

# DIVE PLAN – Leg 1 Dive 14 Pod 3 Pushcores

Location: **Barkley Canyon**

Date: May 11, 2014 7:45 am PDT

Constraints: Weather, Sufficient deck space  
ROV Dive Number – OE 0117

## Objectives

- Deploy bait trap
- 10 Push cores
- Place recovery float on camera
- Place marker beacon

## Dive Dependents

1. ROV porch grating orientation with respect to ROV heading
2. Sediment trap to be moved into neutral alignment

## Ship Procedure

1. Transit to site, assess weather and sea state. Proceed only when it is safe to do so
2. Deploy ROV USBL pole

ACTION	LATITUDE	LONGITUDE	DEPTH (m)
Descend at Pod 3	48° 18.8976'	-126° 03.5300'	888
Ascend at Pod 3	48° 18.8976'	-126° 03.5300'	888

## Shore Procedure

1. Monitor Twitter feed

## Communications With Shore

1. On-board team will tweet using @oceanworksops twitter account at the beginning of the dive
2. Post the dive plan on the cruise website
3. On-board team connect via intercom with shore operations as required

## Navigation

1. Record positions of the deployed platforms and satellite instruments
2. Guide visual transect
3. Record interesting positions

## Dive Chief

1. Record deviations from dive plan

## Site/Equipment IDs

## ROV/Equipment Requirements

1. Float for camera
2. Milk Crate
3. Push cores (10)

4. Beacon and float

**ONC/Equipment Requirements:**

1. Bait Trap

**ROV Procedure**

**Descent**

1. Start recording, start streaming video to UVic, start dive log, confirm both are being received
2. Start ROV-mounted CTD
3. Descend ROV

**Bottom**

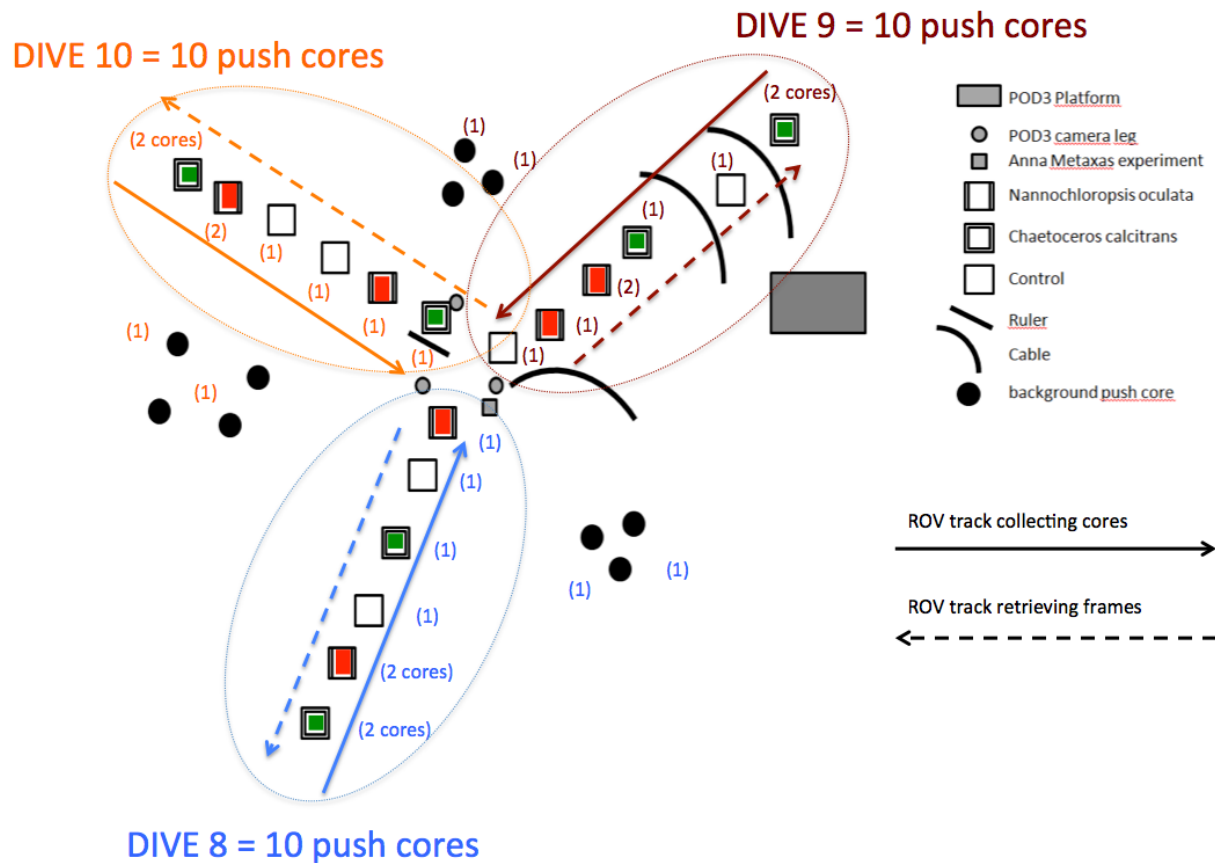
4. Place Push Cores near camera.
5. Place Beacon and float in vicinity of Pod 3
6. Attach float to camera tripod.

**Bait Trap Deployment**

1. Move INDEEP to position near POD #4 (if ROV can take at same time as trap)
2. Take bait trap and move to 100 m location in direction of POD #4

**Push cores**

1. Navigate to Pod 3 Camera tripod
2. Take 10 push cores as per diagram (ones nearest to camera legs). N.B., dive numbers in diagram are out of date. This dive (dive 14) corresponds in the diagram to dive 8? Dive 9? Dive 10?
3. Ensure pushcores are latched into holster



### Visual IP Inspection (time filler as needed)

1. Navigate to Pod 3
2. Monitor sonar en route
3. Locate IP and take a visual of the frame and instruments from all sides, checking for any potential issues
4. Ground anode connected to JB
5. Sediment build-up on platform and feet
6. Bungees, ropes, and cable ties
7. Galvanized hardware and brackets (JB hardware and brackets)
8. Cables, specifically in areas with potential wear
9. JB connectors
10. Record heading, position and sonar range & bearing of platform for comparison with prior measurements.
  - 10.1. Record heading of platform.
  - 10.2. Record lat/lon of platform
  - 10.3. Record sonar range and bearing to/from at least one other object

### Ascend

1. Request permission for recovery from Bridge
2. Recover ROV with 10 pushcores

NOTE:

Dive 15 will be Pod 3 recovery

Dive 16 will be 10 push cores + CTD for POD 4?

Dive 17 will be redeploy POD #3 plus ten push cores.

### **Post Dive Sample Handling**

#### **Core samples**

**Staff Scientist responsible: Fabio De Leo**