

UNOLS Cruise Planning Application

Erich Gruebel, URI
RVTEC Oct 22, 2019

<https://cruiseplanner.unols.org>

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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

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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

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What's in a Cruise Plan?

- Project Information

- Dates, ports, project description, incidentals

R/V Oceanus

Operator: [Oregon State University](#) Owner: National Science Foundation

oc1910a : HOT 316

Mobilize:	Oct 15, 2019 (Tue)	Honolulu, HI, USA
Depart:	Oct 16, 2019 (Wed)	
Return:	Oct 20, 2019 (Sun)	Honolulu, HI, USA
Demobilize:	Oct 21, 2019 (Mon)	

7 Days Total

5 Days at Sea

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Science Party Registry

15 scientists are registered for this cruise

[REDACTED]

Marine Technician

CruiseAdmin

Graduate School of Oceanography, University of Rhode Island

Female

[US] United States

Room 9, Bottom

[REDACTED]

[REDACTED]

Registration Incomplete



Profile



Documents



Dietary



Contacts

[View Details](#)

[REDACTED]

Chief Scientist

CruiseAdmin

University of Rhode Island

Female

[US] United States

Room 7, Top

[REDACTED]

[REDACTED]

Registration Complete



Profile



Documents



Dietary



Contacts

[View Details](#)

[REDACTED]

Student_Undergraduate

CruiseUser

University of Rhode Island

Male

[US] United States

Room 14, Top

[REDACTED]

[REDACTED]

Registration Complete



Profile



Documents



Dietary



Contacts

[View Details](#)

Questionnaire

▼ CTD and Water Sampling

CTD and Water Sampling Questionnaire Section

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.

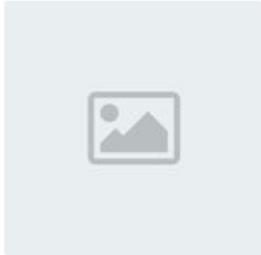
Save

[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

Attachments

5 Attachments have been Uploaded



10356_61355_EN629_4Feb20191549377126.docx

Submitted by Rod Johnson on Tuesday, February 5, 2019,
261 kb

Detailed cruise schedule

Delete



sediment_trap_production_procedures1550201864.docx

Submitted by Rod Johnson on Friday, February 15, 2019,
9855 kb

Sediment trap and production mooring details

Delete



SedimentTrap_recovery_decklayout1550201910.jpg

Submitted by Rod Johnson on Friday, February 15, 2019,
1137 kb

photo of deck layout for sediment traps

Delete

Document Collection

Category: Documents

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.

File Download Links

 [Accommodations Van La...pdf \[180 kb\]](#)

No file selected.

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.

File Download Links

 [appendix_11.pdf \[85 kb\]](#)

No file selected.

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.

File Download Links

 [appendix_02.pdf \[242 kb\]](#)

No file selected.

Hazmat Declaration

10 hazardous materials are registered for this cruise

FORMALDEHYDE, SOLUTION, FLAMMABLE *You are cleared to edit this chemical

CAS: 50-00-0 | UNNA: 1198 | CHRIS: FMS |

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.



Miguel Goni is bringing 1 liter.

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

▶ More Information

ETHANOL *You are cleared to edit this chemical

CAS: 64-17-5 | UNNA: 1170 | CHRIS: EAL |

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



Miguel Goni is bringing 5 liters.

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

▶ More Information



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

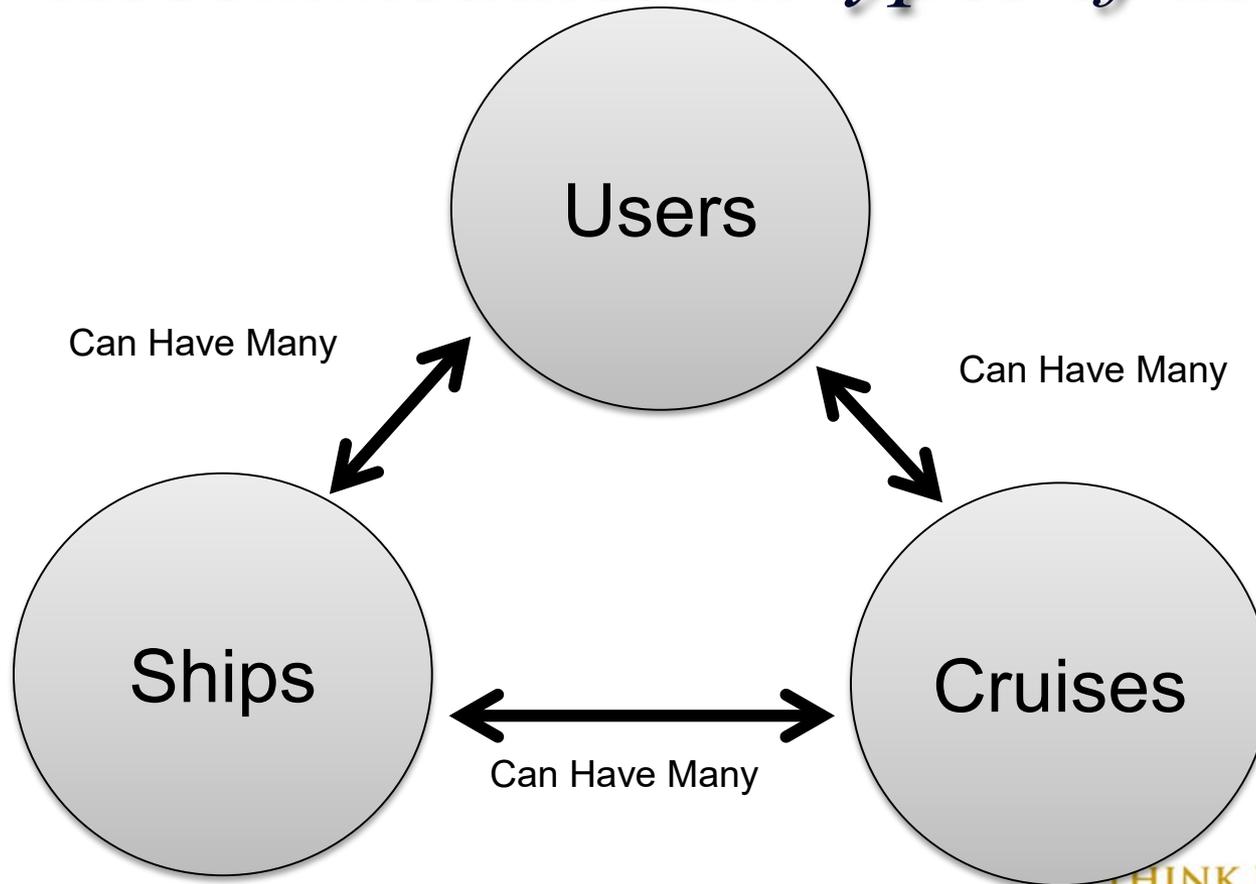
Science Party

- Fill in Personal Information
- Add to Cruise Information
- Invite more Science Party

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Cruise/Ship/User Model

Accommodates all types of users



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Three User Tiers

- Cruise people (Scientists)
 - Cruise Administrator
 - Cruise User
- Ship people (You)
 - Ship Administrator
 - Ship Planner
 - Ship Crewmember
- Site people (Admins)

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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

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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>

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