



SynObs Web Meeting 9

Agenda

1. Report of the Argo Steering Team Meeting, focusing on the collaboration between OceanPredict and BGC Argo (by P. Oke)
2. Report on other meetings (by Y. Fujii)
3. Current status of the SynObs database (by S. Kido)
4. Communication and discussion on the flagship OSEs ▪ OSSEs
5. Other communications

★ Report on the Argo Steering Team Meeting by P. Oke



★ Report of other meetings

◆ OSM24 (Feb. 18-23)

- Y. Fujii made an in-person oral presentation for introducing SynObs
- Some other presentations related to SynObs (NASA GMAO, ECCC, NOAA QUOSAP)

◆ Ocean Decade Conference (Apr. 8-12)

- E. Remy made a poster presentation
- Y. Fujii and E. Remy contributed to the Ocean Observing Co-Design satellite event.
- Information sharing with Co-design Exemplar people, GOOS people, CoastPredict people, OceanPrediction DCC people, TPOS, Argo, MEAP-TT, etc.
- Discussed about Ocean Decade Vision 2030

◆ EGU24 (Apr. 14-19)

- Y. Fujii made a remote oral presentation for introducing SynObs (virtual)
- A. Peterson also present the SynObs OSE results in ECCC.

◆ 8th WMO Observation Impact WS (May 26-30th)

- SynObs presentations: Y. Fujii (Keynote), M. Balmaseda (Oral), E. Remy (Poster), J. Water(virtual), A. Peterson (virtual)
- Many other presentations by SynObs supporters and related to ocean predictions
- Good chance to appeal SynObs activity to WMO

★ Current Status of the SynObs Database by Shoichiro Kido



★ Communication and Discussion on the Flagship OSEs/OSSEs

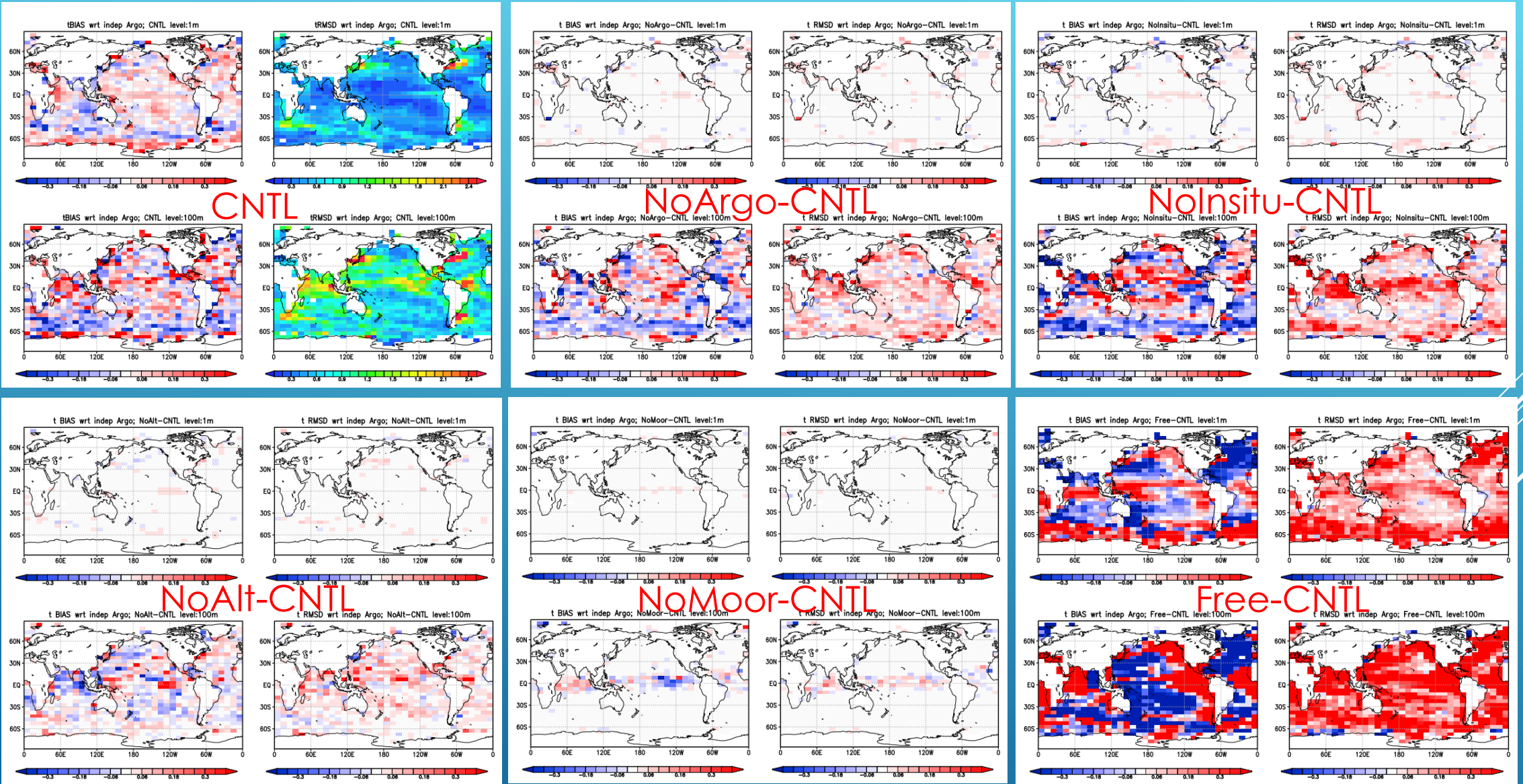
- ❑ A couple of analysis OSE results are already submitted.
- ❑ We expected some OSE results are planned to be submitted.
- ❑ But the number of OSEs is smaller than we initially expected and may not be sufficient.
 - Can we recruit some new groups to participate in the flagship OSEs?
- ❑ For OP OSEs, we plan to create a couple of figures using the multi-system result and use them in the WMO Impact workshop presentations.
 - Comparison of difference between OSE and CNTL in SSH and T50m?
 - Horizontal distribution or vertical Profiles of RMSE difference w.r.t. Argo?
 - Multi-system ensemble spread?
- ❑ Execution of S2S OSEs is delayed in ECMWF and NOAA/CPC.
 - It is difficult to include S2S multi-system results in the WMO Impact WS presentation
 - Also, only OP OSE results are likely to be used in the Frontiers editorial paper.
 - Writing of the BAMS paper is withheld until S2S OSE analysis are completed.
- ❑ Preliminary OSSEs are currently prepared in NOAA QUOSAP.

BIAS

RMSE

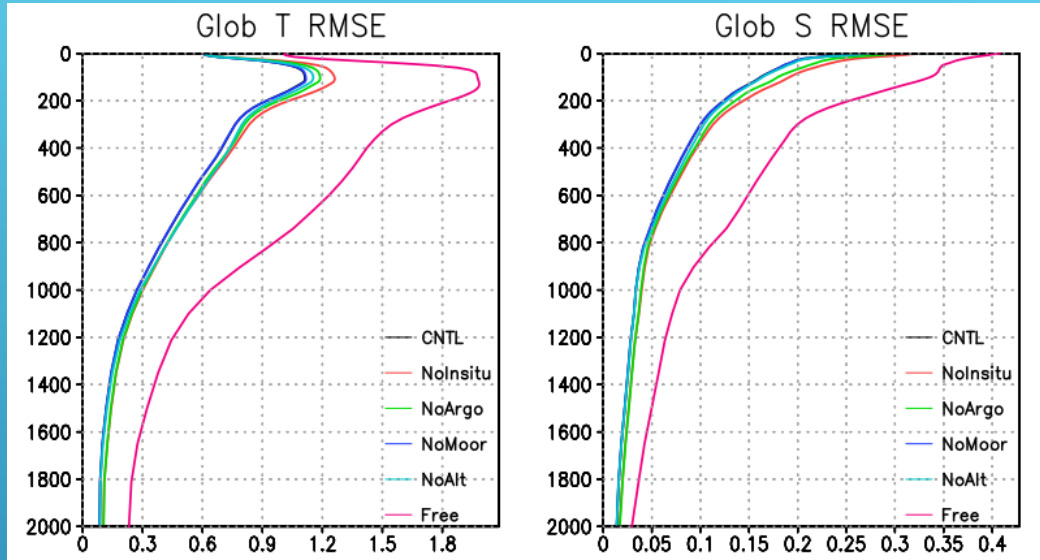
Surface

100m

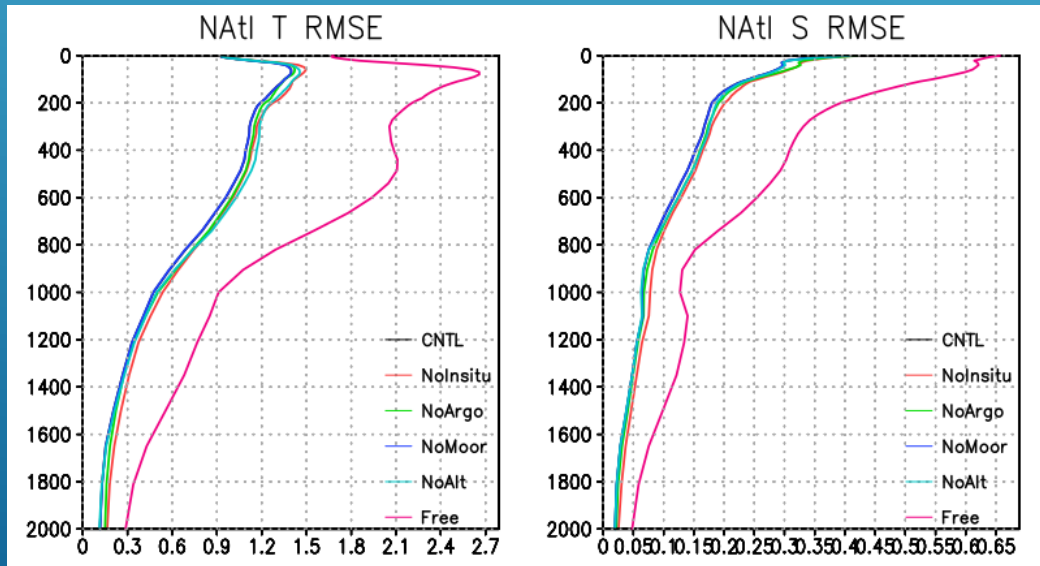
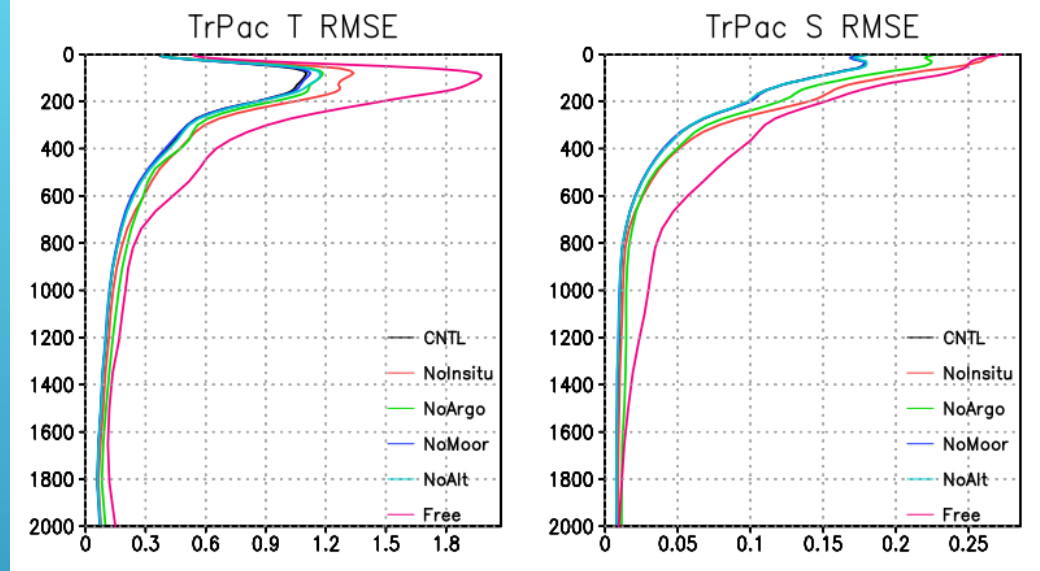


Difference of Bias and RMSEs w.r.t Independent Argo

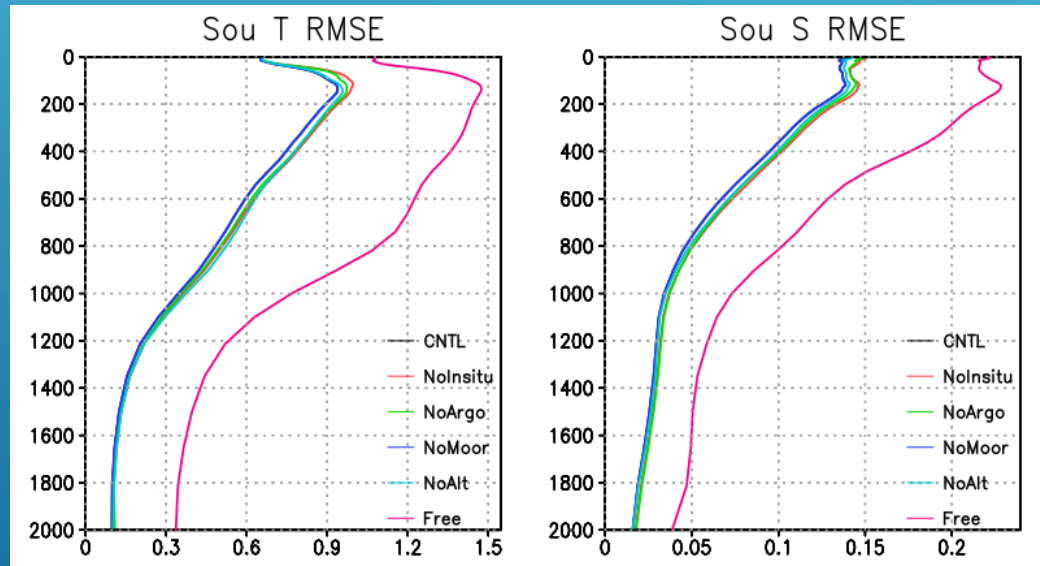
Global



Tropical Pacific (20S-20N,120E-80W)



N. pac. (20N-60N,100W-10E)



Southern Ocean (90S-30S)

Difference of Bias and RMSEs w.r.t Independent Argo

★ Other Communications

- Frontiers in Marine Science Special Collection
 - Manuscript Submission deadline: Jul. 1
 - 20 manuscript (?) are planned. 7 are under review and 3 are already accepted.
 - Accepted papers will be published online without waiting for other papers to be accepted.
- Please input information of literature contributing to SynObs for the annual activity report to IOC.
(Deadline: Apr. 30)
[https://docs.google.com/forms/d/e/1FAIpQLSeC4fa75O5awt3hmeCBtB2h5AuUqbwbVJLEURi-Pm9ff4mYuw/viewform?usp=sf link](https://docs.google.com/forms/d/e/1FAIpQLSeC4fa75O5awt3hmeCBtB2h5AuUqbwbVJLEURi-Pm9ff4mYuw/viewform?usp=sf_link)
- Next Meeting: First half of June?