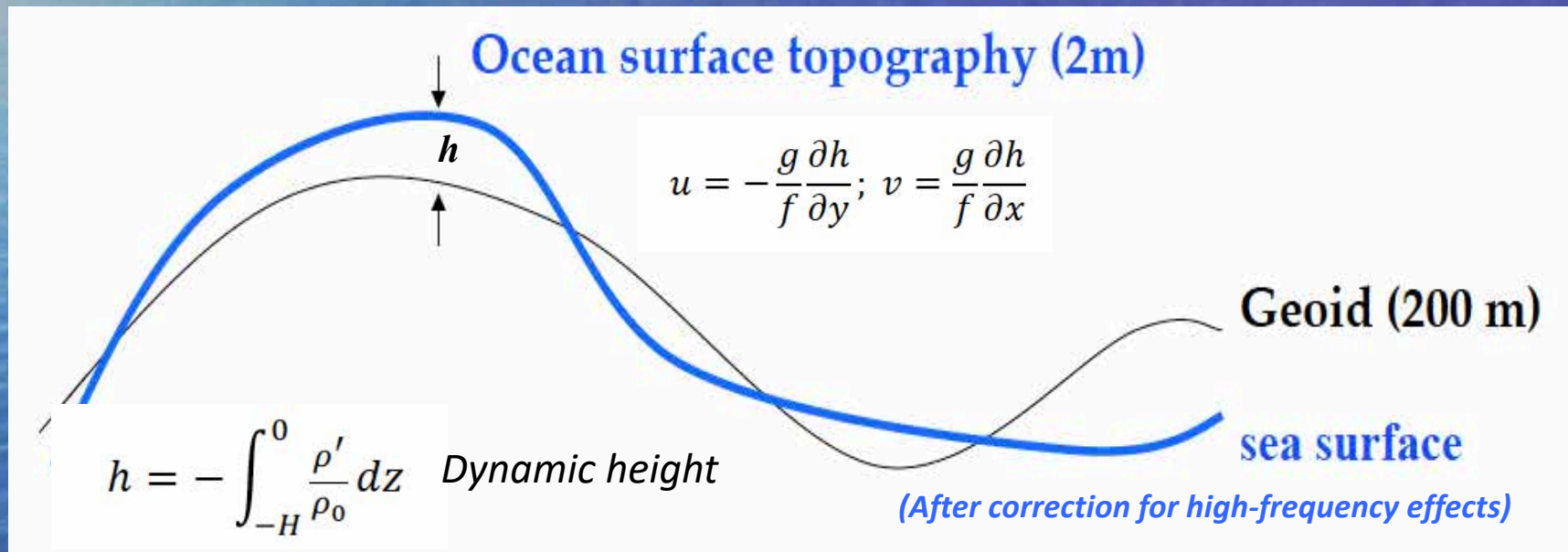


# Ocean in-situ calval

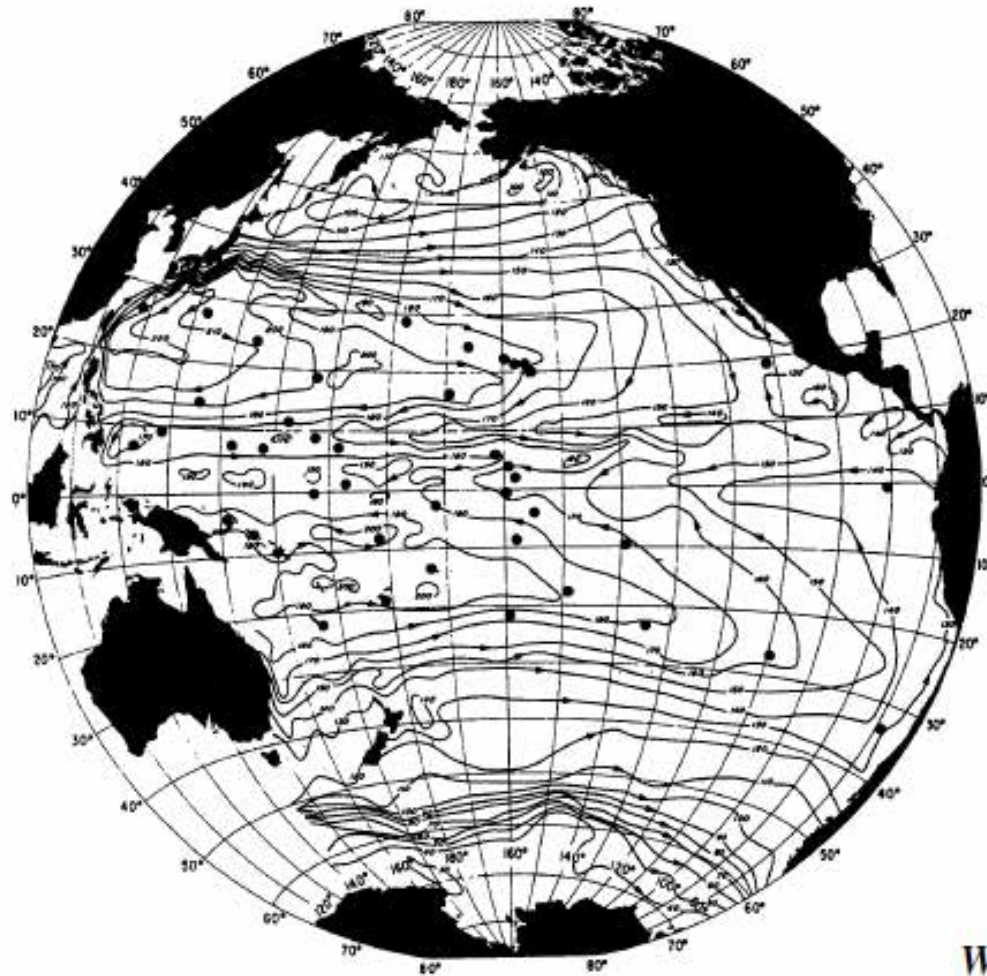
Lee-Lueng Fu

# Ocean surface topography and dynamic height





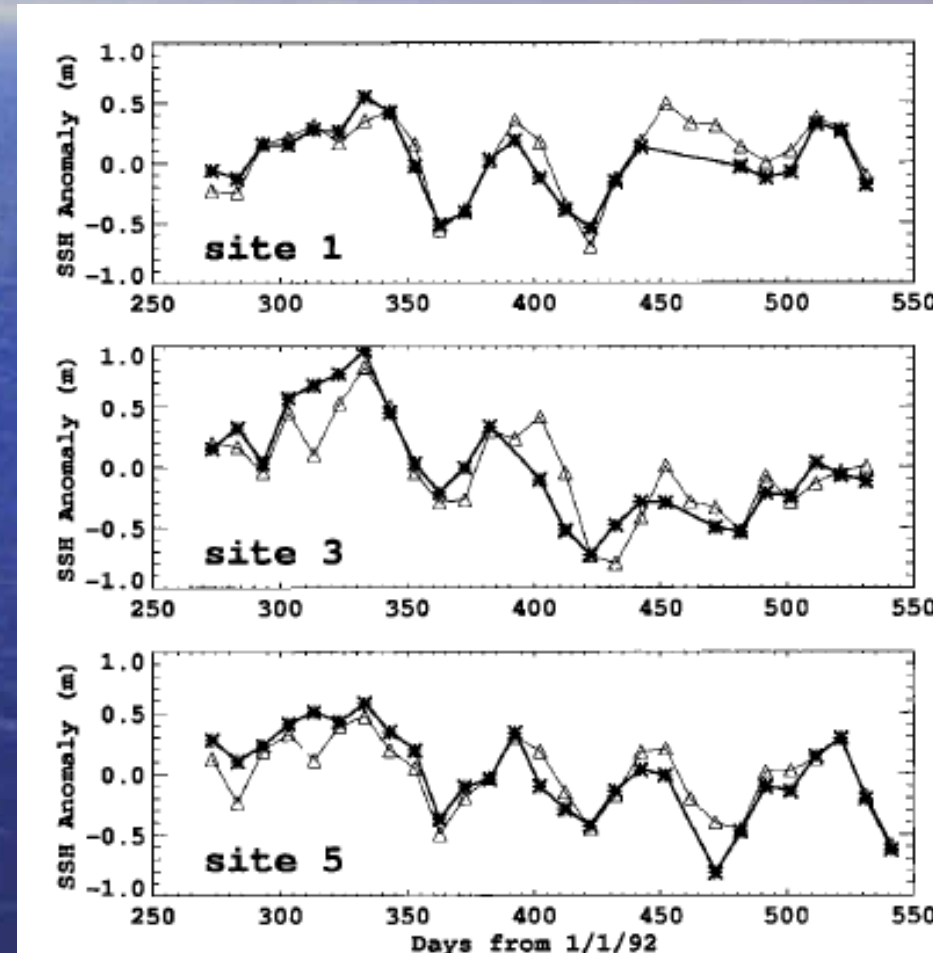
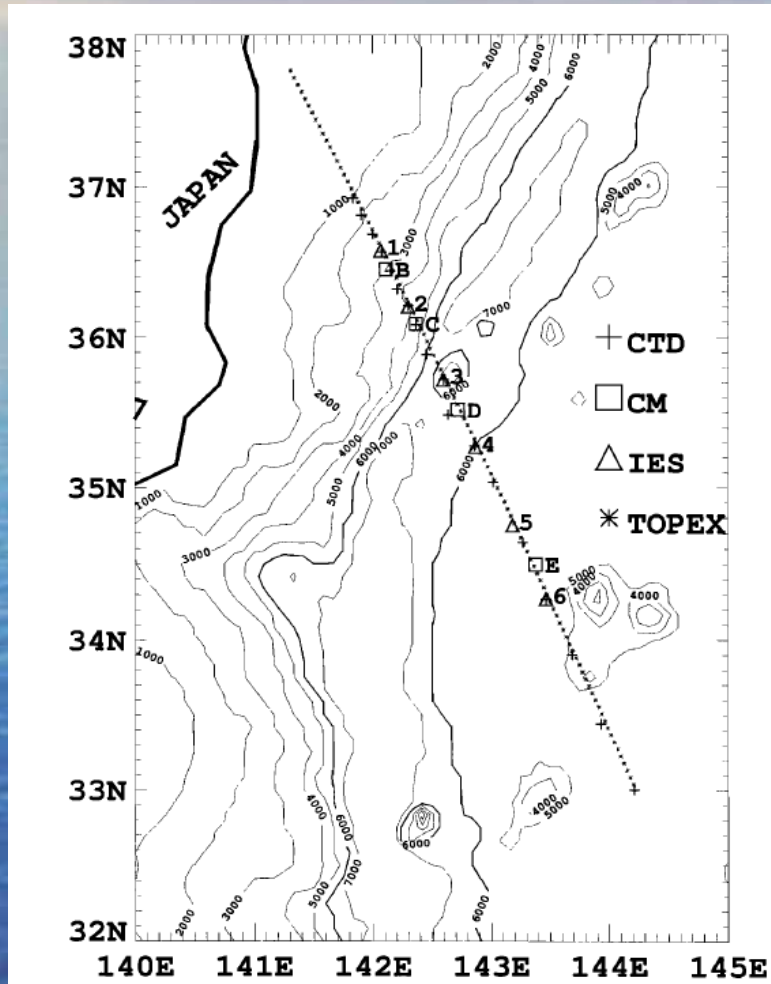
*Ocean surface topography computed from temperature and salinity data collected in the ocean (relative 1000 db surface).*



*Wyrski (1979)*

# Examples of Conventional Altimetry

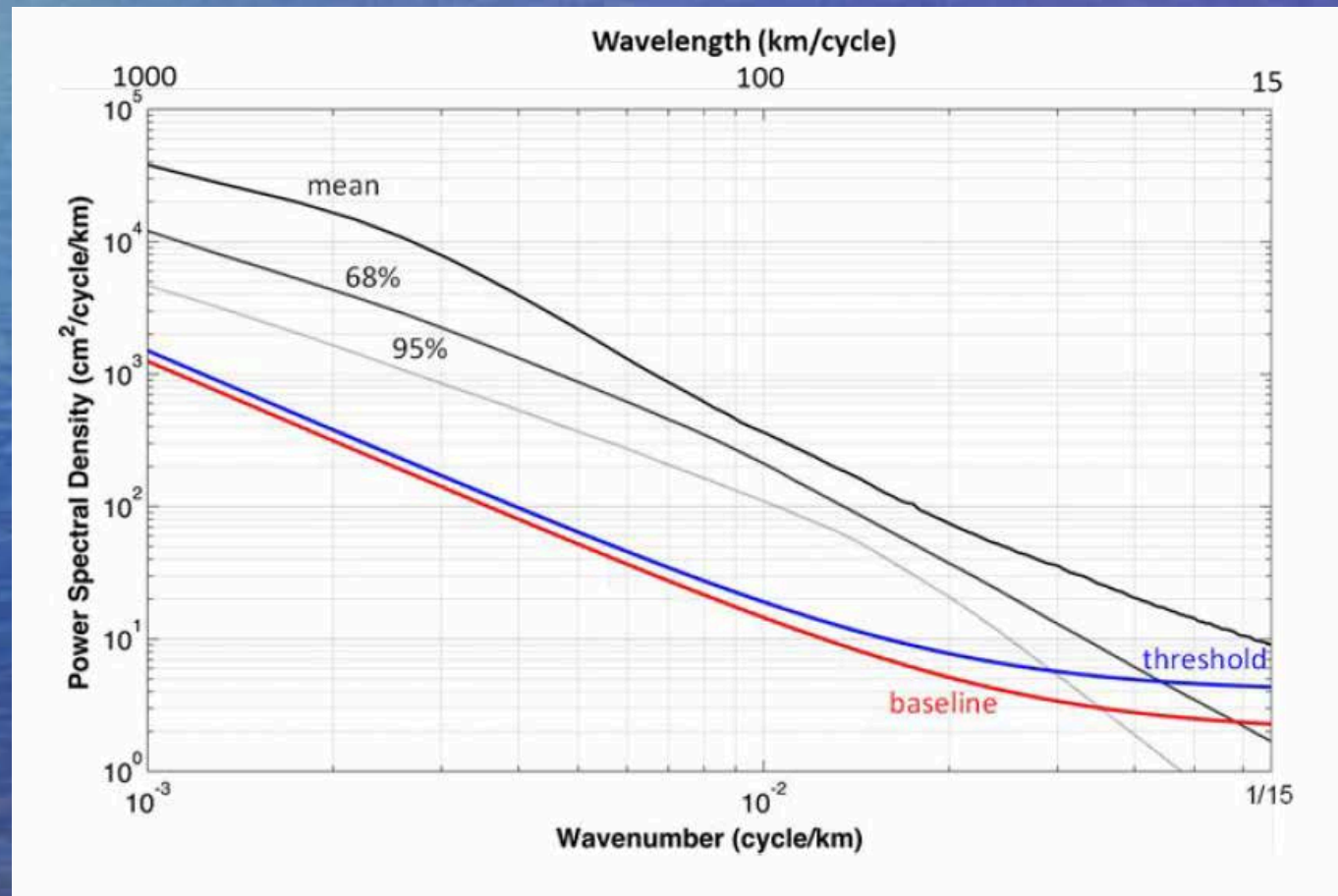
*Comparison of TOPEX/Poseidon SSH to the dynamic height estimated by  
Inverted Echo Sounder observations*





# SWOT oceanographic objectives

The primary oceanographic objectives of the SWOT mission are to characterize the ocean mesoscale and submesoscale circulation determined from the ocean surface topography at spatial resolutions of 15 km (for 68% of the ocean).



## SWOT ocean altimetry objectives

- **Geodetic validation - validate the measurement of SSH to meet the wavenumber spectrum requirement**
- **Oceanographic validation – validate the utility of the SSH measurement to meet the science objectives**