

1145h **H42A-06** Understanding the effect of native forest replacement on hydrologic ecosystem services in the Valdian Temperate Rainforest Ecoregion (34° – 40° S) (*Invited*): **J P McPhee**
 1200h **H42A-07** Energy-Water Interdependence: **C A Christie**, J A Tindall
 1215h **H42A-08** Using Satellite Observations and Modeling Products for Water Resources Management in the Americas: **D L Toll**, B Doorn, L G de Goncalves, R G Lawford, T Engman

Ocean Sciences

OS42A Room C2 Thursday 1030h
Application of HF Radar Networks to Ocean Forecasts I (*joint with GC*)

Presiding: **M Mano**, Federal University of Rio de Janeiro; **D Barrick**, CODAR Ocean Sensors; **J Harlan**, NOAA

1030h **OS42A-01** US National High Frequency Radar Surface Current Mapping Network: **J Harlan**

1045h **OS42A-02** Assimilation of HF Radar into 3-dimensional Coastal Ocean Circulation Models to Enable Real-Time Forecasting: **Y Chao**, Z Li, J D Farrara, X Wang

1100h **OS42A-03** A Nested Ensemble Kalman-Based Forecasting System for the Gulf of Mexico Circulation (*Invited*): **G Gopalakrishnan**, I Hoteit, T J Hoar, B D Cornuelle, E Terrill

1115h **OS42A-04** Short-term Current Forecasts from an Empirical Statistical Model (*Invited*): **B C Zelenke**, M Kosro

1130h **OS42A-05** Ensemble-based assimilation of high-frequency radar surface currents in regional ocean models (*Invited*): **A Barth**, A Alvera-Azcarate, J Beckers, E V Stanev, R H Weisberg

1145h **OS42A-06** Variational Assimilation of High-Frequency (HF) Radar Surface Current Observations in the Coastal Ocean Model off Oregon (*Invited*): **A L Kurapov**, P Yu, G D Egbert, M Kosro

1200h **OS42A-07** Extrapolation, interpolation, and filtering of surface radar data using modal analysis and domain mirroring: **F Lekien**

1215h **OS42A-08** Normal mode analysis: Objective mapping with boundary constraints (*Invited*): **B L Lipphardt**, H S Huntley, A D Kirwan

OS42B Room C1 Thursday 1030h
Coastal and Estuarine Physical Processes III

Presiding: **E Siegle**, University of Sao Paulo; **C A França Schettini**, Universidade Federal do Ceará; **E E Toldo**, Universidade Federal do Rio Grande do Sul

1030h **OS42B-01** Longshore Current Vertical Profile on a Dissipative Beach: **G B Jung**, E E Toldo

1045h **OS42B-02** Boussinesq Modeling of Surfzone Tracer Plumes: **F Feddersen**, D B Clark, R T Guza

1100h **OS42B-03** TIDAL MODULATION OF WAVE HEIGHT ON A BRAZILIAN CORAL REEF: M B Costa, **M Araujo**, T C Araújo

1115h **OS42B-04** Storm-Induced Hydrodynamic and Sediment Transport Modeling in a Shallow Coastal Lake: Louisiana, USA: **A Freeman**, F Jose, H H Roberts

1130h **OS42B-05** ACCELERATED EROSION AT CARNAUBINHA BEACH (CE), BRAZIL: **P H Sousa**, M R Moura, L D Pinheiro

1145h **OS42B-06** Hydrodynamics and coastline impacts the due to harbor expansion. Study of case: Ponta do Ubu (Brazil): **E Yassuda**, G Clauzet, M Correa, H Tonin

1200h **OS42B-07** Significance of active growth faulting to northern Gulf of Mexico coastal marsh accretion processes: **K M Yeager**, R A Feagin, C A Brunner, M Kulp, K J Schindler, J Prouhet, D Fischer, J M Johnson

1215h **OS42B-08** Evaluation of the mud deposits effects in the wave energy potential throughout the Rio Grande do Sul State coastal area (Brazil): **D C Cuchiara**, W C Marques, E H Fernandes

Paleoceanography and Paleoclimatology

PP42A Room A2 Thursday 1030h
Precambrian Paleoenvironments and Paleoecosystems I (*joint with B*)

Presiding: **M Ader**, Institut de Physique du globe de Paris; **C Vasconcelos**, ETH-Zurich

1030h **PP42A-01** Oxygenated Oceanic Environments and Mn(IV) Respiration Prior to the Rise of Atmospheric Oxygen at ~ 2.32 Ga: Evidence from Iron and Manganese Formations (*Invited*): **N J Beukes**, J Gutzmer

1050h **PP42A-02** High-resolution SO₂ spectra: Implications for sulfur MIF in the Archean atmosphere (*Invited*): **J R Lyons**, G Stark, D Blackie, J Pickering

1110h **PP42A-03** C and N Isotopes in Late Archean Sedimentary Rocks from the Hamersley Range (Western Australia): **V Busigny**, O Lebeau, M Ader, A Bekker

1125h **PP42A-04** Experimental and numerical modelling of continental weathering during Precambrian times: **S Fabre**, G Berger, A Nédélec

1140h **PP42A-05** WITHDRAWN

1200h **PP42A-06** CARBON ISOTOPE EVIDENCE FOR LOW pCO₂ IN THE AFTERMATH OF NEOPROTEROZOIC GLACIATIONS: **P Sansjofre**, M Ader, R I Trindade, P Cartigny, A C Nogueira

1215h **PP42A-07** Recent and Late Pleistocene stromatolites in lacustrine closed-basins of northern Patagonia east of the Andes: **D Ariztegui**, G Hunger, V Martinuzzi, C Vasconcelos

Planetary Sciences

P42A Room Cedro I Thursday 1030h
Impact Structures in South America and Shock in Basaltic Targets II

Presiding: **A Crosta**, UNICAMP; **P H Schultz**, Brown University

1030h **P42A-01** The Carancas hypervelocity impact occurred on September 15, 2007 (*Invited*): **G Tancredi**, J Ishitsuka, P H Schultz, R S Harris, D Rosales, E Vidal

1045h **P42A-02** Production of impact-derived felsic melts within Earth's earliest crust: clues from the Araguinha structure, Brazil (*Invited*): **C Lana**, D Silva, C R Souza, G Stevens

1100h **P42A-03** Latest results on field data of excavations at the Campo del Cielo, Argentina crater field (*Invited*): **S P Wright**, W A Cassidy, M Vesconi

1115h **P42A-04** Sequence of Ejecta Emplacement around Impact Craters in the Argentine Pampean Sediments: **P H Schultz**, R Harris, M Zarate