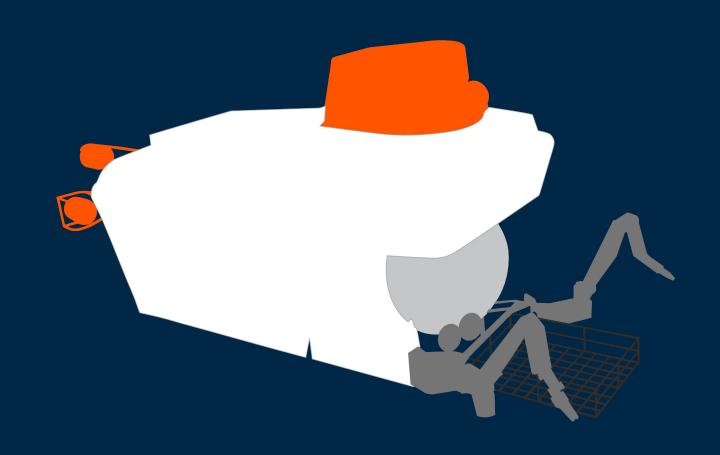
# 6500m Alvin Science Verification Expedition



Update



### **Organizing Team**

Adam Soule

Anna-Louise Reysenbach

Jeff Seewald

Dorsey Wanless

Jeff Marlow

Tim Shank

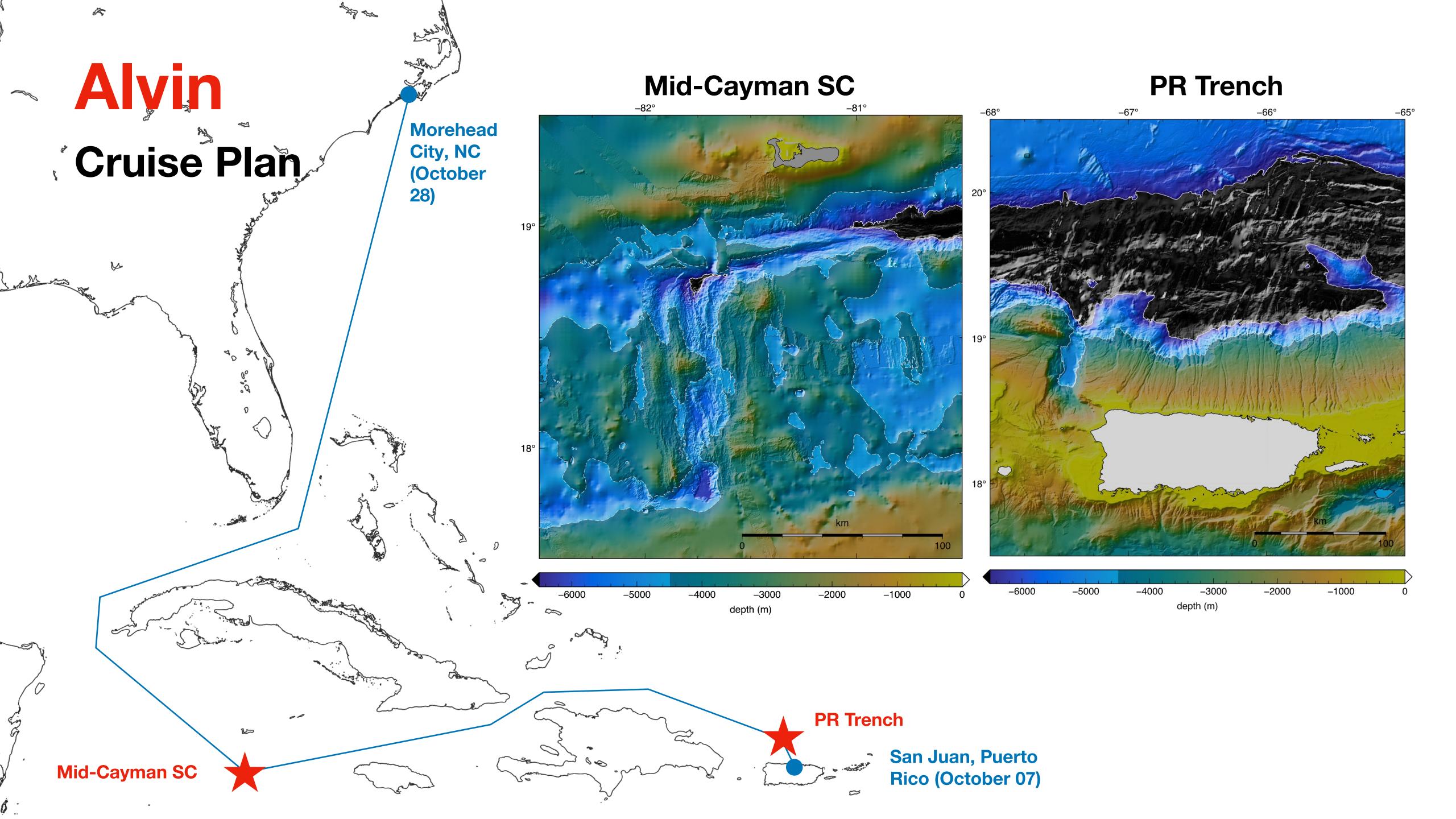
Rosa-Leon Zayas (new user)

#### **Objectives**

- 1. Test critical science systems.
- 2. Provide future users with first-hand experience.
- 3. Produce documentation (e.g., Alvin Cruise Planning Guide)
- 4. Promote diversity in deep sea science.
- 5. Conduct opportunistic science.

## **Application Process**

- Application form developed in collaboration with UNOLS office
- 106 completed applications (26 experienced users, 68 new users, 10 'other')
- Review process underway by organizing team
- At-sea participants (total 16 to 22, COVID-dependent) will be divided amongst experienced and new users.
- Spots reserved for PR and Cayman scientists



## **Tools & Technology**

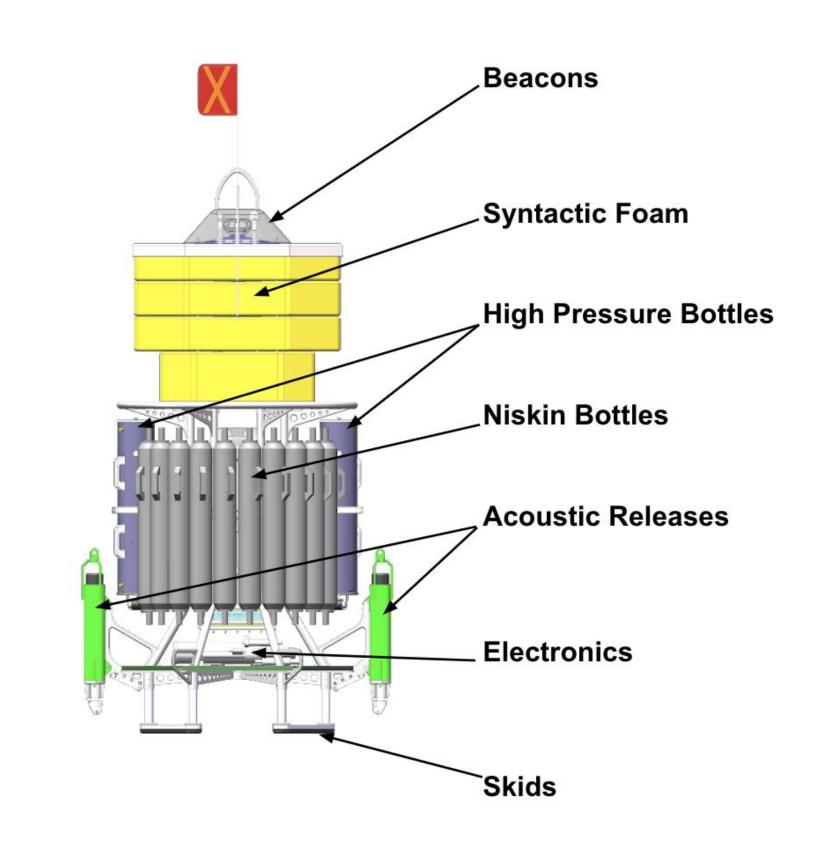


#### Alvin systems to be tested:

Imaging, Navigation, Event Logging, Data Transfer, Sample collection/storage, Dive Ops (extended day).

#### **Augmenting technology:**

Deep Autonomous Profiler (DAP) CTD and lander will extend observations and sampling to hadal depths (eDNA, passive acoustics, time-lapse imaging)



## **Remote Participation**

- High ship-to-shore bandwidth
- Remote participation in post-dive and dive-planning meetings
- Potential live-stream of in-dive Alvin data + image snapshots
- Remote engagement with classrooms, science centers, media

Education and media engagement strategy is TBD, but many of the applicants expressed an interest in contributing.

#### **Timeline**

