

Achievements of Aquarius SSS for Ocean Sciences

P. Hacker and O. Melnichenko

Nearly Global SSS at high resolution in time (3.5-7 day) and space (10-100 km) with quantified accuracy and error estimates.

330 papers: technical (80), evaluation (15), ocean (205), soil/land (25), ice (5)

Topics-

1. Near surface processes including SPURS (40). (New, global area of research.)
2. Space/time SSS variability of:
 1. River inflow regions (Mississippi, Ganges, Congo, Amazon, etc.);
 2. Features (jets, fronts, currents, TIW, gyres, eddies, etc.);
 3. Regional and coastal domains (Bay of Bengal, South China Sea, South Atlantic coast of Argentina, etc.)
3. Calculation of near surface eddy-fluxes of fresh water
4. Ocean Climatology of SSS spatial variability: intraseasonal to interannual...
5. Hydrological cycle research using actual space/time variability of SSS
6. SSS assimilation into numerical models and model validation experiments
7. Level-4 SSS products to produce consistent near-surface salinity fields: across different missions and different measurement systems

Achievements of Aquarius SSS (Continued)

P. Hacker and O. Melnichenko

Other new areas of research-

High-latitude, ice identification, global CO₂/alkalinity.....

Suggestion-

Make a similar list for the **technical** achievements:
algorithm, RFI, rain, roughness, galaxy, etc.

Overarching Goal-

To clearly state the achievements of the Aquarius mission as part of our final documentation.