UNOLS Cruise Planning Application

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https://cruiseplanner.unols.org
What is the Cruise Planning App?

• An information sharing portal for
  • Scientists
  • Marine Technicians
  • Crew
  • Support Staff

• Coupled with the Ship Time Request System
• Initiated by UNOLS & NSF
• Developed in 2017
• Alpha in 2018
• Actively maintained
Goals of the Cruise Planning App

• Consistent experience for scientists
• Convenient tool for ship operators
• Configurable to suit the operator’s needs
• Metadata repository
• Minimize information redundancy
• Maximize information Security
What’s in a Cruise Plan?

• Project Information
  – Dates, ports, project description, incidentals

R/V Oceanus
Operator: Oregon State University Owner: National Science Foundation

Mobilize: Oct 15, 2019 (Tue)  Honolulu, HI, USA
Depart: Oct 16, 2019 (Wed)  7 Days Total
Return: Oct 20, 2019 (Sun)  5 Days at Sea
Demobilize: Oct 21, 2019 (Mon)
CTD and Water Sampling

The Sea-Bird 911+ CTD is a highly accurate ducted/pumped system with an embedded Digiquartz pressure sensor. The system has dual temperature/conductivity sensors and a 24Hz sampling rate. The maximum deployment depth is 6800 meters. Endeavor has a selection of additional sensors, Niskin bottles, and CTD frames. Endeavor does not deploy or recover CTD equipment energized. Please read our safety policy for more details.

Skip This Section

☐ There will be no CTD deployments on this cruise.  Save

[5.1] ✔ Select a CTD frame configuration. All frames use a Sea-Bird 32 carousel water sampler. Due to the increased difficulty of handling the 24 bottle frame, the 12 bottle frame is preferred if it is adequate for the intended sampling.

☐ SeaBird 24 place frame, Holds (24)10L or (12)30L Niskin bottles

☑ SeaBird 12 place frame, Holds (12)10L or (6)30L Niskin bottles

☐ SeaBird 24 place frame modified for upward and downward Lowered ADCPs, Holds (22)10L or (11)30L Niskin bottles

☐ I will provide my own CTD/water sampler package

☐ The CTD frame I require is not listed
5 Attachments have been Uploaded

1. 10356_61355_EN629_4Feb20191549377126.docx
   Submitted by Rod Johnson on Tuesday, February 5, 2019,
   261 kb
   Detailed cruise schedule

2. sediment_trap_production_procedures1550201864.docx
   Submitted by Rod Johnson on Friday, February 15, 2019,
   9855 kb
   Sediment trap and production mooring details

3. SedimentTrap_recovery_decklayout1550201910.jpg
   Submitted by Rod Johnson on Friday, February 15, 2019,
   1137 kb
   photo of deck layout for sediment traps
Accommodations/ Berthing Van Layout

Description: If you have requested the Accommodations/ Berthing Van through the UNOLS Van Pool, here is the berthing document to fill out.

Radioactive Isotopes- Policy and Report

Description: Pre-cruise, during cruise, and post-cruise procedures on Radioactive Isotopes. If you are planning on using Radioactive Isotopes during your cruise, please contact OSU Ship Ops ASAP to begin process and to request rad van.

Cruise Plan

Description: If science groups would like to upload a supplementary cruise plan to help support the information given in the questionnaire, they may do so here.
10 hazardous materials are registered for this cruise

**FORMALDEHYDE, SOLUTION, FLAMMABLE**

*You are cleared to edit this chemical*

A colorless aqueous solution of formaldehyde, which is a gas at ordinary conditions. Has a pungent irritating odor. Flash point varies from 122 to 141°F.

- Classified as Immediately Dangerous to Life and Health
- Extremely flammable
- Short exposure times can cause serious injury

Miguel Goni is bringing 1 liter.

**ETHANOL**

*You are cleared to edit this chemical*

A clear colorless liquid with a characteristic vinous odor and pungent taste. Flash point 55°F. Density 6.

- Classified as Immediately Dangerous to Life and Health
- Extremely flammable
- Highly Flammable

Miguel Goni is bringing 5 liters.
Cruise Plan Workflow

Ship Operator
- Create New Cruise
- Invite PI and Chief Scientist

Principal Investigator
- Fill in Personal Information
- Fill in Cruise Required Information
- Invite Science Party

Science Party
- Fill in Personal Information
- Add to Cruise Information
- Invite more Science Party
Cruise/Ship/User Model
Accommodates all types of users

Users

Ships

Can Have Many

Cruises

Can Have Many

Can Have Many
Three User Tiers

• Cruise people (Scientists)
  – Cruise Administrator
  – Cruise User

• Ship people (You)
  – Ship Administrator
  – Ship Planner
  – Ship Crewmember

• Site people (Admins)
2019 Year in Review

• 2019 was the first year of full time active use
  – Endeavor, Oceanus, Kilo Moana, Healey
• A few others are testing out the platform
• 650 User Accounts
• 85 “real” Cruises
• 250-500 Requests/Day
• 1 bug report since June
How to Get Involved

• Cruise planner is ready for you
• $0.00 (for now...maybe forever)
• Create a user account and request “read only” access for a self-guided tour (Alice, Brandi or myself)

• https://cruiseplanner.unols.org