

Onshore-Offshore Drilling and Sampling to Understand Freshwater Resources along the New England Continental Shelf: An IODP-ICDP Workshop

May 22, 2017

8:00-8:30 Breakfast

8:30-8:45 Introductions and Workshop Objectives [B. Dugan]

8:45-10:00 Onshore-Offshore Freshwater

- submarine groundwater discharge [A. Wilson]
- New England hydrogeology studies [M. Person]
- New England geochemistry studies [R. van Geldern, S. Stadler]

9:45-10:15 Coffee Break

10:15-11:00 Onshore-Offshore Freshwater

- Ocean-Aquifer Studies at Oregon State University [T. Jarvis]
- New Zealand surveys [A. Micallef]

11:00-11:30 Group Discussion – science questions, data needs

11:30-12:00 History of IODP Proposal 637 [B. Dugan]

12:00-13:00 Lunch

13:00-14:45 Existing Data and Studies

- seismic data [B. Dugan]
- electromagnetics [R. Evans, K. Key]
- onshore data [J. Lane]
- coastal zone data and survey capabilities [L. Brothers]

14:45-15:15 Coffee Break

15:15-15:45 Onshore wells [M. Person]

15:45-16:00 Breakout Groups - focus on discipline-specific questions

16:00-17:00 Breakout Group Reports and Group Discussion

Dinner on own

May 23, 2017

8:00-8:30 Breakfast

8:30-8:45 Recap of day one [B. Dugan]

8:45-9:30 Science Needs at Onshore and Offshore Wells

- water and gas geochemistry/isotopes [J. McIntosh]
- sedimentology and sea level [K. Miller]
- well logging and hydraulic testing [B. Dugan]

9:30-10:00 Designing an Integrated Amphibious Science Plan

10:00-10:30 Coffee Break

10:30-11:15 Group Discussion – review and revise science questions, summarize science and technology needs and challenges, set science priorities for each potential site

11:15-12:30 Lunch

12:30-13:30 Expected Costs and Opportunities for Funding [B. Dugan]

13:30-14:00 Post-Drilling Research Needs and Activities [B. Dugan]

14:00-14:30 Group Discussion

14:30-15:00 Coffee Break

15:00-16:00 Education and Outreach

- community outreach, freshwater resource education, social media presence

16:00-17:00 Closing Discussion - plan for proposals to ICDP and other funding sources