Summary of Workshop discussions

• Future AO support should continue to focus on use of satellite data and not on system development *per se*

• Three Focus Areas:

(1) SST in the GSI

– efforts should focus on improving vertical sublayer model and diurnal warming

- identify whether information from an ocean analysis can improve the first guess for the foundation temperature

- improve CRTM to include water-leaving radiance information from ocean color (issue for CRTM group)

(2) Altimeter data. JCSDA partners have different ODAS and already assimilate satellite altimetry data, so place priority on:

− Improving the current methods for assimilating altimetry, possibly identifying a 'community-based approach';

− Improving altimetry observational error estimates, including representation errors and model forecast (background) errors,

Milestones for FY08: implement Alexey Kaplan's grid-specific error estimates for altimetry in NCEP's GODAS and GMAO's Poseidon V4 and ODAS-2; test and evaluate; iterate

Summary of Workshop discussions (CTD)

(3) Other satellite data -- such as significant wave height data, sea surface salinity, sea-ice, ocean color – that can be used directly in ocean data assimilation systems.

- Preparation for satellite surface salinity observations;
- Expanding the current capabilities to include sea-ice, time-varying ocean color, etc.

Future:

•Groups should be tied together scientifically through attention to the mixed layer, both modeling and assimilation.

•We recognize some of the issues regarding SST in the GSI may be relevant to other JCSDA groups, and we should find a way to connect the various groups - those generating SST products and those using SST products

•Another area of importance for the ocean community, that of improved air-sea fluxes and their error estimates, also provides potential for interactions between the two groups.