SOMaR-3; July 14-16, 2015
Applied Physics Laboratory
University of Washington, Seattle, WA

Tuesday, July 14, 2015

09:00 to 09:15	**Welcome and Workshop Overview**
09:15 to 10:30	**SESSION ON RADAR SCATTERING** On the quality of radar sea state, current and bathymetry measurements Part 1: Technical limitation and reliability of nautical radar measurements Radar measurements from the sensor point of view: Range –Accuracy – quality of data Part 2: Natural and aleatory limitation of measurements Application, interpretation and validation of measurements remote – in situ Katrin Hessner "The RCS of seabirds – shedding (microwave) light on an old detection problem" David McCann
10:30 to 11:00	**Coffee Break**
11:00 to 12:30	**SESSION ON RADAR SCATTERING** *(continued)* "How do breaking waves show up in low grazing angle backscatter and ocean wave spectra?" Bill Plant "Marine radar measurements at horizontal and vertical polarization" Jochen Horstmann **Discussion** **SESSION ON CURRENTS** "Further validation of the polar-current-shell current algorithm for X-band marine radar"; Weimin Huang
12:30 to 14:00	**Lunch**
14:00 to 15:30	**SESSION ON CURRENTS** *(continued)* "Radar derived current measurements at tidal stream energy sites" Paul Bell "Vertical current shear retrieval from shipboard marine X-band radar", Bjorn Lund "Measurement of surface currents using coherent marine radars" Jochen Horstmann

15:30 to 16:00	**Coffee Break**
16:00 to 17:30	**Session on Currents (*continued*)** "Phase-based depth estimates at open beaches and tidal inlets David Honegger, Merrick Haller "On the imaging of rip currents in marine radars" Merrick Haller "Intrusion fronts and internal jumps at the Columbia River mouth, observed via shore-based marine radar" David Honegger, Merrick Haller **Discussion**

Wednesday, July 15, 2015

09:00 to 10:30	**SESSION ON WAVES** "Assessment of cross shore wave transformation based on radar observations" Guillermo Diaz "Phase resolved X-band wave inversions in multi-modal seas" Tony de Paulo "Spatiotemporal modulation and analysis of high-resolution backscatter and Doppler X-band radar measurements of ocean surface waves in low sea states" Erin Hackett
10:30 to 11:00	**Coffee Break**
11:00 to 12:30	**SESSION ON WAVES (*continued*)** "Ship-based observations of ocean waves using multiple X-band radars" Christa McKelvey "Real-time estimation of ocean wave fields from marine radar data" David Lyzenga "Coherent marine radar measurements of ocean wave frequency spectra with vertically polarized antennas" Dennis Trizna
12:30 to 14:00	**Lunch**
14:00 to 15:30	**SESSION ON WAVES (*continued*)** "Wave sensing Radar and wave reconstruction" Gordon Farquharson "Measurement of surface waves using coherent marine radars" Jochen Horstmann "Wave height estimates from coherent marine radar" Javier Perez

15:30 to 16:00	**Coffee Break**
16:00 to 17:00	**SESSION ON WAVES (*continued*)** "Dynamics of near shore wave breaking observed by coherent marine radar" Michael Stresser "Observing wave-breaking with coherent radar" Patricio Catalan **Discussion**

Thursday, July 16, 2015

09:00 to 10:30	BATHYMETRY "Observation of nearshore phenomena observed with time averaged images from X-band radars" Satoshi Takewaka "Yet another pixel-by-pixel depth inversion algorithm" Ron Abileah "A temporal waterline method for pixel level mapping of intertidal areas " Paul Bell
10:30 to 11:15	**Coffee Break**
11:15 to 12:00	BATHYMETRY (CONTINUED) "Transitioning wave inversions for mapping depth and current to operation from a moving vessel " David McCann "In-situ and Land-based Remote Sensing of River Inlets and Their Interaction with Coastal Waters" Tony de Paulo "Stepped-Frequency Ice Radar" Donald Atwood
12:00 to 13:00	**MEETING DISCUSSION**
13:00	**Adjourn**