

Relationship with International Bodies and Other Relevant On-going Projects

Viewpoints

1) Endorsements

WWRP/WG on Tropical Meteorology Research

WCRP/CLIVAR Indian Ocean Panel (with GOOS)

Monsoon Panel (with GEWEX)

2) Collaboration

TPOS2020

IIOE-2 / EIOURI

S2S & MJO-TF, ...

WMO/WWRP

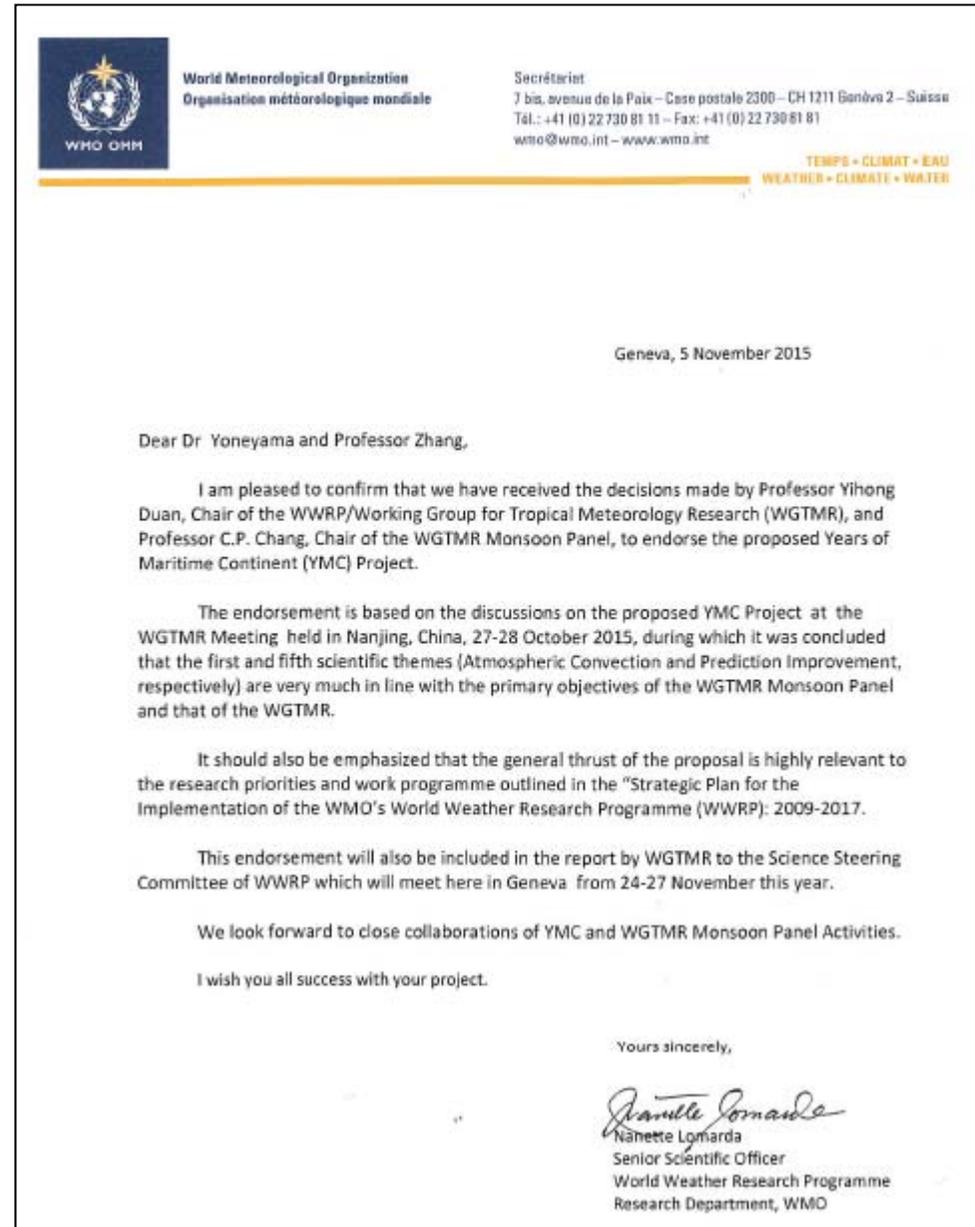


WG on Tropical Meteorology has endorsed YMC based on discussion at their annual meeting in Nanjing, China on 27-28 Oct.

They requested the tight interactions with other WWRP's projects (ex. S2S, PPP) for monsoon and modeling study.

They also recommend SSC of WMO/WWRP to endorse YMC. Thus this will be reported in their annual meeting in Geneva, 24-27 November.

WGTRM Chair: Yihong Duan (CMA)
Monsoon Panel Chair: C. P. Chang (NPS)
WWRP Contact: Nanette Lomarda



Need to be RDP or FDP of WMO/WWRP?

RDP (Research & Development Project)

RDP is to undertake the necessary R&D leading to the development and demonstration of improved and cost effective forecasting techniques, with emphasis on high impact weather, and to promote their application among Member States.

FDP (Forecast Demonstration Project)

FDPs are projects that will serve to exhibit and formally quantify the benefits to be derived from improved understanding and enabling technologies. The improved understanding and technological advances, the benefits of which are to be demonstrated, may or may not be a direct consequence of other WWRP activities. FDPs will involve the dissemination of forecast information to real users in real time.

Only Permanent Representative can propose and take this role.

WCRP/CLIVAR-related

GEWEX/CLIVAR Monsoon Panel

Co-chairs: Andy Turner , Paul Dirmeyer

It “was” planned to discuss how to interact with YMC, and they also intended to endorse the YMC with IOP, if the Panel meeting were held in Paris, in mid-November.

CLIVAR/GOOS Indian Ocean Panel

Co-chairs: Jerome Vialard, M. Ravichandran

Discussion on the interaction with YMC will be made at the IOP annual meeting in Goa, 7-8 December. They request to show the summary of oceanic observations and climate-variability related aspects of YMC. They expect the interaction between YMC and EIOURI.

Any Other Else?

By expecting the synergy born from the collaboration, interaction with other projects may provide one avenue to achieve the common goals effectively.

Ex. Tropical Pacific Observing System (TPOS) 2020

IIOE-2 & EIOURI

S2S & MJO-Task Force

Tropical Pacific Observing System (TPOS) 2020 Project

Background

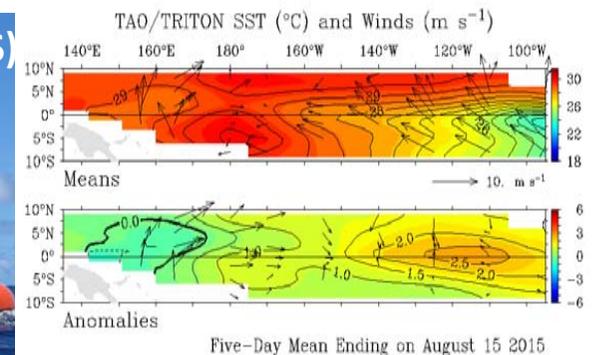
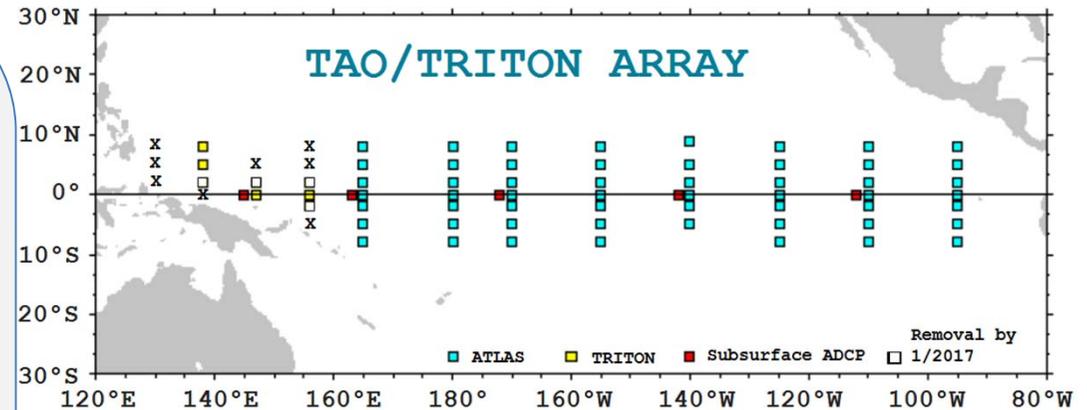
Original TAO surface mooring array (basis of TPOS) was designed to detect ENSO in 1980s.

TAO/TRITON array was completed in 1990s and maintained as multilateral efforts.

Situation has been changed due to technical and scientific problems.

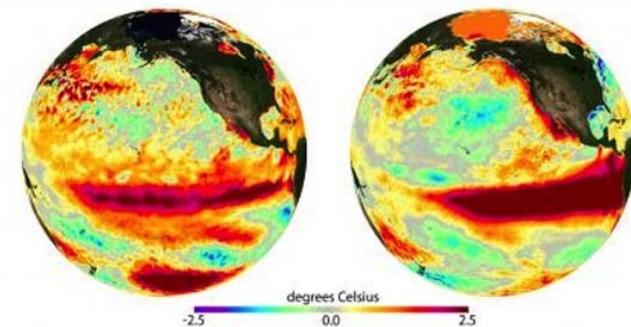
- 1) **Vandalism**
- 2) **Insufficient ship-time**
- 3) **New technology (not a problem)**
- 4) **El Nino-modoki**

<http://tpos2020.org/>



December 2009

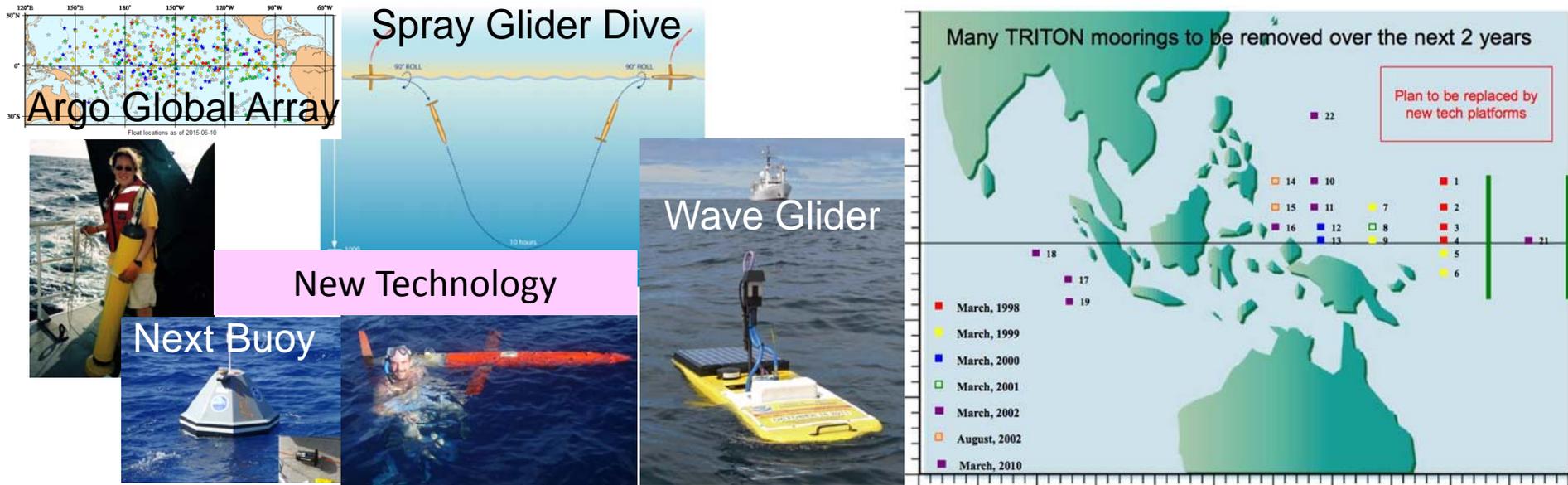
December 1997



ENSO Diversity

Tropical Pacific Observing System (TPOS) 2020 Project

Goal: To redesign and refine TPOS to observe ENSO and advance understanding of its causes.



All figures taken from <http://tpos2020.org/>

TPOS Governance

Steering Committee Co-chairs:

W. Kessler (NOAA), N. Smith (retired, BOM)

Task Forces Chairs

Backbone Observing System:

S. Cravatte (Centre IRD de Noumea), S. Wijffels (CSIRO)

Modeling and Data Assimilation:

A. Kumar (NCEP)

Biogeochemistry:

P. Strutton (Univ of Tasmania), A. Sutton (NOAA)

Planetary Boundary Layers:

T. Farrar (WHOI), M. Cronin (NOAA)

Eastern Tropical Pacific:

K. Takahashi (Instituto Geofisco del Peru), B. Kessler (NOAA)

Tropical Pacific Observing System (TPOS) 2020 Project

[Action 27]

The Steering Committee agrees to create a [joint Working Group with YMC](#), with the scope and membership as above and subject to agreement with the YMC, and reporting through the PBL [PBL TT Co-Chairs proposal to YMC through Weidong Yu, Nov 2015].

---> Members: Chidong Zhang, Chris Fairall, Harry Hendon,
Ken Ando, Yukio Masumoto, Iwao Ueki, Jae Hak Lee,
Meghan Cronin, Tom Farrar

[Action 28]

An elaborated outline of possible joint work on the YMC to be developed [PBL TT Co-Chairs, Mar 2016].

---> ? [YMC will be a pilot study for TPOS ...](#)

On-going & Planned Multilateral Projects



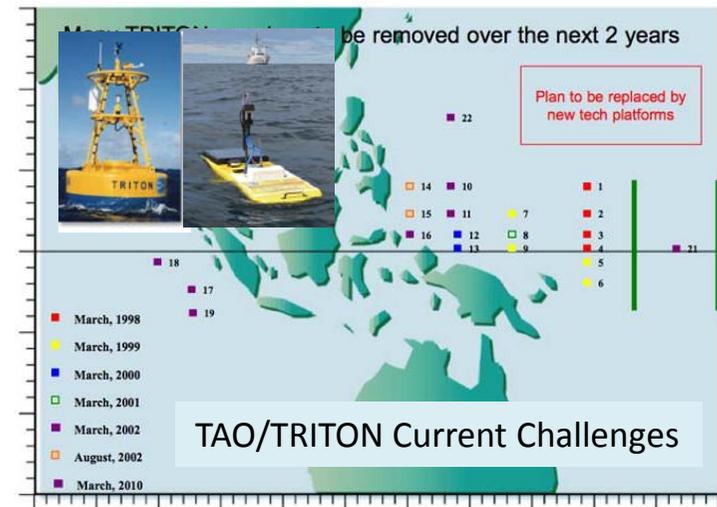
GO-SHIP 2012-2023 Survey (53 Lines)

Status June 2015



GO-SHIP

Repeat hydrography for global climate change study based on direct measurement using ships



TPOS

Redesign & refinement of observing system based on modern science & new technology