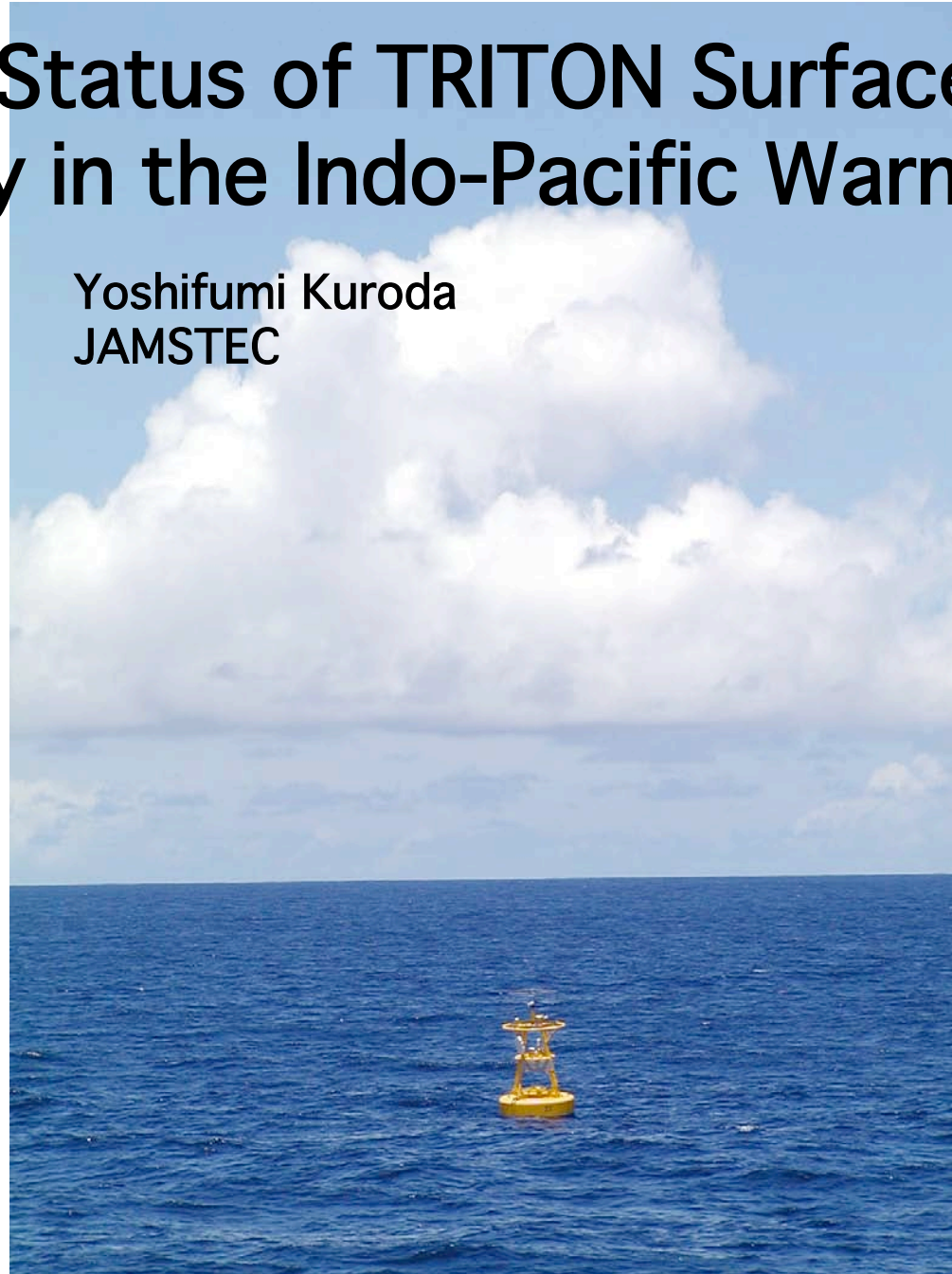
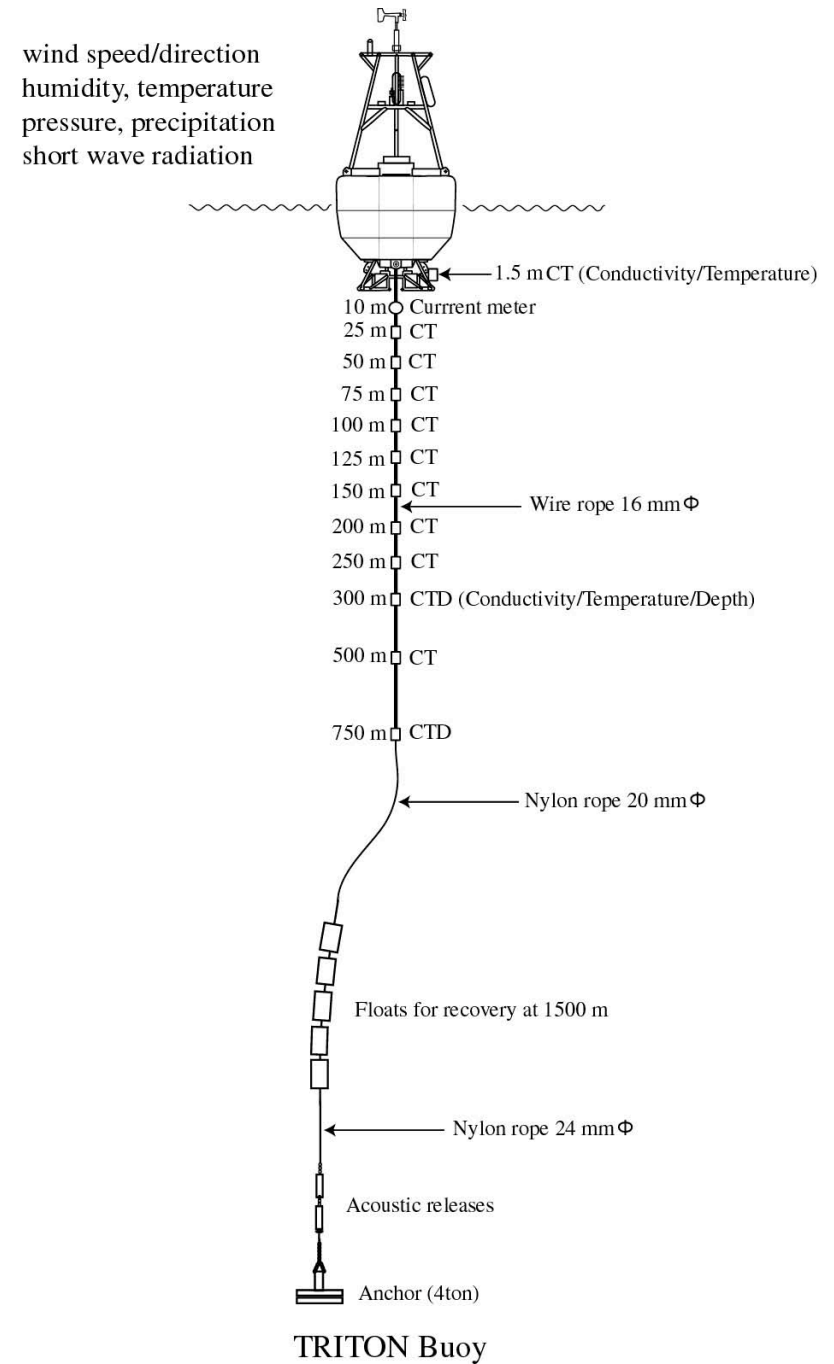


Present Status of TRITON Surface Mooring Array in the Indo-Pacific Warm Pool

Yoshifumi Kuroda
JAMSTEC



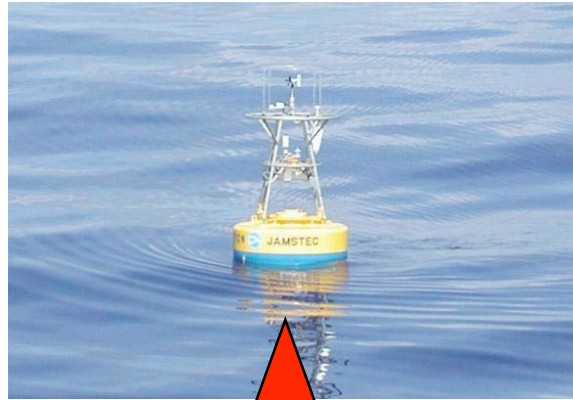
Configuration of the TRITON



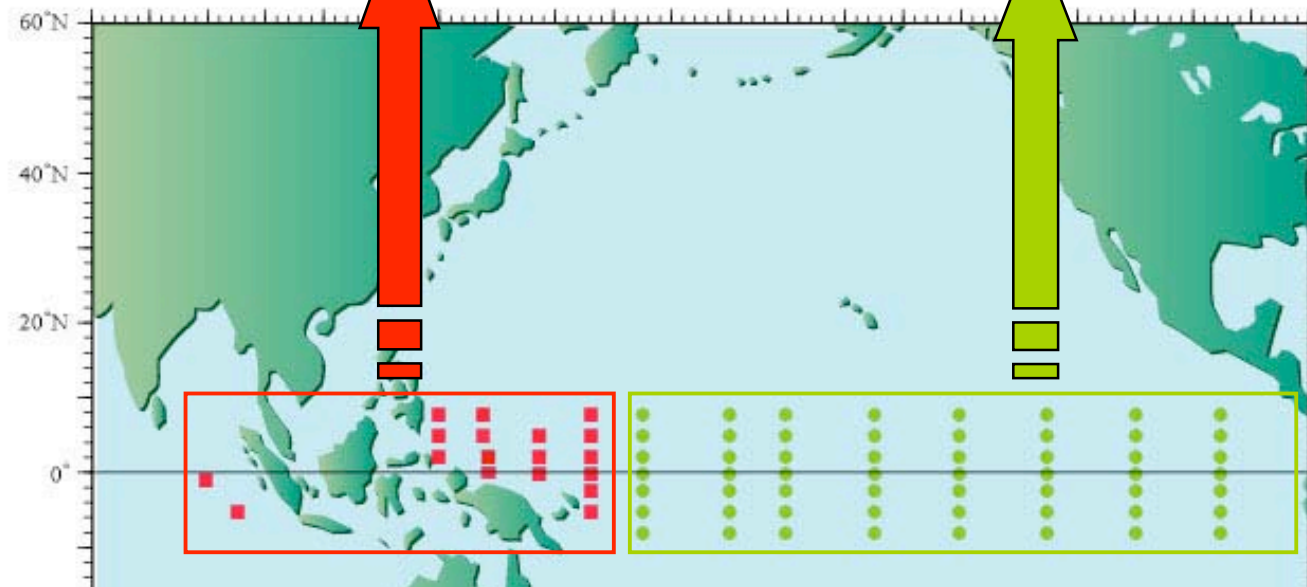
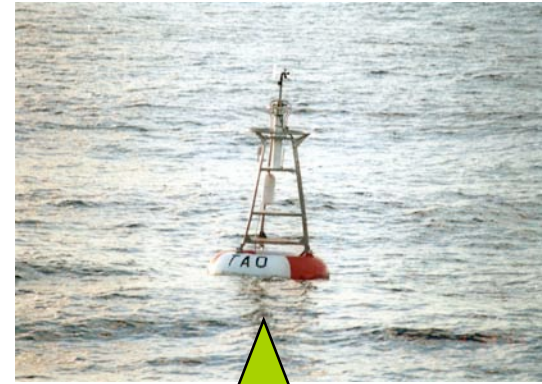


TRITON buoy and R/V *Mirai*

JAMSTEC/TRITON buoy



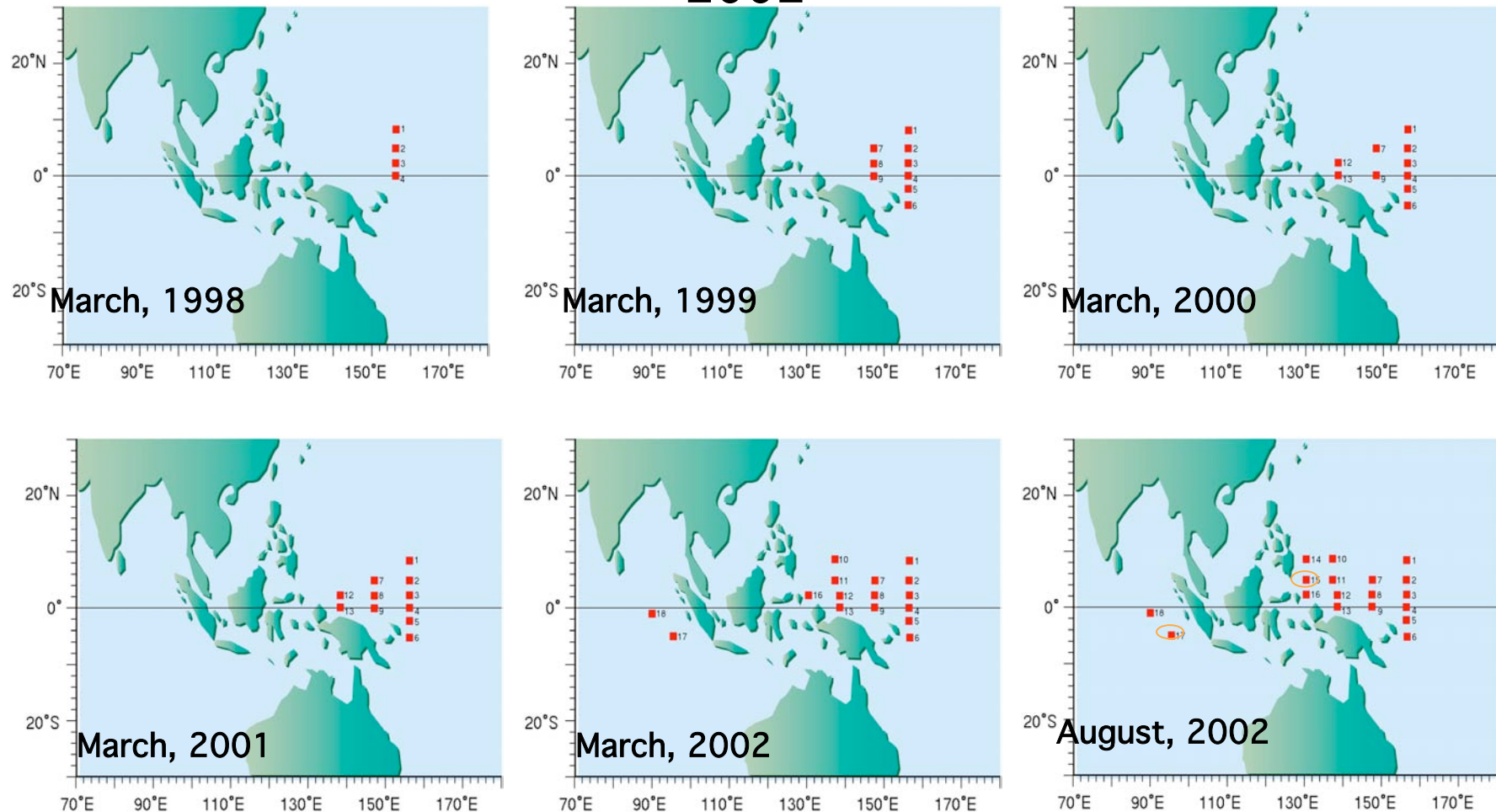
PMEL/TAO buoy



Purposes are;

- 1. Monitoring El Nino with TAO array as the TAO/TRITON array**
 - 2. Air-sea interaction study over the warm pool area in the western Pacific**
- Improvement of the predictability of El Nino**

Development of TRITON buoy array from 1998 to 2002



Purposes;

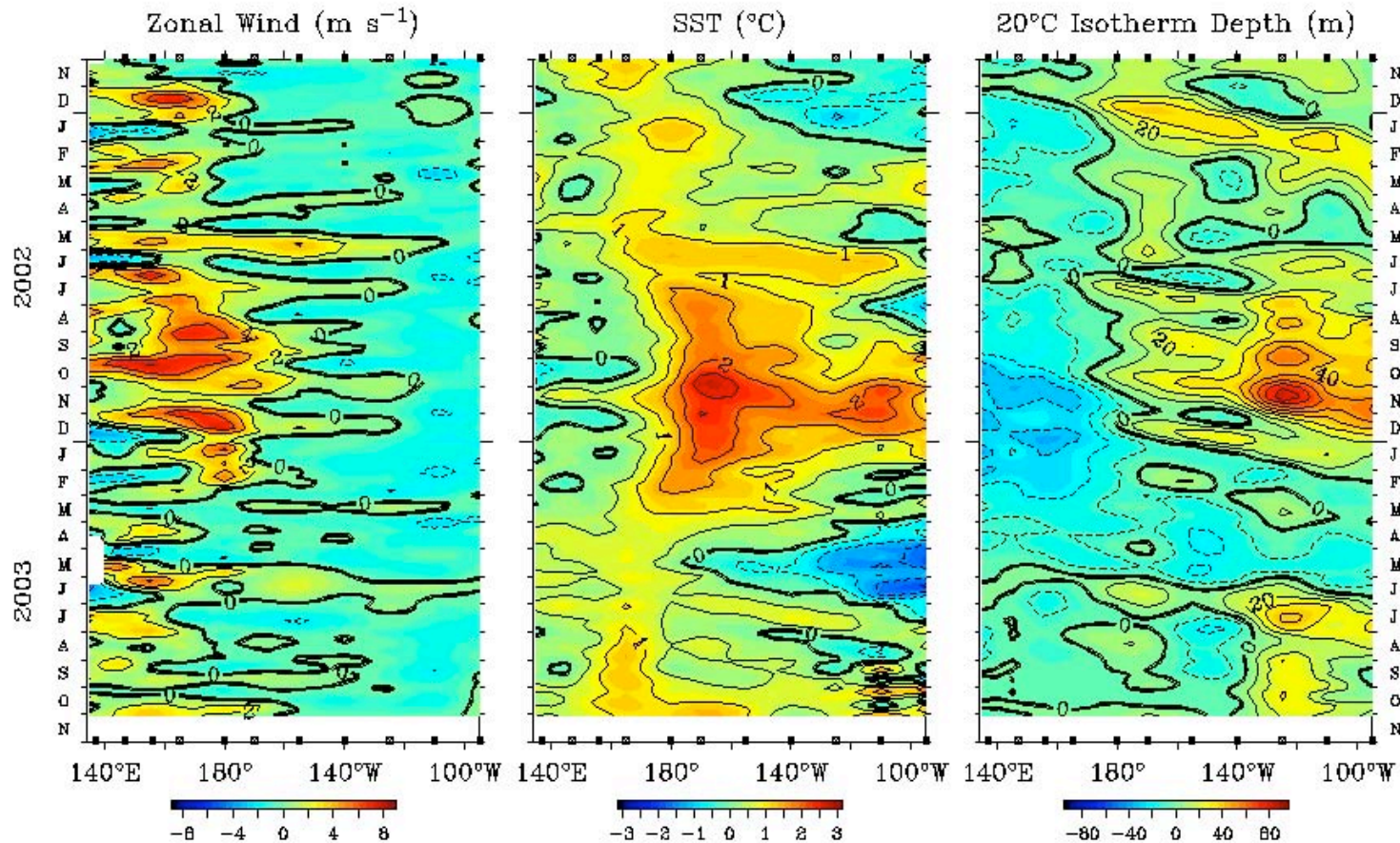
1. Monitoring ENSO as TAO/TRITON array
 2. Air-sea interaction over the Pacific and Indian Ocean warm pool
 3. Variability of temperature and salinity in the warm pool
- Improvement of the predictability of El Nino

TAO/TRITON array data

Successfully monitored 2002-03 El Nino

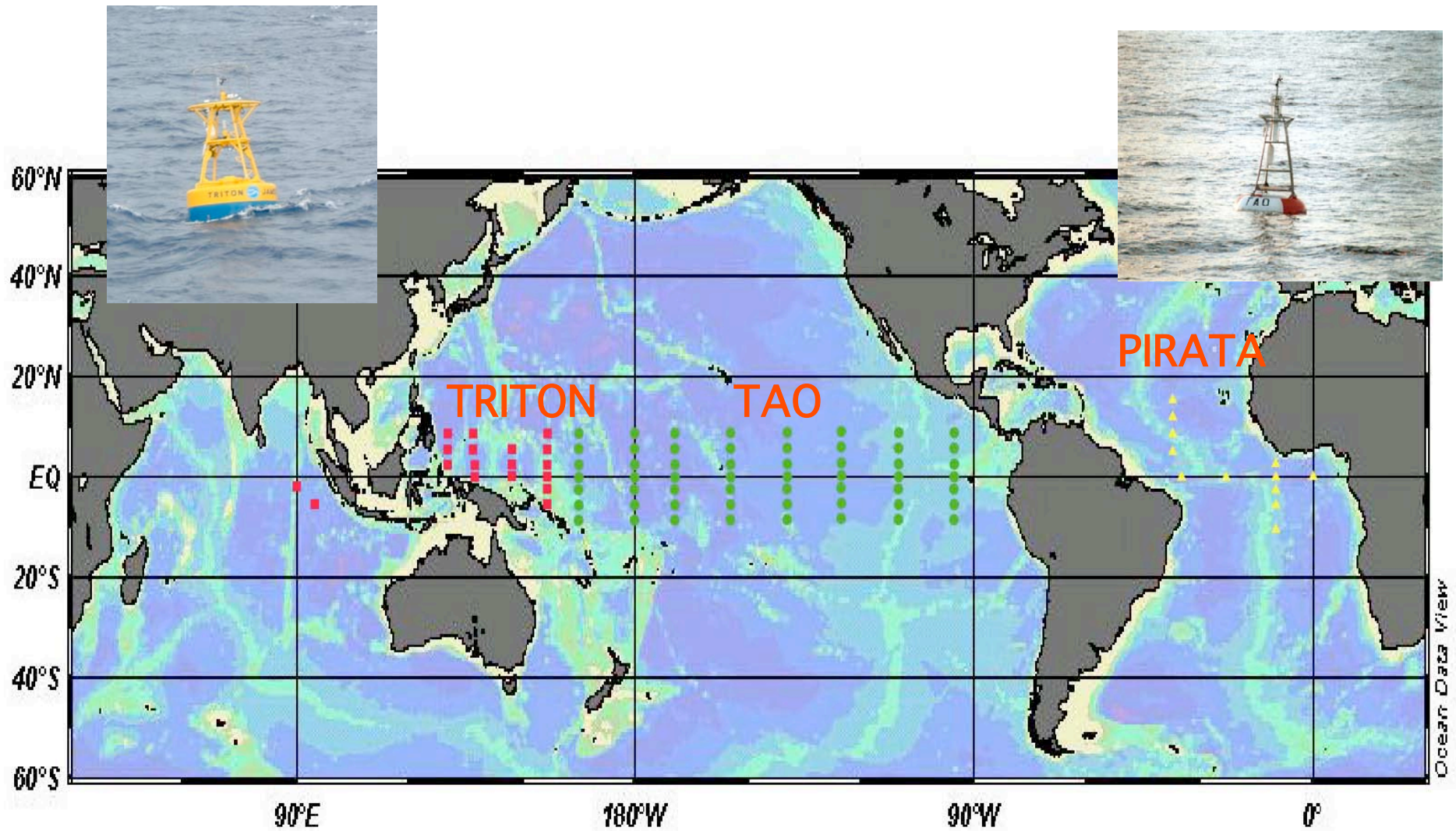


Five Day Zonal Wind, SST, and 20°C Isotherm Depth Anomalies 2°S to 2°N Average



New TRITON web page to be appeared from May 2004

The screenshot shows a Microsoft Internet Explorer browser window titled "TRITON data graph display - Microsoft Internet Explorer". The address bar contains the URL "http://192.168.22.36/html/index.html". The main content area displays the "TRITON data display" web page. On the left, there is a vertical menu with links: "Buoy summary plots", "Lat-Lon plots", "Timeseries plots", "Section plots", "TS diagrams", and "Data availability". The central part of the page is titled "Buoy summary plots" and features a grid of small plots. The columns are labeled with buoy IDs: "90E", "95E", "130E", "137E 138E", "147E", and "156E". The rows are labeled with latitudes: "8N", "5N", "2N", and "EQ". A mouse cursor is hovering over the plot for buoy 147E at 5N. To the right of the grid, there is a sidebar with links: "TRITON home", "Data display", "Data delivery", and "Information". Above the sidebar is a small image of a yellow buoy. The browser's status bar at the bottom shows "javascript:void(0)" on the left and "インターネット" (Internet) on the right.



Tropical mooring array at present

- TRITON (JAMSTEC)
- TAO (PMEL)
- ▲ PIRATA

What TRITON faces at present, and what is next step?

- Leveled fund makes difficult to maintain full array.
- Improvement the buoy technologies to make low cost for maintenance and easy deployment is necessary to sustain and expand the array.
- Ship time shortage (one time service at each location) makes difficult to keep the health of buoy.

R/V Varuna Jaya, BPPT, Indonesia



2003 11 19



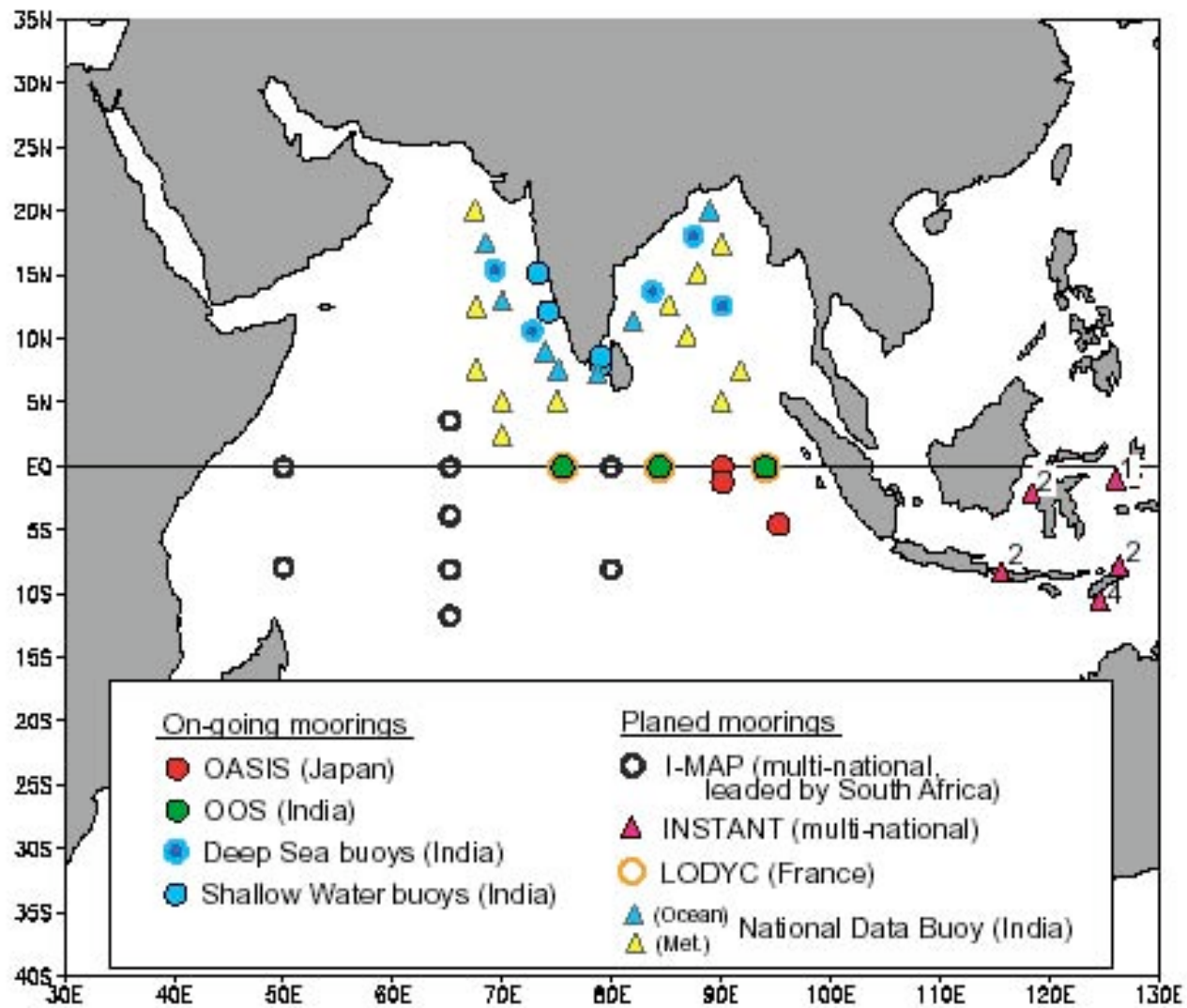
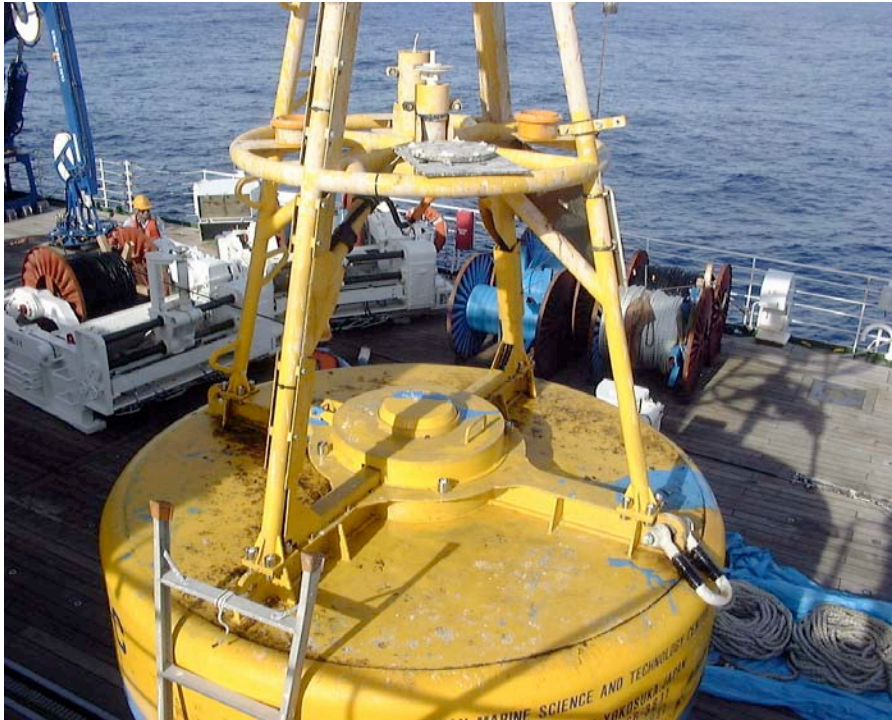


Figure1: Locations of the on-going and planned mooring lines.
 Suffixes for INSTANT buoys indicate the number of moorings nearby.

Damages of 5S,95E buoy

deployment 26 October 2001
recovery 3 August 2002



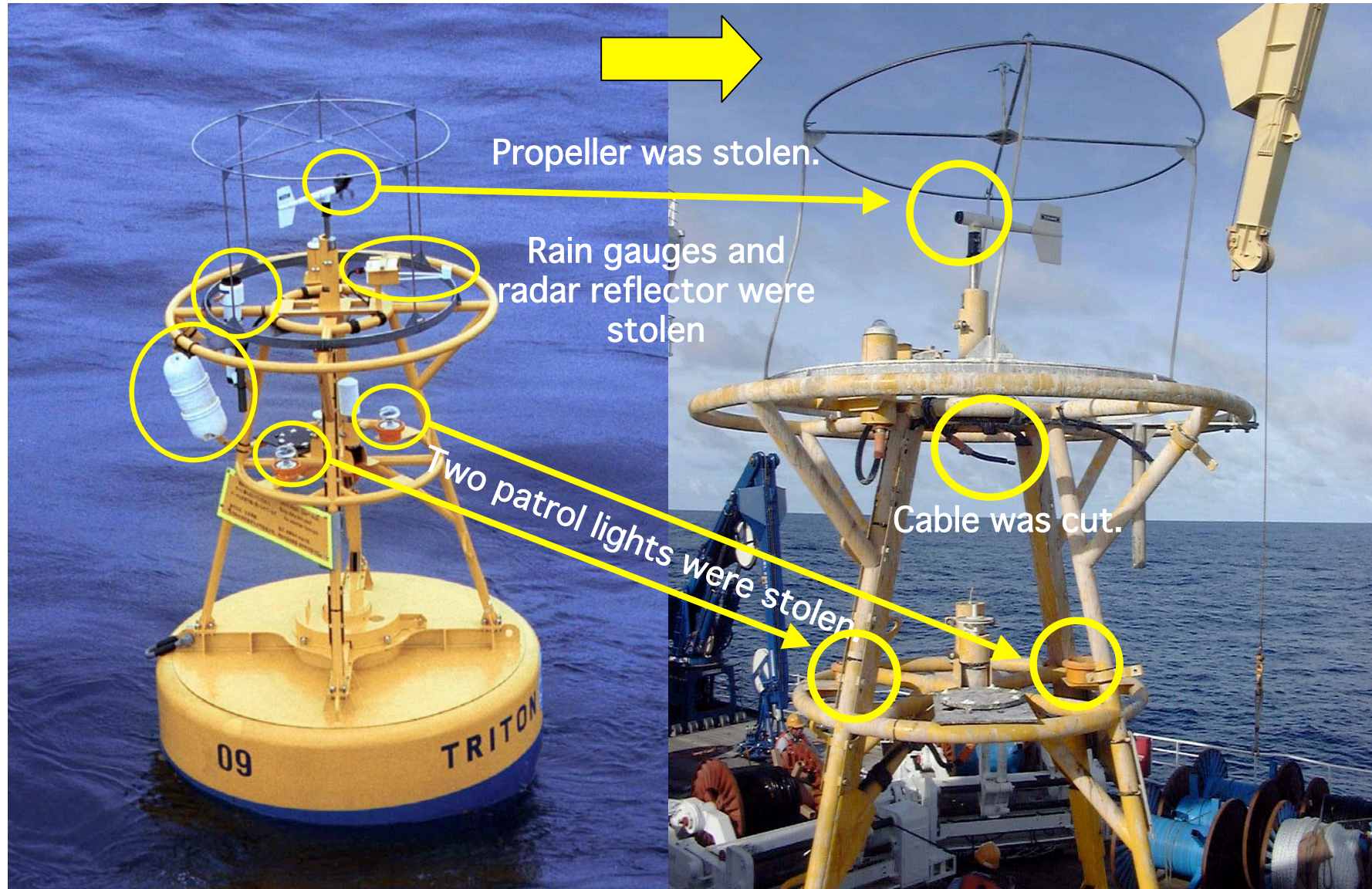
The float was splashed with blue paint.



Fishing lines entangled at a CT sensor.

Damages of 5S,95E buoy

deployment 26 October 2001
recovery 3 August 2002



Pacific Ocean

TRITON data:

Water mass in time
 a Ima hera Eddy

