



Ocean Networks Canada September 2014 Dive Plans

Non-Dive Daytime Activity:	Day Passenger Embarkation
Date:	September 17 2014
Location:	Saanich Inlet
Launch Time:	0800
Recovery Time:	0815
Objectives:	Day passengers embark via IOS Dock Gangway

Dive Number:	OE0121
Date:	September 17 2014
Location:	Saanich Inlet Node Site
Launch Time:	0900
Recovery Time:	1100
Objectives:	Test Dive
	Saanich Inlet Site Survey
	Clean SI Node Cathode
	Recover SI VIP

Ship Procedure and Operations:	
Assess weather and sea state. Proceed only when Master and ROV Supervisor agree it is safe to do so.	0830
Deploy ROV USBL Pole	0830-0900

Shore Communications:	
On-Shore Team will tweet using the @oceannetworkops Twitter account at the beginning of the dive	
On-Shore Team will post the dive plan on the cruise web site	
On-Board Team will use Skype during operations as required	

Navigation:	
Record all positions noted by the Dive Chief	
Record all positions of items of note as requested by On-Board Team/On-Shore Team	
Direct ship positioning via ROV/Ship Navigation system as required	

Dive Chief:	
Record deviations from Dive Plan	
Record changes to site layout diagrams	

Digital Infrastructure Action Items:	
Shut down Node Port 2 at request of On-Board Team; Confirm all DI Drivers Stopped	

Site/Equipment IDs:								
ACTION	SITE ID	SITENAME	DEVICE ID	DEVICENAME	LATITUDE	LONGITUDE	DEPTH	PORT
Test	?	OE	23088	SeaBird CTD 19 plus 6937	N/A	N/A	N/A	OE In Port
			23142	SeaBird SBE 43 Oxygen (S/N 2562)				V0
Turn Off SI VIP	1000206	VIP-20	7	S30001	48° 39.0782' N	123° 29.1870' W	99m	NP2
			19	SeaBird CTD 16 plus 4996				SP1
			23092	Aanderaa Optode 4175 (S/N 1685)				SP1
			22634	Alec Electronics Rinko-III 0014				SP1
			15	Pro-Oceanus GTD 24-36-07				SP1
			76	Technicap Sediment Trap PPS-24 01				SP2
			9	ASL Zooplankton Acoustic Profiler 1007				SP3



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Recovery Time:	1100
Objectives:	Test Dive
	Saanich Inlet Site Survey
	Clean SI Node Cathode
	Recover SI VIP
Dive Coordinates:	
Saanich Inlet Node:	48° 39.0540' N, 123° 29.2030' W
Saanich Inlet VIP:	48° 39.0782' N, 123° 29.1870' W
Planned Location, 3D Camera Platform:	TBD ~ 70m SSW of Node
Planned Location, DSC Camera Platform:	TBD ~ 70m ENE of Node
Submersible (ROV) Rigging Required for Dive:	
Dust Cap for ODI Connector	
Recovery Line (300m Blue Line with Sea Catch Hook) w/ Emergency Cutting Knife	
Seabird 19+ CTD w/ SBE43 Oxygen Sensor	
Dive Operations Order and Procedures:	
Deploy ROV	
ROV Crew to Conduct Test Dive Procedures as Required	
Locate SI Node	
Visual Inspection of SI Node Condition	
Locate SI Node Cathode, pick up SI Node Cathode, shake clean and replace	
Visual Inspection of planned 3D Camera Site	
Visual Inspection of planned DSC Camera Site	
Locate SI VIP	
Fly to SI Node, surveying SI VIP Hose location for crossovers and entanglements	
Unplug SI VIP ODI Hose from SI Node Port 2	
Install Dust Cap on SI Node Port 2	
Fly SI VIP ODI Hose to SI VIP location and drop	
Clip recovery rope and hook into SI VIP	
Recover ROV with recovery rope below	
ROV On Deck	
Spool recovery rope onto recovery winch through block	
Recover SI VIP with ODI Hose below	
SI VIP on deck	
Recover SI VIP ODI Hose	
SI VIP ODI Hose on deck	



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Dive Number:	OE0122
Date:	September 17 2014
Location:	Saanich Inlet Node Site
Launch Time:	1330
Recovery Time:	1500
Objectives:	Deploy 3D Camera
	Deploy DSC Camera

Ship Procedure and Operations:	
Assess weather and sea state. Proceed only when Master and ROV Supervisor agree it is safe to do so.	1230
Confirm ROV USBL Pole remains deployed from dive OE0121	1230
Deploy 3D Camera Platform via work wire and acoustic release; location as directed by Navigation	1230-1300
Deploy DSC Camera Platform via work wire and acoustic release; location as directed by Navigation	1300-1330
Upon completion of Dive Operations, recover and stow ROV USBL Pole	1500-1530

Shore Communications:	
On-Shore Team will tweet using the @oceannetworkops Twitter account at the beginning of the dive	
On-Shore Team will post the dive plan on the cruise web site	
On-Board Team will use Skype during operations as required	

Navigation:	
Record all positions noted by the Dive Chief	
Record all positions of items of note as requested by On-Board Team/On-Shore Team	
Direct ship positioning via ROV/Ship Navigation system as required	

Dive Chief:	
Record deviations from Dive Plan	
Record changes to site layout diagrams	

Digital Infrastructure Action Items:	
Shut down Node Port 2 at request of On-Board Team; Confirm all DI Drivers Stopped	
Turn on Node Port 1 at request of On-Board Team; Check Instrument Functionality; Start DI Drivers	
Turn on Node Port 5 at request of On-Board Team; Check Instrument Functionality; Start DI Drivers	

Site/Equipment IDs and Actions:								
ACTION	SITE ID	SITENAME	DEVICE ID	DEVICENAME	LATITUDE	LONGITUDE	DEPTH	PORT
Turn On DISCO Camera Platform	1000038	DCF2-03	23100	S30013	TBD	TBD	TBD	NP1
			23135	SeaBird CTD 16 plus 7286				SP1
			23138	SeaBird 43 Oxygen (S/N 2584)				SP4
			101	VENUS Digital Still Camera 01				SP5
Turn On 3D Cam Platform	1000352	3DC-01	1300	S30011	TBD	TBD	TBD	NP5
			38	SeaBird CTD 16 plus 5047				SP1
			1102	Aanderaa Optode 4175 (S/N 0580)				SP1
			23331	3D Camera U of A				SP5



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	Deploy DSC Camera

Dive Coordinates:	
Saanich Inlet Node:	48° 39.0540' N, 123° 29.2030' W
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Planned Location, 3D Camera Platform:	TBD ~ 70m SSW of Node
Planned Location, DSC Camera Platform:	TBD ~ 70m ENE of Node

Submersible (ROV) Rigging Required for Dive:	
Recovery Line (300m Blue Line with Sea Catch Hook) w/ Emergency Cutting Knife	
Seabird 19+ CTD w/ SBE43 Oxygen Sensor	

Dive Operations Order and Procedures:	
Deploy ROV	
Locate 3D Camera System	
Grab 3D Camera System ODI Hose and prepare hose for deployment	
Fly 3D Camera System ODI hose to SI Node	
Remove Dust Cap from SI Node Port 5 and stow	
Plug 3D Camera System ODI Hose into SI Node Port 5	
Locate DSC Camera System	
Grab DSC Camera System ODI Hose and prepare hose for deployment	
Fly DSC Camera System ODI hose to SI Node	
Remove Dust Cap from SI Node Port 1 and stow	
Plug DSC Camera System ODI Hose into SI Node Port 1	
Unplug SI VIP ODI Hose from SI Node Port 2	
Install Dust Cap on SI Node Port 2	
Fly SI VIP ODI Hose to SI VIP location and drop	
Clip recovery rope and hook into SI VIP	
Recover ROV with recovery rope below	
ROV On Deck	
Spool recovery rope onto recovery winch through block	
Recover SI VIP with ODI Hose below	
SI VIP on deck	
Recover SI VIP ODI Hose	
SI VIP ODI Hose on deck	