

Agenda – U.S. GEOTRACES GP17-OCE Pre-Cruise Meeting

17-18 March 2022

Hampton/Newport News Rooms, Webb University Center, Old Dominion University

Primary objective for the meeting: maximize individual science goals and coordinate efforts to increase the overall impact of our cruise.

Detailed objectives: communicate funded projects, refine station locations based on funded research portfolio, clarify sampling protocols, confirm berth allocation, negotiate water budgets and sampling sequences, maximize coordination of sampling and analytical efforts, develop deck and lab utilization plans, facilitate bonus science impacts by accommodating unfunded and allied projects, discuss individual and cruise outreach, and review intercalibration plans and data management protocols.

Thursday: Plenary in Hampton/Newport News Rooms, Webb University Center, ODU

0830: Welcome, logistics, and introductions of super techs (Greg)

0845: Plenary. Overall scientific goals. Overview of cruise track and anticipated hydrographic, biological, and geochemical features; management team responsibilities; issues to be resolved at this meeting (e.g., fish sampling) (Ben)

0930: Plenary. TEI group presentations, 2 minutes each – scientific goals, funded parameters, and unfunded parameters (1 slide), and requirements (e.g., all stations, upper 600m, ADCP data; 1 slide). One presentation for each funded proposal, including collaborative proposals (pick one PI). We must receive all presentations by Wed night to compile into one presentation (Jess)

1045: Short coffee and bathroom break

1100: Plenary. What have we missed? Presentations and discussions of unfunded work seeking samples (e.g., CSV Fe ligands, anthropogenic radionuclides, continuous fish sampling, BioGEOTRACES parameters, non-GEOTRACES requests) (Ben)

1130: Plenary. Station placement and planning for the entire cruise: moving or adding/subtracting stations, interface zones. Where to place superstations – examples: shelf/slope, hydrothermal plumes, ACC fronts, upwelling hotspots. (Greg/Jess)

1200: Lunch Break (Independent; ODU Student Center has 9 places to eat)

1330: Plenary. Station placement and planning for entire cruise continued

1430: Breakout groups for each management sampling system: water budgets, sampling sequences, filtration – types and protocols, assistance needed from other groups (# of people needed for sampling and sample processing), sampling priorities (e.g., minimum volumes, unfunded, BioGEOTRACES, non-GEOTRACES)

Potential breakout groups: GTC carousel and van; ODF rosette; McLane pumps

1545: Beverages and snack break

1600: Plenary. First breakout group reports; aerosol sampling and requests; station and continuous tow fish sampling discussion (Ben)

1700: Plenary. Data management and logging (GEOTRACES #s, labeling, event and sample logs, ODF data manager); GEOTRACES parameter names; BCO-DMO procedures; DDoR generates parameter names (Jess/Greg)

1800: Adjourn

Friday: Plenary in Hampton/Newport News Rooms, Webb University Center, ODU

0830: Plenary. Intercalibration – requirements, locations, collaborations with international PIs (Greg)

0900: Breakout groups:

Deck operations (Greg). Layout; aft A-frame/winches; hydro boom – ODF and Pumps; GTC A-frame and winch; ⁷Be sampling; tow fish boom, pump, and tubing; aerosol and rain systems; van placement and utilities; pallet boxes placement

Lab layouts (Jess/Ben). Who, what, where; trace metal-clean bubble; bench space; gas bottles; hoods; sinks; electrical power; ship's flow through seawater; freezer/refrigerator space; -80° freezers; who will build the bubble and supply the materials?

1015: Short coffee and bathroom break

1030 Plenary. Reports from breakout groups and related discussions.

1100. Berthing requests

1145: Lunch Break (Independent; ODU Student Center has 9 places to eat)

1315: Plenary. Station workflow plans. Sequences to minimize station time, but avoid burnout; team work, task sharing, and super techs (1st breakout covered required # of people, so who can supply whom, and when – consider station sampling plans); sampling for BioGEOTRACES and unfunded parameters (Jess/Greg)

1400: Plenary. Mobilization in San Diego, demobilization in Punta Arenas; ship details – safety, chemical storage, hazardous waste storage/disposal, gas bottles, science holds/storage, internal communications/data, internet/broadband, berthing, shipping (Ben)

1500: Plenary. Chrissy Wiederwohl discusses outreach plan; other on-board outreach (i.e., individual PIs discuss these and what they need); miscellaneous issues from PIs (Chrissy)

1600: Adjourn. Share taxis to airport, ca. 15-20 min ride