



## Regional Operations Centre, Canadian Coast Guard Western



### Science Cruise Report: PAC 2020-053

**Report last updated:** 2021-11-02 13:14:12

<https://www.waterproperties.ca/requests/cruiseplanview.php?cruiseid=2020-053>

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**Department/Group:** Fisheries and Oceans Canada, ESD

**Other Participating Groups:**

**Science Cruise Number:** PAC 2020-053

**Alternative Cruise Number:** N/A

**Ship's Patrol Number:** N/A

**Name of Vessel/Platform:** Vector

**Dates:** **From:** Tuesday 31-Aug-2021 **To:** Monday 06-Sep-2021

**Chief Scientist:** Terri Sutherland, 604-666-8537, [Terri.Sutherland@dfo-mpo.gc.ca](mailto:Terri.Sutherland@dfo-mpo.gc.ca)

**Master:**

**Fishing Master:**

**Appropriateness of Vessel:** Excellent

### Time Allocations

**Originally Allocated Days** **7.00**

Accounting below is given in days and should match the originally allocated days above.

Weather	+ 0.00
SAR	+ 0.00
CCG Refueling	+ 0.00
CCG Ship Repair & Maintenance	+ 0.00
CCG Crew Changes	+ 0.00
CCG Other	+ 0.00
Science Operations	+ 6.00
Science Equipment Loading/Unloading	+ 1.00
Science Other	+ 0.00
Days Gained	+ 0.00

**Days Grand Total** **= 7.00**

**Time Allocation Comments:** We did not have any time lost or gained.

### Cruise Events

#### Areas of Operations

Strait of Georgia

**Scientific Personnel**

Male - Name	Notes (Affiliation, Watches, Duties, etc)
Mark Belton	CTD Custodian
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Female - Name	Notes (Affiliation, Watches, Duties, etc)
Terri Sutherland	
Cher LaCoste	

**Event Log**

31-Aug-21: 1200; IOS dock - Arrive and load gear  
31-Aug-21: 1500; IOS dock - Depart for Jervis Inlet  
1-Sep-21: 1100; Jervis Inlet - Pick up science personnel at Earl's Cove (Vector1)  
1-Sep-21: 0700-1900; Jervis Inlet - CTD-Niskin, Grab stations  
2-Sep-21: 0700-1900; Jervis Inlet - CTD-Niskin, Grab stations  
3-Sep-21: 0700-1900; Jervis Inlet - CTD-Niskin, Grab stations  
4-Sep-21: 0700-1900; Jervis Inlet - CTD-Niskin, Tidal Station Jervis entrance, Grab  
5-Sep-21: 0700-1700; Jervis Inlet - CTD-Niskin, Tidal Station Skookumchuck entrance, Grab  
5-Sep-21 1200; Jervis Inlet - Drop off science personnel at Earl's Cove (Vector1)  
5-Sep-21 1700; Jervis Inlet - Depart for IOS  
6-Sep-21 700; IOS dock - Arrival at IOS dock  
6-Sep-21 700; IOS dock - Demobilize gear

**Scientific Equipment Report**

Please note that the cruise number was changed from 2020-053 to 2021-153  
CTD and grab deployments were very successful with the deep depths (up to 600-700 m).

**Radioisotope Report**

Nil

**Scientific Successes and Concerns**

Mark Belton lead the CTD niskin profiles that will result in a valuable and meaningful data set, especially with the tidal stations.

**Platform Successes and Concerns**

The Vector provides a good turning radius in relation to the narrow nature of Jervis Inlet. Especially during tidal stations (repeated CTD profiles) in tight areas at the entrance of adjoining inlets (Sechelt Inlet). We were able to capture a time-series of the exiting tidal jet. The Captain and Mates managed station-keeping very well under these circumstances.

**Safety Concerns**

No safety concerns

**Hazardous Occurrences**

No hazardous occurrences.

**Other Comments**

Please note that the cruise number 2020-053 has been changed to 2021-153 for data logging.

**Images**

[No Alternative Image Provided]

**Image notes:**

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