

THE 2013 HYPOXIA WATCH PROGRAM

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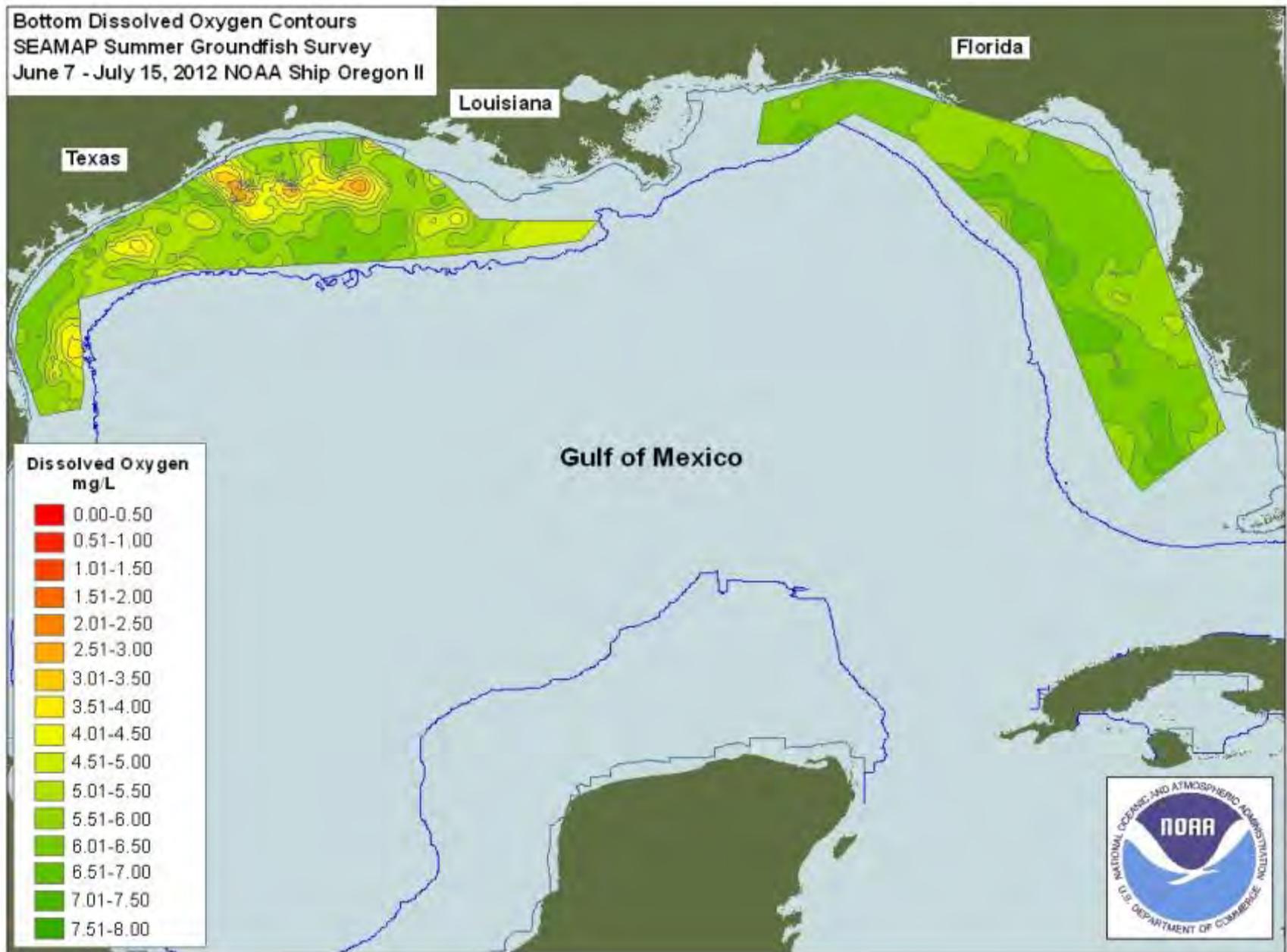


OBJECTIVE:

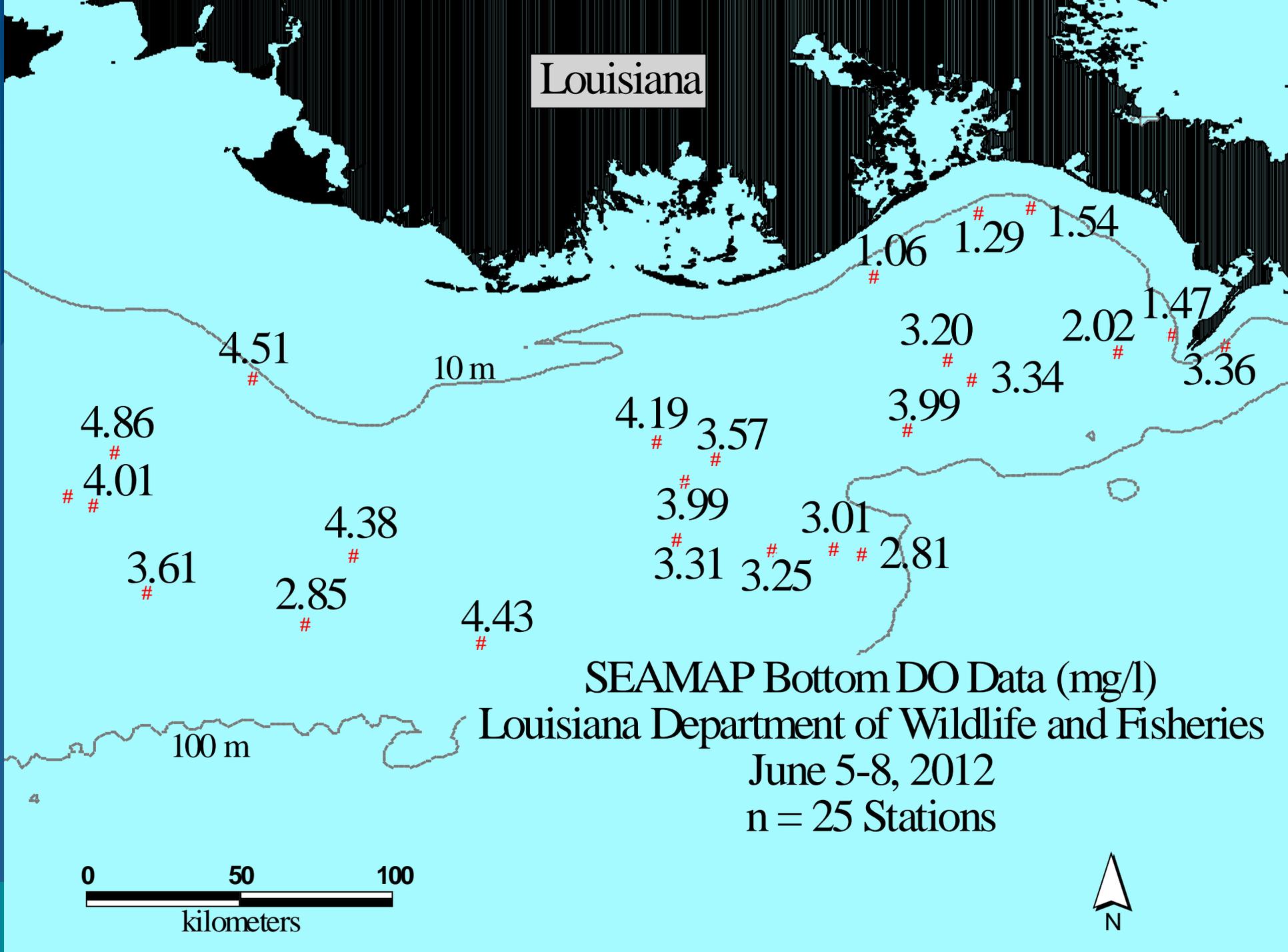
Generate maps of bottom dissolved oxygen (DO) in near real time (NRT) from data acquired by the NOAA Ship Oregon II during the SEAMAP summer bottom trawl survey.

- Maps of bottom DO are made publically available in NRT
- Collaborative effort between NCDDC, NMFS, and CoastWatch
- A lot of hard-working staff make this effort happen
- Example of NOAA partnership that works

Bottom Dissolved Oxygen Contours
SEAMAP Summer Groundfish Survey
June 7 - July 15, 2012 NOAA Ship Oregon II



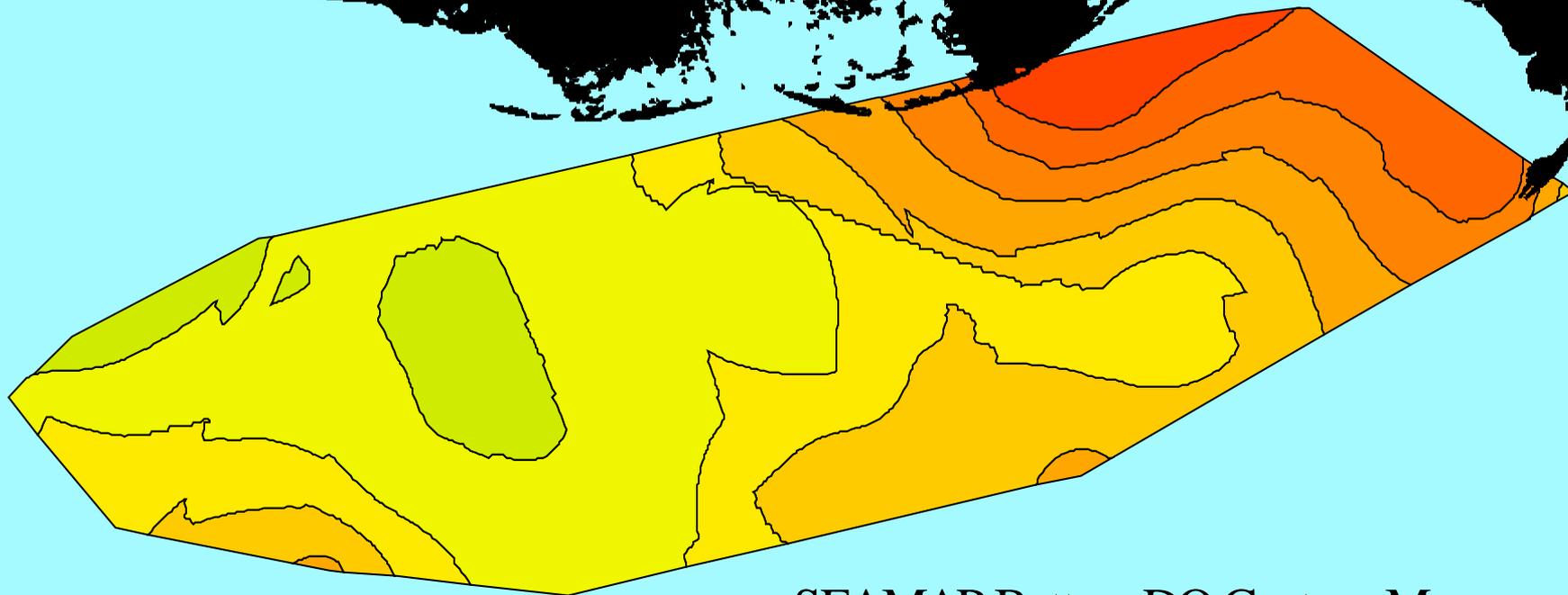
Louisiana



0 50 100
kilometers



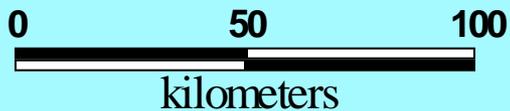
Louisiana



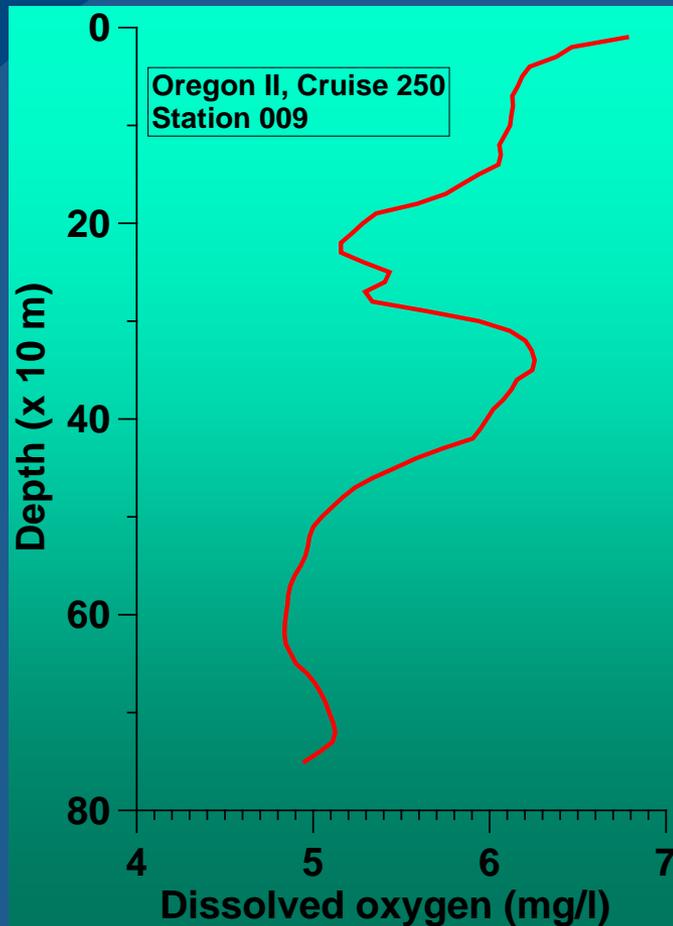
DO mg/l



SEAMAP Bottom DO Contour Map
Louisiana Department of Wildlife and Fisheries
June 5-8, 2012
n = 25 Stations



Process and Quality Control the Data using Sea-Bird Software



Processed variables:

- Depth (1 m bins)
- Density (kg/m^3)
- Water temperature (deg C)
- Salinity (PSU)
- Dissolved oxygen (mg/l)
- Percent oxygen saturation
- Beam transmittance (%)
- Fluorescence (mg/m^3)

NODC ARCHIVE ENVIRONMENTAL PROFILES SEAMAP SUMMER GROUND FISH CRUISES

- 2001-2008, n = 1,519 profiles, accession number: 0069702
- 2009-2012, n = 1,025 profiles, accession number: TBA

ACQUISITION OF COLLATERAL DATA SEAMAP SUMMER BOTTOM TRAWL SURVEY

- Collection of biological specimens
- Water samples for nutrient analysis
- Data for large marine ecosystems models, e.g., stomach contents
- Glider deployment and retrieval
- Deployment of other sampling gear

FY2013 OPERATIONS PLAN

- Three cruise legs: June 7 – July 19
- Anticipate data about June 11th
- E-mail lists for DO data
 - ◇ Bottom DO file (2001-present, CSV format)
 - ◇ Environmental profiles (2011-present, Sea-Bird ASCII format)
- No point DO data or environmental profiles will be distributed from the web site

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