

## US GEOTRACES Pacific Meridional Transect (GP15) Pre-Cruise Meeting

### Agenda

**8-9 March 2018**, Room 1100 Physical Sciences Bldg, Old Dominion University

The primary objective for this meeting is to maximize the success of everyone's individual science goals and coordinate efforts to increase the overall impact of our cruise. We will: refine station locations, work on sampling protocols, in particular water budgets and sampling sequences, maximize coordination of sampling and analytical efforts, develop deck and lab utilization plans, try to incorporate bonus science impacts by accommodating unfunded and allied projects, discuss individual and cruise outreach, and go over intercalibration plans and data management protocols. It must be remembered that this is a GEOTRACES transect cruise, not a process one, so we must endeavor not to try to do too much process work unless it can be done on deck and underway; we are focused on identifying and quantifying broad processes affecting the cycling of TEIs.

#### **Thursday:**

**0800:** Bus pickup at Westin Town Center, Virginia Beach

**0830:** Continental breakfast with coffee and tea (Room 1100)

**0900:** Welcome, logistics, and introductions of super techs

**0915:** Plenary. 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)

**1000:** 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, and for collaborative proposals, only one talk (pick the PI). Lam must receive all presentations by Wed night to compile into one presentation.

**1100:** Short coffee and bathroom break

**1115:** Plenary. Presentations and discussions of unfunded work seeking samples (e.g., single cell stoichiometry, CSV Fe ligands, anthropogenic radionuclides, continuous fish sampling); BioGEOTRACES parameters; non-GEOTRACES requests (e.g., H<sub>2</sub><sup>18</sup>O, Liz Sykes; DOC/Organics, Karl Kaiser)

**1200:** Lunch Break (Atrium outside Room 1100)

**1330:** Plenary. Station placement and planning for entire cruise: moving or adding/subtracting stations, interface zones – examples: shelf/slope, distal hydrothermal plumes, equatorial upwelling, particle transition at 45°-30°N – this must be done in plenary.

**1430:** Breakout groups for management sampling system to consider: 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)

GEOTRACES 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

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

**1800:** Adjourn

**1815:** Bus return to Westin

**Friday:**

**0800:** Bus pick up; bring your stuff if not staying over

**0830:** Continental breakfast with coffee and tea (Room 1100)

**0900:** Plenary. Intercalibration – requirements, locations, collaborations with Japanese GP02 PIs

**0930:** Breakout groups:

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

Lab layouts. 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

**1045:** Short coffee and bathroom break

**1100.** Finish up breakout group discussions

**1130:** Plenary. Reports from breakout groups and related discussions.

**1215:** Lunch Break (Atrium outside Room 1100)

**1345:** Plenary. Station sampling plans. Sequences to minimize station time, but avoid burn out; team work, task sharing, and super techs (1<sup>st</sup> breakout covered required # of people, so who can supply whom, and when – consider station sampling plans); sampling for BioGEOTRACES and unfunded parameters

**1430:** Plenary. Mobilization in Seattle, demobilization in Papeete or San Diego; ship details – safety, chemical storage, hazardous waste storage/disposal, gas bottles, science holds/storage, internal communications/data, internet/broadband, berthing

**1530:** Plenary. Hilo stopover. Mariko discusses her outreach plan; journalist on board + blogs and other on-board outreach (i.e., individual PIs discuss these and what they need); personnel exchanges; shipping to/from; miscellaneous issues from PIs.

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