

## Cruise Report DY-13-01

27 January – 03 February 2013

After some delay, the Oscar Dyson left Pier 90 in Seattle at 1700 on Sunday the 27<sup>th</sup> of January for the S.E. Alaska PMEL mooring cruise. Participants in this cruise were Wm. Floering (PMEL) and Dan Naber (U of AK Fairbanks). Prior to departure, on the previous Friday two PMEL flatbed truck loads of equipment were delivered to the pier and a commercial 40 foot flatbed load and one additional PMEL flatbed load were delivered to the pier on Sunday morning. The equipment was craned aboard, unpacked and secured.

The vessel travel north up the inside passage to the southern most mooring location at Port Conclusion. The pre-selected location and expectation for the placement of the CO<sub>2</sub> surface mooring in Port Conclusion was something around 58 meters depth. When we arrived at the provided site the depth was double what was expected and double what the mooring was designed for. We spent the next 2-3 hours surveying the area to try to locate a suitable, somewhat flat area in the 58 meter range. A location further up into the bay was selected and the mooring was deployed without incident. As a side note I was told by the CO<sub>2</sub> representative that the main real time reporting instrument was not working properly for reasons unknown at this time. The mooring (13-PC-1A) was deployed at 11:17:00 on 1/31/13 GMT. Position is 56.2645 degrees N and 134.6690 degrees W. One CTD was conducted at this site with DIC, Oxygen and nutrient samples taken by the Univ. of Alaska Fairbanks representative.

As we travel north the next 8 mooring locations are sites that were occupied by PMEL in 2011. The positions and depths were pre-selected and little surveying was needed to find a reasonable deployment site. The subsurface mooring 13-CSP-11A was laid out on deck and partially assembled when we arrived at the deployment site on 1 Feb. 2013. The mooring was deployed at 15:15 GMT in approximately 119 meters of water at 56 degrees 23.75 minutes N and 135 degrees 08.45 minutes W. The next subsurface deployment was 13-CS-12A. Again, the mooring was laid out on deck and partially assembled in advance to minimize our time at each station. This mooring was deployed in 128 meters at 22:02 hours on 31 Jan. 2013 GMT. Location is 57 degrees 24.104 minutes N and 136 degrees 10.712 minutes W. As we motored north out next stop was subsurface mooring 13-CS-13A, deployed in 132 meters of water at position 57 degrees 49.282 minutes N and 136 degrees 40.167 minutes W. Deployment time was 01:31 Feb. 1<sup>st</sup>, 2013 GMT. The next 3 deployments were short 75 or 300 Khz ADCP moorings across the pass. The first of these 3 moorings (13-CSP-3A) was deployed on 1 Feb. at 03:28 GMT in 310 meters of water at position 58 degrees 07.133 minutes N and 136 degrees

**Cruise DY-13-01 (cont.)**

<b>Mooring Name</b>	<b>Release #</b>
13CSP3A	30640
13CSP1A	43295
13CSP2A	30533
13IP1A	43291
13IPP3A	18054
13PCP1A	33417

See attached charts for approximate mooring locations.

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ACQ connection UP

Distance = 00000.00 nm = 00000.000 km

Projection: Alaska Albers Equal Area Conic

Scale 1: 183,598

56,1119 -134,6746

851,458 1,183,788

MOORING LOCATIONS.

- NONE
- CTD
- Buoy
- ⊥ Mooring
- ⚓ Trawl
- ⚓ Bongo Tow
- ★ Mochness
- ◆ Net

USALASKASE.SHP

USALASKABERING.SHP

Time Trackline

Assel Lat	0.00000
Lon	0.00000
Hdg	0.00000
Net Lat	0.00000
Lon	0.00000
Fixes	0



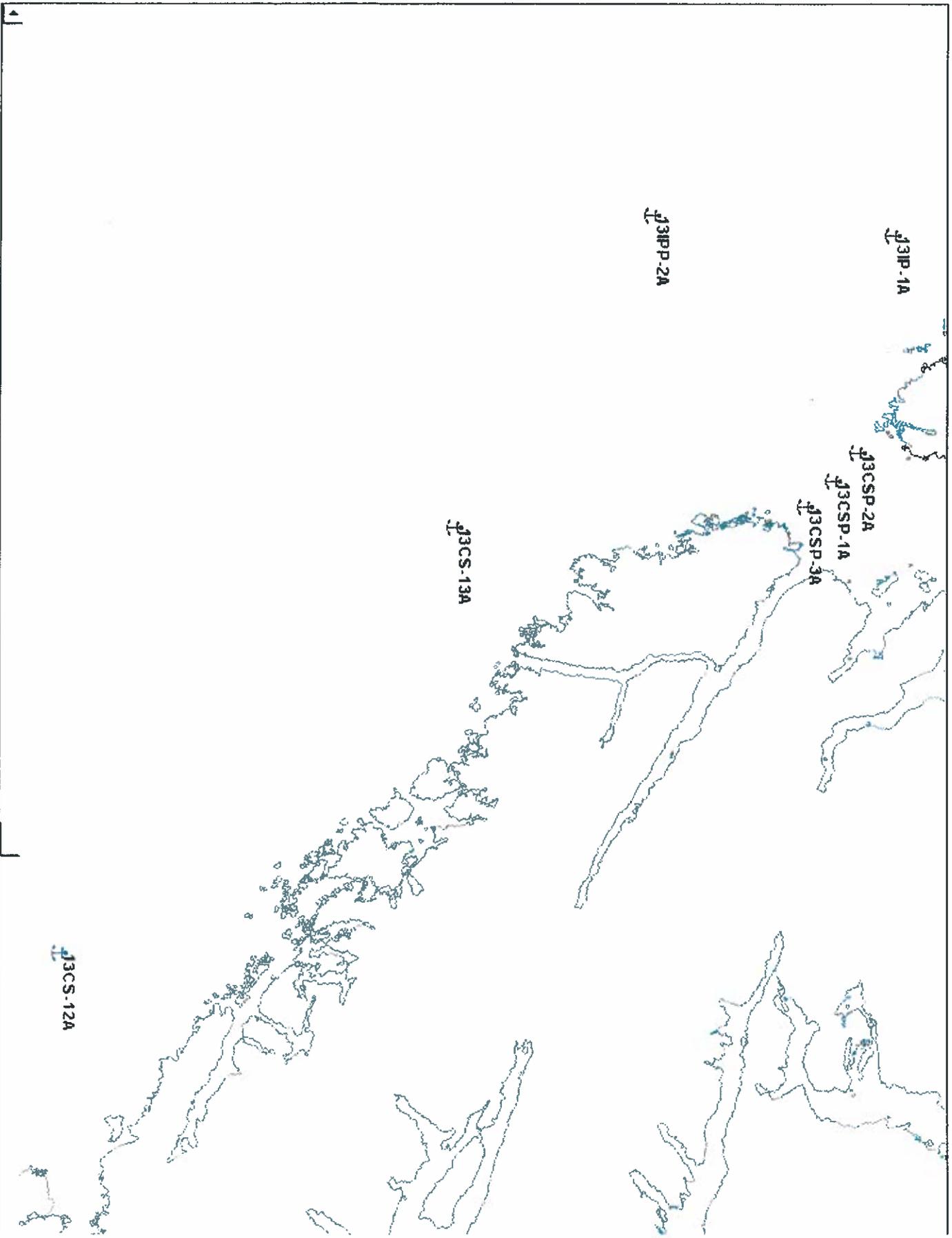
- MOORING LOCATIONS.**
- NONE
  - CTD
  - Buoy
  - ⊥ Mooring
  - ⊥ Trawl
  - ⊥ Bongo Tow
  - ★ Mochness
  - ◆ Net

USALASKASE.SHP

USALASKABERING.SHP

# Time Trackline

essel Lat	0.00000
Lon	0.00000
Hdg	0.00000
Net Lat	0.00000
Lon	0.00000
Fixes	0



ACQ connection UP

Distance = 000000.00 nm = 000000.000 km

Projection: Alaska Albers Equal Area Conic

Scale 1: 388,061

58.6391 -152.7031

950.873 75.062

- MOORING LOCATIONS.**
- NONE
  - CTD
  - Buoys
  - Mooring
  - Trawl
  - Bongo Tow
  - Mochness
  - ◆ Net

USALASKASE.SHP

USALASKABERING.SHP

Real Time Trackline

essel Lat	0.00000
Lon	0.00000
Hdg	0.00000
Net Lat	0.00000
Lon	0.00000
Fixes	0

