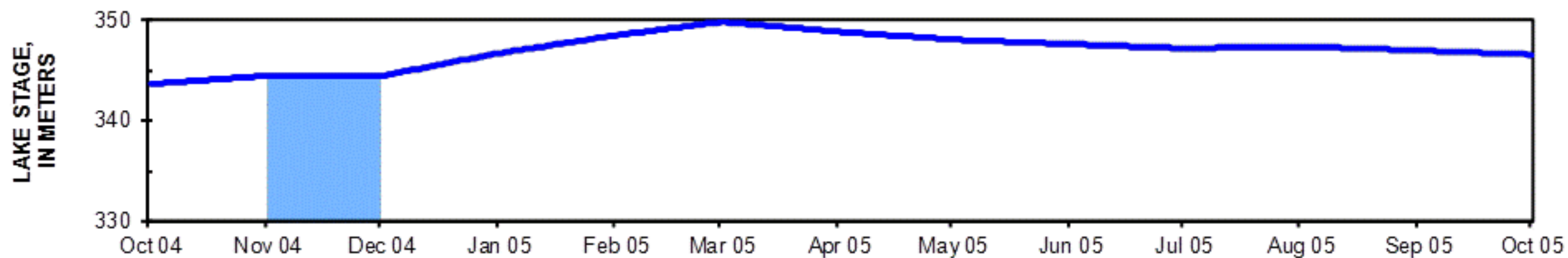
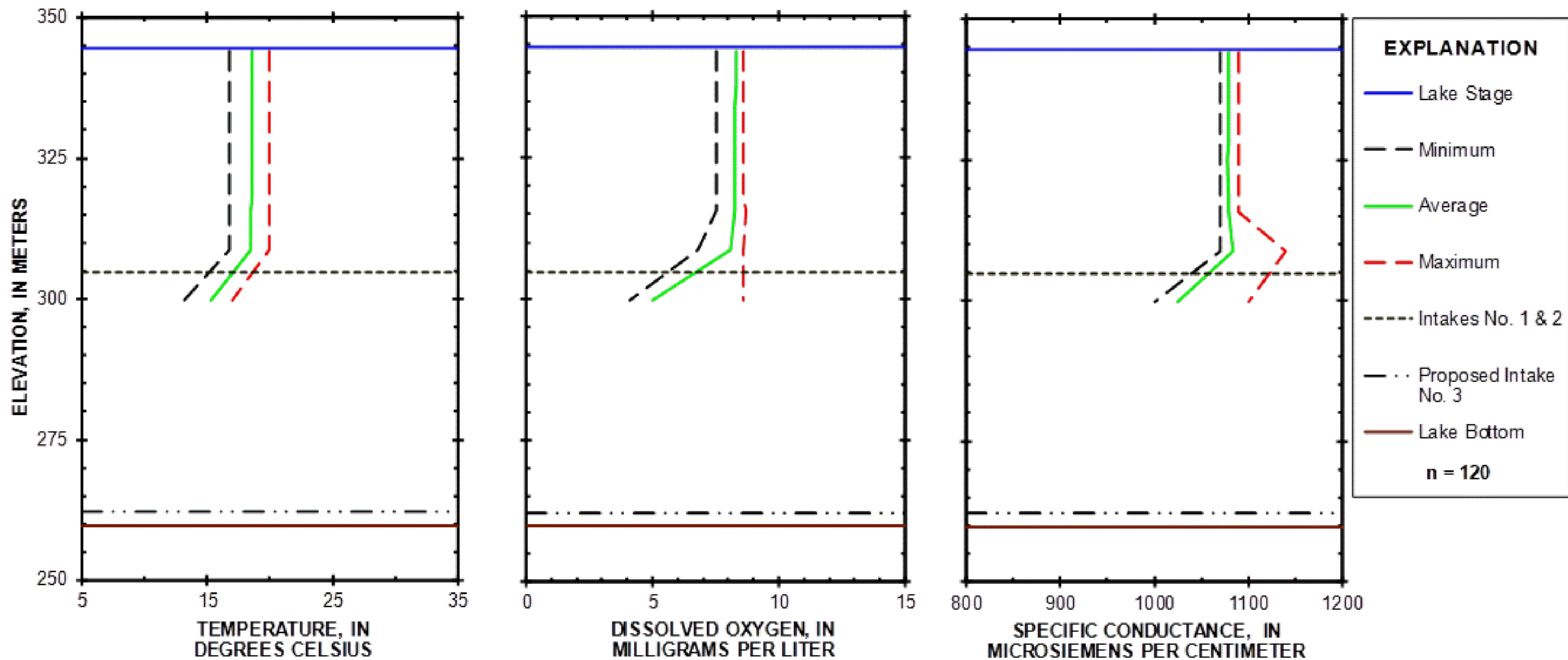
¹Vertical coordinate information is referenced to the U.S. Geological Survey datum, adjustment of 1912, locally known as “Power House Datum.”

²Twichell, D.C., Cross, V.A., and Belew, S.D., 2004, Mapping the floor of Lake Mead (Nevada and Arizona); preliminary discussion and GIS data release: U.S. Geological Survey Open-File Report 03-320, DVD. (Also available at <http://pubs.usgs.gov/of/2003/of03-320/>).

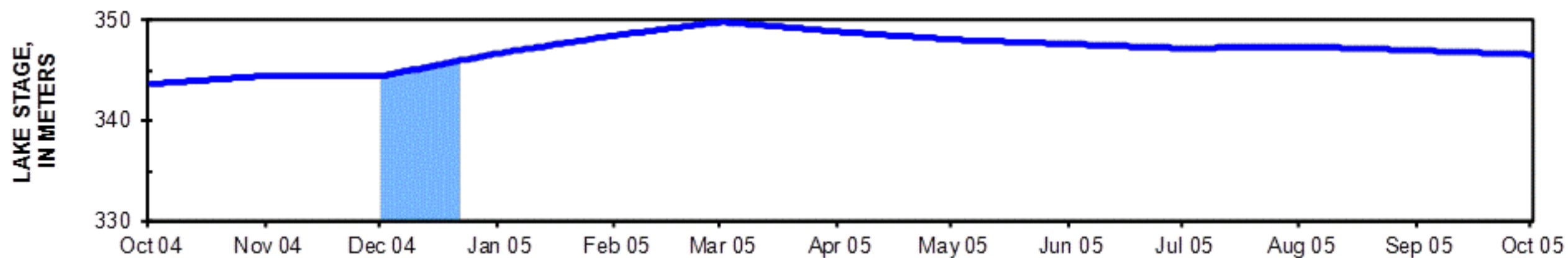
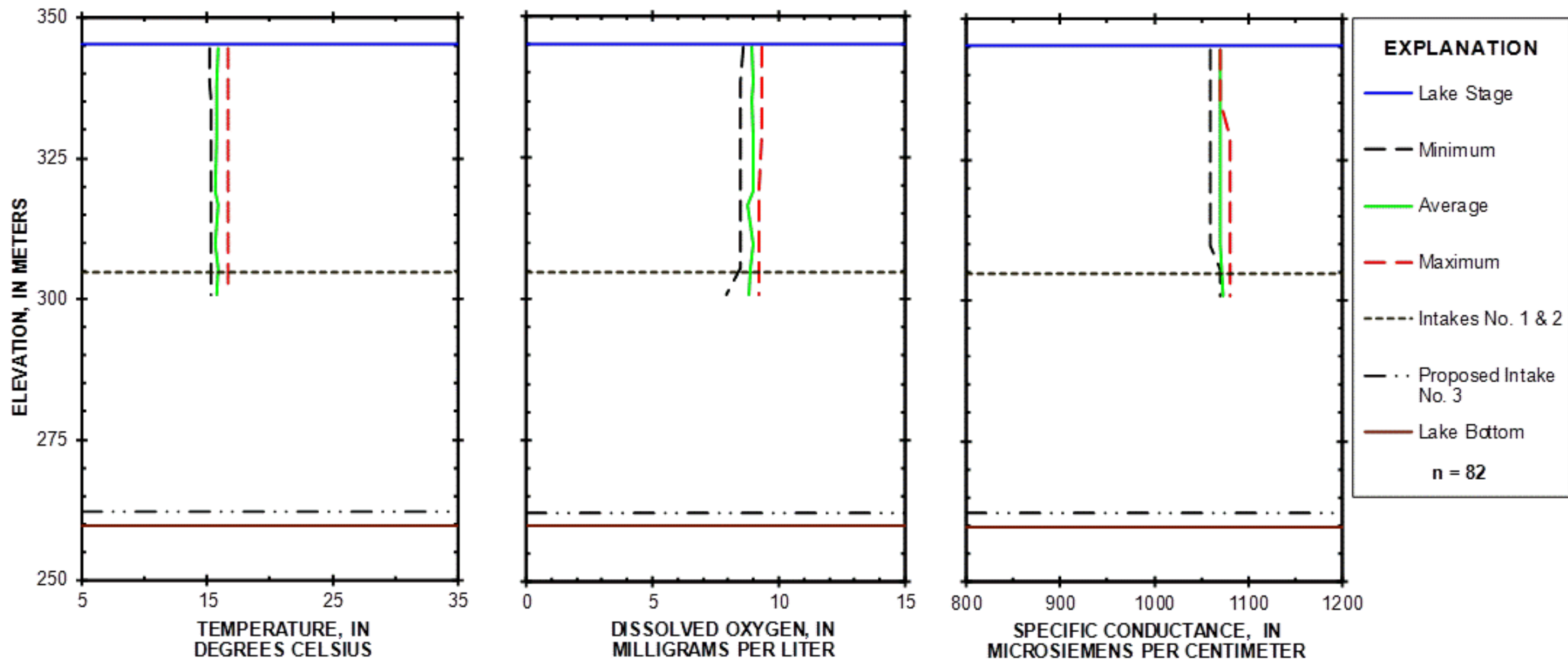
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 10-01-04 through 10-31-04



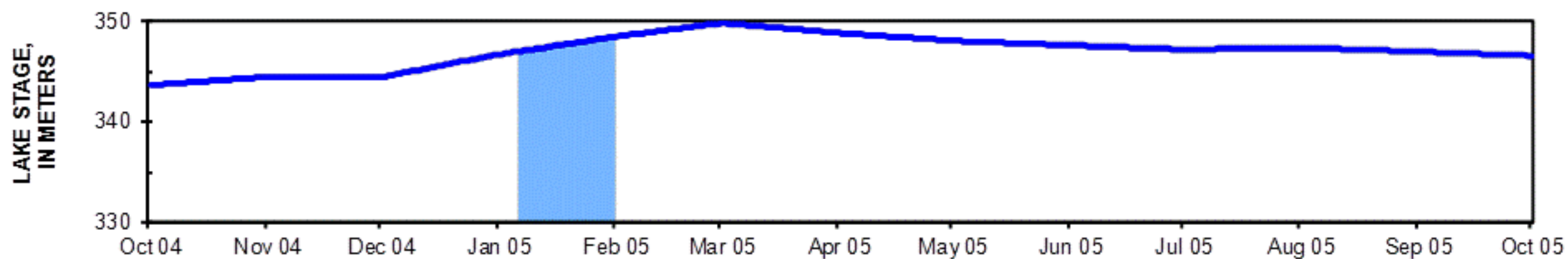
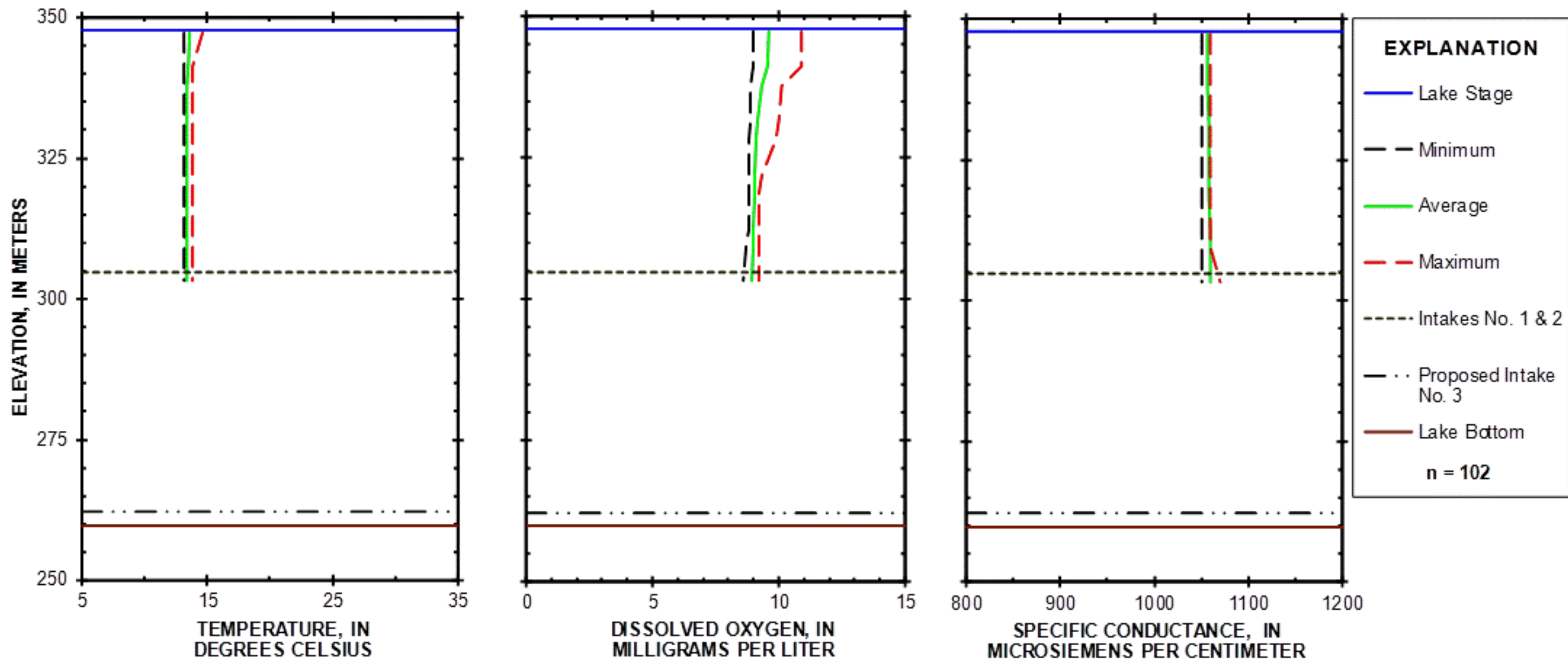
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 11-01-04 through 11-30-04



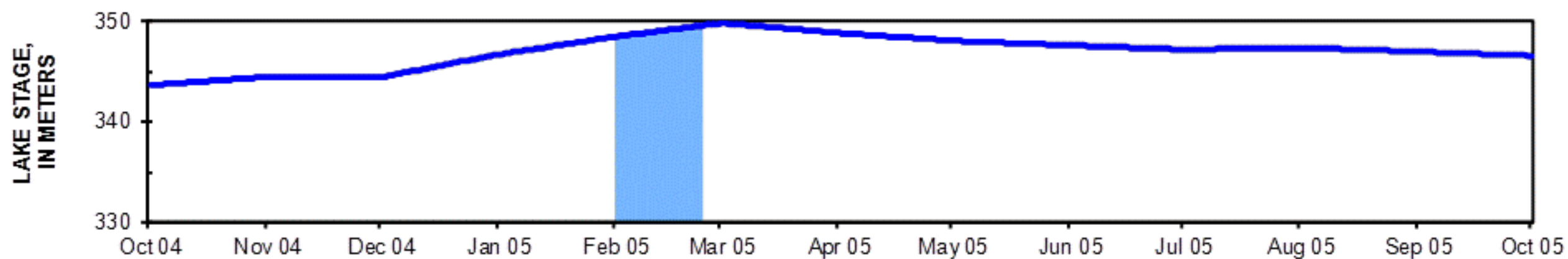
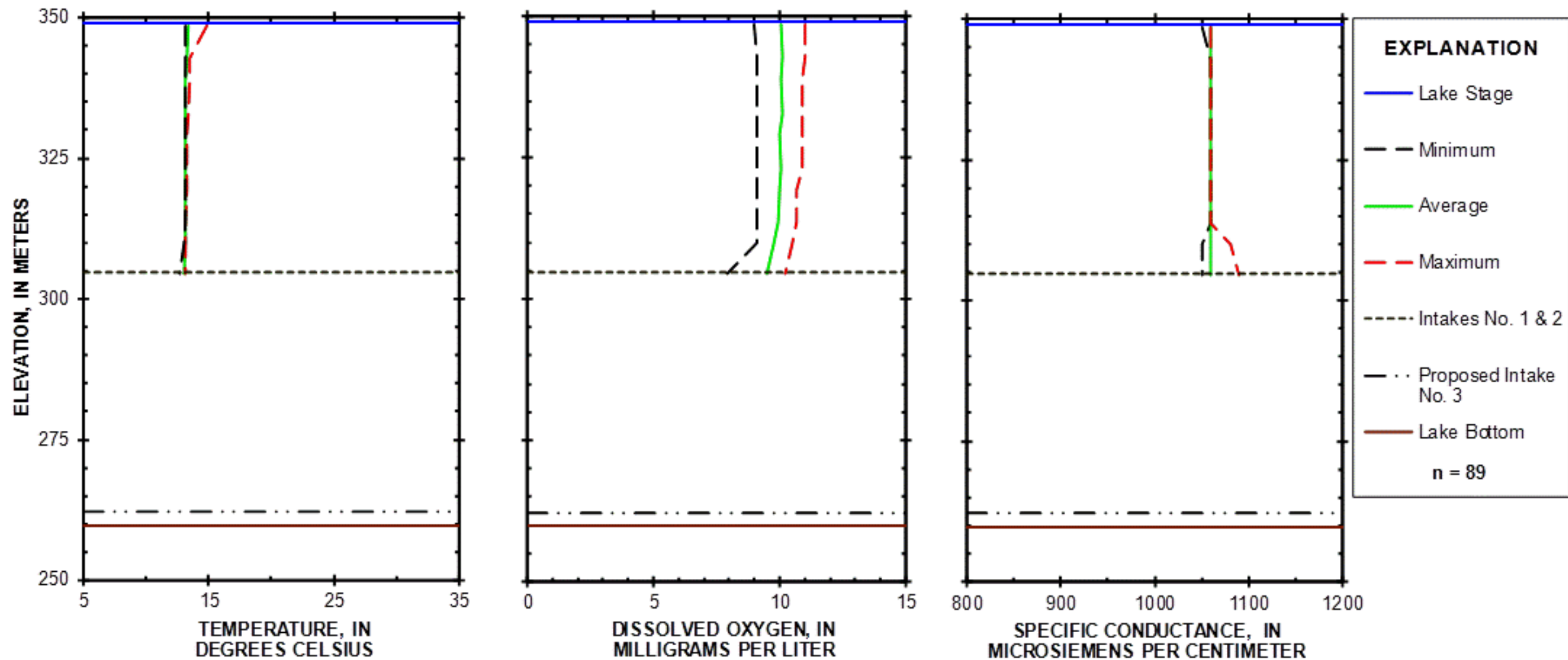
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 12-01-04 through 12-21-04



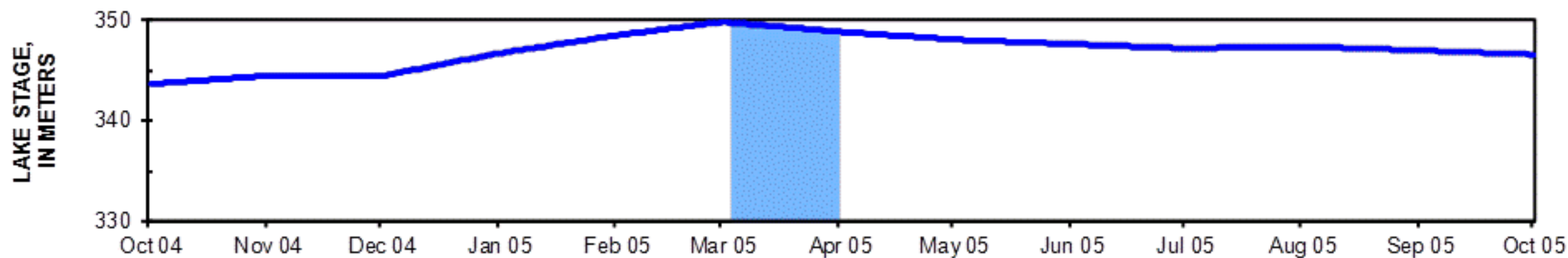
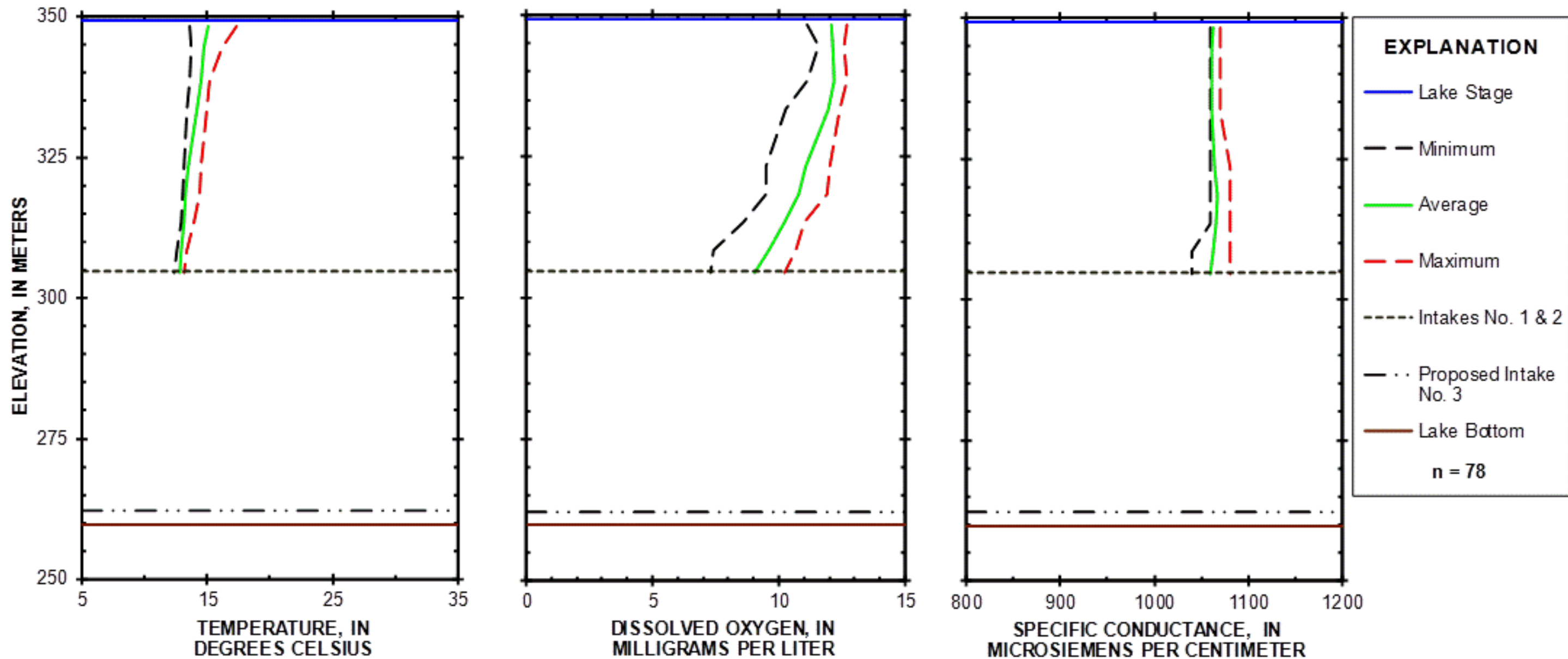
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 01-06-05 through 01-31-05



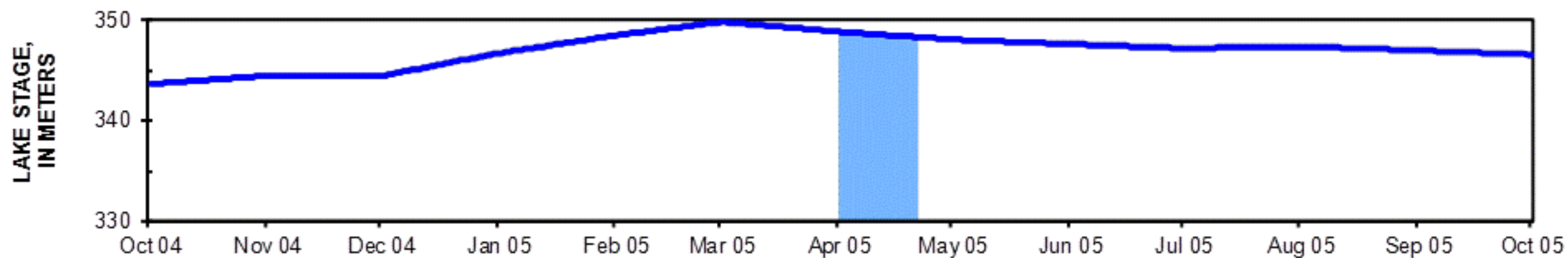
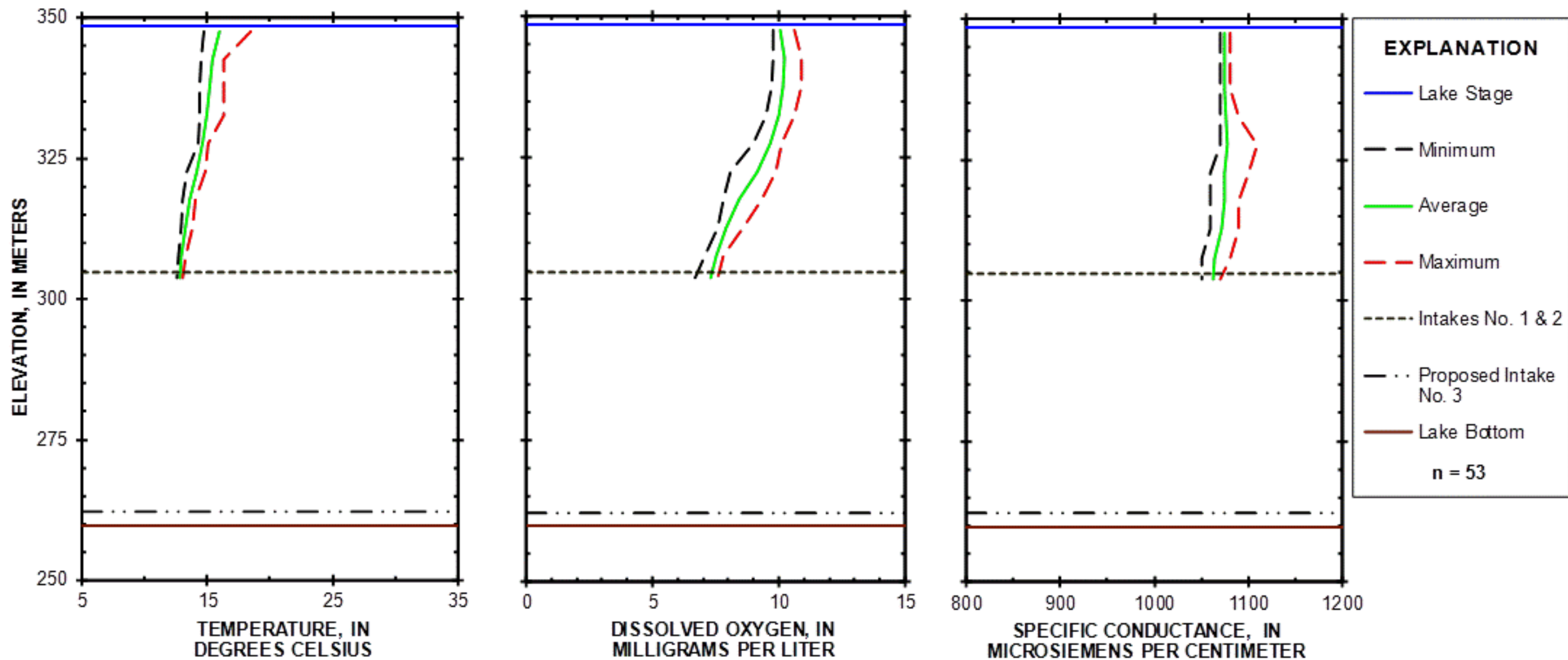
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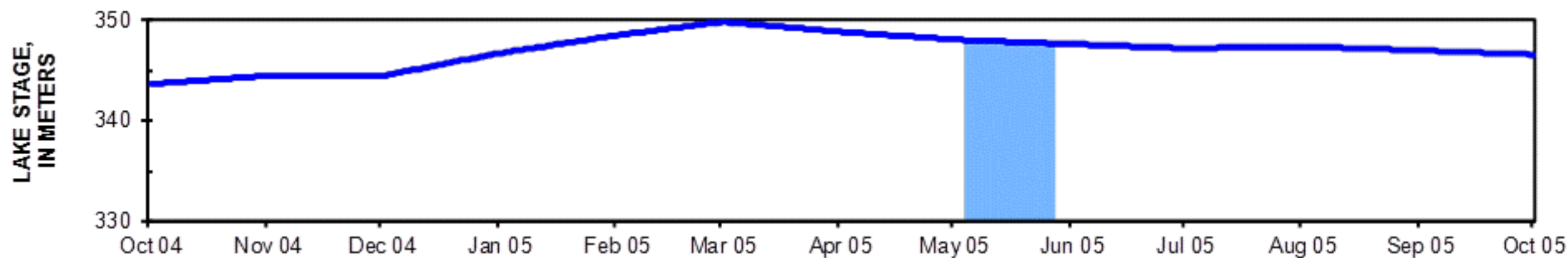
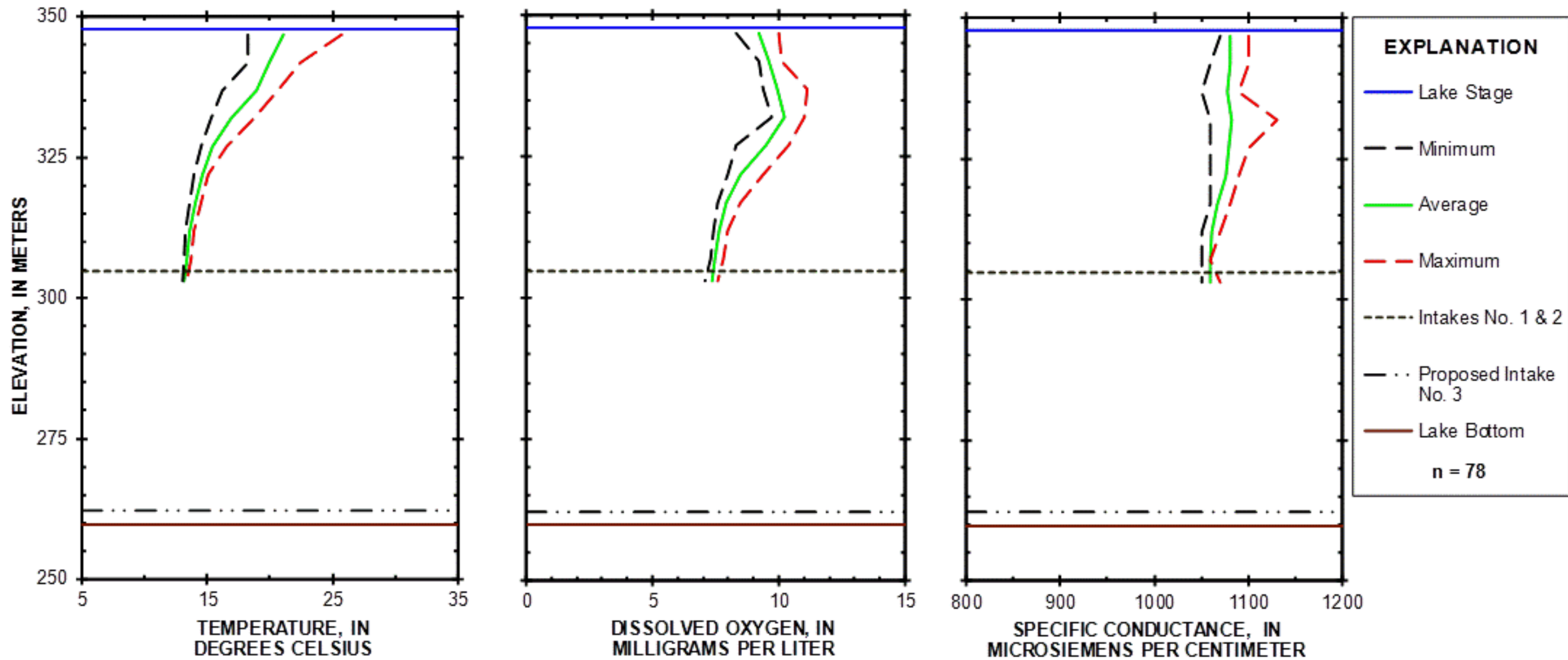
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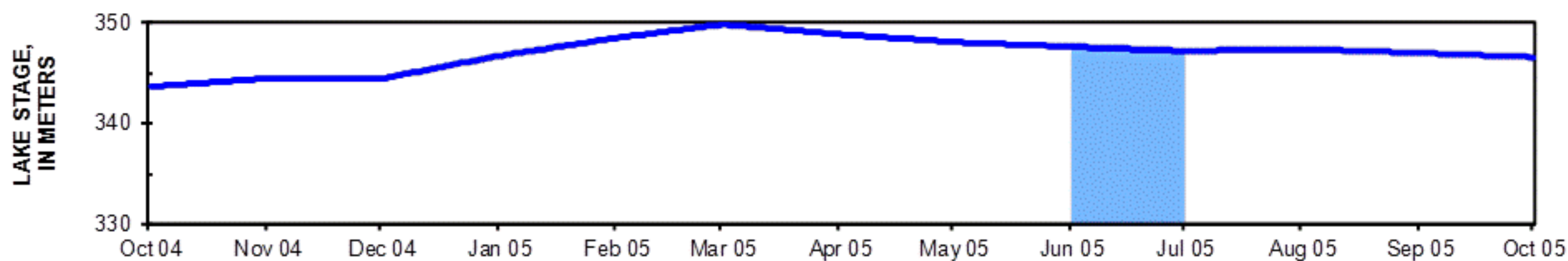
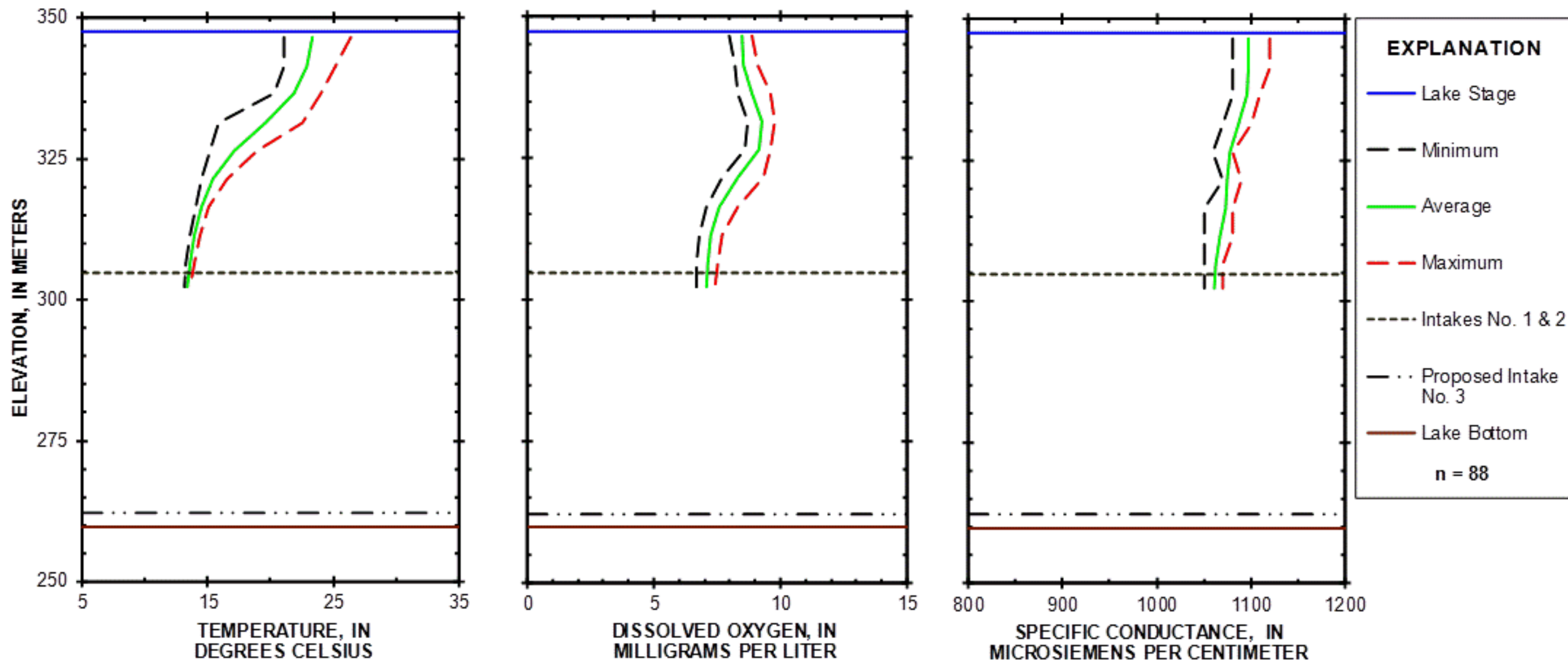
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 04-01-05 through 04-21-05



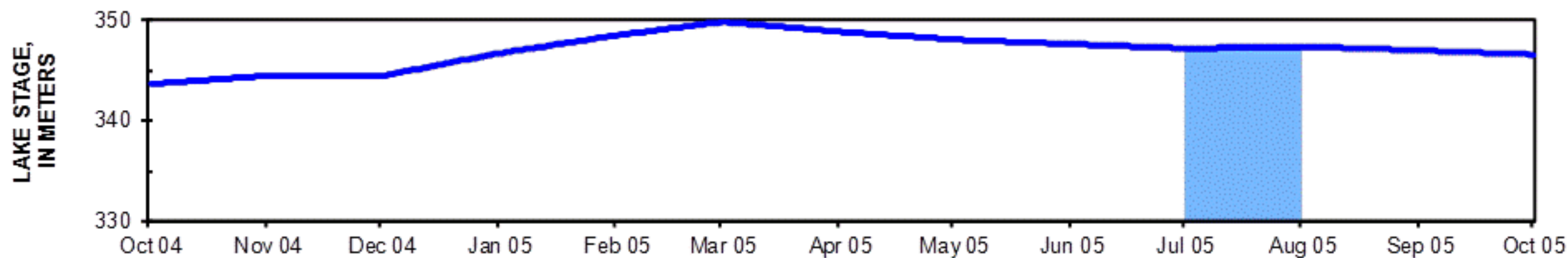
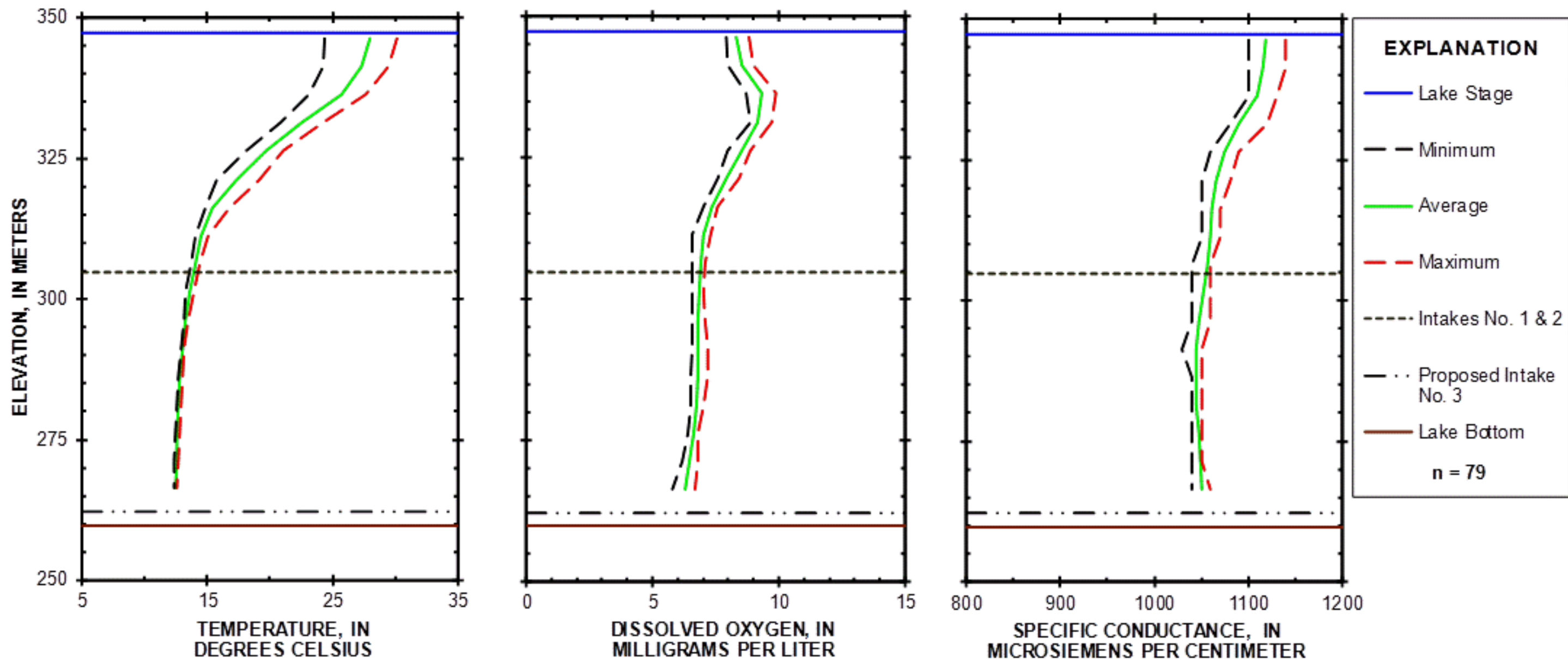
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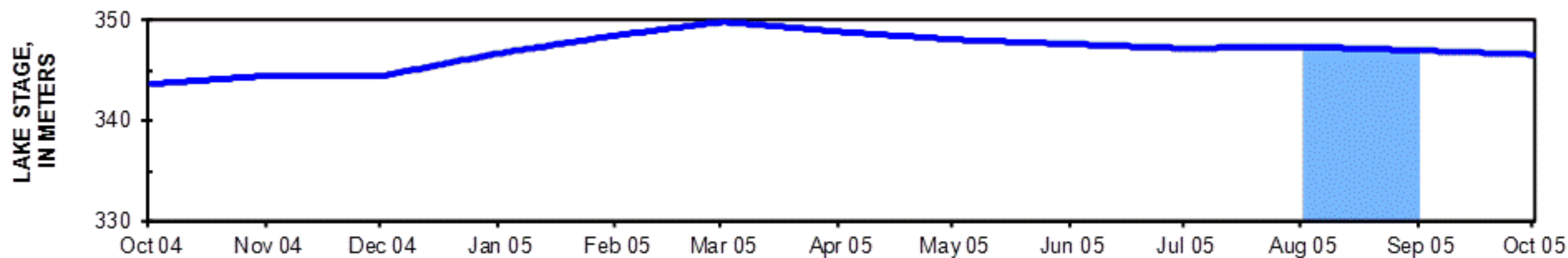
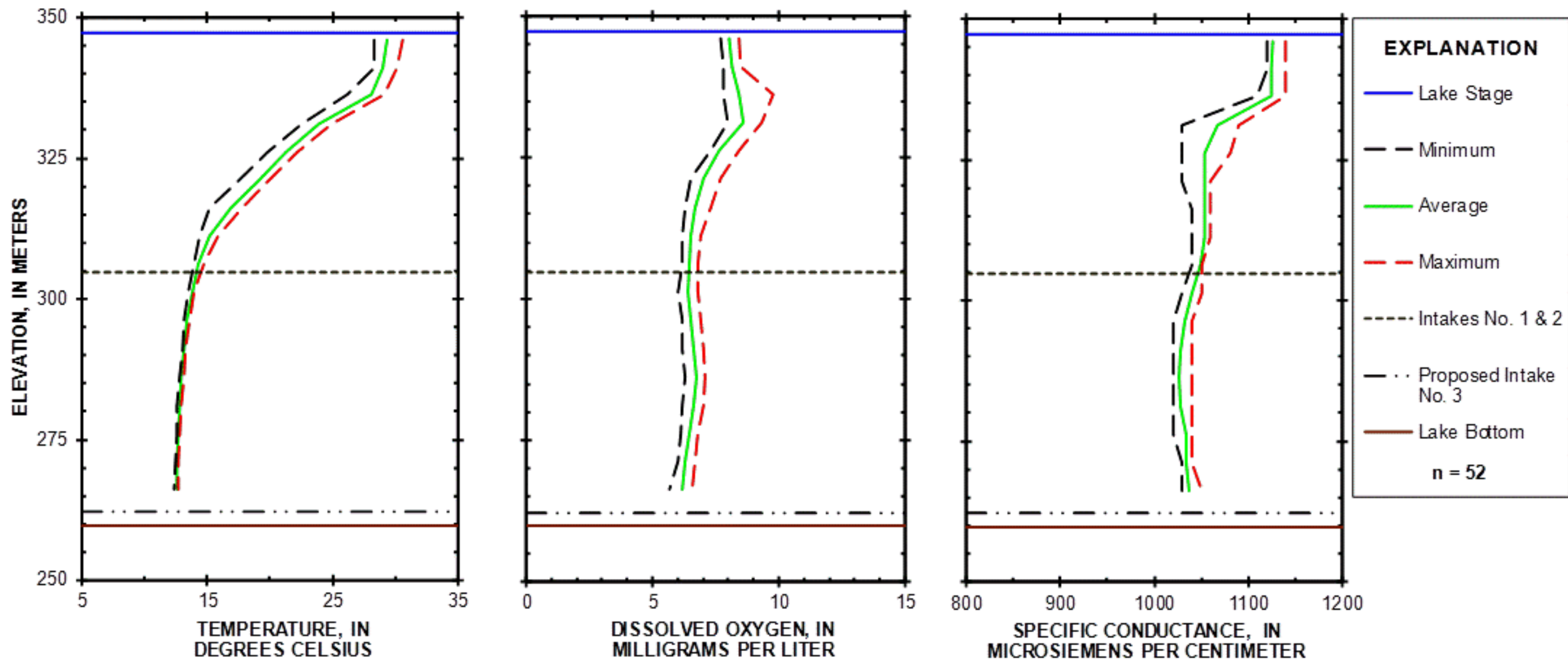
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 06-01-05 through 06-30-05



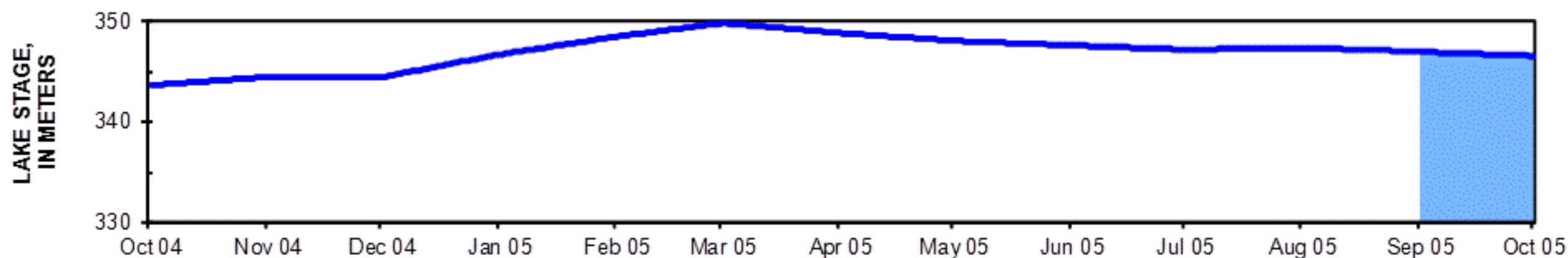
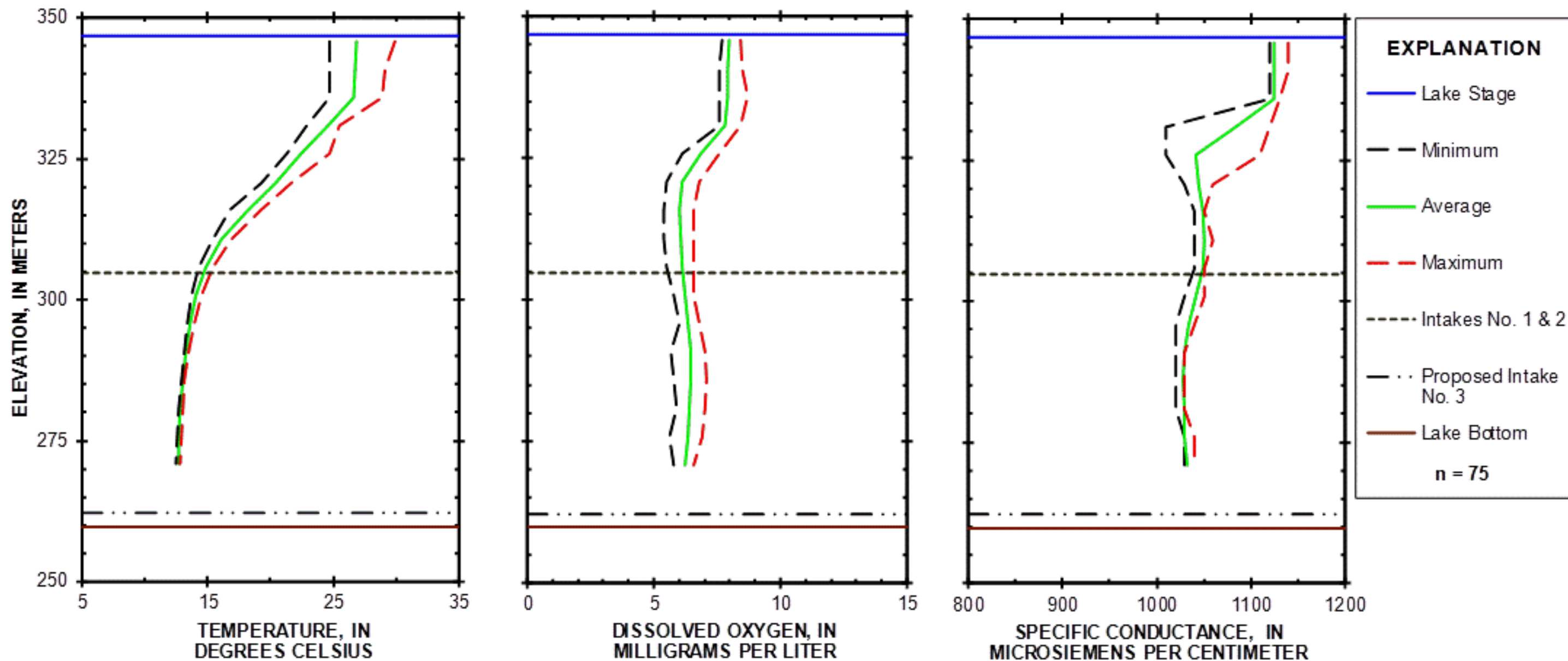
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 07-01-05 through 07-31-05



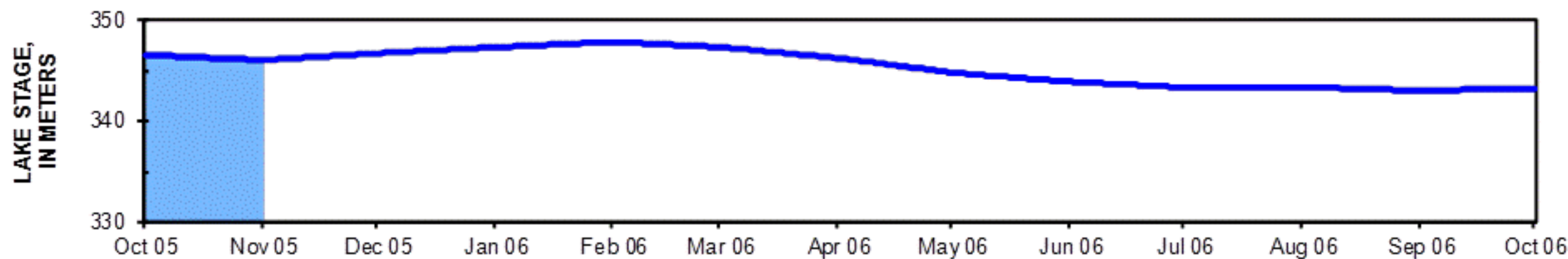
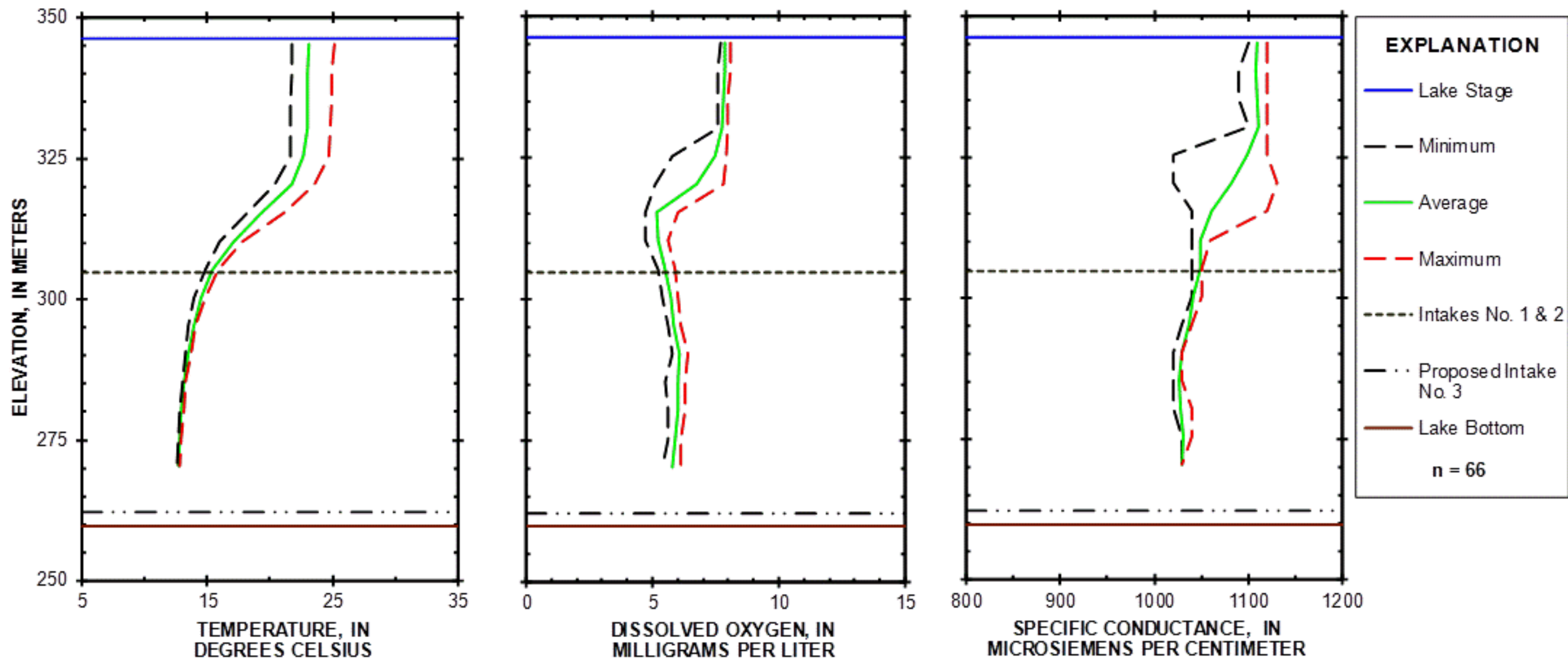
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 08-01-05 through 08-31-05



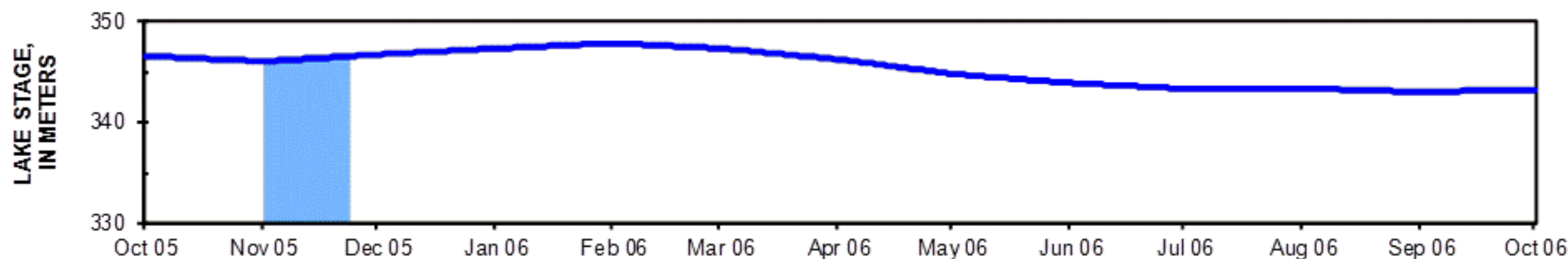
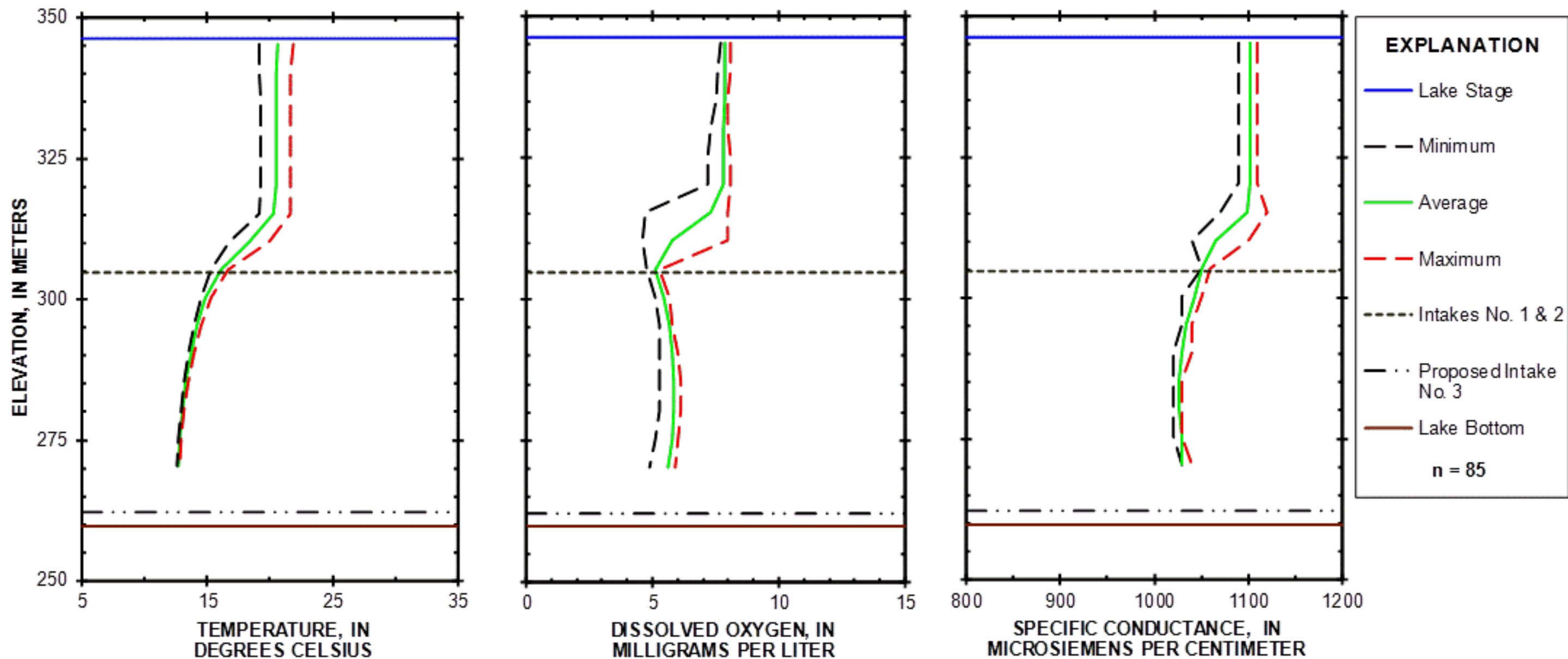
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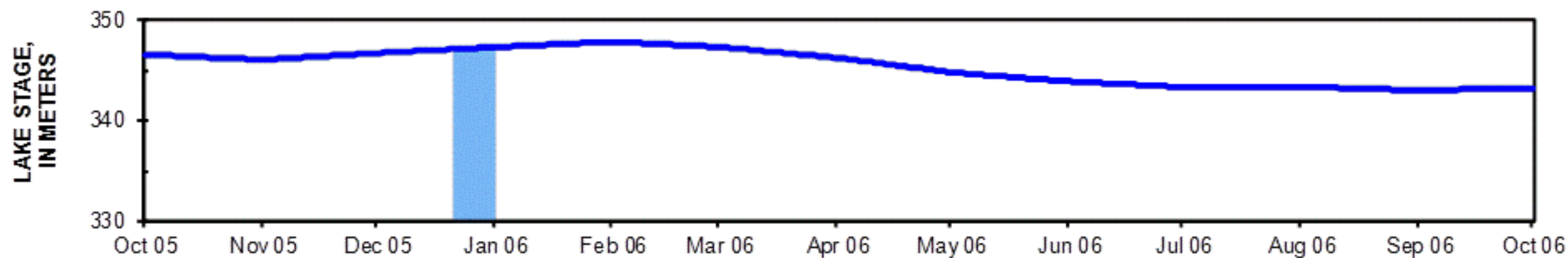
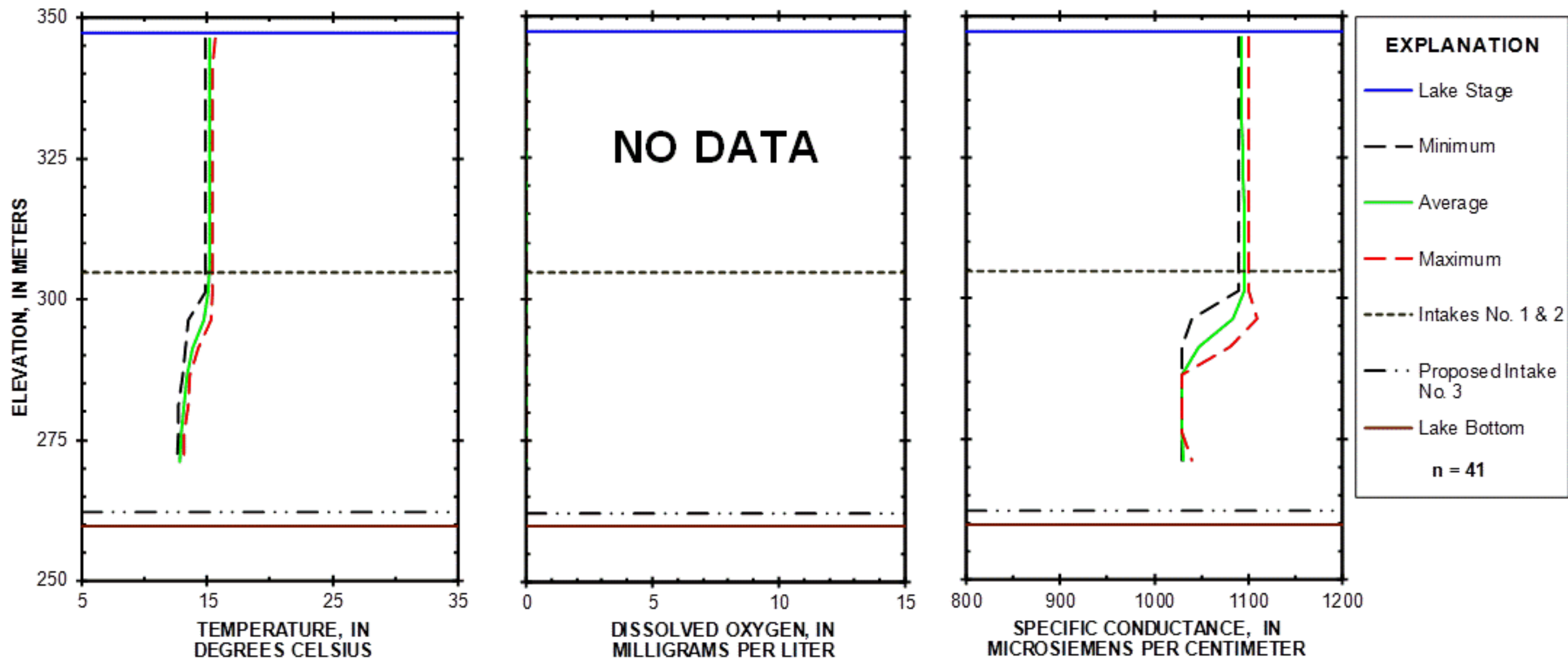
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 10-01-05 through 10-31-05



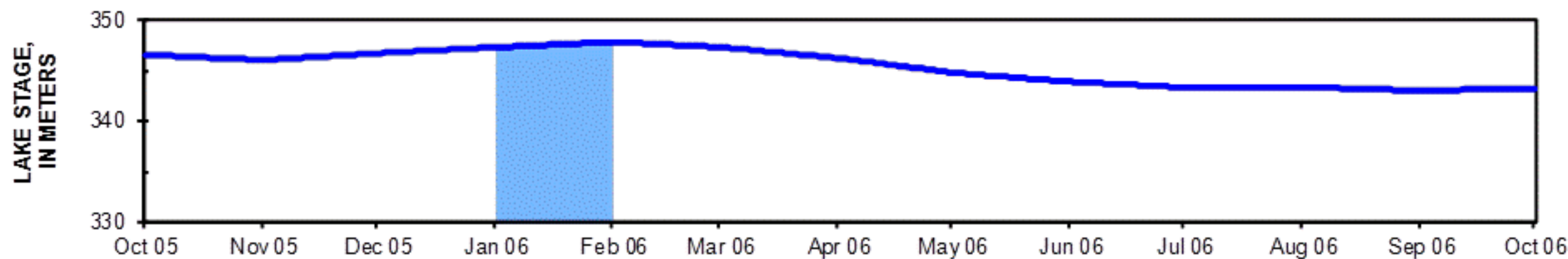
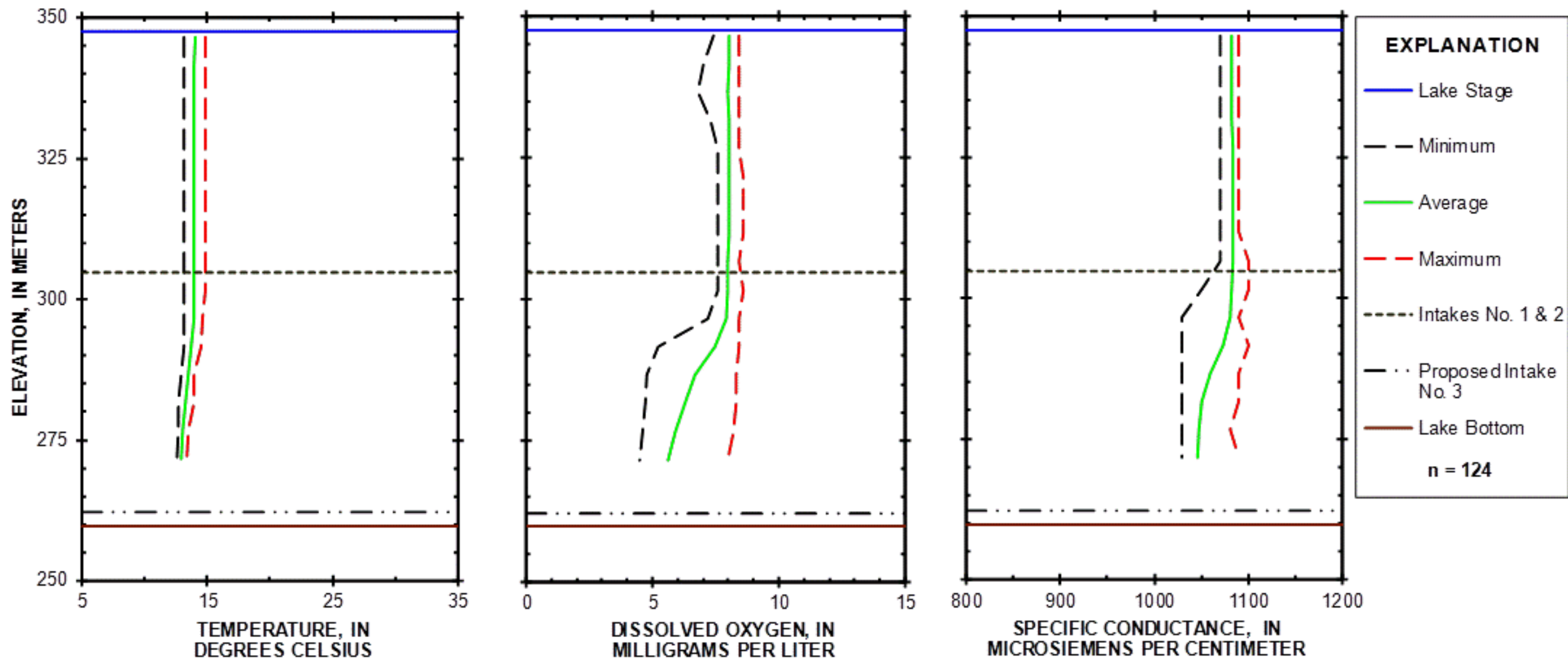
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 11-01-05 through 11-23-05



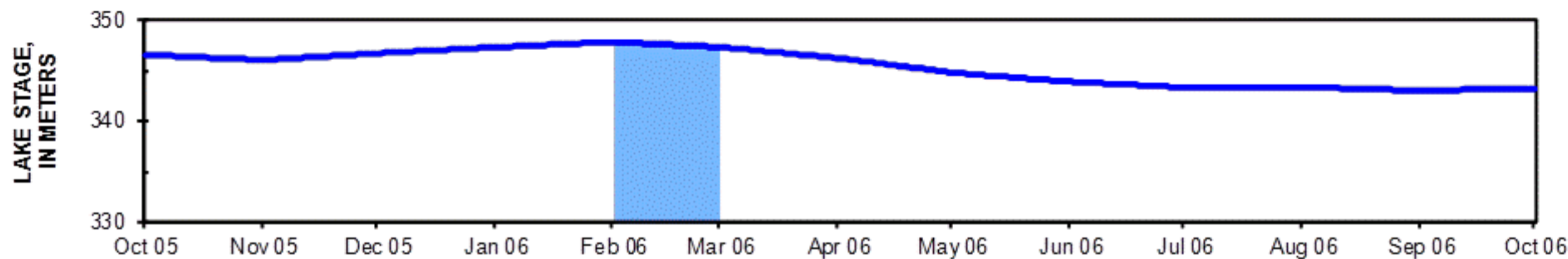
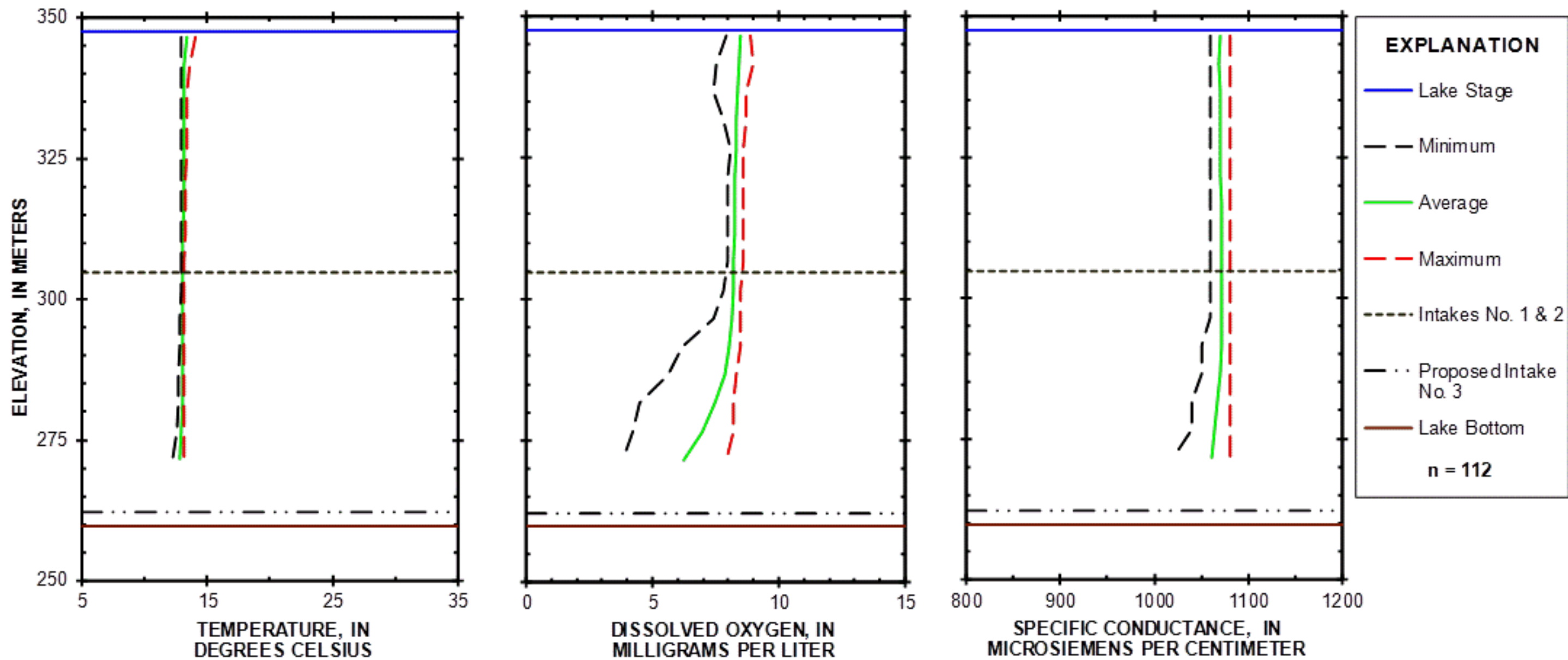
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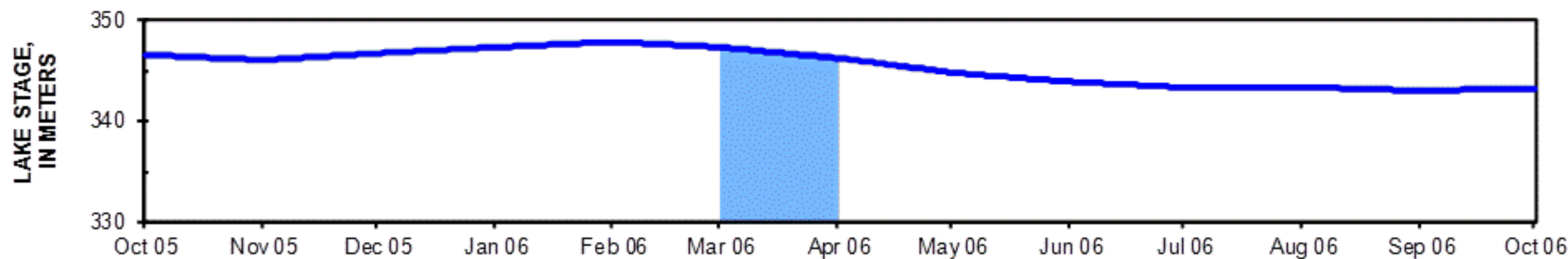
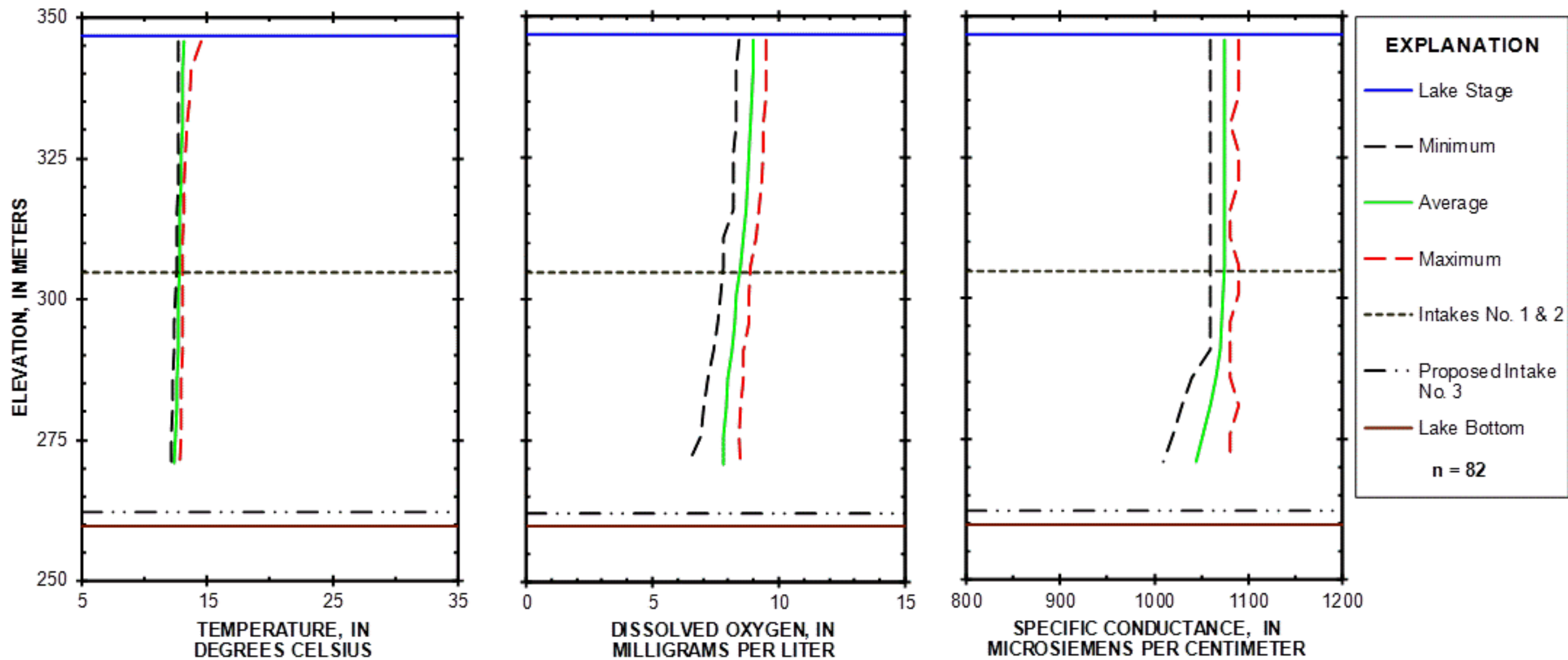
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 01-01-06 through 01-31-06



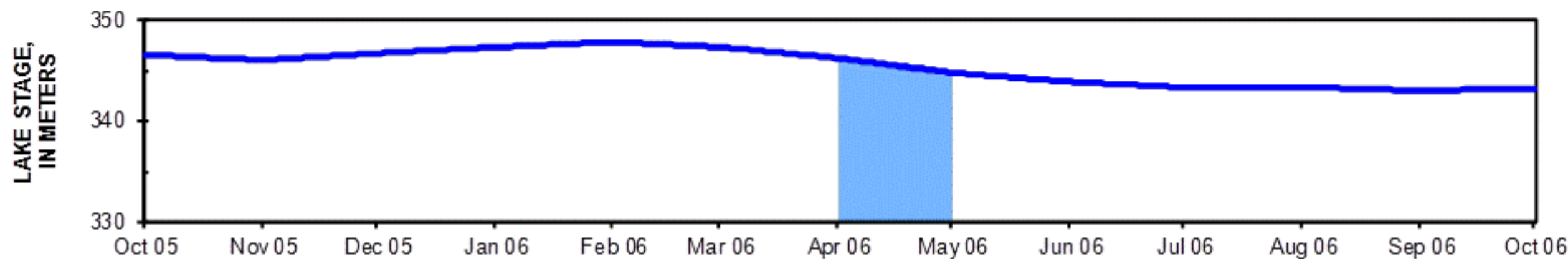
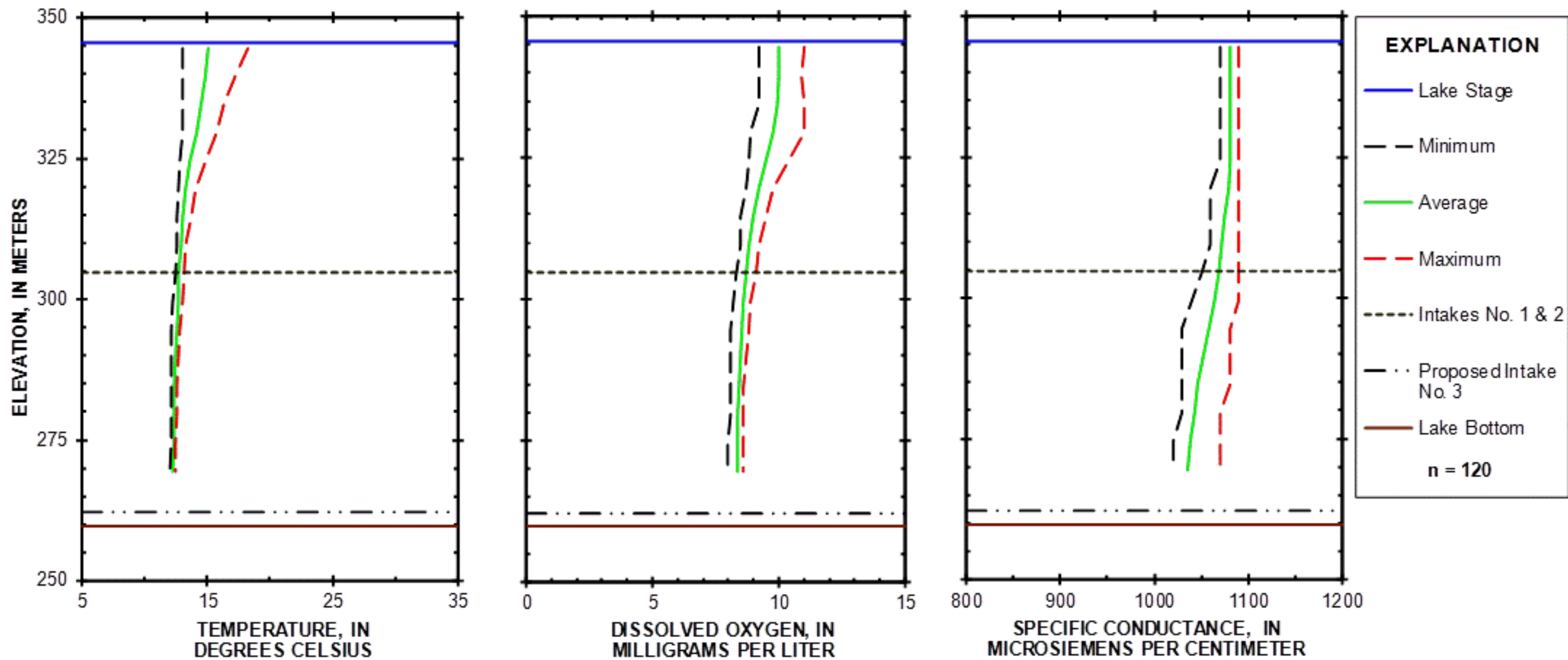
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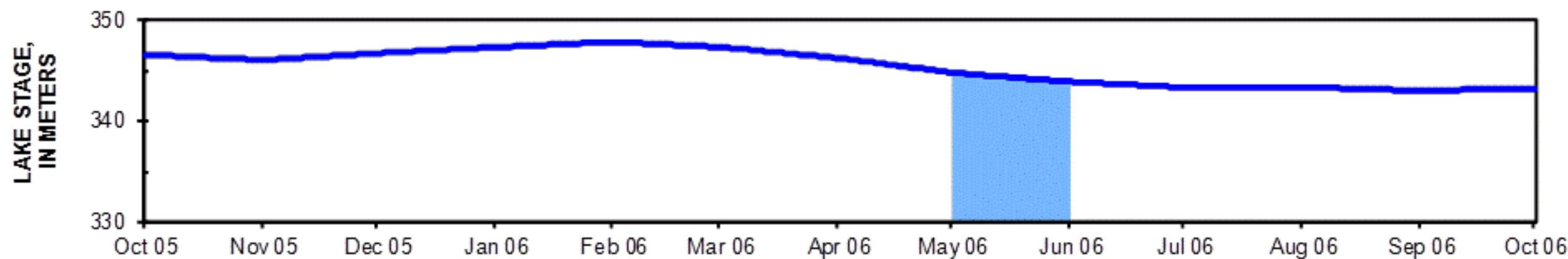
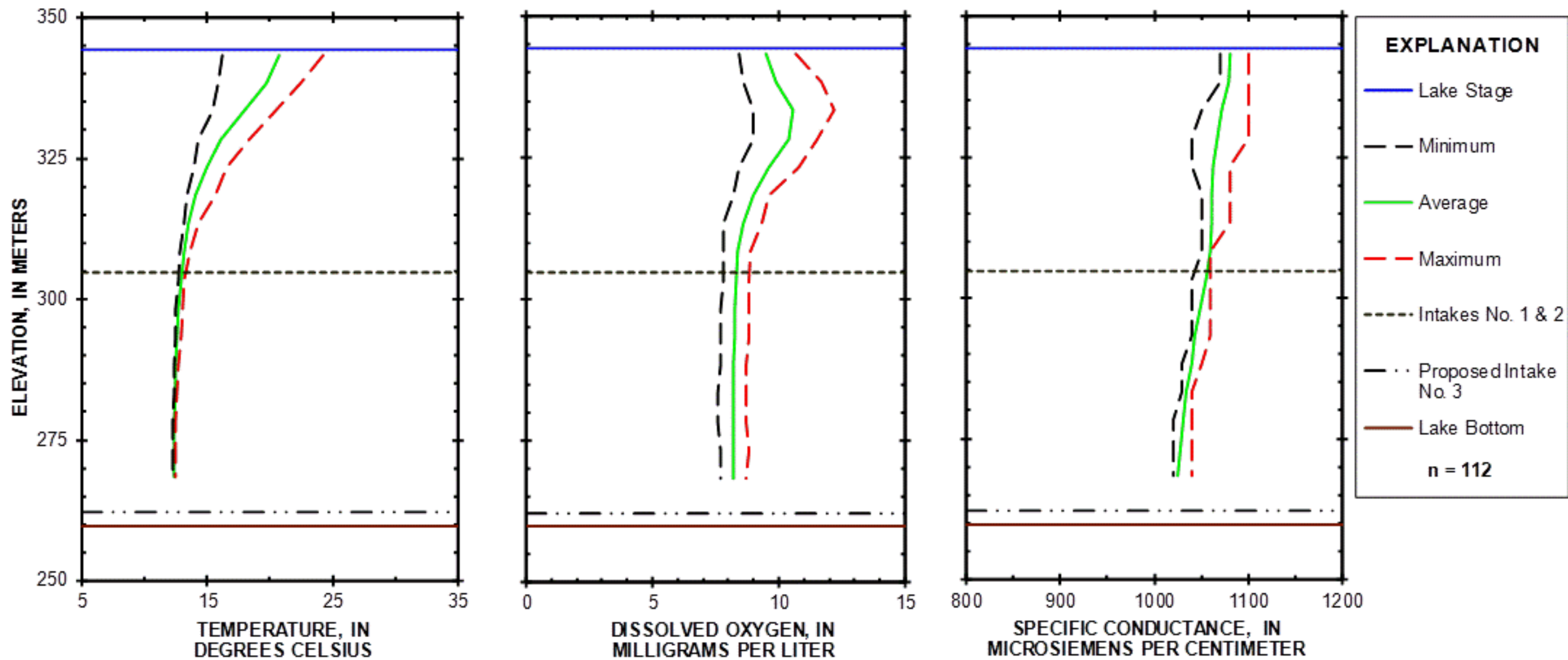
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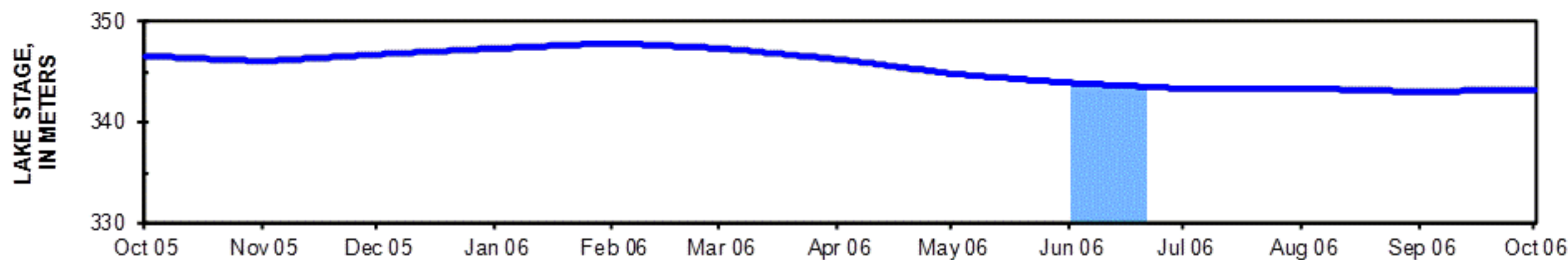
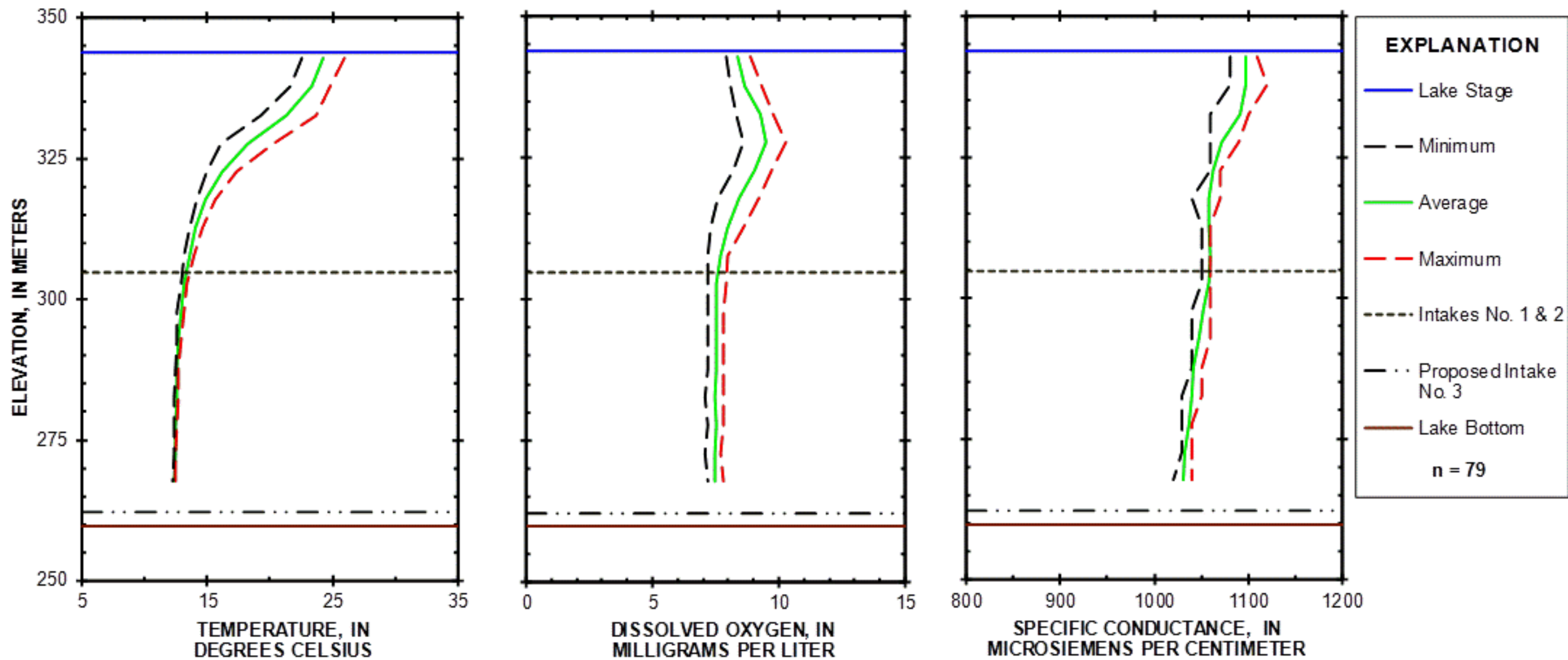
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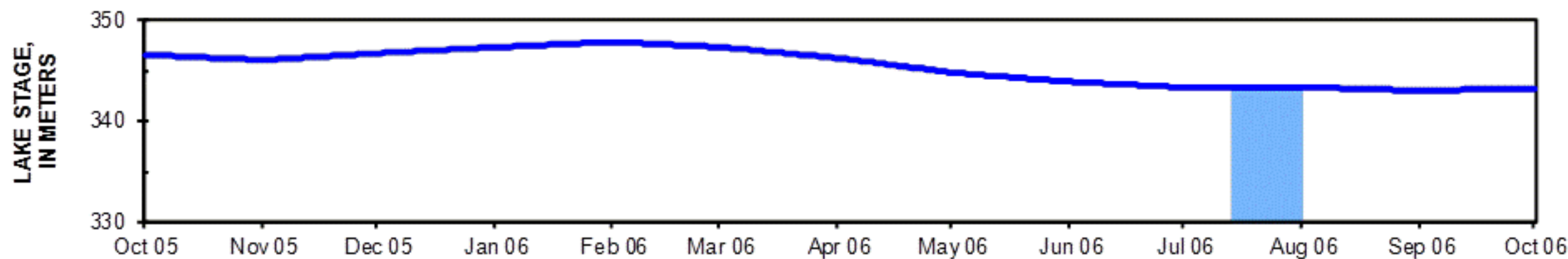
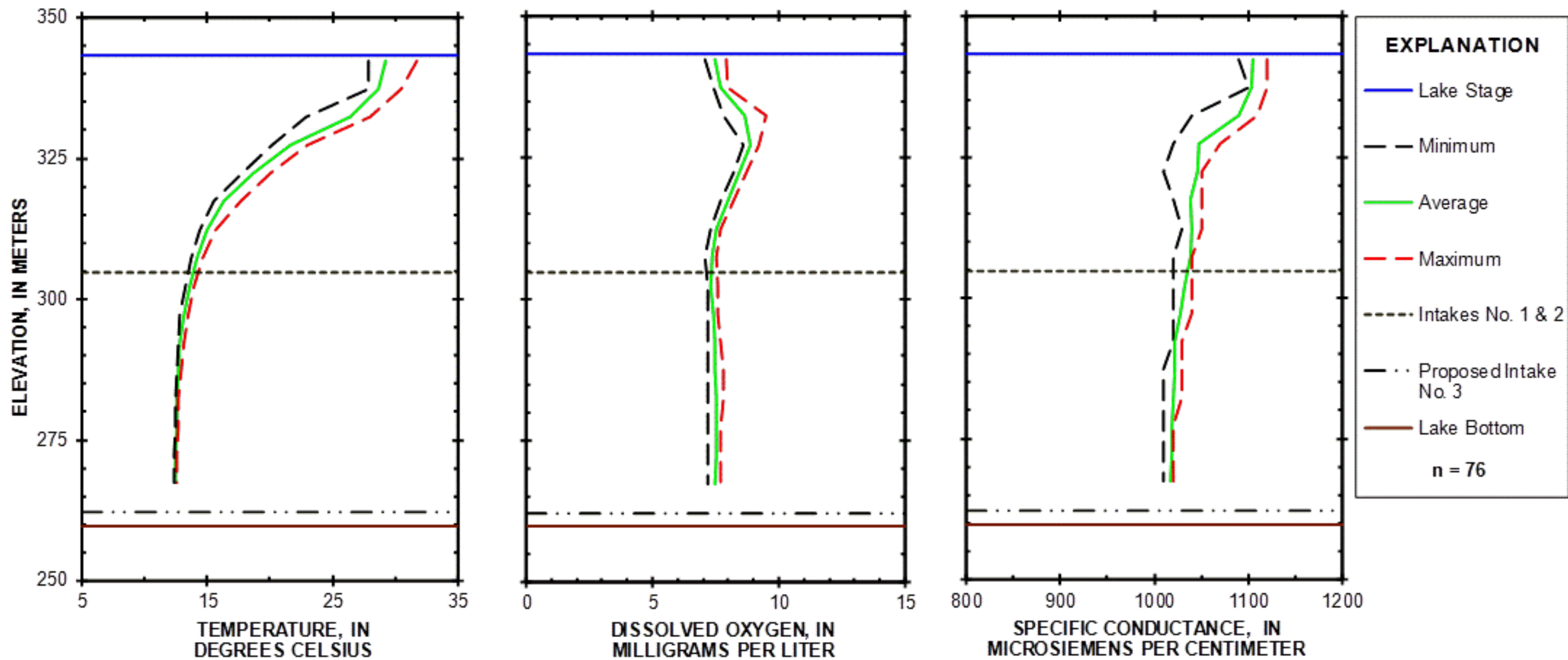
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 05-01-06 through 05-31-06



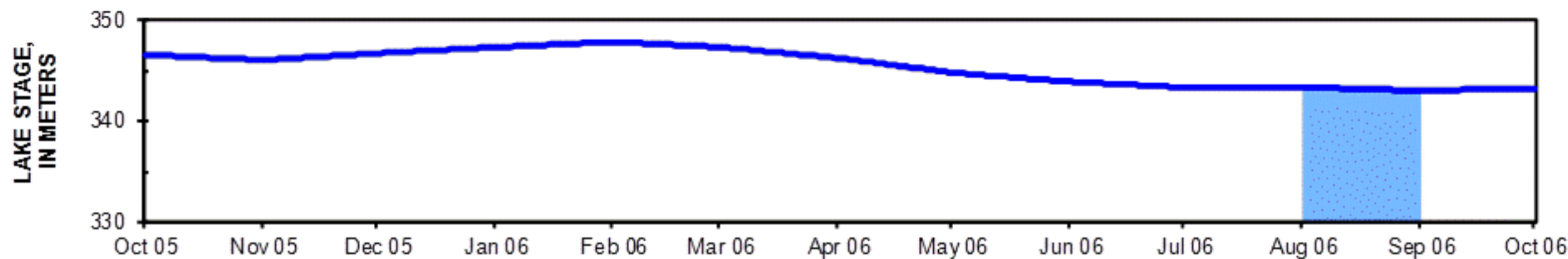
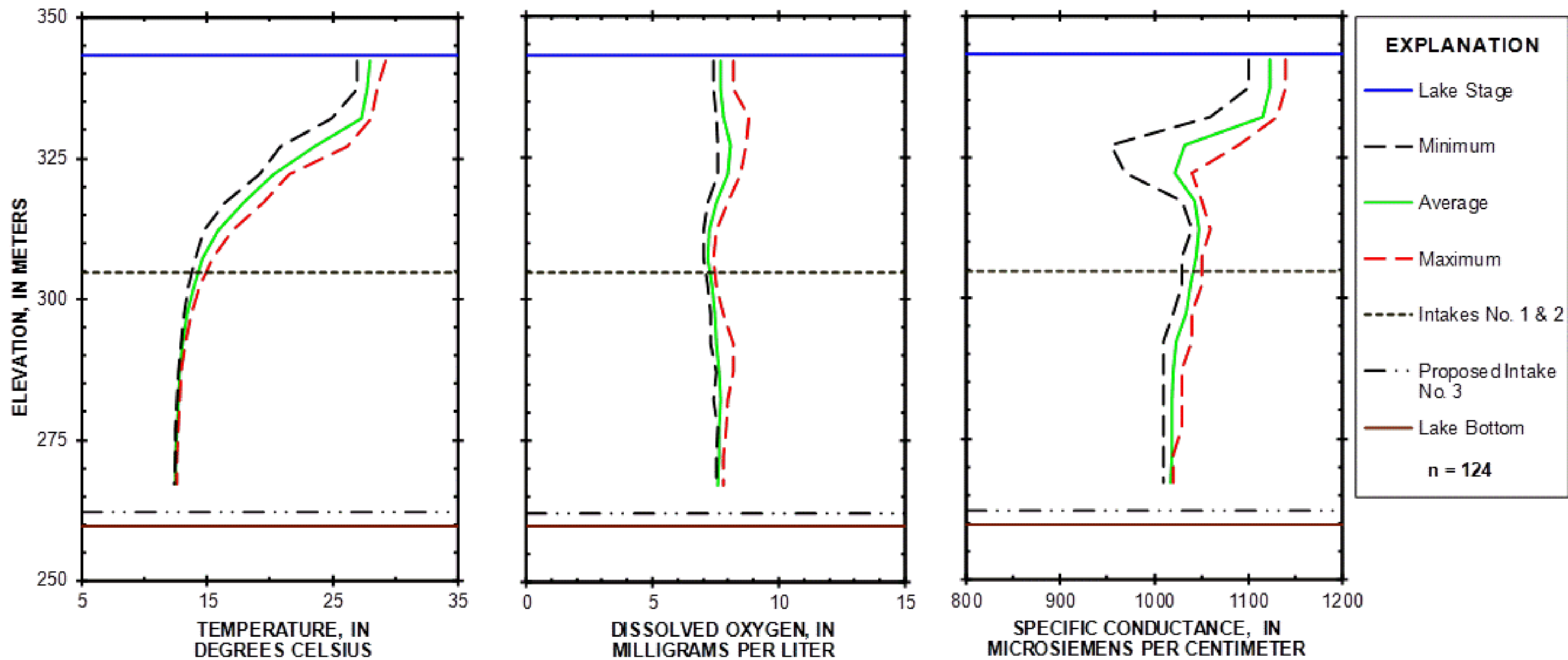
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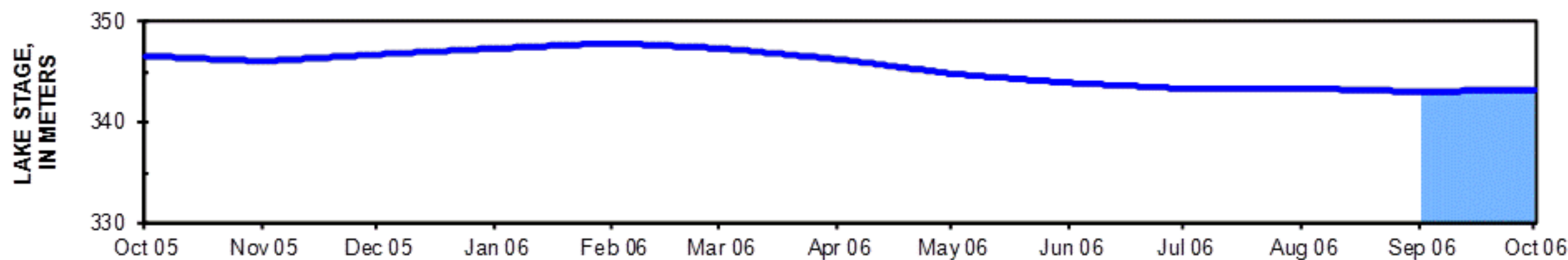
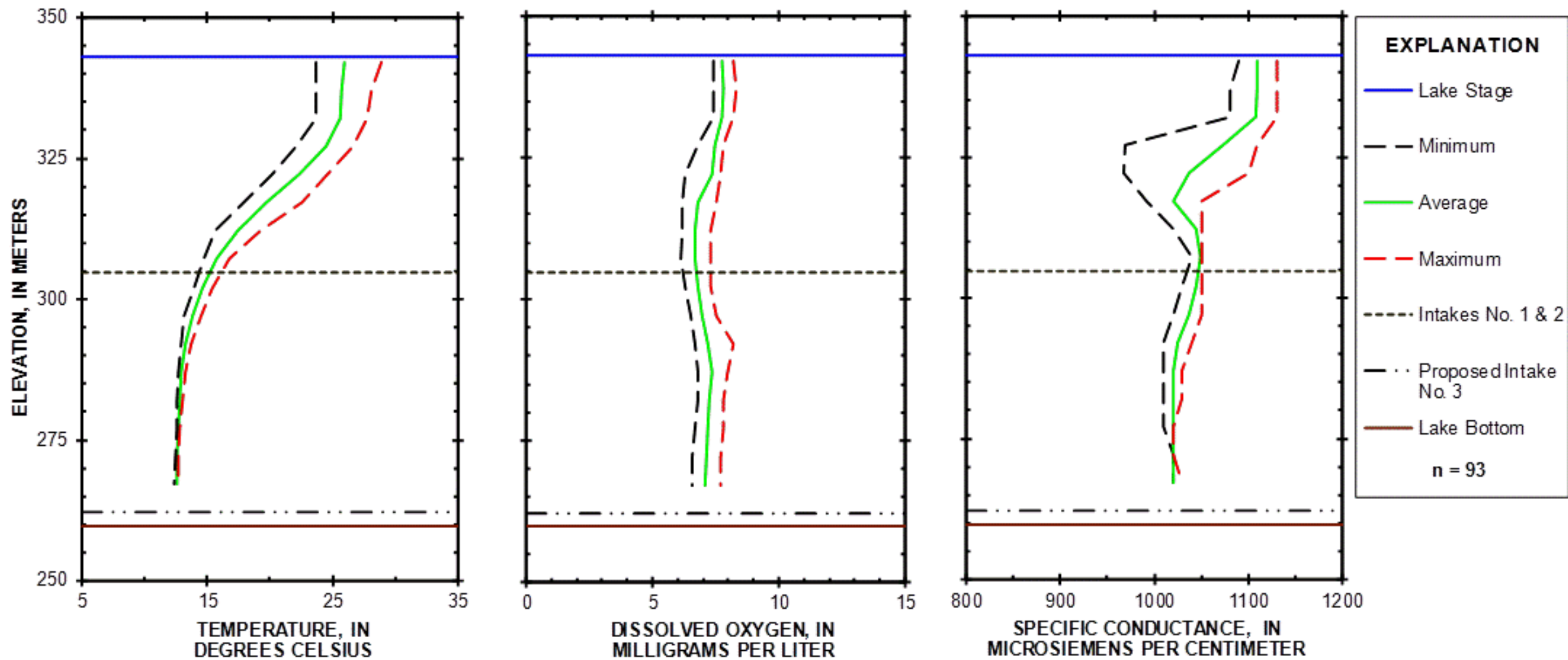
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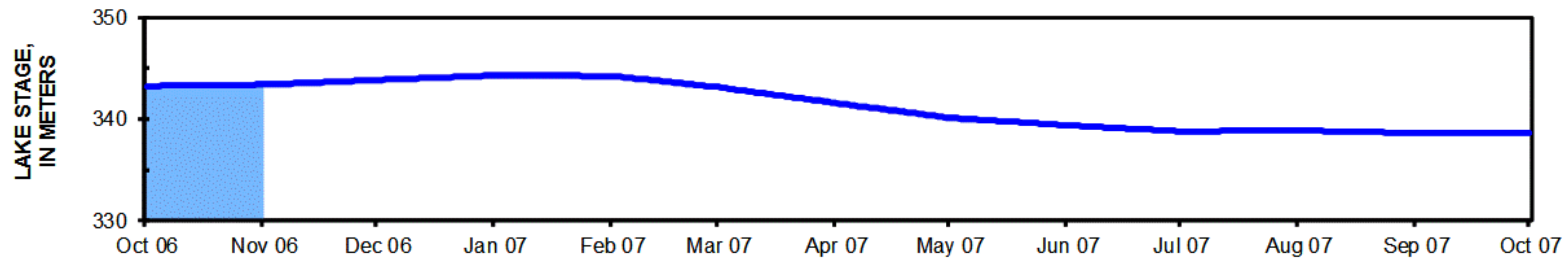
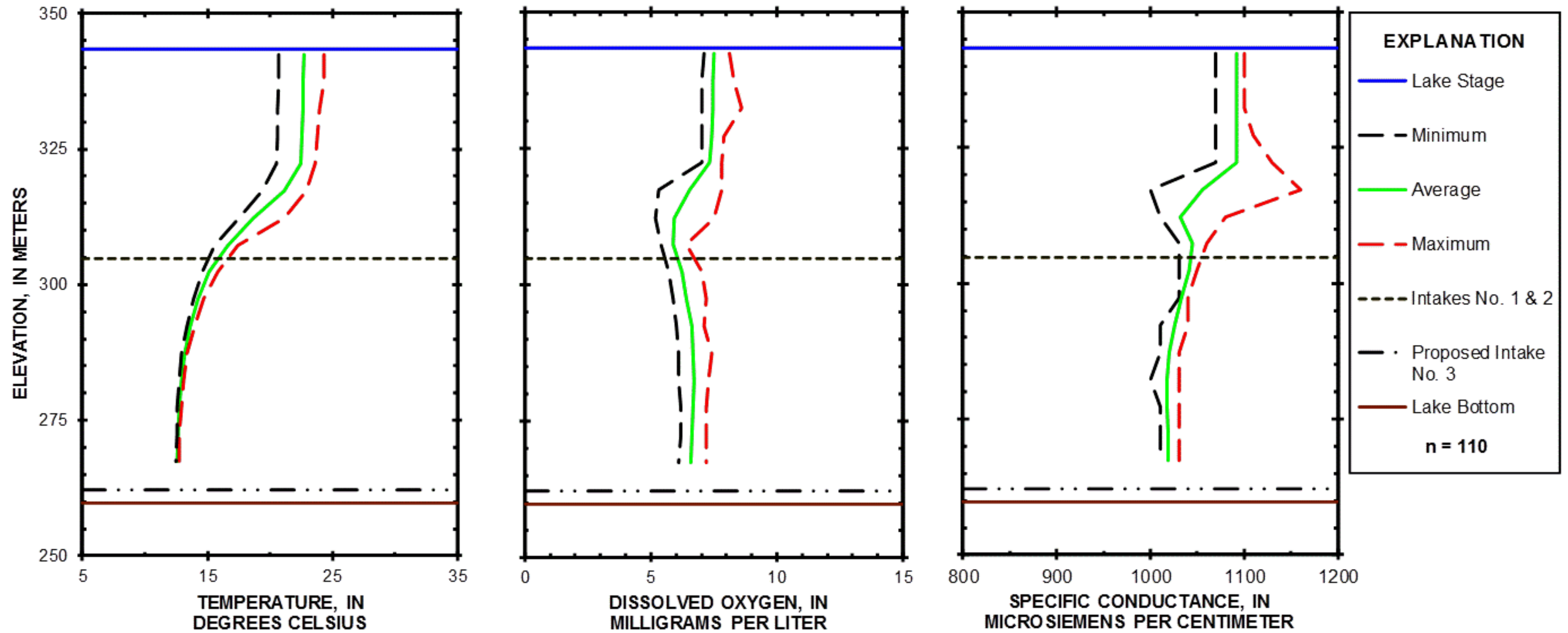
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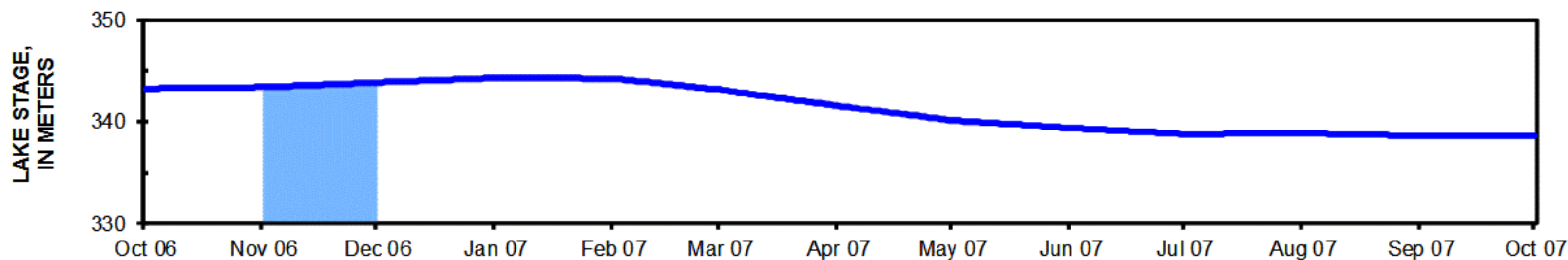
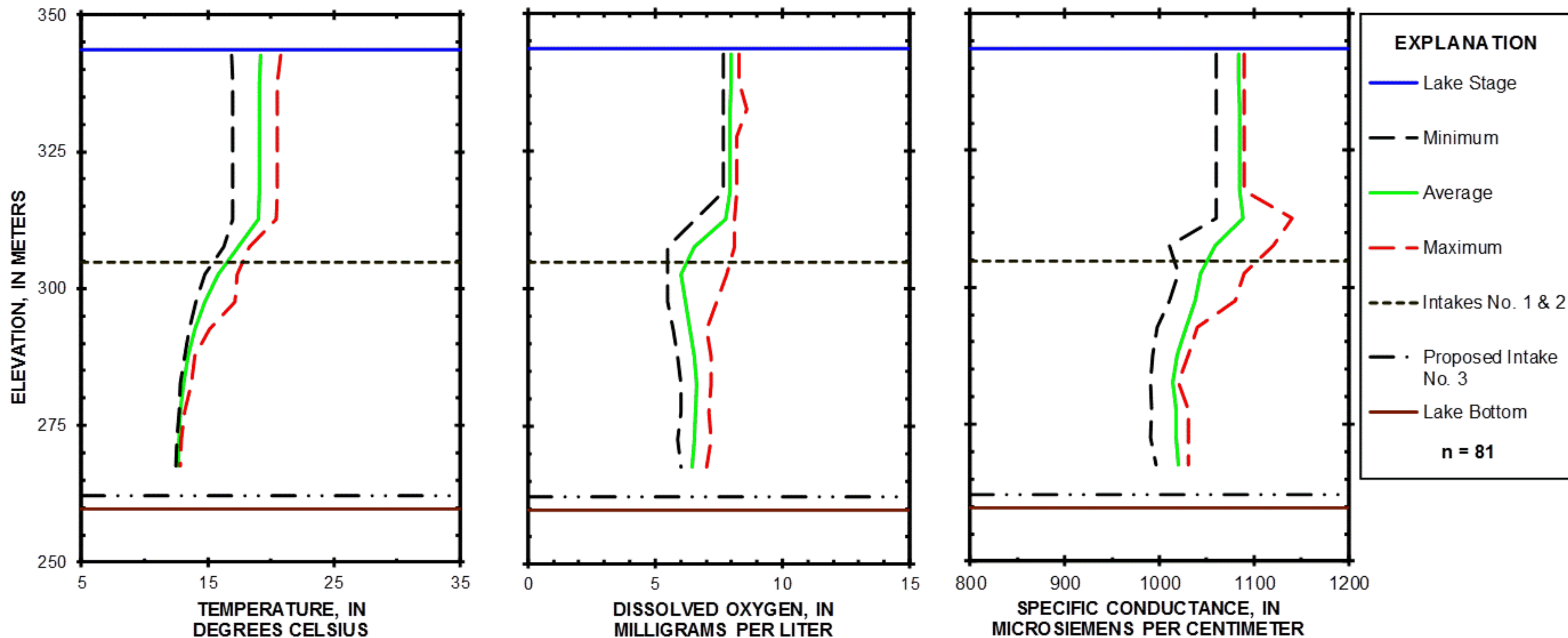
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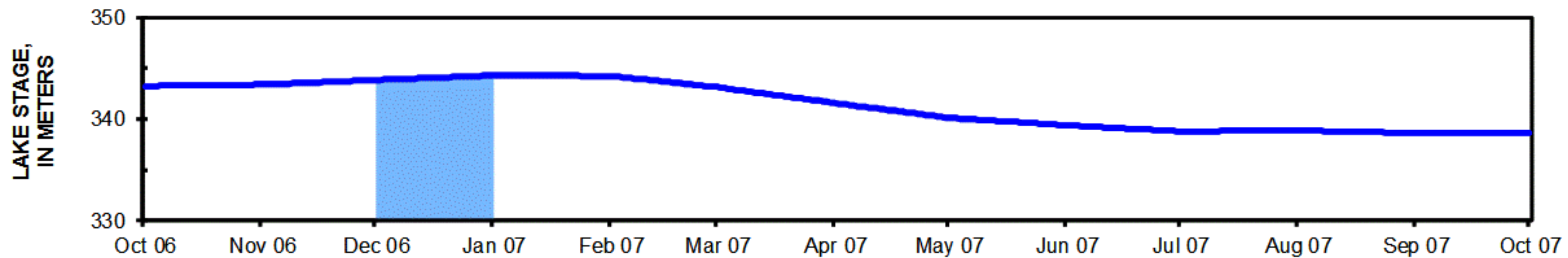
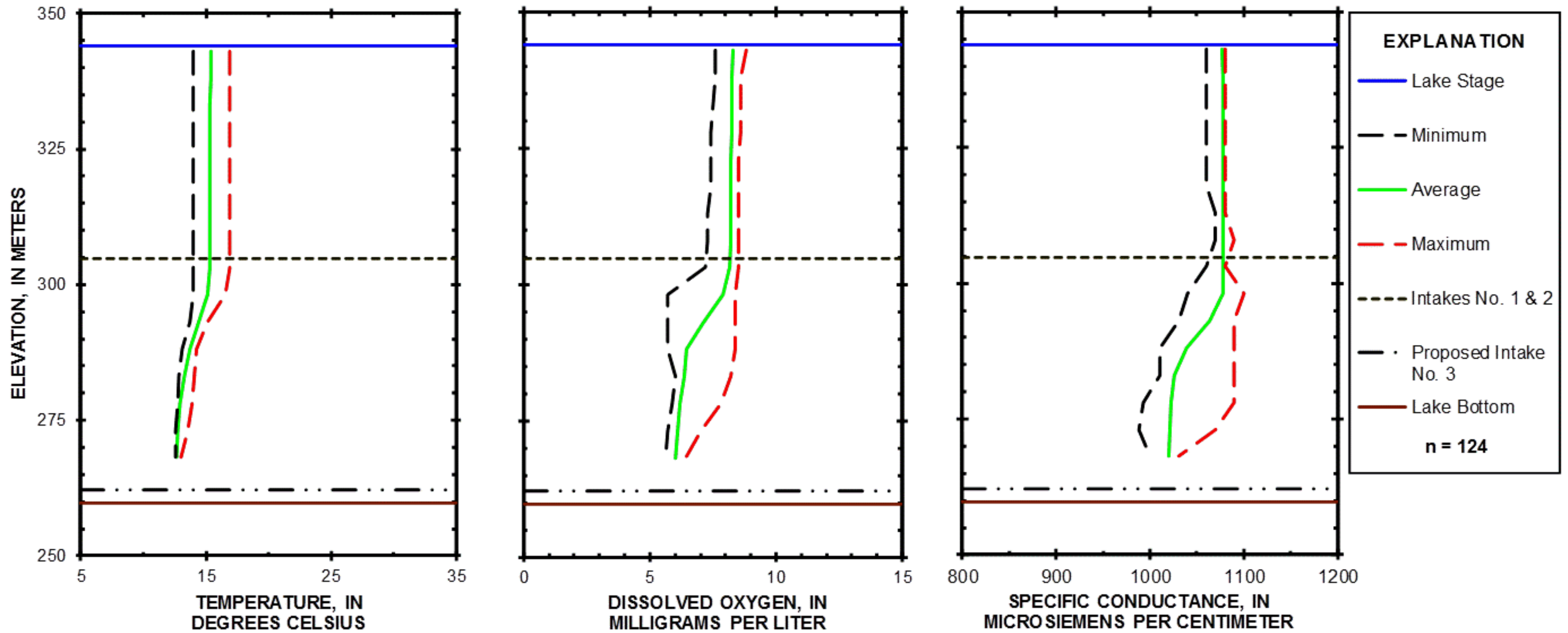
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 10-01-06 through 10-31-06



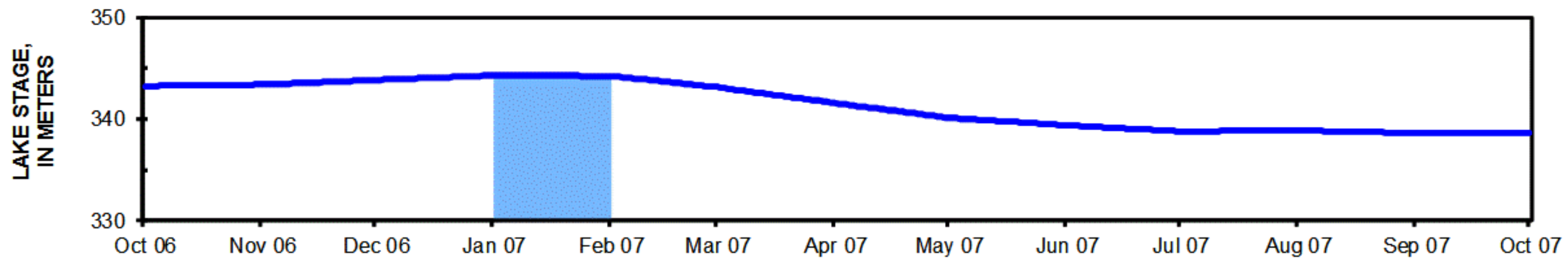
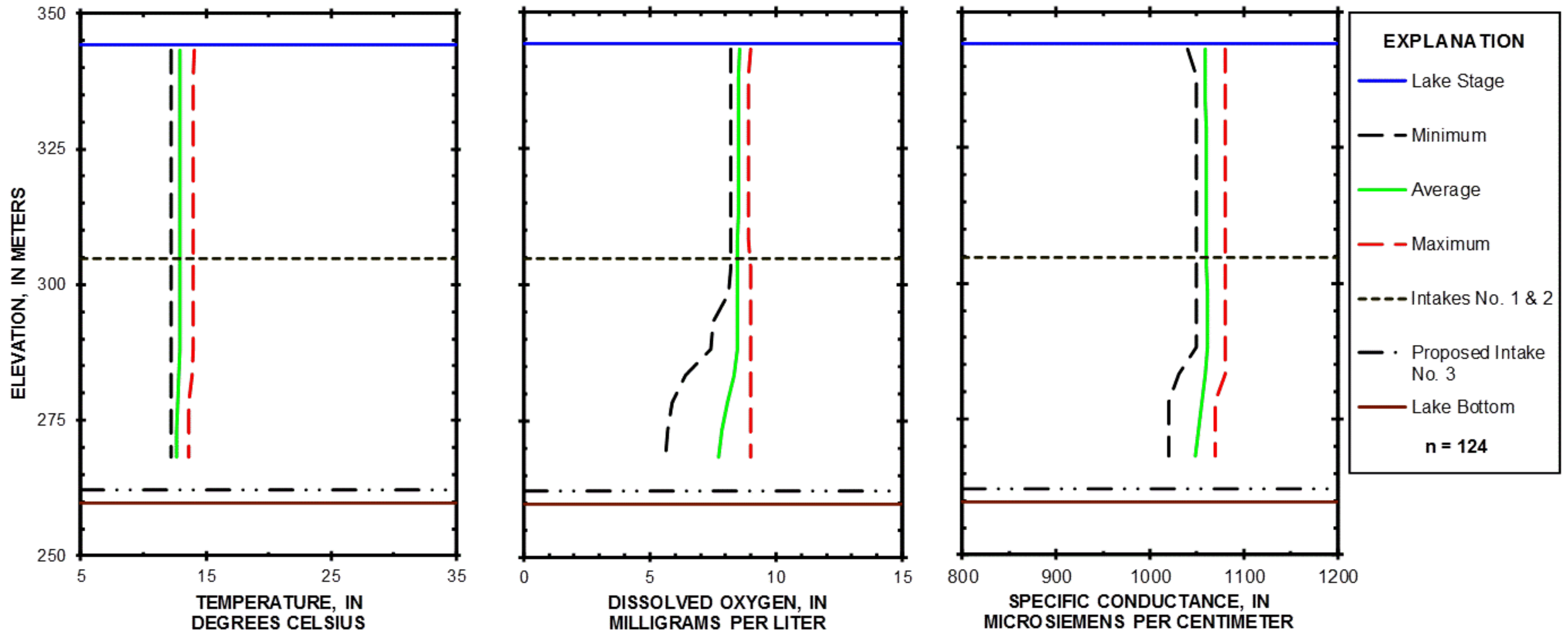
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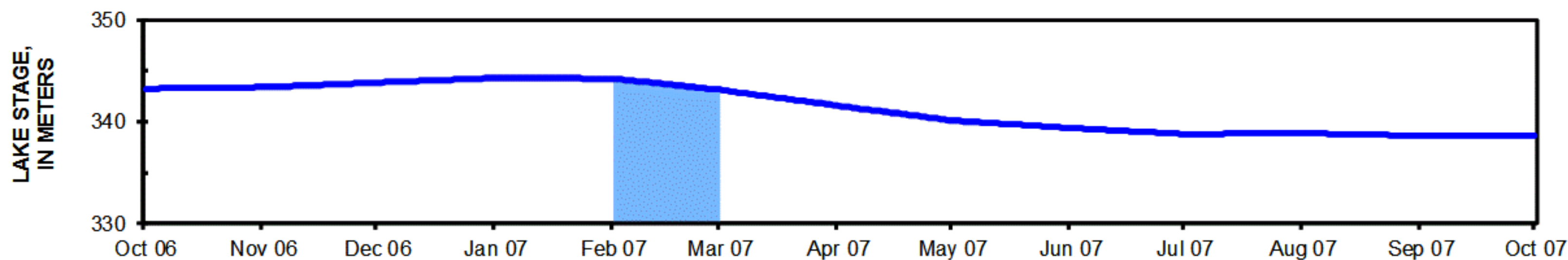
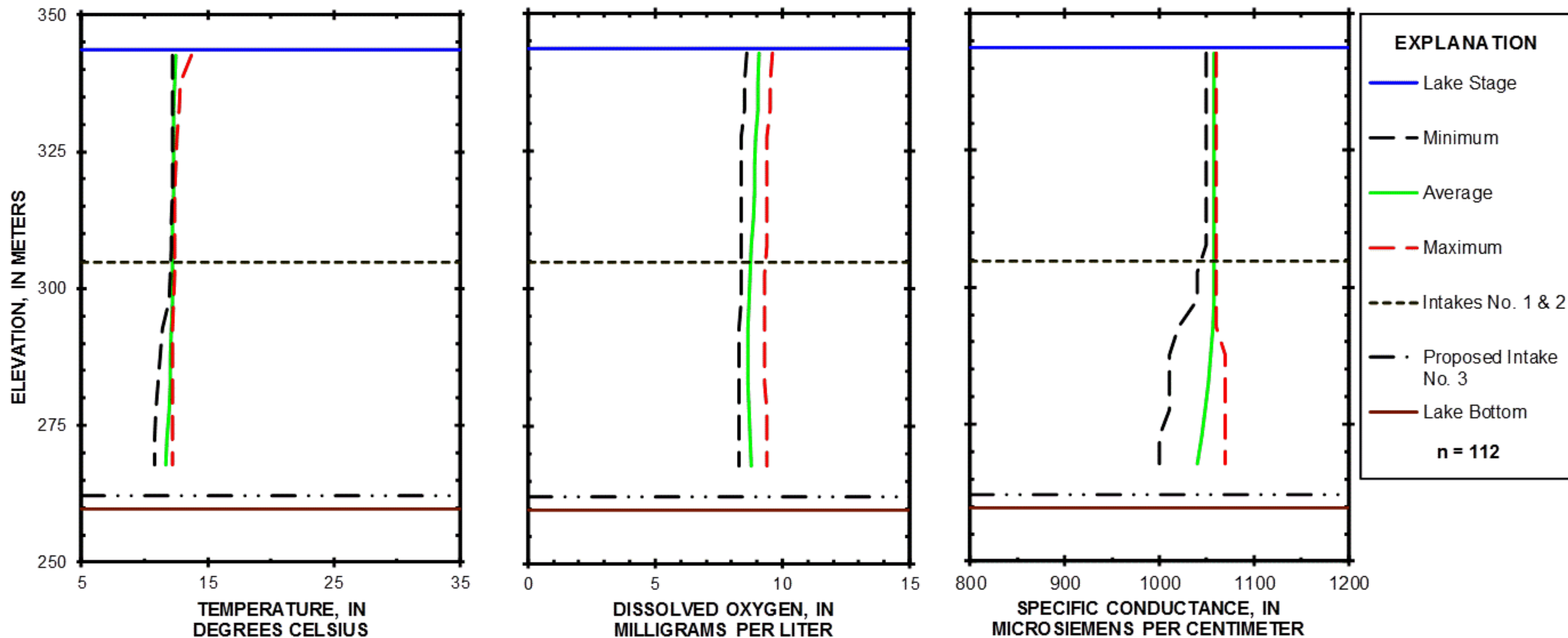
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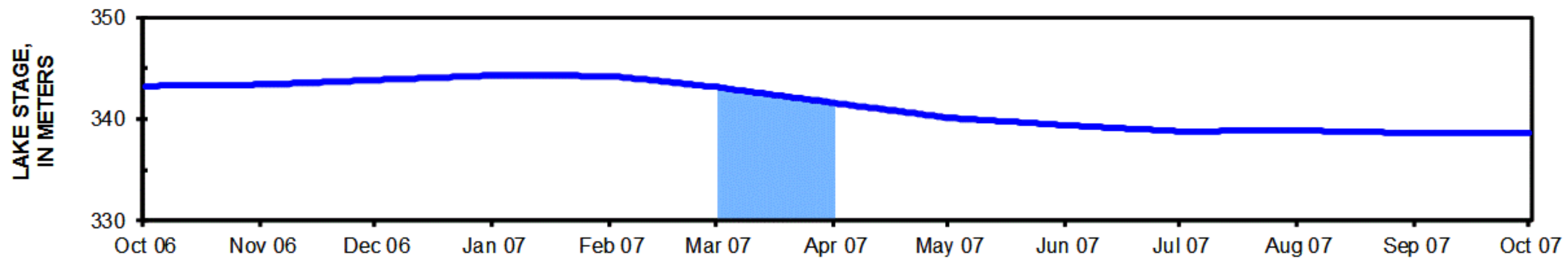
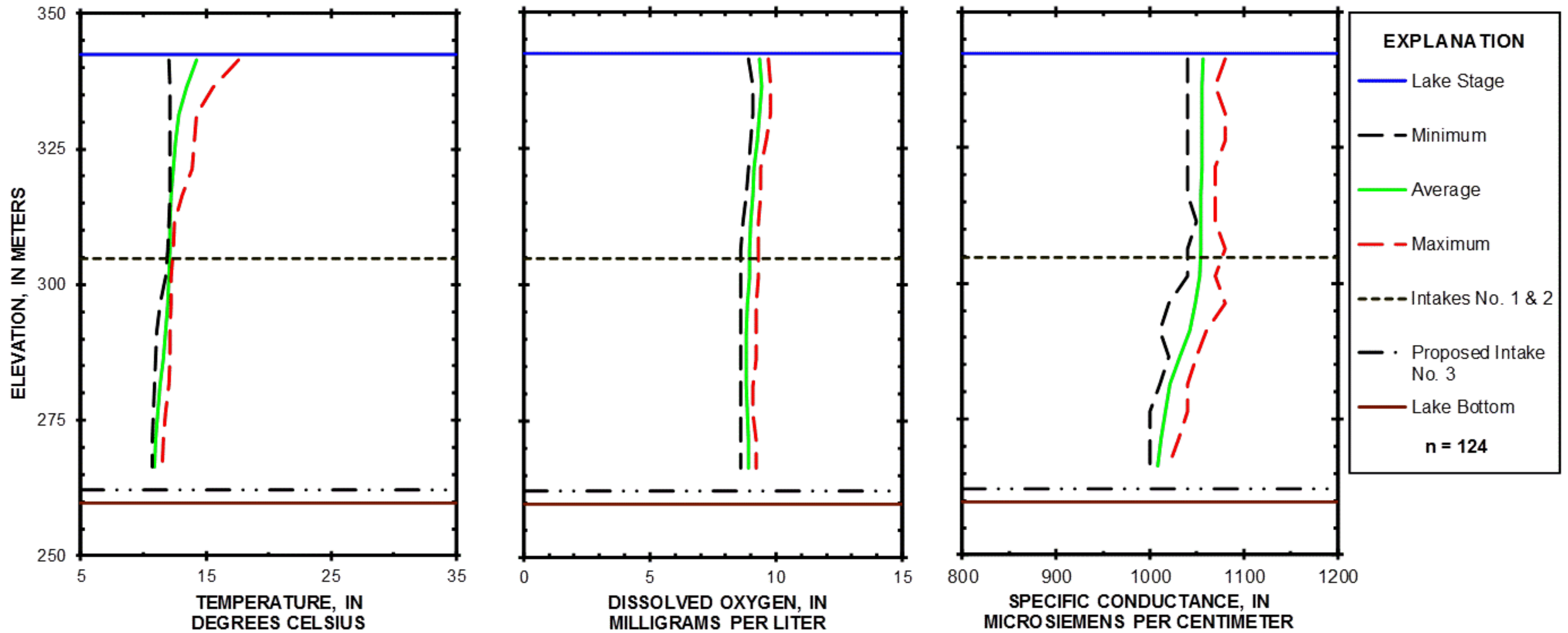
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 01-01-07 through 01-31-07



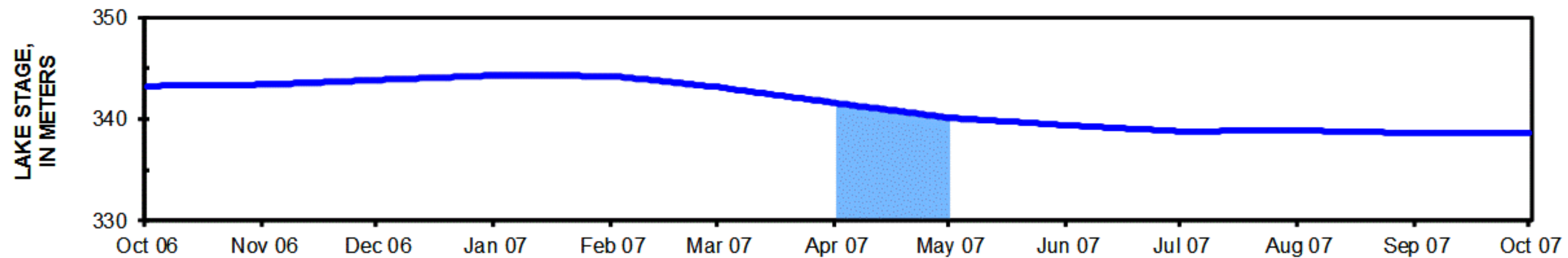
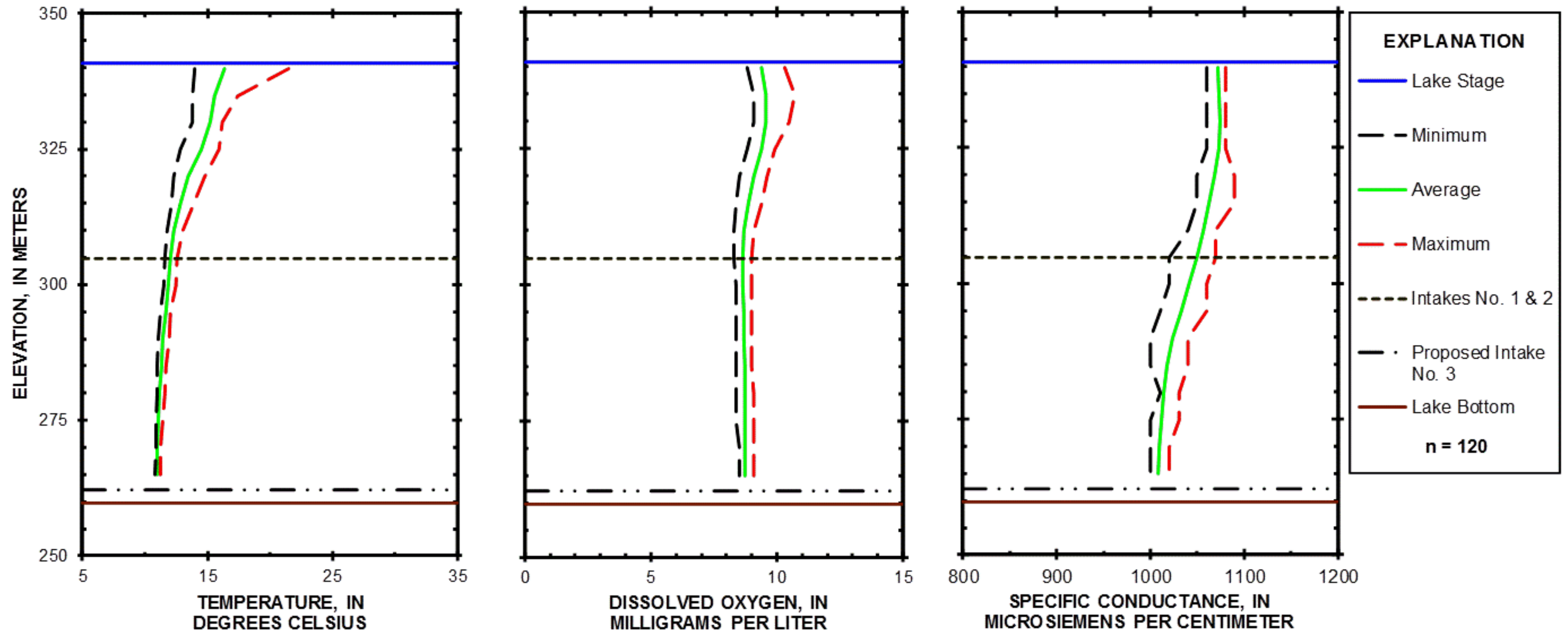
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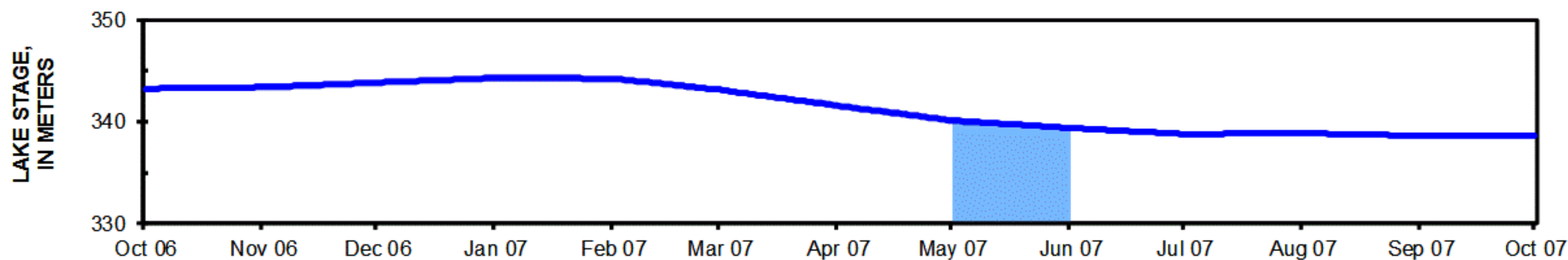
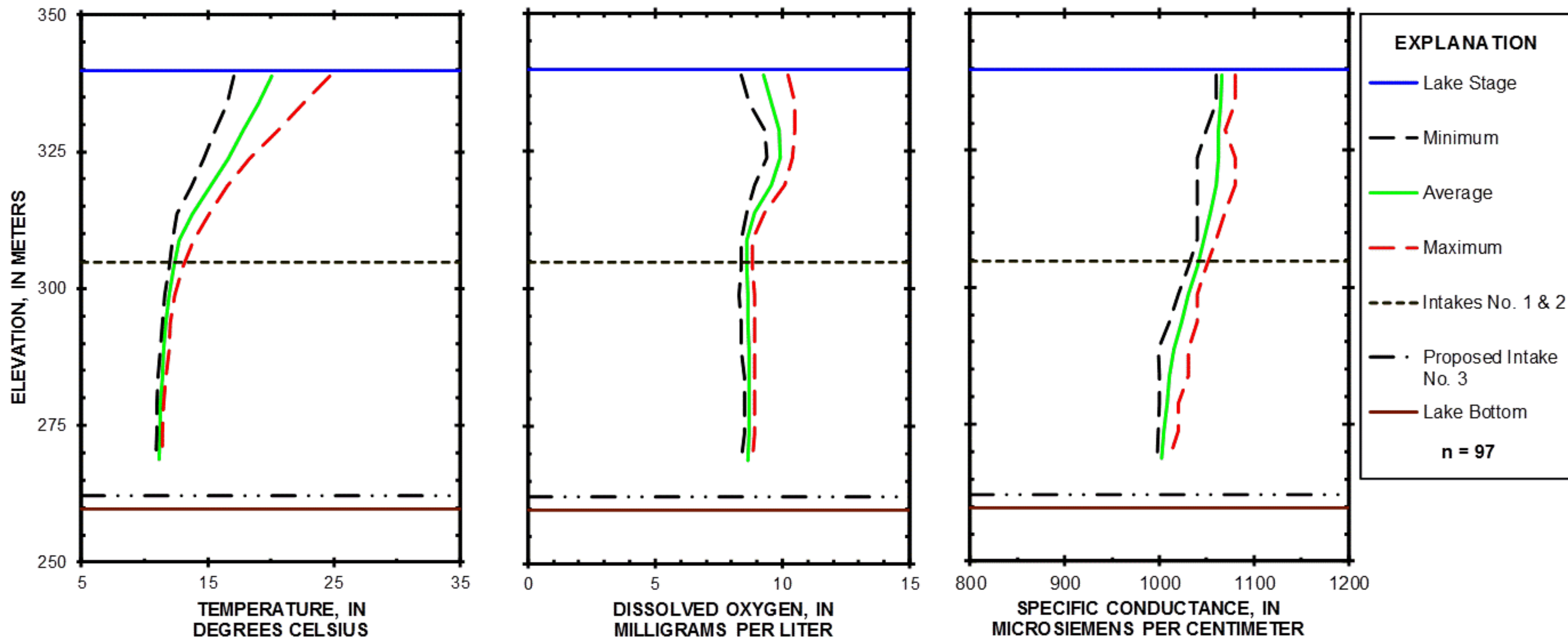
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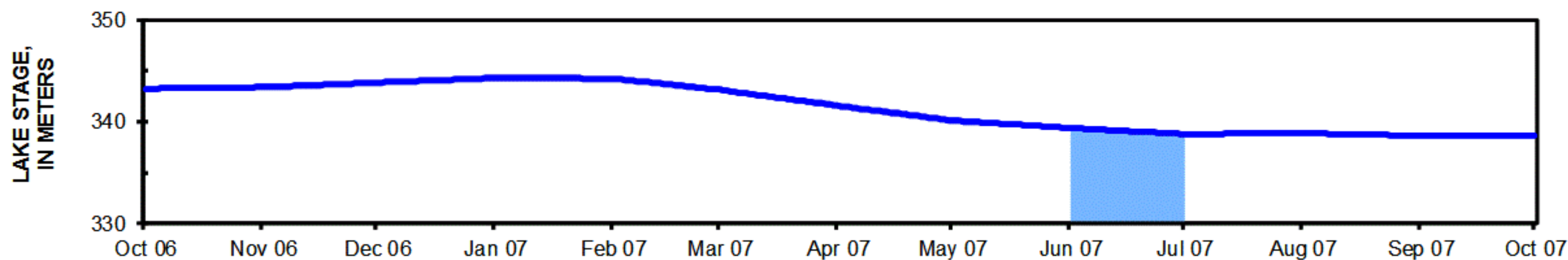
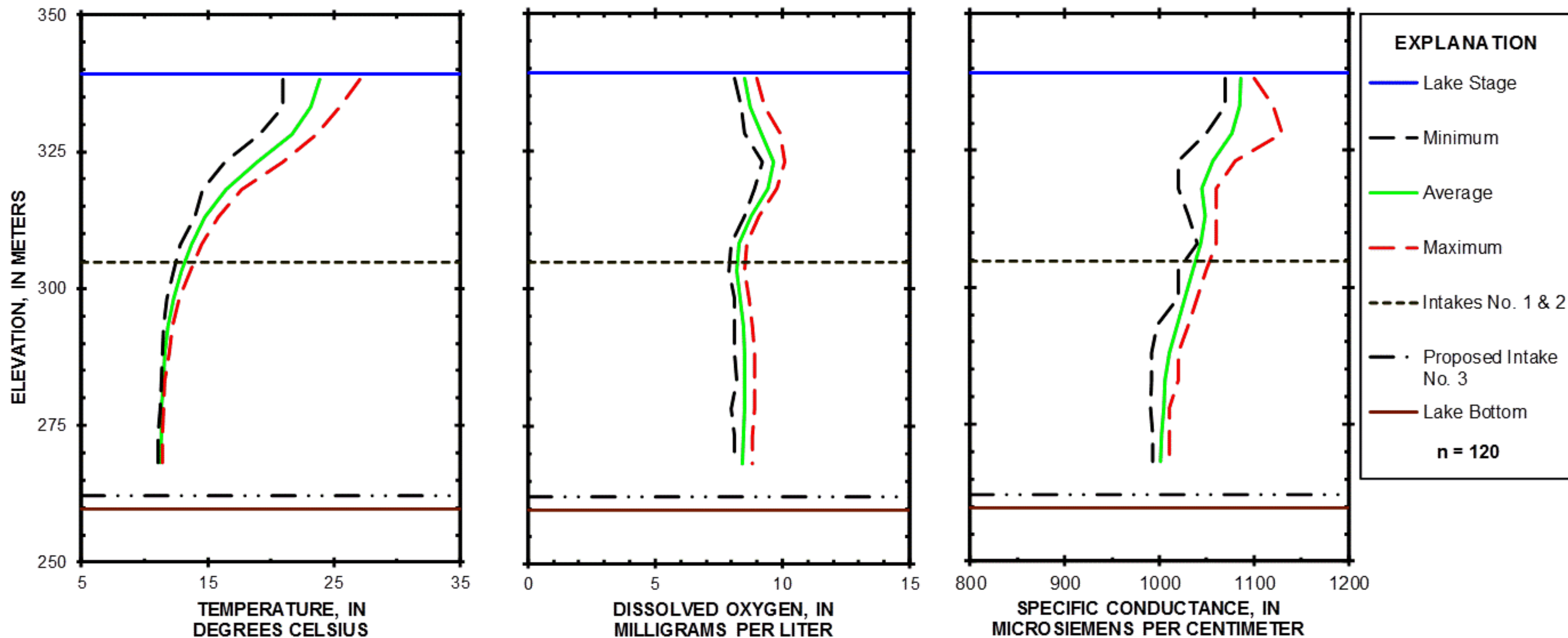
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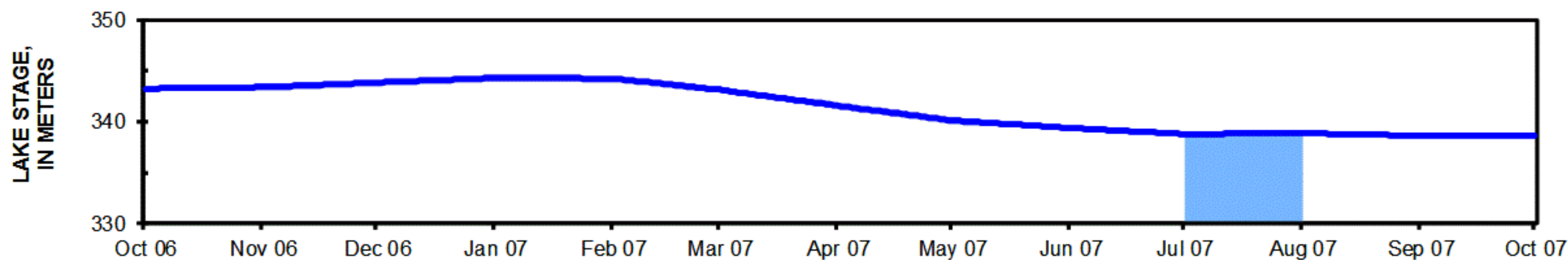
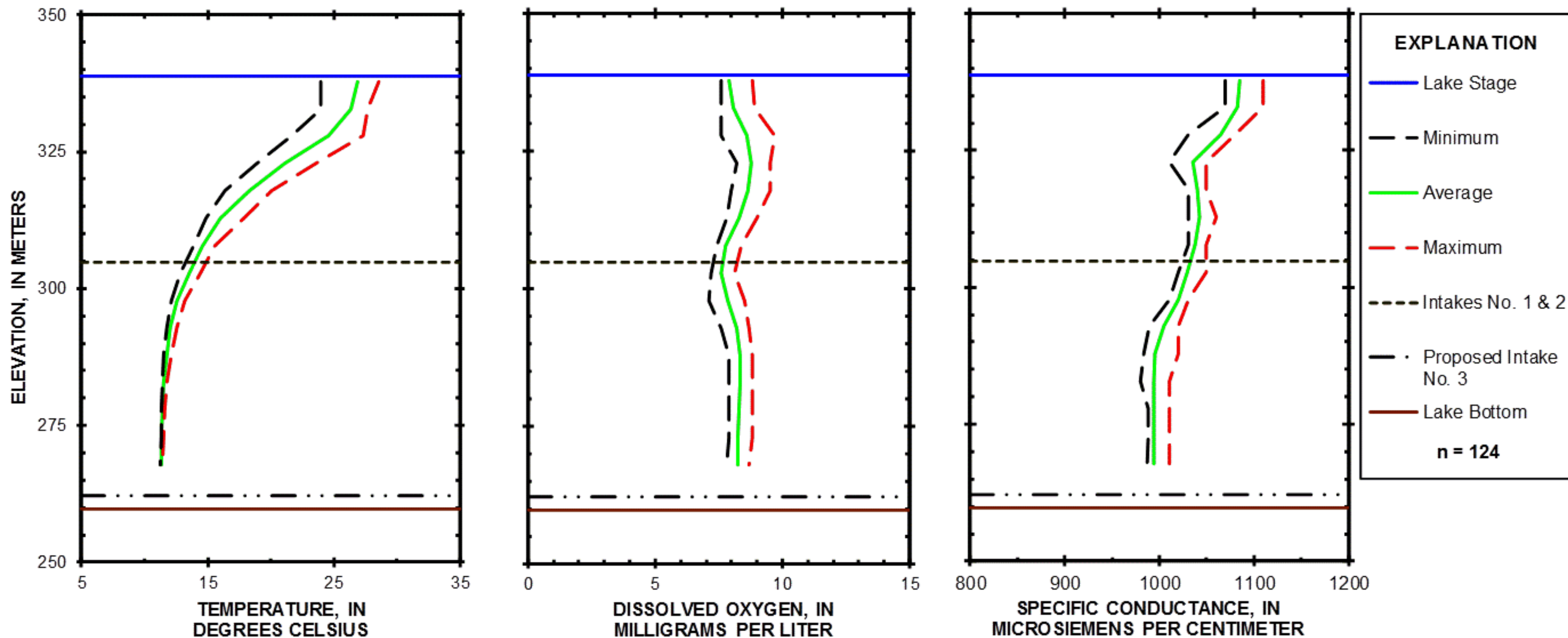
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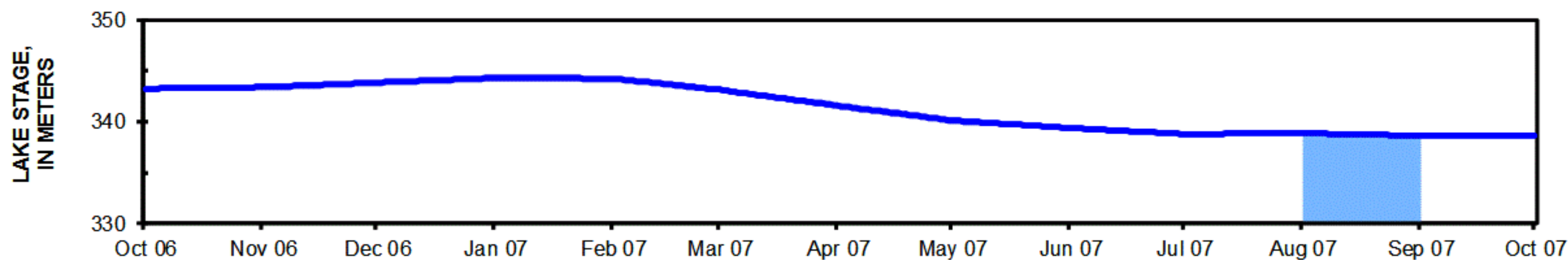
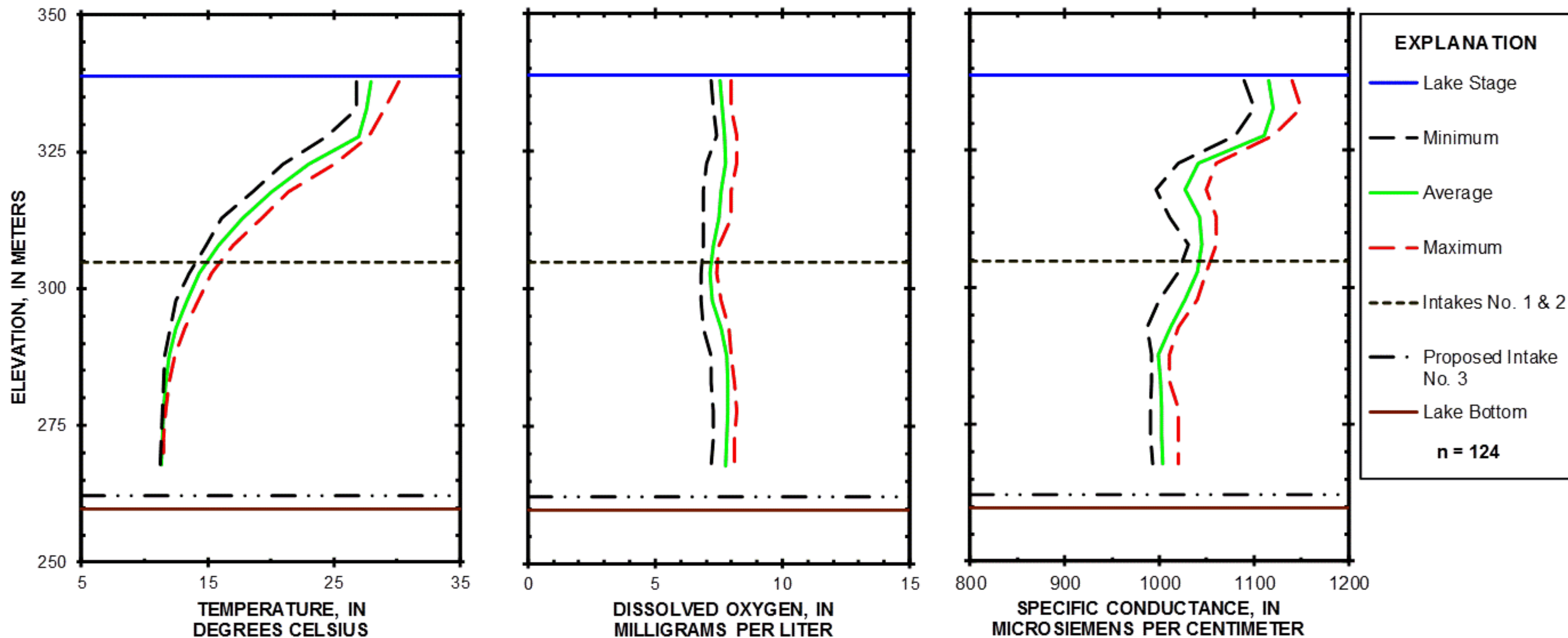
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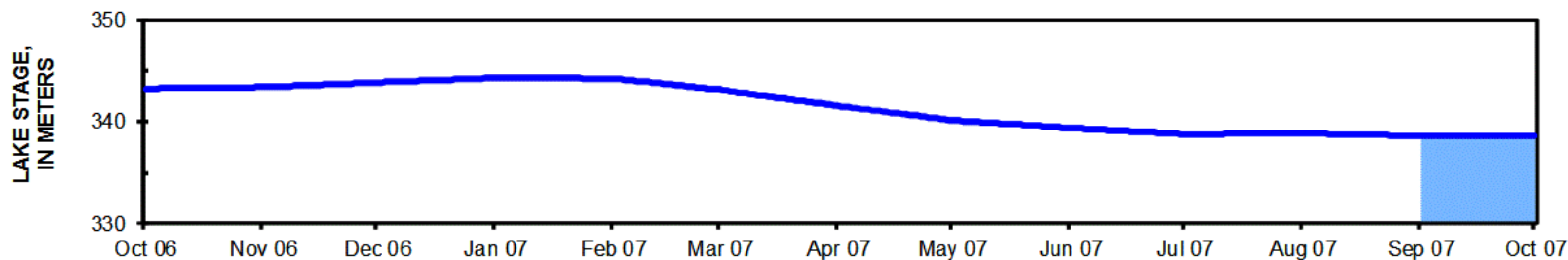
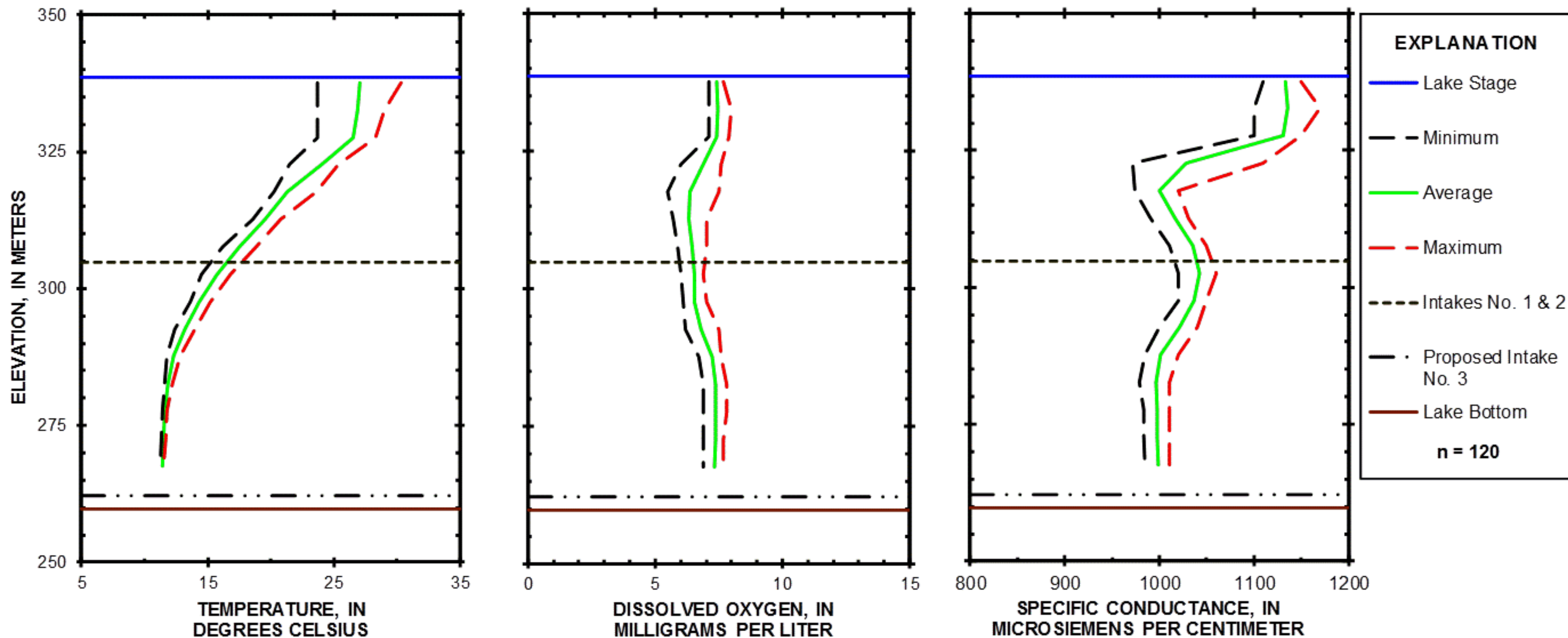
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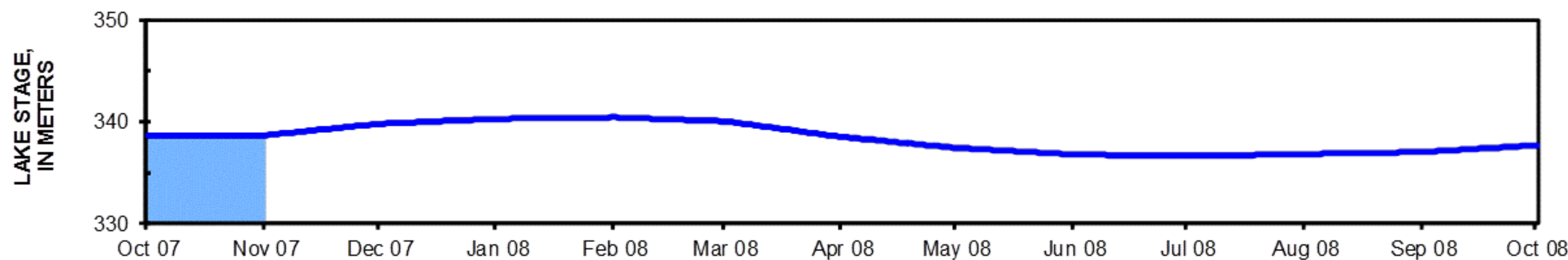
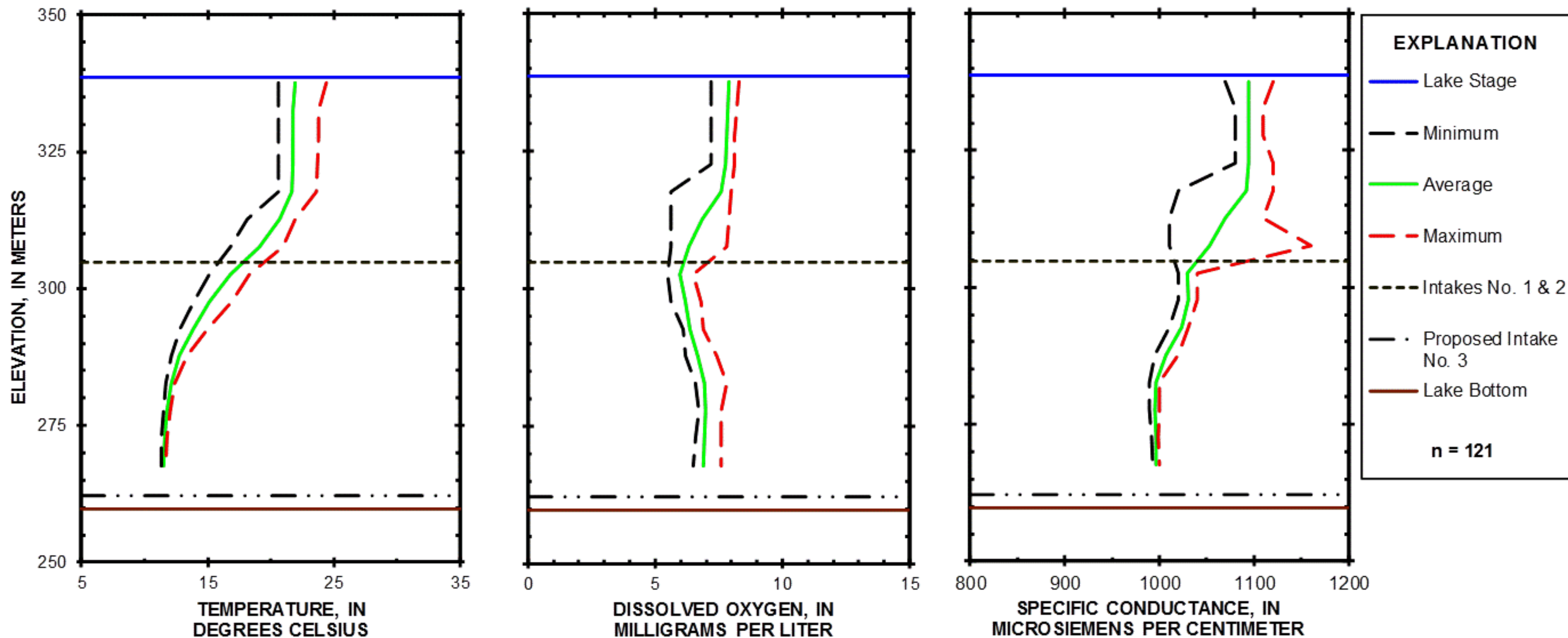
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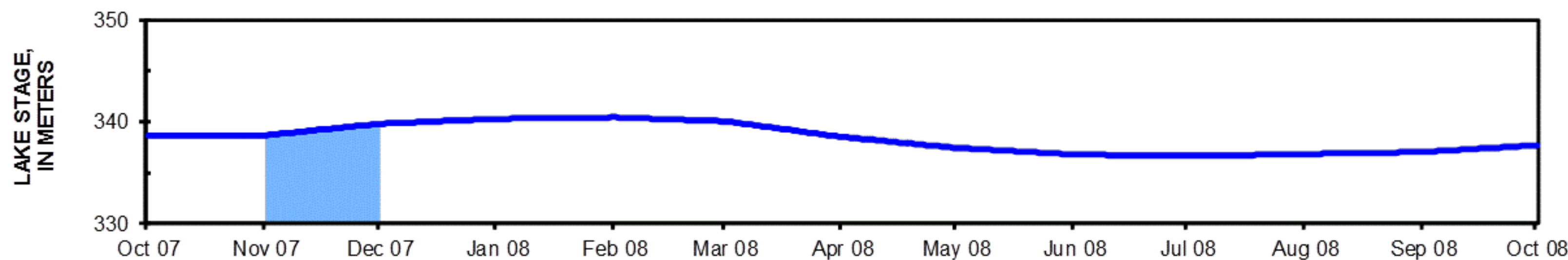
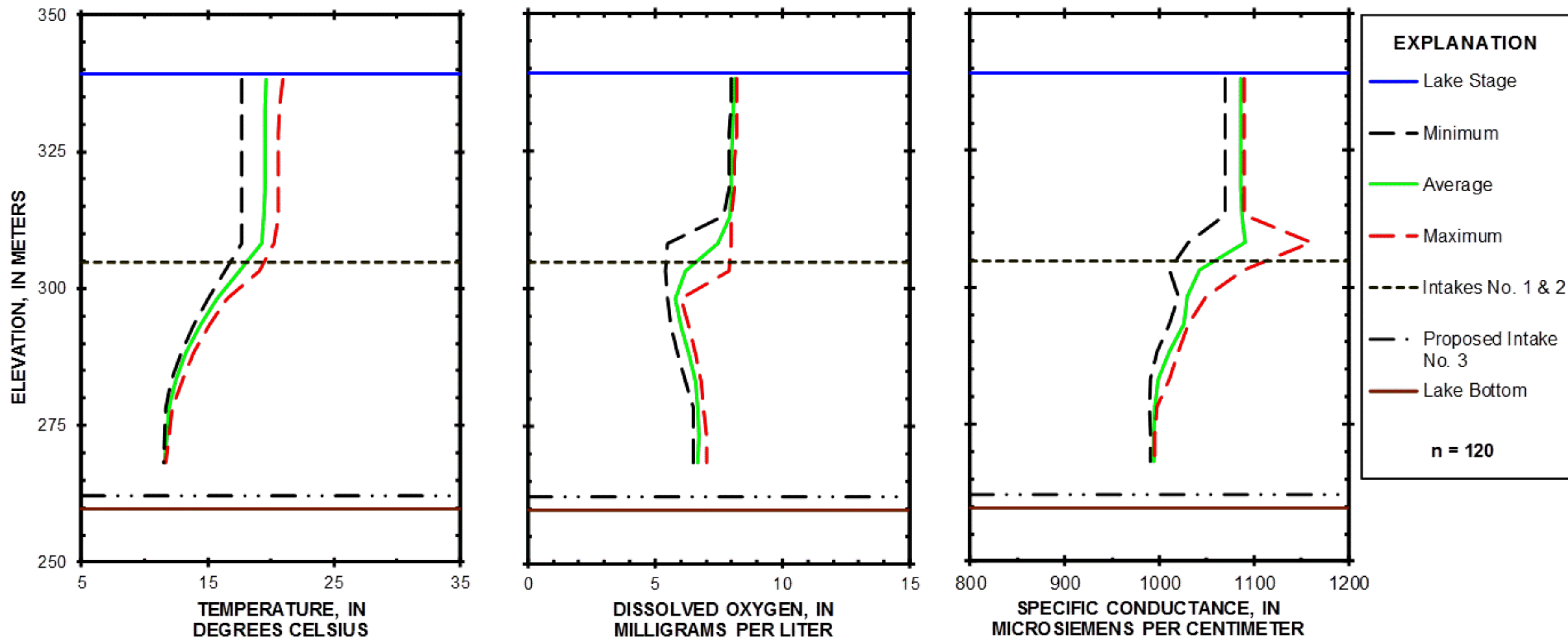
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 09-01-07 through 09-30-07



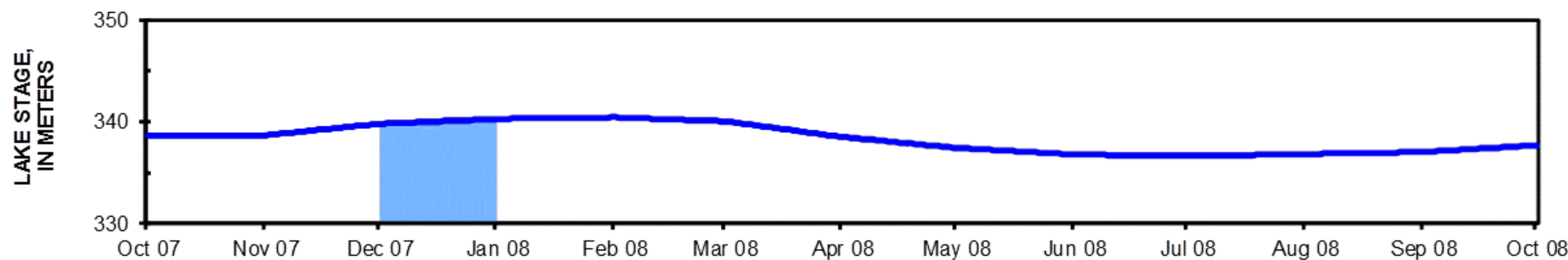
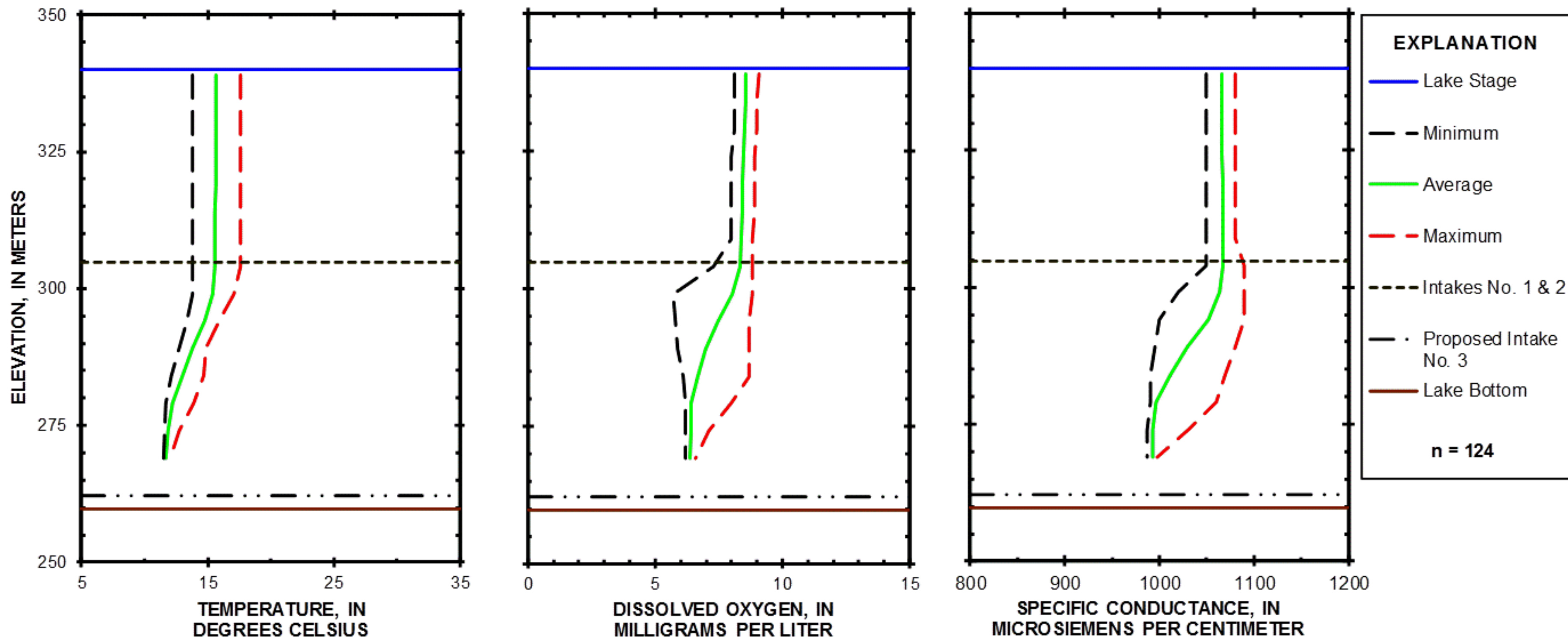
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 10-01-07 through 10-31-07



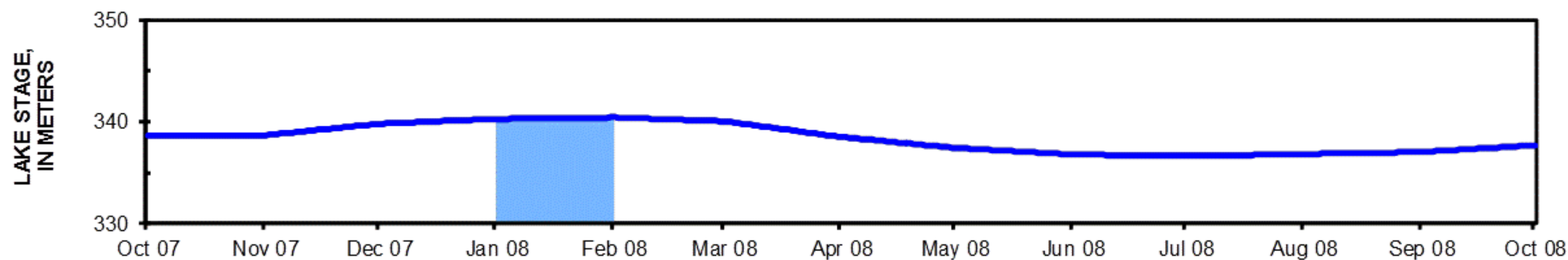
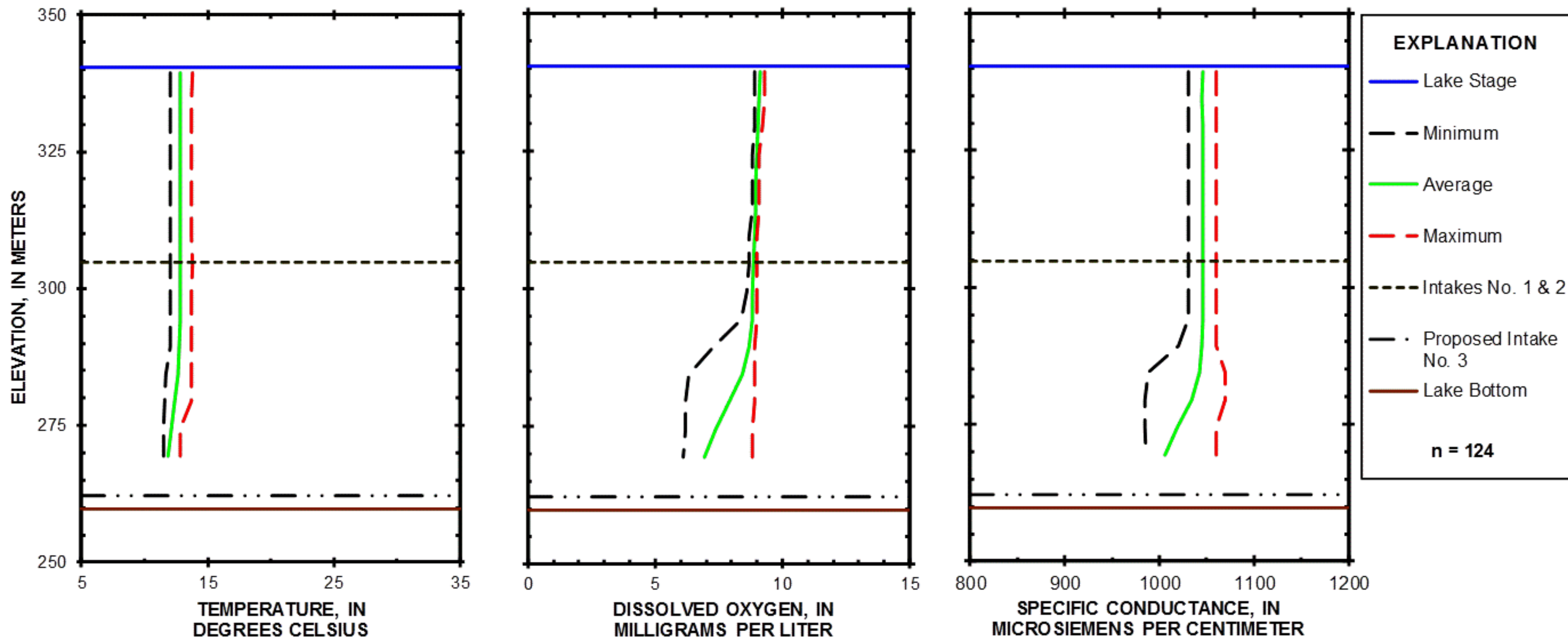
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 11-01-07 through 11-30-07



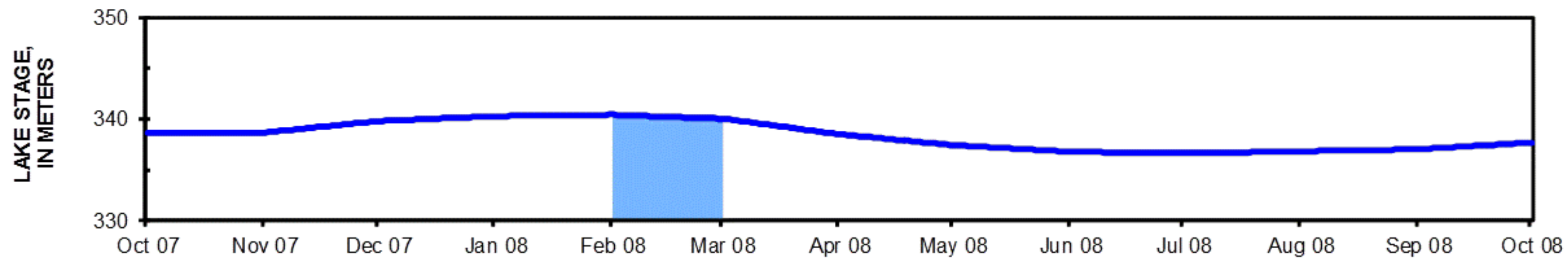
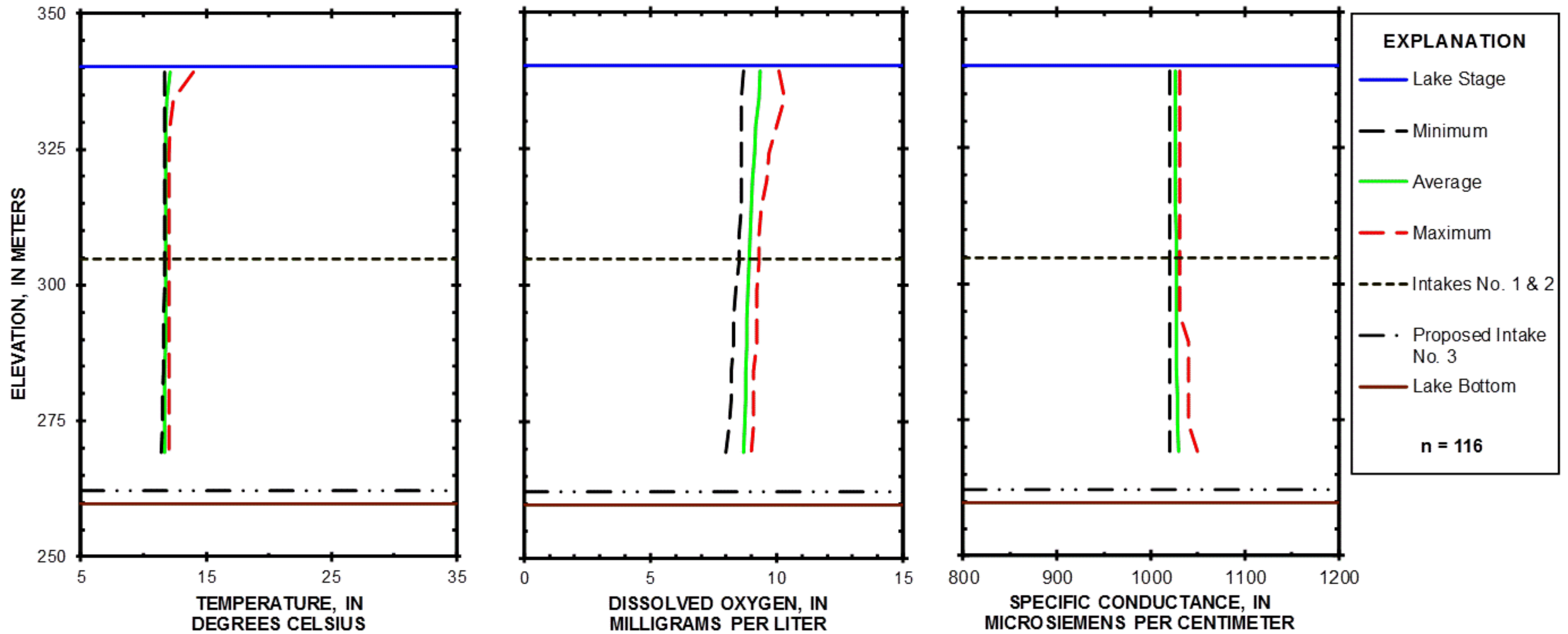
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 12-01-07 through 12-31-07



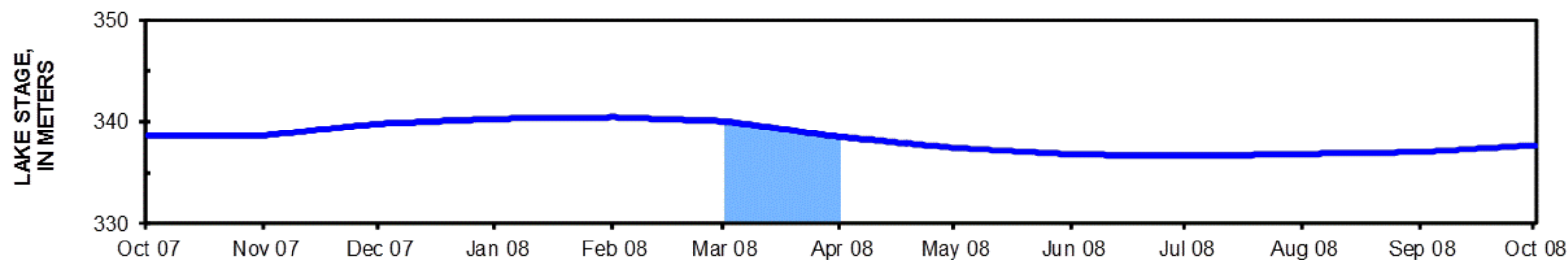
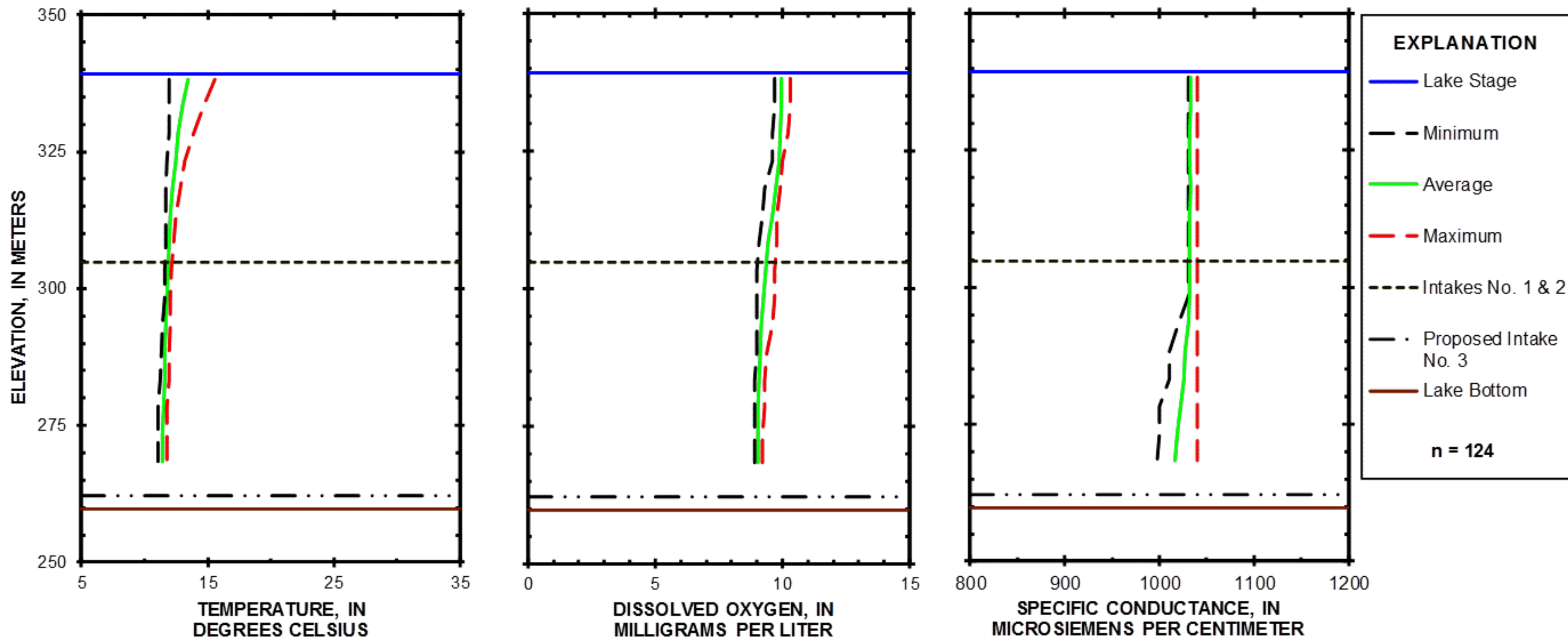
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 01-01-08 through 01-31-08



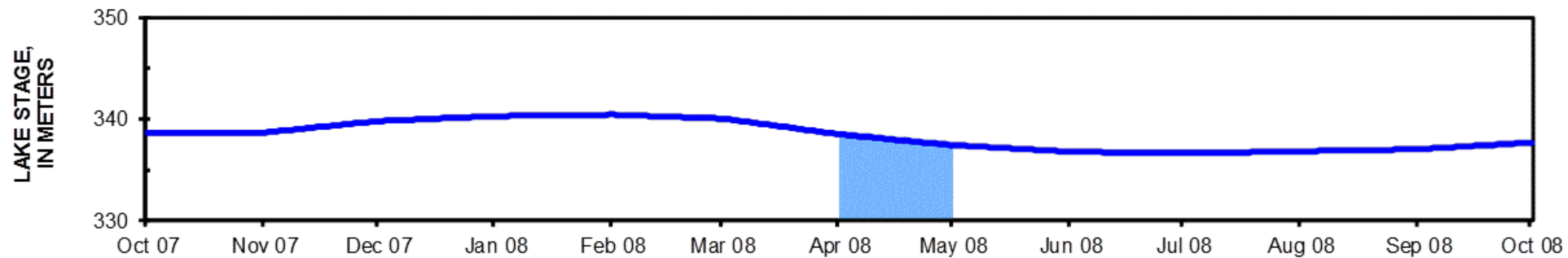
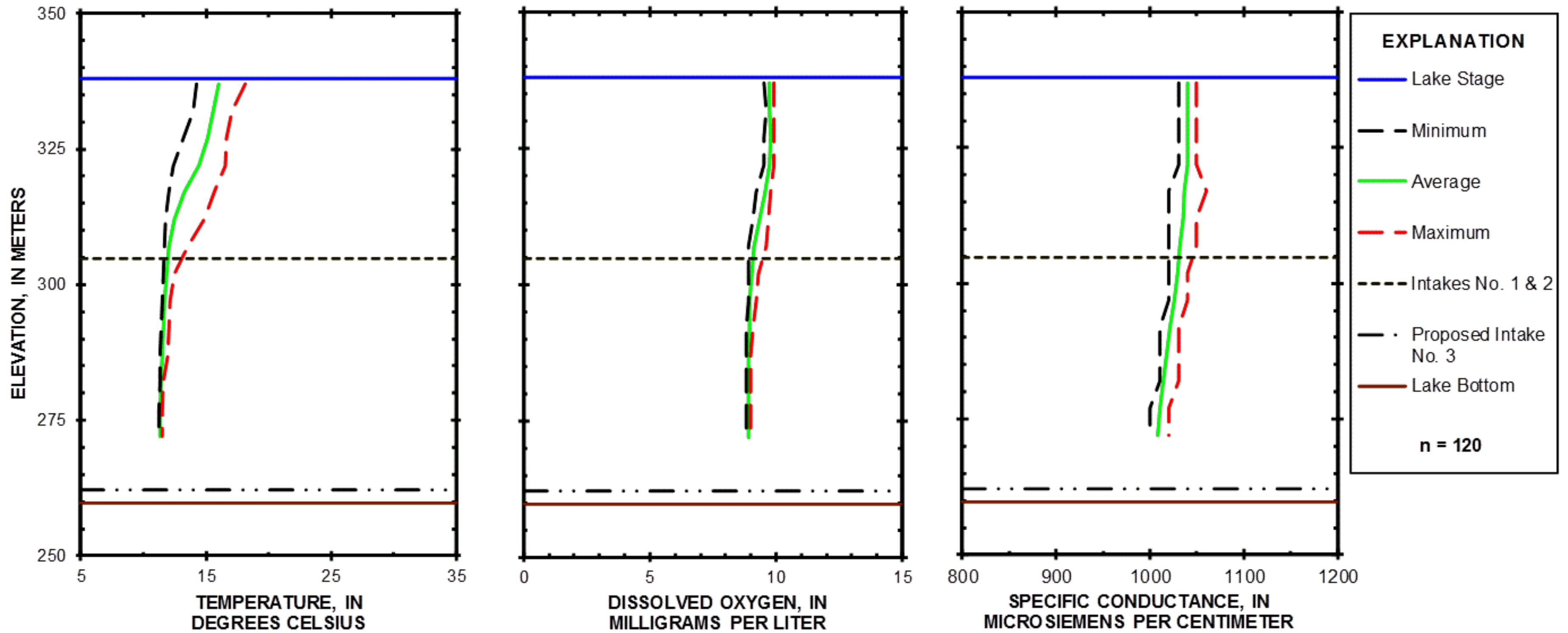
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 02-01-08 through 02-29-08



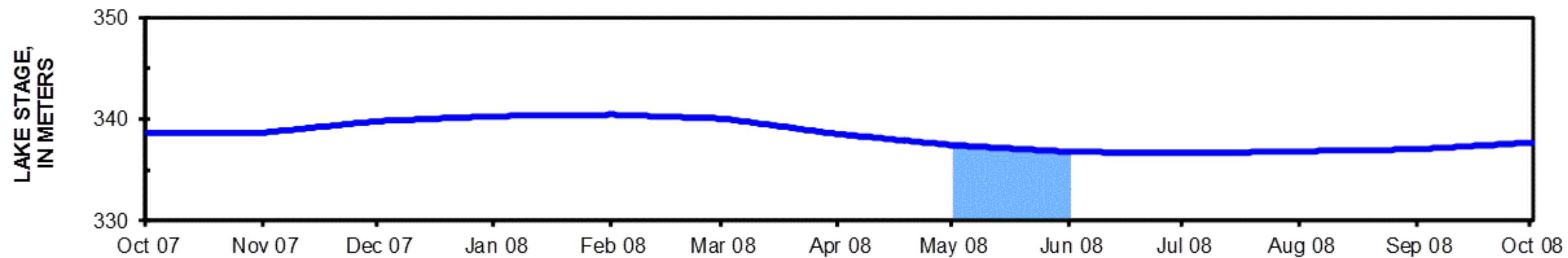
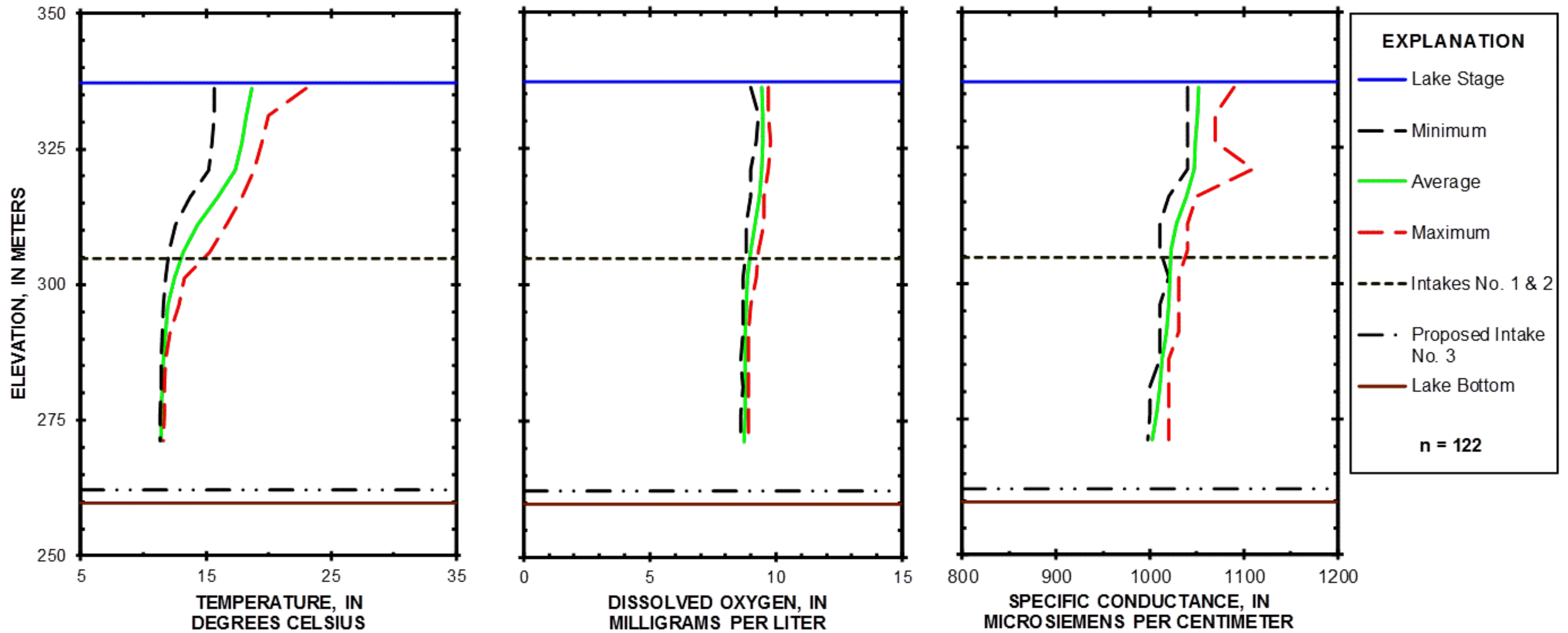
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 03-01-08 through 03-31-08



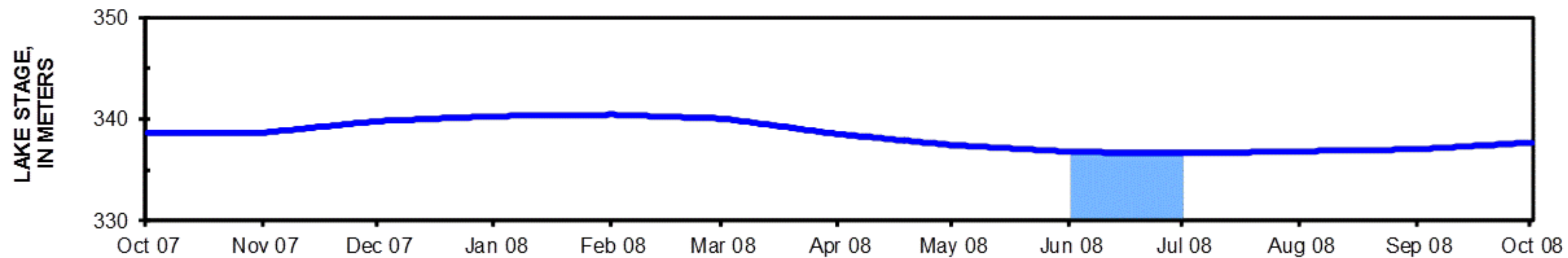
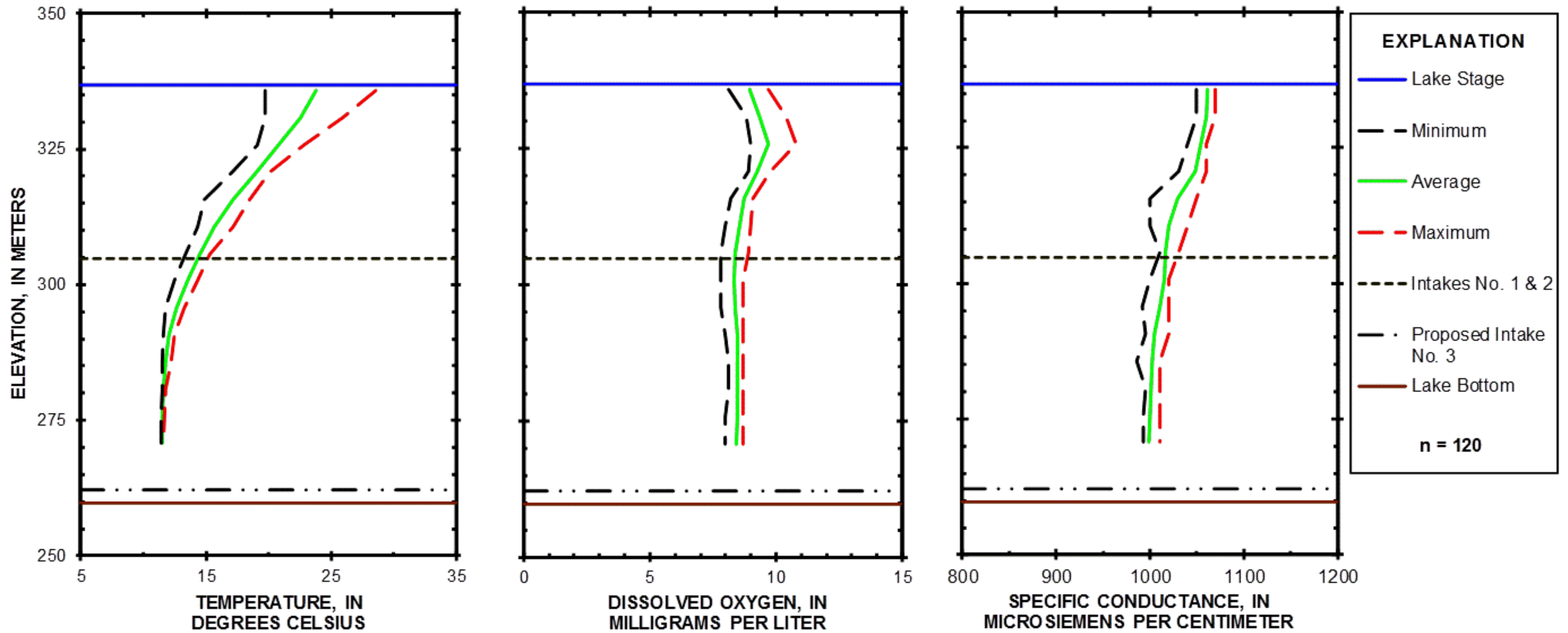
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 04-01-08 through 04-30-08



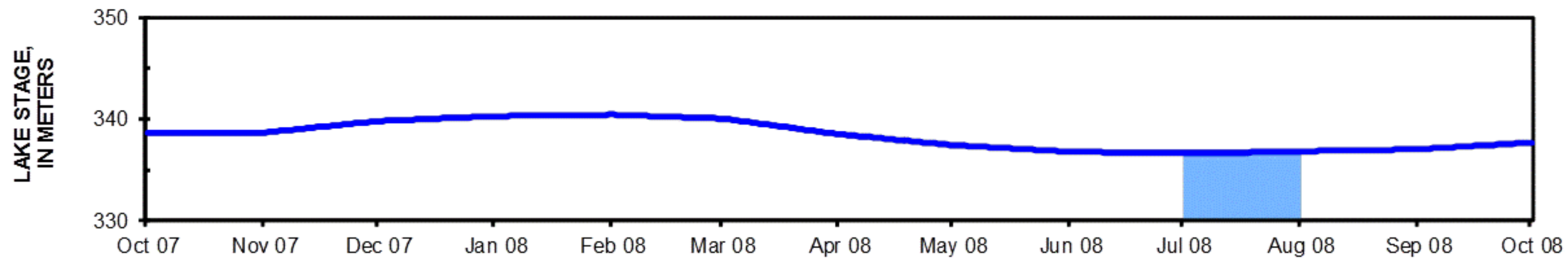
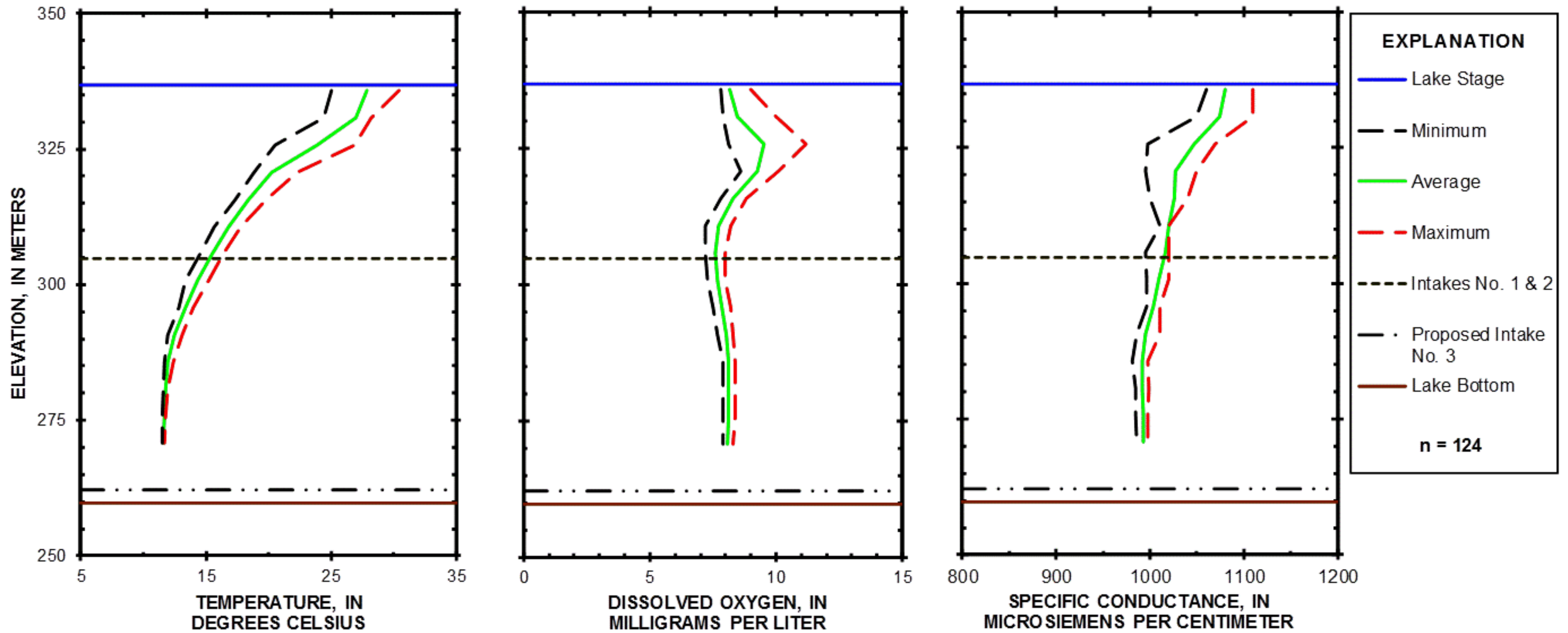
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 05-01-08 through 05-31-08



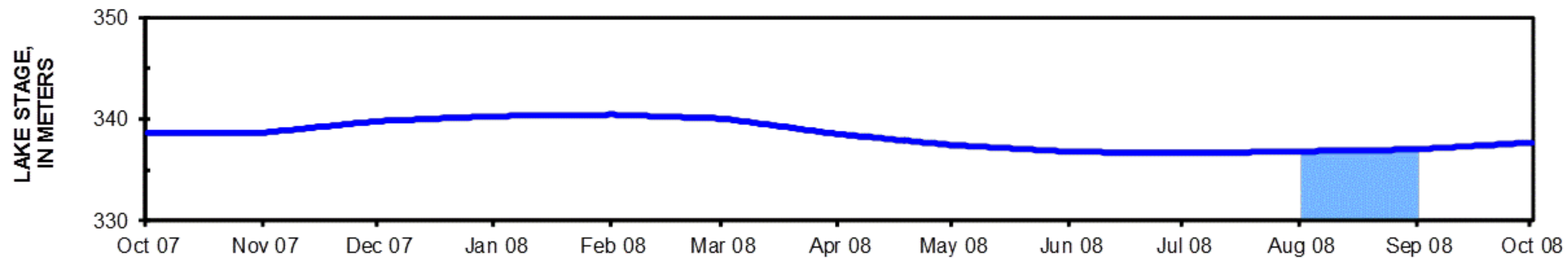
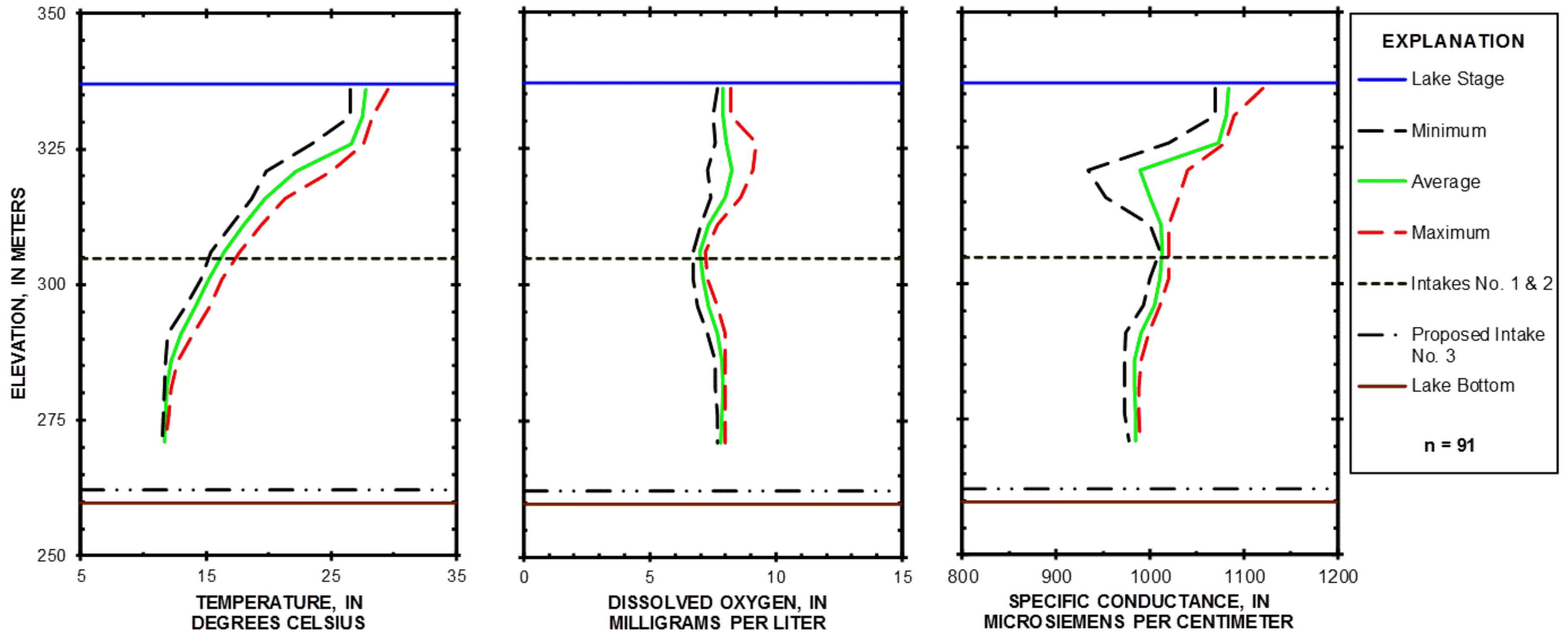
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 06-01-08 through 06-30-08



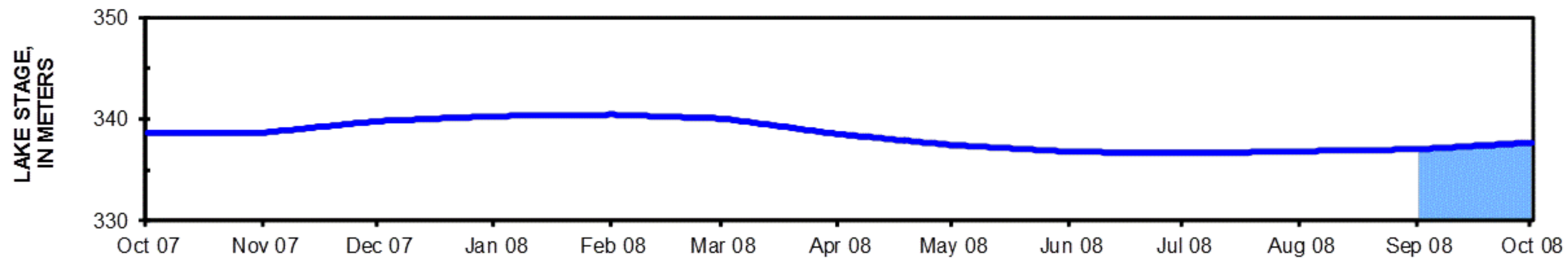
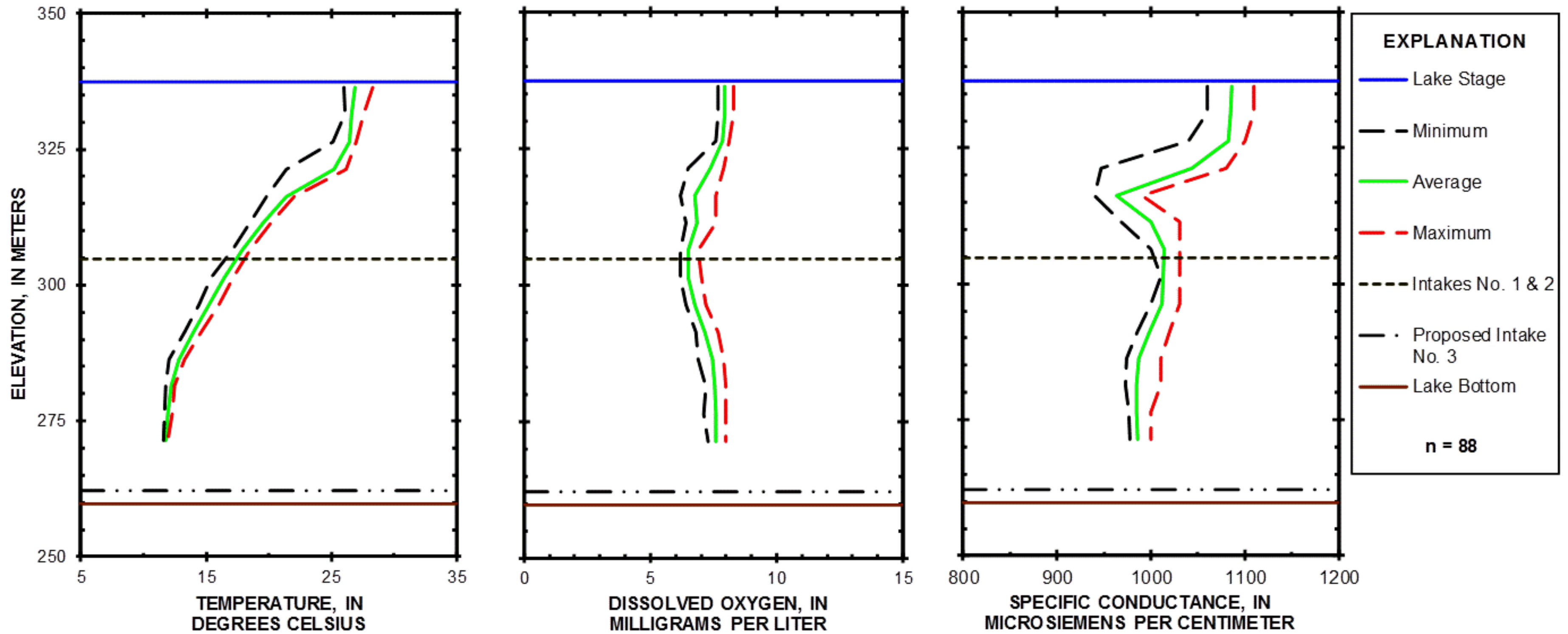
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 07-01-08 through 07-31-08



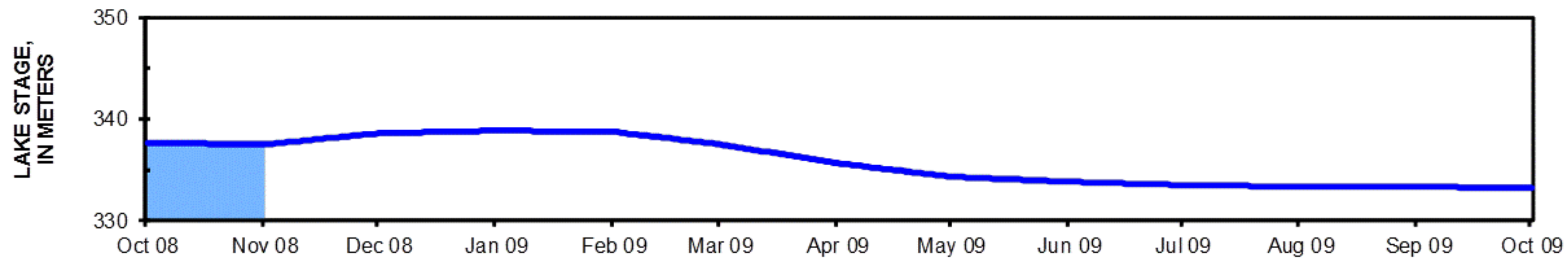
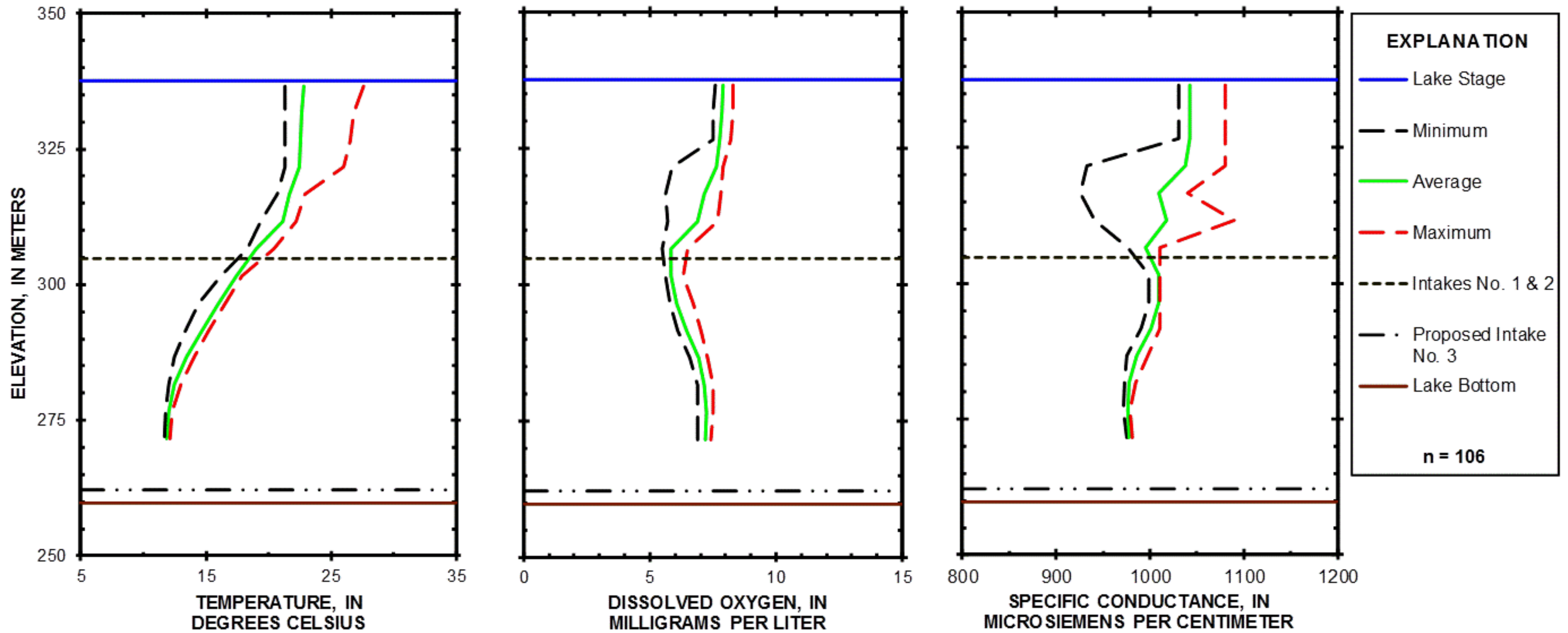
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 08-01-08 through 08-31-08



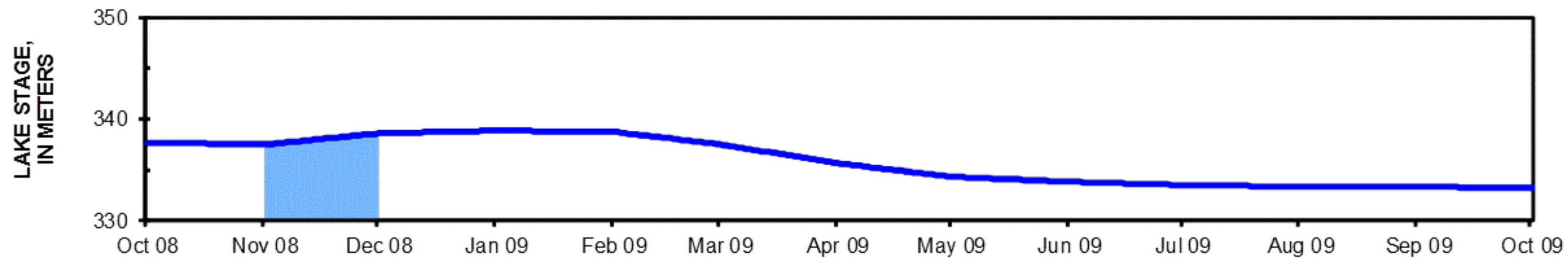
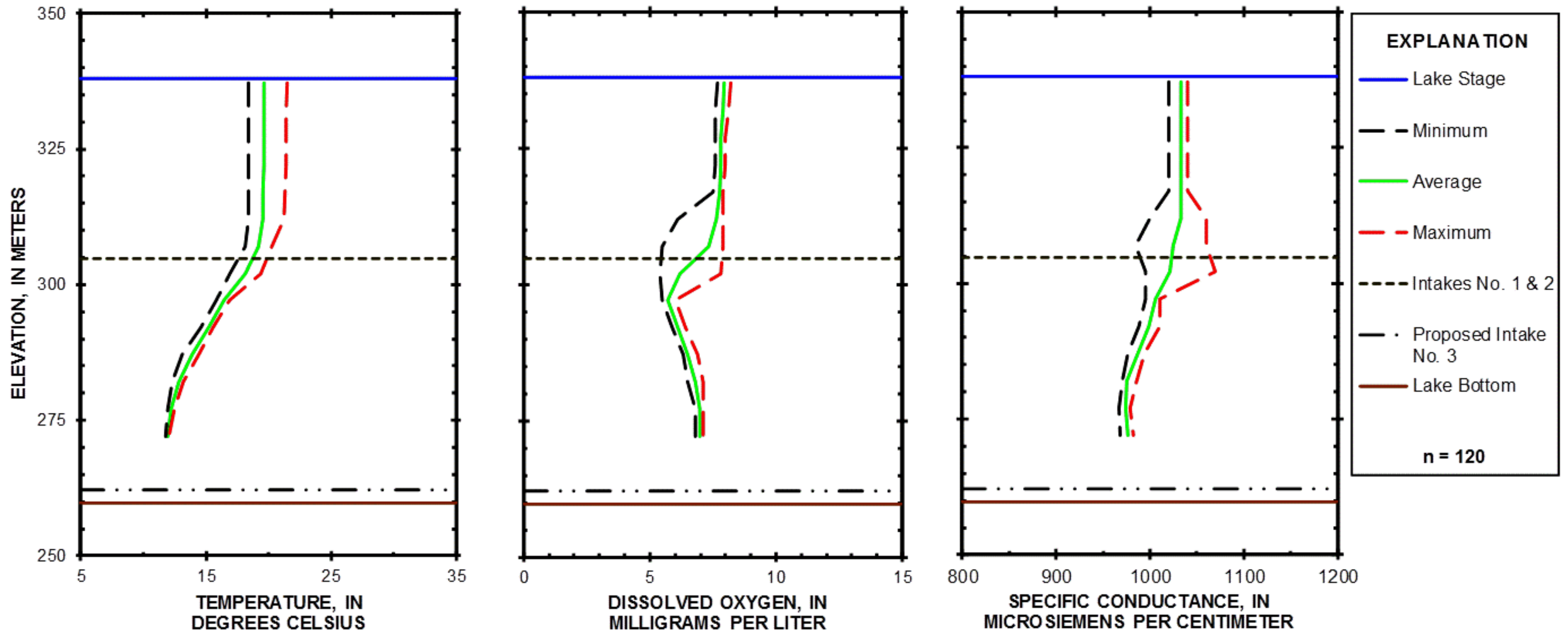
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 09-01-08 through 09-30-08



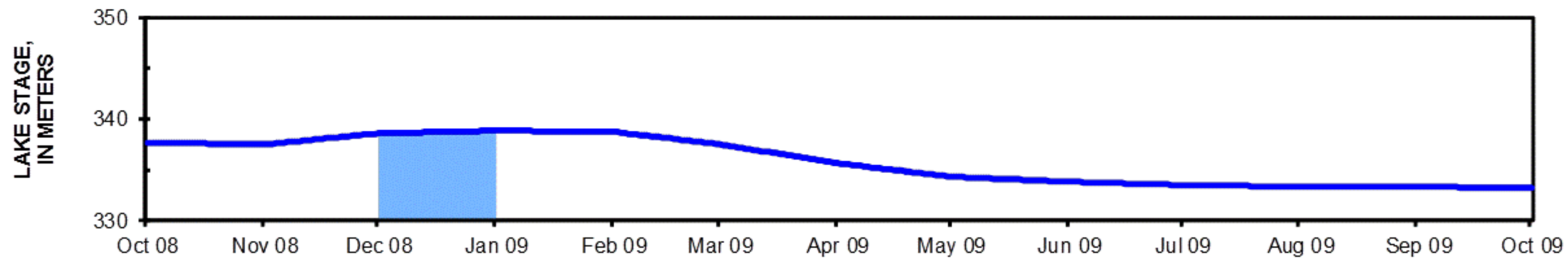
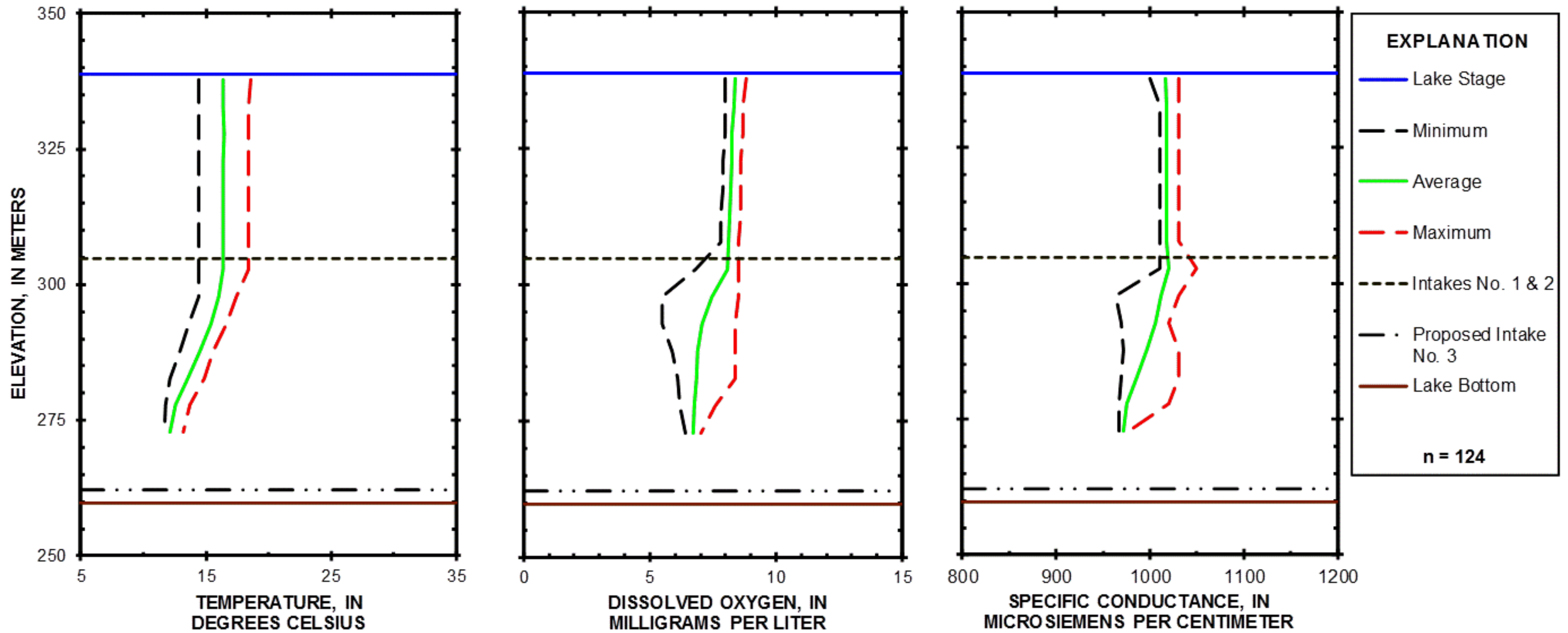
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 10-01-08 through 10-31-08



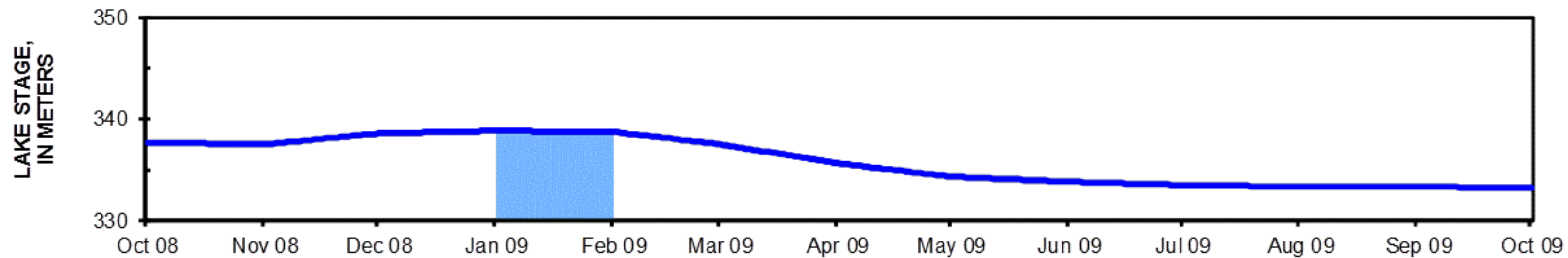
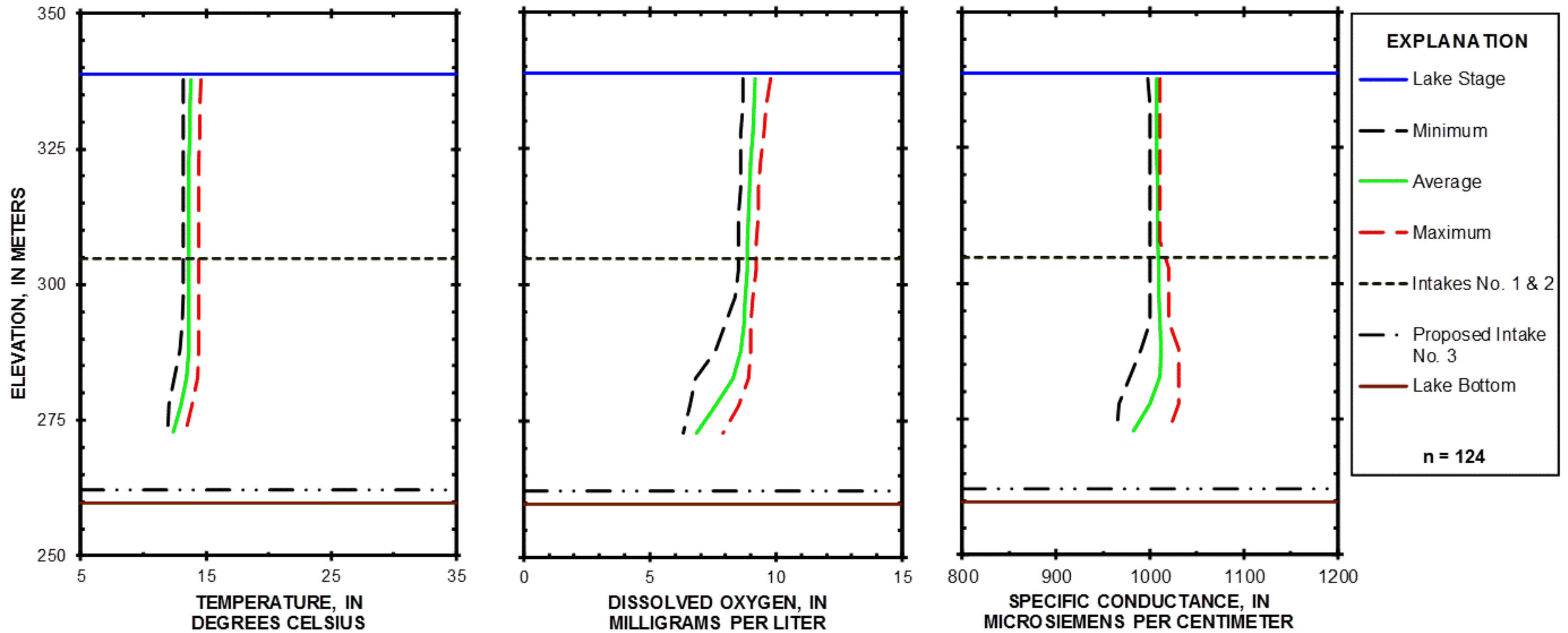
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 11-01-08 through 11-30-08



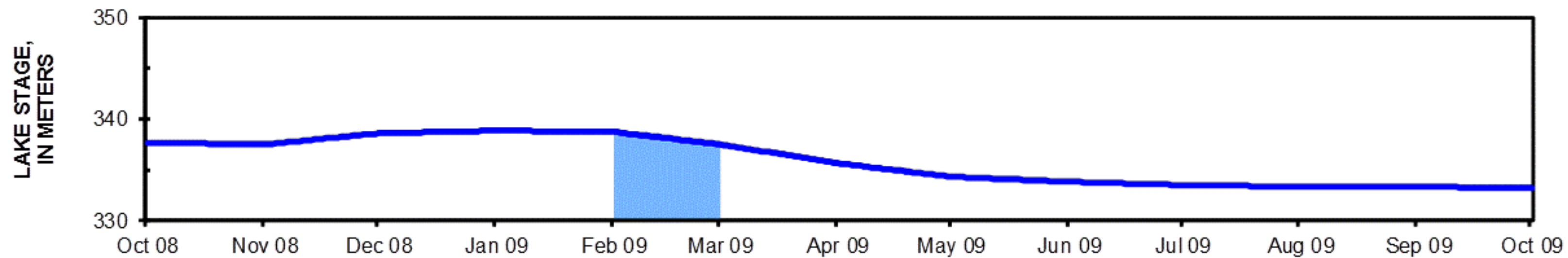
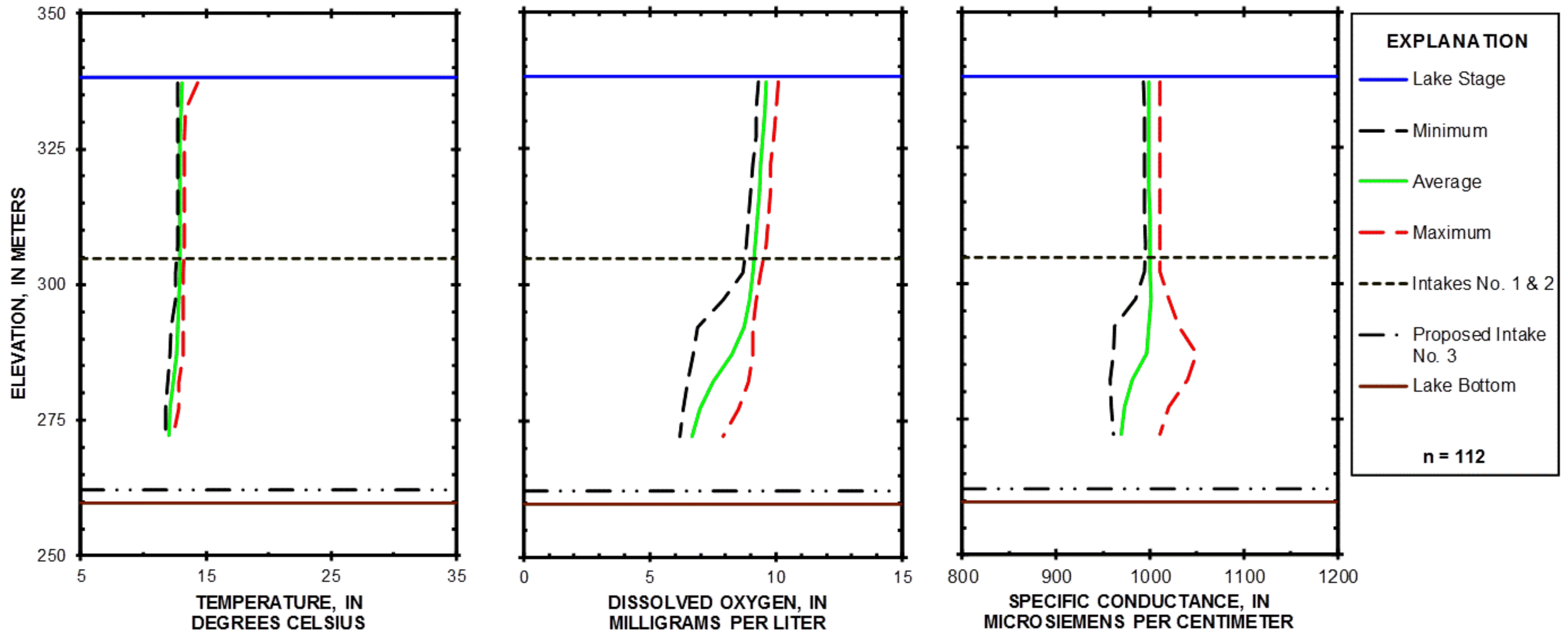
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 12-01-08 through 12-31-08



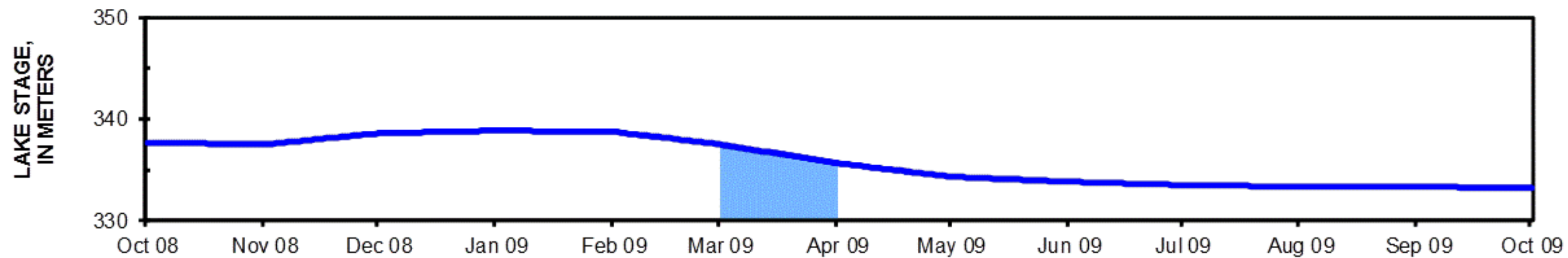
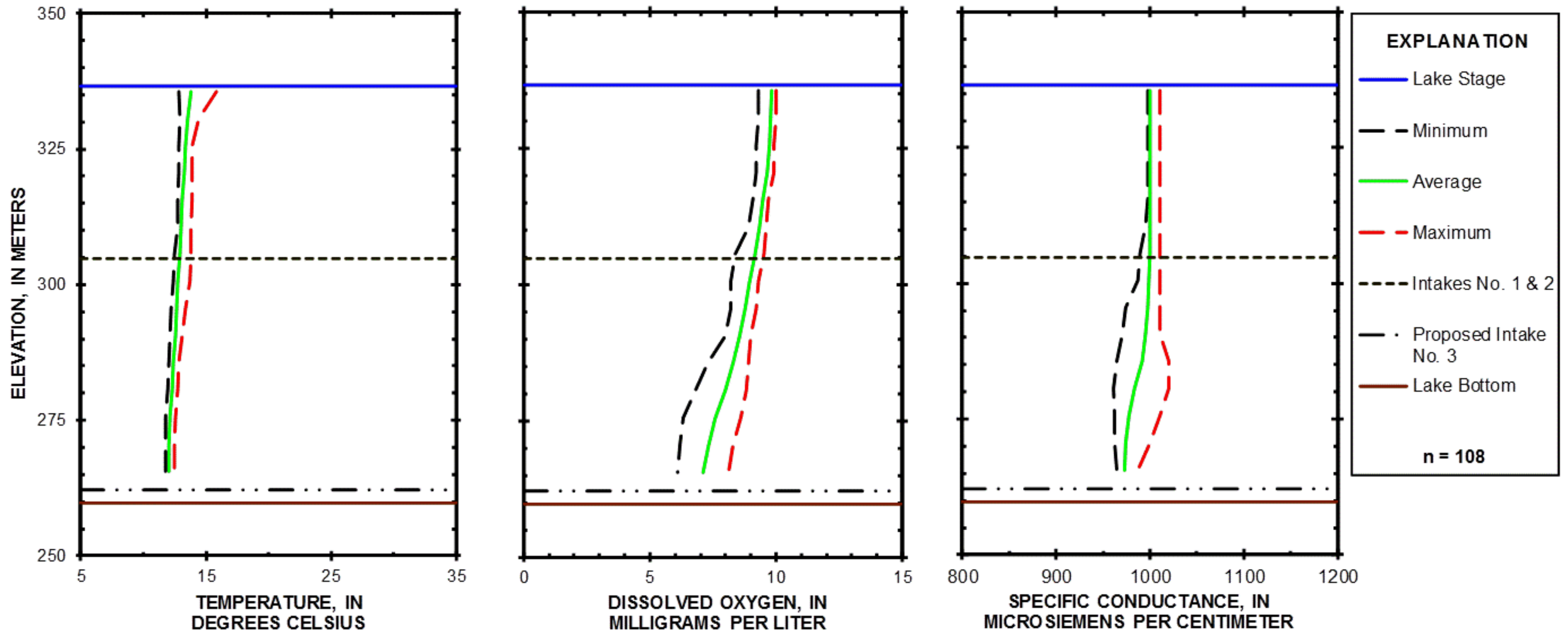
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 01-01-09 through 01-31-09



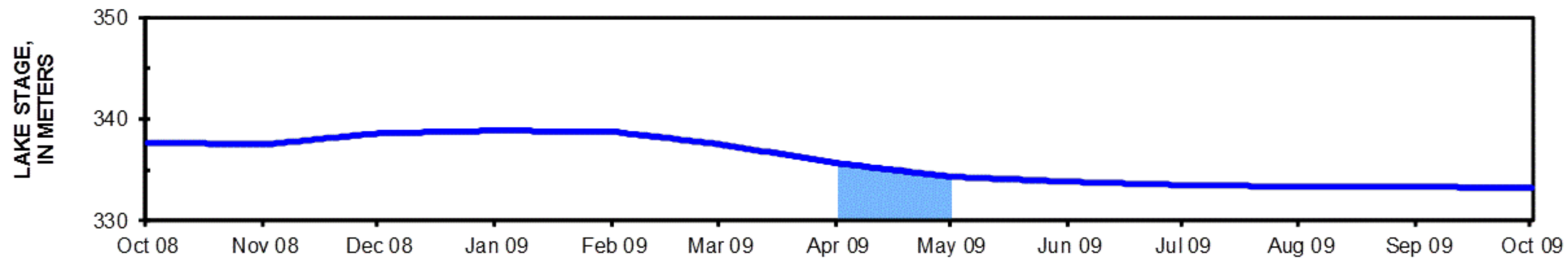
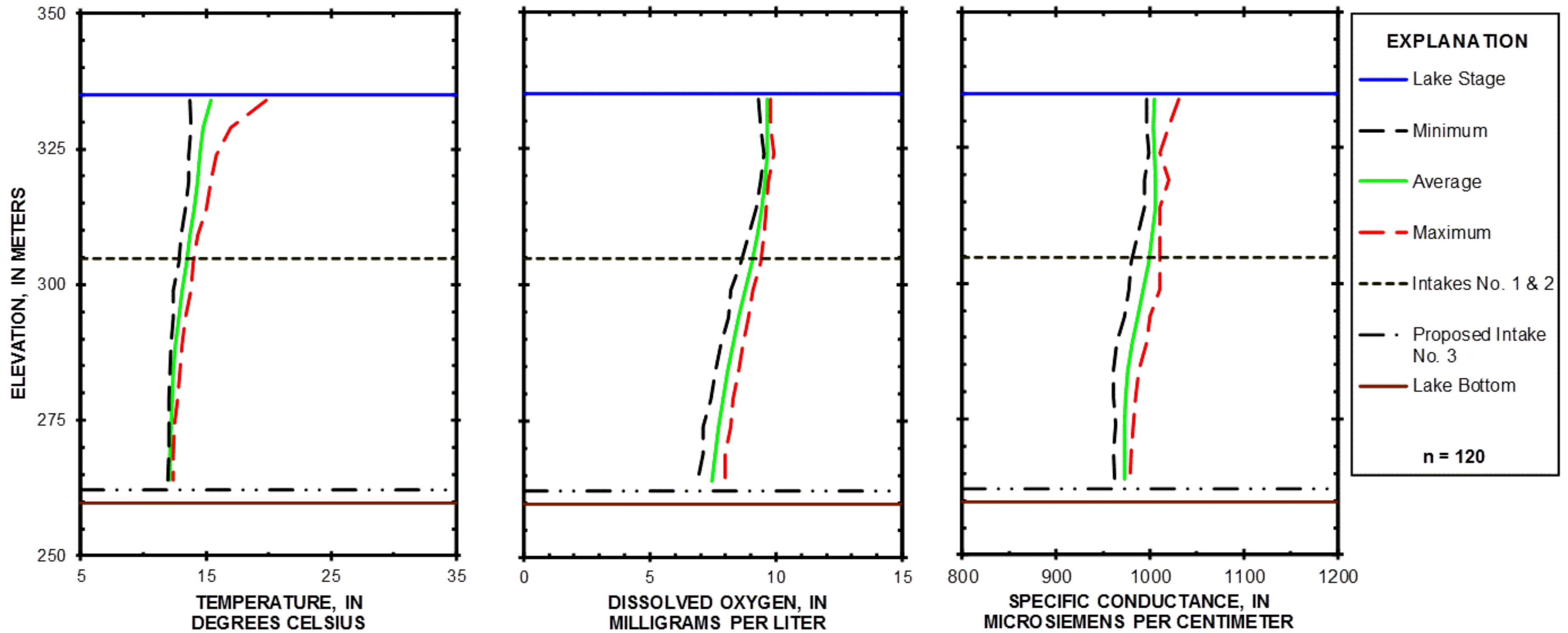
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 02-01-09 through 02-28-09



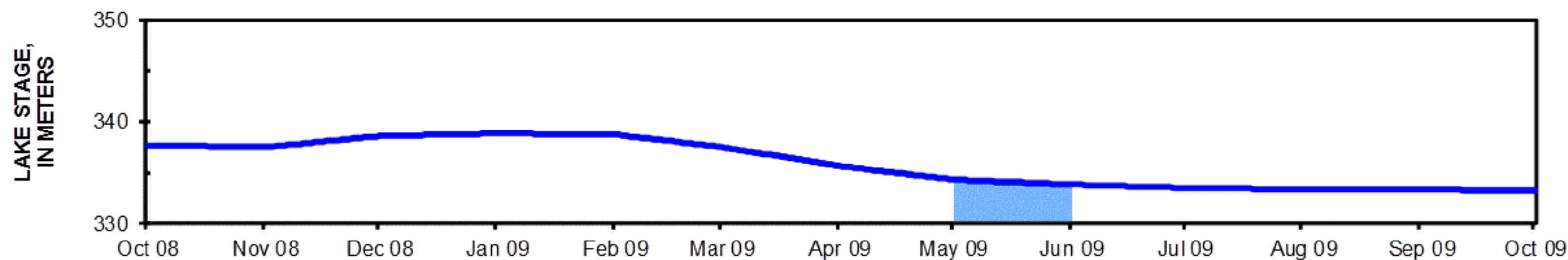
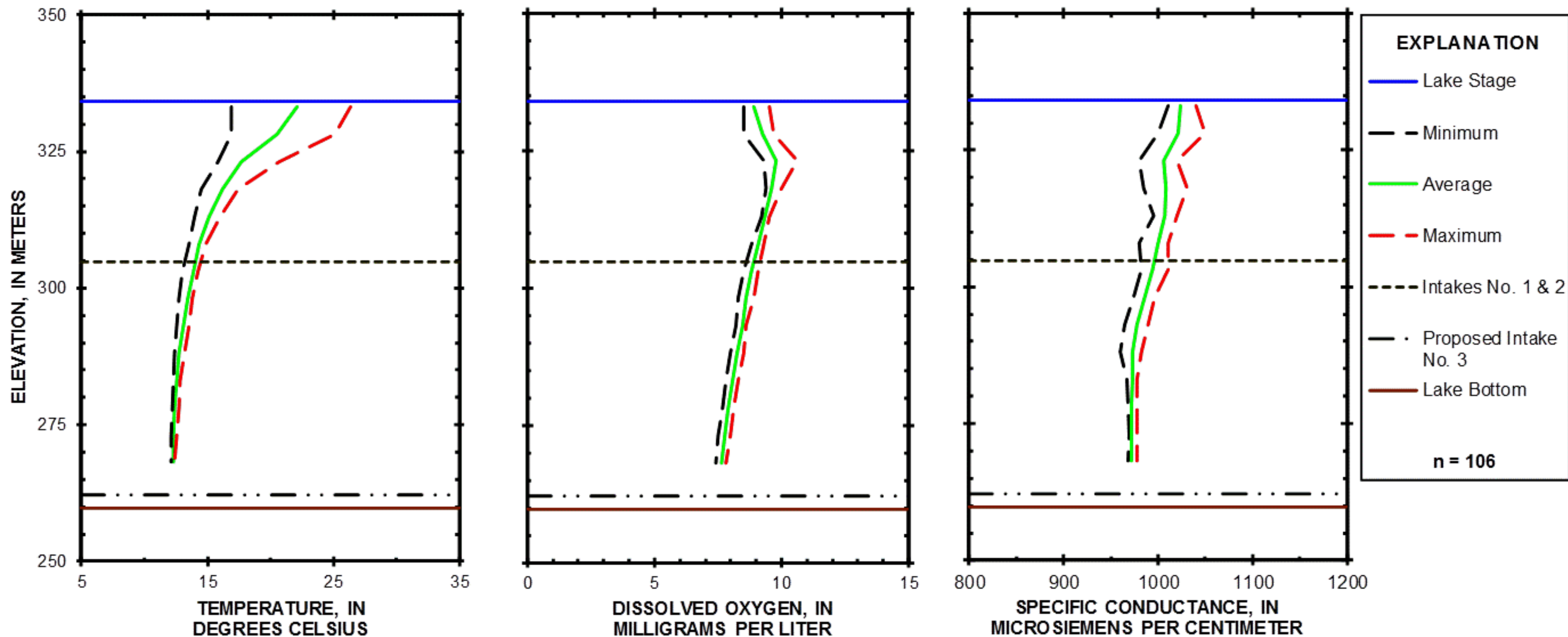
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 03-01-09 through 03-31-09



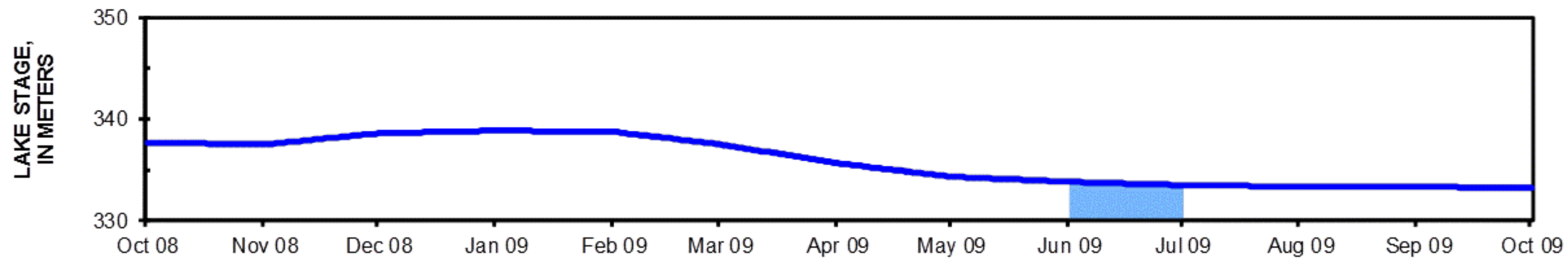
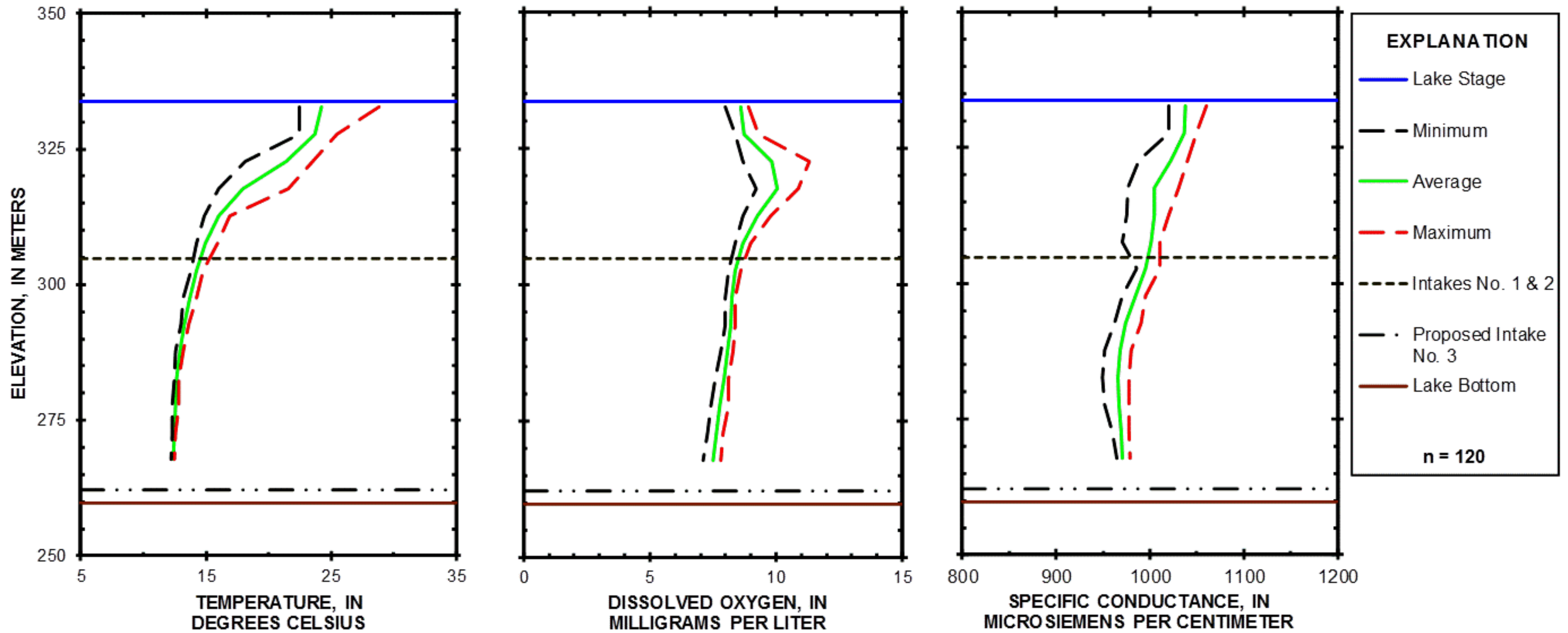
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 04-01-09 through 04-30-09



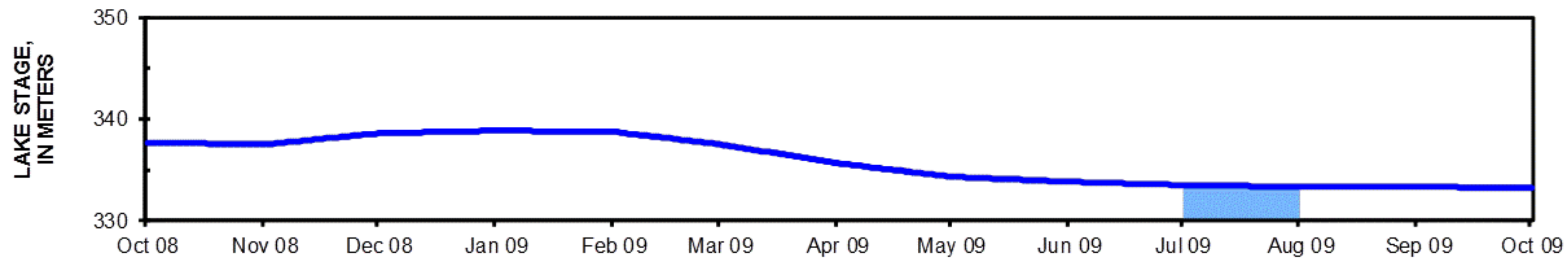
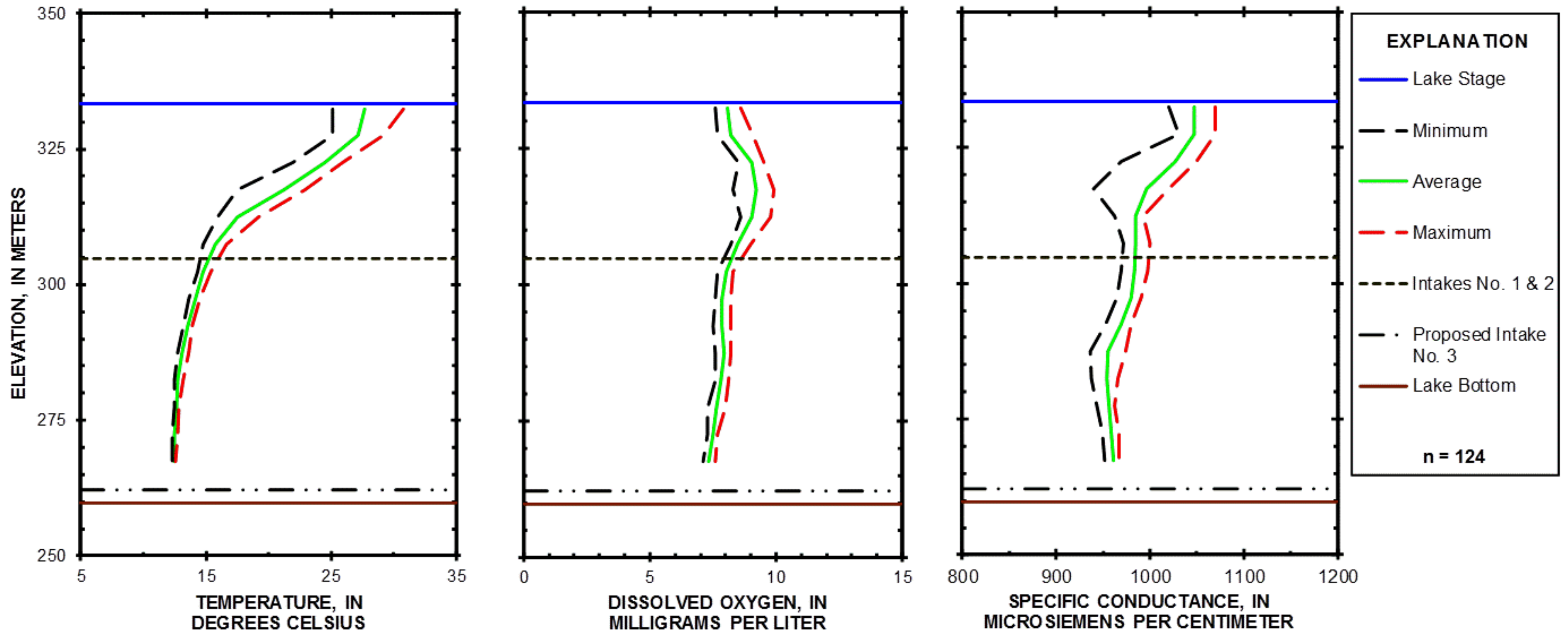
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 05-01-09 through 05-31-09



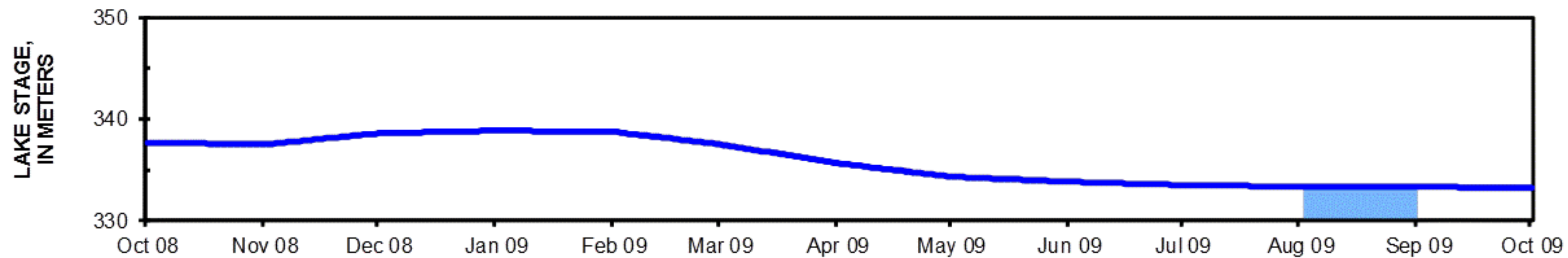
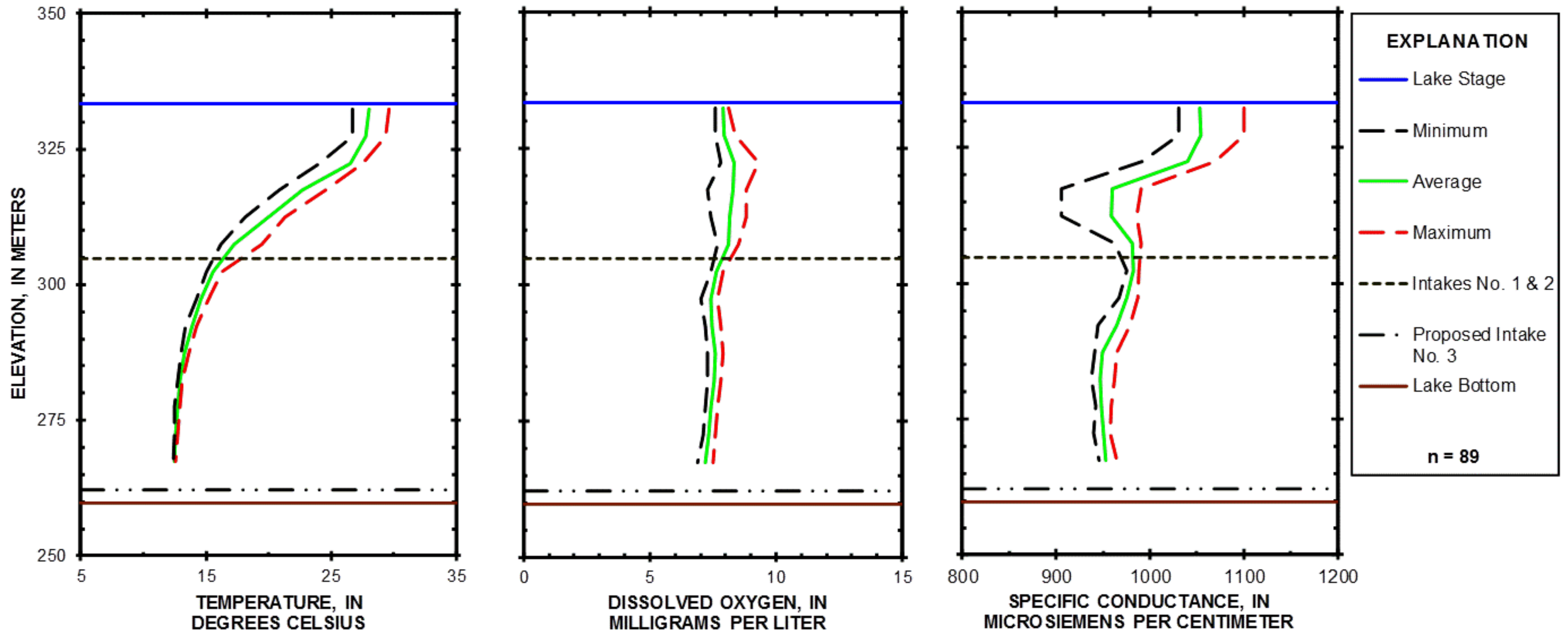
USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 06-01-09 through 06-30-09



USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 07-01-09 through 07-31-09



USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 08-02-09 through 08-31-09



USGS Water-Quality Monitoring Station, Sentinel Island, Lake Mead: 09-01-09 through 09-30-09

