





UNIVERSITY OF HAWAI'I's

# ROV LU'UKAI

DeSSC • 2021 - 2022

# **2021 EXPEDITIONS**

### **ACO**

PI: Bruce Howe



#### 3 Dives: 64 hours submerged

- Deployed and connected Basic Sensor Package 5 and CAM2
- Placed Fred Duennebier memorial
- Recovered LIGHT1, LIGHT4 and 4 hose reels
- Performed housekeeping

### KAIWI CHANNEL

PI: Brian Taylor



#### 6 Dives: 52 hours submerged

- Collected 41 samples of paleolithic coral and manganese coated basalt rock
- Surveyed the Kaiwi shelf to better understand the complex geologic history

## **DEFYING DISSOLUTION**

PI: Amy Baco-Taylor



#### 31 Dives: 240 hours submerged

- Visited 9 seamounts
- 4 lander deployments and placed 18 dissolution block experiments
- Collected over 166 coral and water samples by ROV
- Surveyed high density deep scleractinian coral reefs

# **EDUCATION & OUTREACH**

#### Hawaii Sea Grant Voice of the Sea:

- ALOHA Cabled Observatory production premiered Aug. 5th, 2021
- Virtually Exploring the Abyssal Plains won the Bronze Telly Award for remote production!

#### Provided mentoring and education opportunities:

- Real-time video interaction with Research Experience for Undergraduates students on shore
- Onboard student liaison, Samantha Hanson

#### **Community engagement through Social media:**

- Over 1000 people like or follow on Facebook
- Over 735 followers on Instagram
- 260 followers on Twitter
- Average 300-400 accounts reached per post



# 2022 EXPEDITIONS & UPGRADES



### What's New?

5 computers and upgrades to **GreenSea** ROV software

Logging and reporting system through

SeaLog



