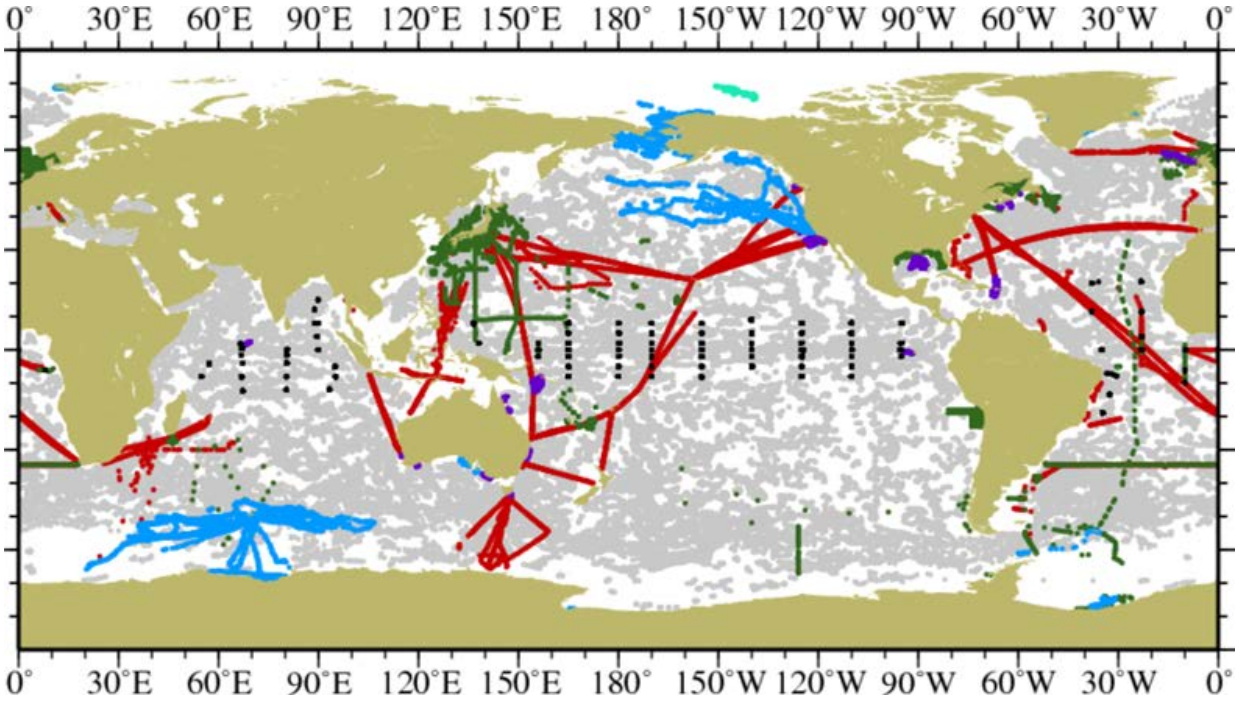
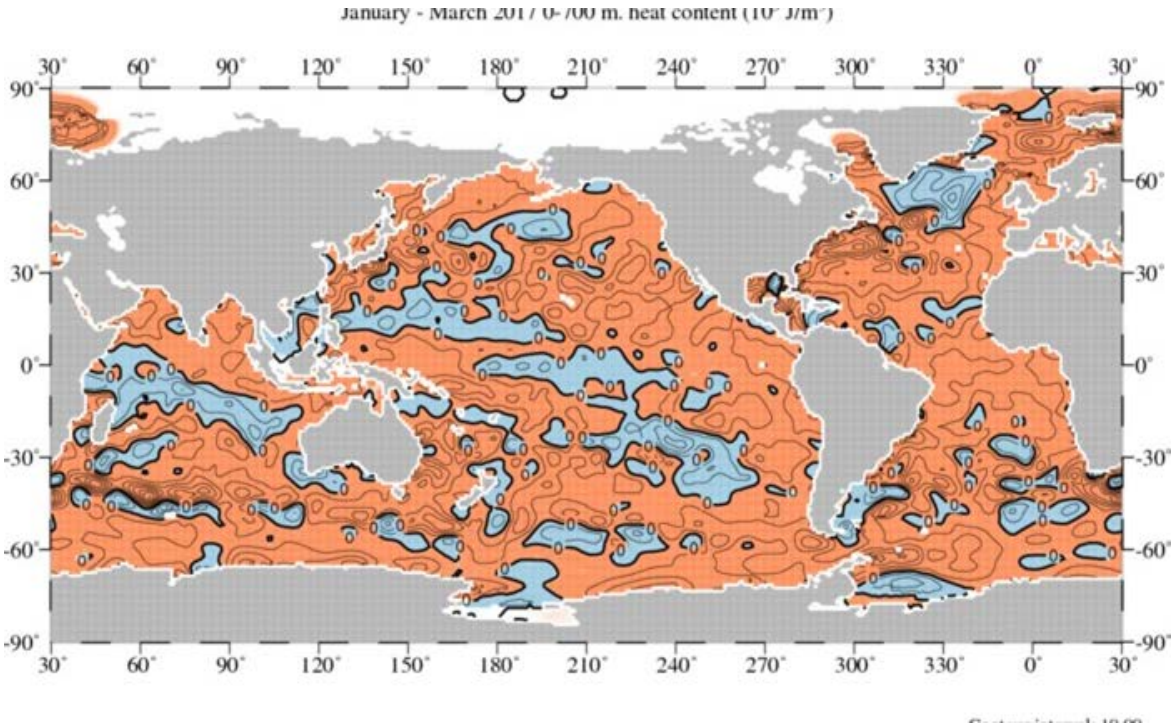


Grey - Argo cycles
Dark Green - CTD casts
Purple - Glider dives
Black - moored buoy series
Red - XBT drops
Blue - pinniped dives
Light Green - Ice Tethered profilers

Oct. 2016 - Mar. 2017 subsurface data input
World Ocean Database brings it together



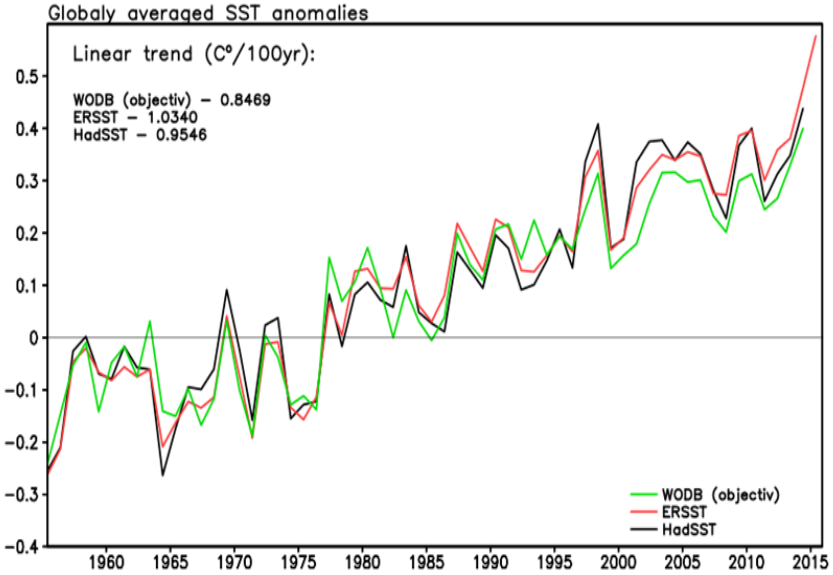
Quarterly Heat Content (+ temperature/salinity anomalies/steric sea level) out to users. Above Jan. - Mar. 2017 Heat Content anomaly
Blue=below long term average (1955-2006)
Red = above long term average (1955-2006)
Units= 10^5 joules/m^3

Improvements coming soon:

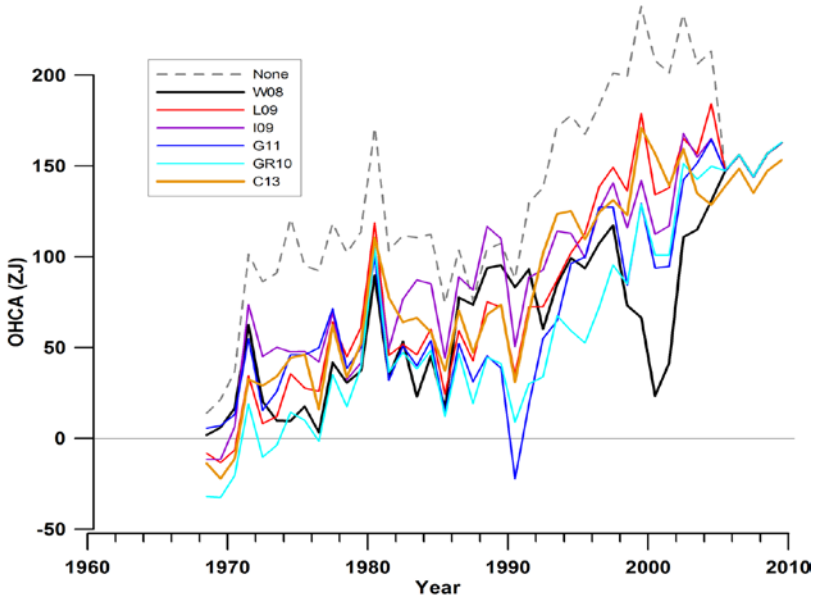
> more slices (57 depth intervals instead of 2)
> full values (temp/sal anomaly + long term mean)
> units change
> add mixed-layer depth

> working toward monthly updates.

Chepurin et al. in prep. Compares surface temperature anomalies ERSST/WOD : result good match but only with change in first-guess assumption



Boyer et al., 2016. Effects of different XBT bias corrections on heat content. Result XBT bias correction change



Always improving method: Research leads to changes - for 2017 improved first-guess and XBT bias correction