

SUMMARY OF CRUISE 78-2, DALZIEL-- CORDILLERA DARWIN

The cruise started as scheduled & it was very clear that the preparations by Dr. Dalziel & N.S.F. had been very successful. We picked up the Chilean channel Pilot at Ushuaia & were able to proceed directly to the first station. The Pilot had been advised of the length of the cruise. He did arrive with information that some of the areas of interest were of bounds, this seems to be a pattern every year, but as they change the restricted areas it seems that in time we will see most of them.

The science party was just the right size (6 max.) for this type of cruise. One of the conditions given us by message prior to picking up the pilot was that he be afforded a single cabin.

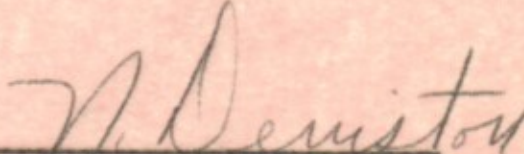
As these geology trips require a great amount of boat usage, the engines & Zodiacs receive a large percentage of their annual hours during this time. The large number of launching & beaching & at times operation in various types of ice conditions do require extra care & maintenance by the crew during the voyage in order to keep them operational. The latest O.M. with the new electronic ignition system hold up well & gave us no trouble over a period of one month's heavy use because of the long distances covered & the use most of the time of two boats, extra fuel must be carried.

Water consumption is a factor on these trips. Water for washing clothes was rationed at times, but showers for the returning scientists & boat crews were always available.

Weather during the first half of the cruise was in most part good. During our port call at Punta Arenas we rode out the worst storm in that area in twenty years. We anchored offshore & were able to return to the dock when the port was opened after two days & nights.

The clothing issued to the shore party seemed to satisfy them. The float coats could use stronger thread for securing the zippers. Rain gear/bottoms need to be of very heavy material to stand up under the scrambling in & out of the boats onto the rocks. The pre-fab rock boxes work out well with the sections being brought aboard in bundles & assembled as needed. With the handles the boxes are handy for one or two men to move & the size makes it possible to fit them through the hatches.

YS AT SEA 56d 1h 55m  
TOTAL DIST. 1,345 n.m.  
ZODIAC LAUNCHINGS 167

  
NORMAN DEMISTON — MASTER



USHUAIA IN PORT PERIOD -APRIL 78

Saturday and Sunday 8/9 April—<sup>A</sup>outine maintenance and watches  
Finished monthly mad cruise reports—continue preparing work orders and requisitions

10 April 78

0700—Calm, dry day —Riding easy

0800—Crew on maintenance and cleaning vessel—Start main engine —<sup>P</sup>reparing to move

0815—Start moving ves el astern to the Water facilities

0825—Alongside the water valve—Crew starts washing down stack and deck—trying to  
remove all the sooth and oil

1100—Contact with Palmer—Passed traffic

1645—Finished taking water and washing down—Depart water facilities

1700—alongside our regular berth— Secured engine—Cleaning and maintenance progressing

2200—Slowly but surely getting all reports ready for mailing

11 April 78

0700—Calm wet weather—low clouds

0800—Crew on maintenance and cleanup

1200—Contact with Palmer—Passed traffic

1700—Cleanup coming along good—

2300—Finally getting to some of the Resupply items and getting them stobed in the  
right places—

12 APRIL 78

0700—Cool dry weather—Clear

0800—Crew on maintenance and cleanup—Zornoza joins vessel as Seaman

1100—Contact with Palmer —Passed traffic

1200—Cool clear weather

1700—Secured crew—Fair weather prevails

13 APRIL 78

0700—clear cool weather—

0800—Crew on maintenance and cleanup

1100—Contact with Palmer—passed traffic

1200—Deteriorating weather—Low clouds —rain

"hile cleaning freezer found quantities of meat and fish spoiled trough  
inadequate packing

1400—Heavy rain hampers outside maintenance.

1700—Secured crew—

1800—Three boxes arrived from Comus direct to Ushuaia but held at Rio Grande three  
days due to faulty papers.

Low clouds with heavy rain—SW winds at 35 kts.

14 APRIL 78

0700—Low clouds, heavy rain, cold

0800—Crew on maintenance and cleanup of warehouse

1100—Contact with Palmer, passed traffic

1200—weather moderating, rain stopped.



14 APRIL 78 —Cont....

1700—Secured crew —Net weather prevails

2300—Heavy rain with light SW winds

15 APRIL 78

0700—Cool dry weather, Overcast windy

0800—Crew on minimum maintenance

1100—Contact with Palmer—Passed and relieved traffic—

1300—Clearing weather

1700—Clouds closing in again—

2300—Heavy rain windy weather

16 APRIL 78

0200—Heavy winds from the SW with heavy rain

0700—Cool dry and windy

0800—Crew on minimum maintenance

1100—Contact with Palmer — Passed Sitrep

1200—Low clouds with heavy rain persist—

1800—Low clouds and heavy winds prevail with rain

2300—Hard to believe it can rain this long —heavy winds prevail

17 APRIL 78

Cloudy rainy weather—Cleaned up in warehouse and on the vessel—painting winchroom repaired messhall carpet

Automatic pilot now rearranged and hopefully will not be affected anymore by the radio transmissions

18 APRIL 78

All day rainy and windy—continued winchroom and warehouse = making shelves in the forepeak

getting caught up on the work orders and requisitions

19 APRIL 78

0700—Overcast but dry—will try to clear the deck

0800—Crew on maintenance and repair

1100—Contact with Palmer—Passed SitRep

1200—Clouds breaking up —sun breaking through the patches

1800—No news from the boxes supposed to be in Rio Grande

20 APRIL 78

0600—Cold windy weather—SW 45 kts.

0800—Crew on maintenance and repair

1100—Contact with Palmer—Nothing new—Passed Sitrep

1200—Agent reports that the boxes are supposed to arrive at Rio Grande today and he as instructed the Rio Grande office to forward them immediately

1400—Start main engines preparing to move to water dock

1500—Moved vessel to the water station at other end of dock

1730—returned to normal berth—took 18000 liters of water—

1900—No news as yet from Rio Grande about the engine parts



21 APRIL 78

0600-Light overcast, dry warm weather

0800-Crew on maintenance and clean up

1100-Contact with Palmer-Received clearance for cruise 78-2

1200-Clear calm weather-Vessel starting to look good

1700-Cleared the decks and all internal space cleaned -Vessel ready for official party-

Boxes of spares arrived and passed customs-all in good shape boxes came direct from CONUS to Ushuaia.

1800-Engineer reports all spares relieved to affect the repairs

Cool clear weather prevails

2200-Clear and cool, riding easy at the dock

22 APRIL 78

0600-Clear and cool, dry weather-

0800-Crew on minimum maintenance and getting ready for the reception

1200-Vessel and crew ready for the reception

1330-First of the Guests are arriving

1730-Guests are starting to leave

2300-All cleaned up -Reception was successful

23 APRIL 78

0800-Crew on standdown today -minimum maintenance

1100-Contact with Palmer-No news

1300-Set up left overs from Yesterday and had crew invite friends and relatives

1800-Good weather-clearing sky

2300-Riding easy at the dock

24 APRIL 78

0700-Clear cold weather-

0800-Crew getting ready for cruise 78-2

1100-Contact with Palmer-No news-

1200-Engineers are now running into problems with the plumbing on the engines

1730-Engineer reports he will need some parts to finish the repairs on the engines

1930-Send immediate message to H & N for the needed parts to be hand carried

2000-Fair weather prevails

25 APRIL 78

0700-Overcast dreary weather-light rain

0800-Crew on maintenance and repair-getting ready for cruise 78-2

0830-Capt. Barquin stopped by to advise me the personnel from Belgrano will arrive at Rio grande at 1530 Local-

1100-Contact with Palmer-No news from CONUS

1300-Start making copies of the work package--

1700-Received message no unions available in CONUS- All plumbers must now use Plastic or some other substitute-Resend message with phone numbers to call

2200-finished making up work package as far as possible.



26 APRIL 78

0700-Cold windy and wet weather

0800-Crew on maintenance and repair-preparing for cruise 78-2  
1100-Contact with Palmer-Comus found Union for the Port Engine  
1200-Weather clearing but windy-  
1300-Loading supplies for 78-2  
1615-Moving vessel to accommodate the docking of another vessel  
1700-All secured in most forward position on the deck  
1900-~~Started~~ Belgrano personnel have shown on the vessel-  
2100-~~Have~~ 70 work orders ready to be gone over--  
2100-Belgrano personnel depart-Managed to get through the first 6 work orders  
2200-Cold wet weather prevails

27 APRIL 78

0700-Cold dry weather-  
0800-Crew on maintenance and repair-preparing for cruise 78-2  
0830-Start working on the repair package with the Belgrano representatives  
1100-Contact Palmer- No news from COMUS  
1300-Cool clear weather-  
1730-Called a halt to the inspection and walk trough untill tomorrow  
Sofar it seems that most material is available in Argentina  
will have problem with wood for the sheathing  
1900-Fair weather prevails -Keep working on the repair work orders

28 APRIL 78

0700-Cool dry weather-  
0800-Crew on maintenance and preparing to get underway for cruise 78-2  
1000-Belgrano personnel arrive and start in on the walk around  
1100-Contact with Palmer- Recieved sailing orders  
1200-Stopped for lunch  
1230-Resumed walk around with Belgrano personnel-  
1500-Belgrano personnel departing -they seem to be satisfied with the information  
obtained from the visual contact  
1600-Overcast closes down -getting damp  
1800-Recieved phone call from Puerto Williams informing vessel the Chilean Pilot will  
embark at Les Eclairuers but only if single occupancy of cabin is guaranteed



0700 - Cool dry  
0800 - crew on gen maint  
1700 - Knock off day work

1730- H. Deniston arrives aboard.

2300- cont. clear & dry.

30 April 78

0800- Holiday routine, tend lines & gangway. maintain engine room & fire watch

2200- calm, clear. all well. .

1 May 78 National Holiday in Argentina, all offices & shops closed.

0700- cool, 0' est

0800- Turn to gen maint. & make ready for sea.

0900- Request Pilots for AM sailing tomorrow. 0930 for local II00 for Chilean.

1600 Agent advises no way to receive cargo offloaded today from Buen Suceso, it must go to customs warehouse & be received later.

1730- Dalsiel & party arrive. Fit out in warehouse & load gear needed for cruise

1830 - Ready for sea, set sailing time for 0930 2 May.

2100- all secure, fair weather.

2 May 78

0700 Cool-0' est

0800- Make ready for sea.

0930- Ready to sail waiting for agent & papers

1000- Clearance given, let go all lines and underway Cruise 78-2

1300- Arrive Bahai Yendgia, Zodiac away with first shore party

1325- Zodiac away with Pilot to visit Carabinero base. All is well they even knew we were cleared to work in this area.

1615- Getting dark, shore party aboard, underway for anchorage

1655- Anchored in Ferrari Cove.

2130- wind calm

3 May 78

0700 - calm , 0' est

0750 - Underway to first station in Beagle Channel

0915 - Shore party away in wind & rain. moving from place of interest along the north and south shore of the Beagle, weather conds poor, wet & windy.

1750 : Anchored in Cta Olla, North west Arm of the Beagle. Shore party finished for the day.

4 May 78

0700 - Windy, cldy

0800 - Shore party away, working inside of cove.

0930 - Weigh anchor & underway

0955 - Stand off Deablo Isl.

1205 - Pick up Shore party, move 6 miles east on north shore of Beagle

1250 - Shore party ashore , same area.

1630 - Pick up shore party, underway.

1740 - Anchored Olla Cove , 2 shots in 15 meters.

2130 - Spoke with Chilean naval vessel running without lights in the N.W. arm of the Beagle. After we identified ourself they turned on their lights.

2300 - All is well, weather conds. calm & clear.



5 May 78

0700 - Calm, clear

0730 - First shore party away

0850 - Underway, tending Zodiac & shore party working northshore N.W. arm Beagle canal.

1300 - Weather conts. fair. Working around Ventisquero Italia.....

1610 - Shore party aboard, set course for anchorage.

1700 - Anchored for the night in Morning Cove, Romanche Bay, south shore N.W. Beagle.

6 May 78

0600 - Calm, clear, dark

0635 - Underway

0800 - Arrive inside Seno Pio, working eastern shore towards the head of the eastern arm

1340 - Anchored in "HERO COVE" upper end of Seno Pio, eastern arm. Fair & cold, "grease ice" on surface numerous locations. Brash & "trash ice" from glaciers.

1700 - Light falling, shore party returns & secures for the night.

2200 - Riding at anchor, flat calm.

7 May 78

0800 - Anchored as before. Calm, cool, O'est.

0810 - Shore party away, working around base of glacier

1010 - Swing ship at anchor to record deviation of steering & standard compass.

1640 - Weather turns foul, wind & rain. Shore party returns for the day.

2200 - Calm, all quiet topside & below.

8 May 78

0645 - Calm, O'est, rain

0750 - Zodiac away, shore party bound for N.W. arm Seno Pio

0807 - Weigh anchor., follow boats to new station.

1330 - Working near glaciers at the upper end of the N.E. arm Seno Pio.  
Heavy brash ice, glacier calving frequently.

1630 - Underway to make anchorage while still light.

1715 - Anchored for the night western side of Seno Pio, 3 shots in 25 meters.

1900 - Weather, Calm & cold.

9 May 78

0700 - Calm, p'tly cldy

0800 - Shore parties away, working around anchorage area.

0910 - All aboard & underway for Seno Carrado

1020 - Arrive & launch Zodiacs to work inside, shallow sill prevents entrance by HERO

1630 - Shore parties return, underway for anchorage.

1720 - Anchored in Seno Garibalde. Rain. cldy....

2300 - Calm, rain.....Riding at anchor, all is well topside & below\*\*\*\*\*

10 May 78

0700 - S.W. wind 20 Kts., rain

0850 - Underway, bound Seno Carrado

0930 - Arrive & launch Zodiacs for days work inside. Hero standing off, no anchorage.....

1650 - Aground of entrance Seno Pio while maneuvering to pick up Zodiac. Onshore wind & tide

1900 - Unsuccessful in efforts to refloat. Call for assistance through pilot.

2400 - Falling tide ship setting on bottom of sand & gravel. Starboard list.



11 May 78

0001 - Cont. make ready for refloat attempt at high water this A.M. Trans.

fuel & water. the soundings around vessel. Flake out tow line, etc.

0300 P.T. boat ! calls & will be first here at day break.

0800 - High water.. P.T. takes two good pulls moving the ship each time. On 2nd pull line went in his wheel, good try but he has no tow boat. He falls off to meet patrol boat with divers to clear line. we retrieve tow line & make ready for next attempt. High water this P.M.???????

1000 - Glass high, weather O'cast, light breeze, ship sitting on keel 3° Stbd list. Tide ebbing

1340 - Low water, 6° lgt, sea calm, Ready to slip One shot of chain & port anchor at high water

Navy diver reports one section of worm shoe missing from keel, two other sections splin  
Propeller blades show some evidence of contact with rocks. Hull show no damage only some  
rub marks on three planks. Plan now is to go straight ahead with the patrol boat towing  
& the P.T. boat running up & down close aboard to make a swell to help us off!!!!!!

1630 - Start rigging for tow off, Patrol boat first, the P.T. trying our lines. Patrol boat  
could not steer...NO towing bitt. Got them out of the way and tried with P.T. only.

1715 - With assist from P.T. & own engines came afloat & underway. Bilge<sup>d</sup>dry, All systems go.  
slight vibration at speed from blades hitting bottom. when aground.

1845 - Anchored in Pto Garibaldi for the night.

12 May 78

0700 - Calm, cold, Ptly cldy.....

0815 - Shore parties away, working shore lines back toward mouth of sound.

0950 - Chilean Patrol Boat FUENTEALBA alongside, talk over best chance of salvage for port  
anchor & one shot of chain slipped at refloating. Divers also inspect lower hull &  
report 2 to 3 mts of worm shoe missing from fwd keel. port side of hull no contact,  
stbd side some light abrasion to the planks. Some fwd sinks missing. Rudder!- no damage  
Propeller.....dings on all blades, 2"to 3"x 1" ..... No other damage observed. Consider  
vessel to be safe & able to carry on until next regular drydocking.

1500 - Fuentealba returns with word that they cannot lift our anchor. Have returned to ask  
for a report on the grounding. Statements taken from the Pilot, 1st Mate, Chief Eng,  
2nd Mate & myself. Also provided them with a report on the ship condition & the fact  
that we planned to continue with the cruise as outlined.

The C.O. stated they could not retrieve our anchor, but was in a good position with  
our buoy still attached. They will have larger tug attempt salvage & leave it at  
P/Arenas for us to pick up later.

2200 - FUENTEALBA away

2330 - Calm, cold clear, riding at anchor.....

0700 - 13, May 78

0800 - Anchor aweigh/underway/Zodiacs away. Working toward head of Seno. Heavy brash ice from  
calving glacier. Calm & clear\*\*\*\*\*

1315 - AT head of Seno, 8 oktas brash ice..Deep water allow Zodiacs to be launched close to s  
By breaking ice with boat hooks they can work to the beach. Glaciers calving with lar  
booms & ice falls. Heavy brash keeps water motion down to low swells

1645 - Shore parties aboard

1845 - Anchored for the night Pto. Garibaldi.



11 May 78

0001 - Cont. make ready for refloat attempt at high water this A.M. Trans.

fuel & water. the soundings around vessel. Flake out tow line, etc.

0300 P.T. boat 1 calls & will be first here at day break.

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1000 - Glass high, weather O'cast, light breeze, ship sitting on keel 3° Stbd list. Tide ebbing

1340 - Low water, 6° légt, sea calm, Ready to slip One shot of chain & port anchor at high water Navy diver reports one section of worm shoe missing from keel, two other sections splinter Propeller blades show some evidence of contact with rocks. Hull show no damage only some rub marks on three planks. Plan now is to go straight ahead with the patrol boat towing & the P.T. boat running up & down close aboard to make a swell to help us off!!!!!!

1630 - Start rigging for tow off, Patrol boat first, the P.T. trying our lines. Patrol boat could not steer...NO towing bitt. Got them out of the way and tried with P.T. only.

1715 - With assist from P.T. & own engines came afloat & underway. Bilge<sup>dry</sup>, All systems go. slight vibration at speed from blades hitting bottom. when aground.

1845 - Anchored in Pto Garibaldi for the night.

12 May 78

0700 - Calm, cold, Ptly cldy.....

0815 - Shore parties away, working shore lines back toward mouth of sound.

0950 - Chilean Patrol Boat FUENTEALBA alongside, talk over best chance of salvage for port anchor & one shot of chain slipped at refloating. Divers also inspect lower hull & report 2 to 3 mts of worm shoe missing from fwd keel. port side of hull no contact, stbd side some light abrasion to the planks. Some fwd sinks missing. Rudder!- no damage Propeller.....dings on all blades, 2"to 3"x 1" ..... No other damage observed. Consider vessel to be safe & able to carry on until next regular drydocking.

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The C.O. stated they could not retrieve our anchor, but was in a good position with our buoy still attached. They will have larger tug attempt salvage & leave it at P/Arenas for us to pick up later.

2200 - FUENTEALBA away

2330 - Calm, cold clear, riding at anchor.....

0700 - 13, May 78

0800 - Anchor aweigh/underway/Zodiacs away. Working toward head of Seno. Heavy brash ice from calving glacier. Calm & clear\*\*\*\*\*

1315 - AT head of Seno, 8 oktas brash ice..Deep water allow Zodiacs to be launched close to shore By breaking ice with boat hooks they can work to the beach. Glaciers calving with large booms & ice falls. Heavy brash keeps water motion down to low swells.

1645 - Shore parties aboard

1845 - Anchored for the night Pto. Garibaldi.



14 May 78

0700 - Calm, cold ,,,1" new ice surround ship.

0810 - Underway for station east of Garibaldi on north shore, no name.

0920 - On station, Zodiacs away. Lay to, rigging new port anchor.

1320 - maintaining station as before. Radio contact made every hour or less. Weather conts. calm, clear, bright sun, vis. 50 miles +....Great weather!!!!!!!

1640 - Shore partys return underway for anchorage..

1750 - Anchored Pto. Garibaldi.

2200 - All secure.....

22

15 May 78

0700 - Calm, cold, 0'est.

0750 - Underway towards head of Seno Garibaldi,

0840 - Turn around at ice edge as too heavy for Zodiac work.

0900 - Working towards mouth of seno along ice free shores.

1320 - Cont. close tending of Zodiacs & shore partys

1505 - Anchored Pto Garibaldi, Zodiacs , working shore line in area. ....

1730 - Scientists aboard for the night...

2200 - Calm , clear & cold.....

16 May 78

0700 - Calm, clear, cold, 0°

0725 - Underway

0815 - On Station, North shore N.W. beagle.....Zodiacs away.

1640 - Underway to anchor

1740 - Anchored Huesmul Cove, Darwin Isl..

2100 - Calm, clear.....

17 May 78

0700 - Calm, 0'est.

0730 - Underway

0800 - Move to off Seno Chair, N.W. Beagle.....

0815 - Zodiacs away with shore parties.

0825 - Zodiac with Mate & seaman sounding entrance & mid-channel into Seno Chair.....

1100 - Sounded into first narrow, nothing less than 100 meters.

1115 - Start sounding along western shore from narrows to mouth looking for suitable anchorages, located two possible locations towards the Beagle.

1230 - working towards junction of two inner arms of this seno. Calm & clear.

1345 - Anchored at N.W. junction.....

1645 - Shore parties returning from days work.

2100 - All well at anchorage "NO NAME"

0700 - Lt winds, 0'est.

0820 - Shore party away to climb mountain\*\*\*\*\*

0945 - Zodiac away with sounding party, working northern arm, Seno Chair.....

1100 - Return to ship.

1630 - Shore party returns to the ship after days work....



19 May, 78

- 0735 - Underway.....Calm, O'cast, Lt rain.....
- 0830 - On station N. shore N.W. Beagle, N. of Chair Isl.
- 0845 - Zodiacs away with shore parties...
- 1230 - Underway
- 1345 - On Station W of Seno Chair
- 1615 - Recall shore party.....
- 1700 - Search outer section Seno Ventisquero for suitable anchorage for the night..NO LUCK..
- 1745 - End search, Underway for Fortuna anchorage ; Londonderry Isl.....
- 1830 - At anchor in 20 meters.....
- 2130 - All well, calm, lt. rain.

20 May 1978

- 0700 - Underway....Calm, clear, 64C
- 0800 + On station, ent to Seno Ventisquero
- 0815 - Shore parties away for days work Ships Zodiac taking soundings.....
- 1620 - All aboard & Underway.
- 1835 - Anchored, Seno Garibaldi.....

21 May 78

- 0650 - Underway
- 0750 - Arrive off Seno Cerrado
- 0805 - Zodiac off to sound & search for anchor..
- 0855 - Anchor sighted in 8' of water.
- 0925 - Sling rigged on anchor
- 1000 - Line bent to sling & bitter end returned to the ship standing off in 60 meters.
- 1040 - Anchor & chain clear of the bottom & under the bow.
- 1130 - Anchor at surface & under A-frame
- 1220 - Anchor secure, chain on deck....Underway....
- 1305 - On station Seno Garibaldi
- 1440 - Work complete this area, Underway, bound for Seno Keats.
- 1605 - Anchored for the night at Isl Burnt....Full moon, calm sea, clear.....

22 May 78

- 0655 - Underway.....Wind North 30kts.
- 0930 - Enroute Puerto Barrow, Isla Diego via Brecknock & Cookburn channels. Wind increases to force 9, sea builds & much spray.
- 11530 - weather moderates , wind dropping.
- 12600 - Anchored P Barrow, 18 meters, 2 shots, winds dropping.
- 13100 - Let go 1 more shot of chain for the night...total now 3 in the water.....

23 May 78

- 0650 - Up anchor & underway
- 0800 - Arrive on station Seno Keats, working east along north shore tending shore party
- 0830 - Light fades, shore party aboard, underway...
- 08715 - Anchored, Angelina Cove.....



24 May 78

0700 - Calm, fog, 7°C

0830 - Weather clears, shore party away to work in cove.

5 - Rigging anchor & chain to return to port hawse pipe.

5 - Anchor home.

0 - Underway to pick up shore party

- Shore party aboard

0 - Anchored in Angelisa Cove.....

0 - Riding easy at anchor.. light rain...

ay 78

- Underway

- On Station , Seno Agustini

- Shore party away, anchor in 25 meters.

- Under way , follow Zodiac along coast....

- Anchored, Seno Serrano. Heavy brash ice. Calm, cool.....

ay 78

- Under way to Seno Hyatt

+ Zodiacs away, working both sides of Seno....

- Finish for the day, inspection of local rocks\*\*\*\*

- Anchored in Cove with no-name at mouth of Seno Serrano\*\*\*

ay 78

- Underway

- Onstation off Point Divide, launch Zodiacs....Working into Seno Serrano

- "Rock hoppers" aboard for lunch

- Resume work at upper end of seno

- Knock for the day, under way....

- Anchored inside Lower Point, Seno Serrano\*\*\*\*\*

ay 78

- Under way, Zodiacs working out from anchorage to the north, Hero follows.

- Shore party aboard, all work this half of cruise finished. Under way, bound for Punta Arenas.....Via Puerto Hambre, so Pilot can reg.

- Anchored Puerto del Hambre, 15 mtrs, 3 shots of chain.....

ay 78

- Under way for Punta Arenas

- Moored Punta Arenas city dock.

- Boarding party arrives, Customs, Immigration, INTERPOL, Port Capt., etc.

- Recvd official clearance to enter port...

- Scientific party ashore.

- Crew turns to on clean up & gen. maint.

- Tried to call H&N,,,,NO answer; Holiday in the states.....

- All secure ,,,, rain, calm...



30 May, 78

0800 - Turn to, Gen. Maint. & Repair Zodiacs, clean & paint gas drums  
lube Hydro-winch.... Top off water tanks.

1700 - Knock-off day work.

1800 - Top off fuel tanks, first truck unloading.....

2245 - Finish fueling, last truck leaves....

31 May 78

0615 - Weather kicks up, wind North 25 kts.

0915 - Under way to clear weather side of dock

0925 - Anchored off Punta Arenas.... \_ shots in 25 meters. Wind 35 kts. from the north.

2400 - Anchored, wind force 6, heavy rain...

1 June 78

0600 - Anchored as before. wind N.E. 6 with rain..

0830 - Agent advises port is officially close due to gale force wind & heavy seas.

1730 - Port still close, but launch brings crew members stranded ashore & returning members.

2145 - Wind moderating. S.E. force 2.....

2 June 78

0715 - Calm, light rain... Stand by for permission to return to dock..

0855 - UP anchor & underway, standing by for Pilot.....

1000 - Alongside Punta Arenas city dock.

1030 - Revd. most of ANB-83151342, but no maint. books as yet.

1700 - Finished loading gasoline for next leg of cruise. Taking two extra drums....

1900 - Start Cocktail Hour for local officials connected with N.S.F. programs in this area..

2200 - Last guest leave, good time had by all. Navy, E.N.A.P, Institute Of Geology,, British  
consul, etc.....

3 June 78

0730 - Calm, clear, cold.

0800 - Turn to make ready for cruise. etd 3 PM 4 June. Check out Zodiacs & motors,

1000 - Load provisions & stow

1500 - Science team moving back aboard.....

1600 - Waiting for science team member due on afternoon plane.....

1725 - Collected crew, scientists, Pilot all at one time & got under way, at last!!!!!!

2400 - Under way as before...

4 June 78

0400 - Arrive off Bahia Parry, stand off till daylight.

0830 - Inside at mouth of La Blanca, Zodiacs away

1200 - Shore parties return for lunch, under way for Bahia Parry

1245 - Beats away for afternoon work.. Low clouds, low temps, rain & snow.....



5 June 78

0700 - Heavy snow.. "Tiddly Pom"

- 0830 - Anchor aweigh & underway.....
- 0910 - Zodiac away sounding Entrance to east & west arms of Bahia Parry
- 1015 - Shore party away, working in eastern arm. Snow squalls. Bands of brash ice streaming from heads of western seno, two glaciars!
- 1300 - cont. sounding, looking for passage to inner arms.
- 1456 - High winds, heavy snows force work to end..All aboard, working through 6/8th ice to mouth of seno Parry.
- 1655 - Anchored in Caleta Stanley 25 meters, 3 shots. snug harbor,,riding well.

6 June 78

- 0705 - Under way to Bahia Answorth
- 0915 - Working incenter of Bahia towards 1st station..
- 0955 - Launch Zodiacs....western shore.
- 1130 - finish taking soundings along west side, locate & sound anchorage area.
- 1200 - Group aboard for lunch & to plan afternoons work.
- 1300 - working towards head of bay.
- 1530 - Move to anchorage, Zodiacs returning.....
- 2300 - Weather conts. fair.....

7 June 78

- 0830 -Calm, clear, temp. 4°C..Zodiacs away
- 1330 - Ships Zodiac away to sound east arm..of bay.....
- 1530 - All boats return, light fading rain increasing.....

8 June 78

- 0540 - Under way to Bahia Brookes...Clear, light westerly breeze
- 0920 - Shore parties away, working west shore to inner part of bay
- 0940 - Anchored off Pta. Baja
- 1000 - Zodiac away to sound shallows....
- 1200 - Sounding boat returns, lots of rocks.
- 1330 - Zodiacs with shore partys working inner bay, intouch by radio.
- 1630 - All personnel aboard, all boats secured on deck..

9 June 78

- 0730 - Wind & rain moderating.
- 0900 - Zodiacs away to work deep inside bay. Taking South Comm field phone, & survival gear.
- 1000 - Conyart local fishing boat, for use inretrieving Zodiacs from inner bay in case weather turns bad. They confirm that shallow sill & no anchorages inside make it impossible for use to work south of this anchorage.
- 1630 - Days getting shorter, boat return in near darkness.

10 June 78

- 0700 -Calm, rain.....
- 1200 - weather conts. calm with some rain, shore party working inner bay
- 1530 - Shore party returns for the day.
- 2330 - Weather conts. to improve, clear sky, no wind.....



11 June 78

0715 - Calm, lt. clouds, light brash around ship.

0850 - Zodiacs gone for the day.....

1515 - Shore party returns, work in this area finished.....

2200 - Calm, rain...

12 June

0530 - Under way to make next station by daybreak.....

0900 - On Station Braso Profundo, Bahia Filton...1st Zodiac away.

1200 - All aboard, under way to Seno Keats via Angostura Gabriel.....

1925 - Anchored, Bahia Angelito.... part anchor, 2 shots in the water. Calm, clear.....

13 June

0900 - Shore party away, working near anchorage

1020 - Under way, following boats, . Adjust steering compass, swing steering & standard comp

1200 - Zodiacs aboard, run to Seno Hyatt.....

1310 - Arrive on station, launch boats.. Working north..

1610 - Retrieve all boats, head for anchorage

1700 - Anchored, Angelito Bay.

14 June

0745 - Under way, Calm, O'est.

0840 - On Station, Seno Martinez

0900 - Boats away, working west shore.....

1145 - Party returns for hot lunch

1240 - Over the side again.....

1615 - Rock Hounds call it a day.....

1700 - Anchored.. Cta. Escandallo, Seno Martinez.

15 June

0800 - Underway

0900 - On station S.E. arm, Seno Martinez

1145 - Boats return, shore party eats.....

1245 - Boats away for afternoons work..

1630 - All personnel aboard, under way to anchor.

1750 - Anchored, Cta. Escandallo

16 June

0815 - Under way, Wind North 10 kts, O'est, snow..

0900 - On station, Seno Martinez

0910 - Zodiacs away

1645 - Finish work for the day, boats & personnel aboard & under way.

1800 - Anchored, Escandallo.

17 June

0800 - Under way. Calm, clear

0840 - On Station, Seno Martinez

0910 - Shore party away.

1140 - Rock people return for lunch.

1730 - Anchored.....



18 June 1978

0800 - Under way, Calm, cold, snow.

0900 - On Station, south shore, Seno Keats working west.

1600 - Finished work this area, under way to Seno Ventsquero via Cockburn & Brecknock canals.

1820 - Anchored for the night at Cta Barrow, Isl, Diego.

19 June

0459 - Under way, S.W. wind, snow showers, some moon...

0840 - Turning into Canal Brecknock, weather clearing.

1615 - Anchored Cta. Fortuna, Isl. Londonderry. Snowing...

2200 - all well, heavy snow..

20 June

0740 - Under way

0820 - On Station, Seno Ventisquero

0850 - Zodiacs away with first light.

0940 - Finish sounding outer for possible anchorage. Anchor on east side outer seno.

1530 - Boats return....getting dark...temp. below 0°C.

2100 - Calm, clear, bright moon & cont. cold....

21 June

0700 - Calm, clear, -1°C.

0830 - Boats ready to go, waiting for light to work by..

0910 - Boats away, working outer Ventisquero...

1130 - UP anchor & under way to pick up boats for lunch

1245 - Boats working east towards Seno Chair.

1600 - Finish work, pick up boats in outer Chair.

1740 - Anchored In Pto Garibaldi

2200 - Calm, clear.

22 June

0730 - Calm, clear, -2°C

0815 - Under way to inner seno.

0900 - Boats away

1115 All aboard, move to mouth of seno

1215 - Boats away for afternoons work.

1515 - Work in this area complete, all aboard.

1630 - Enter Seno Pia.

1830 - Anchored upper N.E. arm

2400 - Calm, clear, cold...new ice forming & refreezing with brash...

23 June

0700 - At anchor. Calm, clear, cold

0900 - Boats away to work inner seno....

1015 - Boats return, heavy ice & snow make work impossible in this area. Get underway.

1200 - Boats away at mouth of Seno Pia working east along shores of N.W. Beagle.

1645 - All boats aboard

1700 - Anchored for the night, Morning Cove, Romanche Bay.....



24 June 1978

0700 - Wind, snow, rain, sleet!!!!!!!

- 0830 - First working light but bad weather prevents shore party going over the side. Wind to 40 kts. vis. in snow nil.  
1050 - Underway in heavy snow storm. Wind 30 kts.  
1445 - Arrive Ehi Yendigya, anchored Cta. Contrare.  
2100 - Calm, clear...

25 June

- 0915 - Boats away, working inner bay.  
0930 - Up anchor & under way following boats.  
1115 - Pick up boats, move to Beagle. Wind west 30 to 50 knots.....  
1440 - Anchored in Contrare Cove. Wait for weather to moderate.....  
2200 - Wind dropping, light snow.

26 June

- 0510 - Underway. wind moderating to 20 knots...  
0940 - On staion N.W. Beagle, off Romanche Bay, Boats away.  
1200 - Shore parties return for lunch.....  
1320 - Boats away for afternoons work, weather getting worse as time goes on!!!!  
1630 - Last boat aboard, steaming for anchorage.  
1705 - Anchored Olla Cove...  
2100 - Wind increasing, now force 5 to 7. Pay out one more shot of anchor chain. Glass falls.  
2400 - Wind force 9, heavy snow.....

27 June

- 0400 - Wind force 6 to 7, snow  
0830 Under way for Ushuaia. Bad weather knocks out chance of work in this area....  
1530 - Pick up Pilot, under way to Ushuaia. Snow vis.  $\frac{1}{2}$  mile & less.  
1630 - Alongside Ushuaia dock  
1730 - Cleared & entered....

28 June

- 0800 - Calm, clearing. Turn to, cleaning ship & gear  
0900 - Cont. clearing snow from topside. Wait for Customs officials to open warehouse.....  
Science team washing clothes for return to warehouse, cleaning labs, and boxing last of the rock specimens for shipment.  
1030 - Weather clears, one plane in & out????  
1530 - SNOW!!!!!! looks like no more flights today...  
1615 - Last flight made it in, no personnel from CONUS..  
1800 - Rwd word Lenie should be here some time tonight by car..  
1900 - No agent since forenoon today??????? Need tickets for plane reservations tomorrow or some form of transport for those going north....



29 JUNE 1978

0800-Crew starts to investigate the coasur shipment stowed in the warehouse-and the customs shed

1200-Captain Deniston and Chief engineer made the plane to Rio Grande and are well on the way to Baires-

bad weather continues--

1700-Accounted for most of the boxes and found all of the Hero shipment  
Chief mate seaman and cook arrive

30 JUNE 78

0700-Heavy snow and little visibility

0830-Scientists depart the vessel for the airport-  
Crew still working in the warehouse

1300-Scientists return to vessel -Plane unable to get airborne-

1600-Scientists are now departing with Taxi for Rio Grande

2000-Still snowing heavily

1 JULY 78

0800-Crew on minimum maintenance-no visibility in heavy snow

1200-Snow persists-most movements are at standstill-

1700-Still snowing with no visibility at all-

2000-Still snowing heavily-Snow accumulates faster than it can be removed-

2100-Made path on deck and salted to help keep it clear

2 JULY 78

0800-Crew on minimum maintenance-Overcast snowing

1200-Snow stopped -Temp. -1 C. Sw winds

1600  
1600-No change in the weather-wind steady from the SW

2100-Wind force 4 and steady-Bar:steady-

3 JULY 78

0700-Overcast,dry-windy

0800-Crew preparing to move vessel to the water valve-

0900-Vessel ready to move but no Pilot-

1035-Pilot arrives with the usual excuse-He did not get official notice in time

1100-Taking water-clearing weather

1300-Pilot aboard preparing to move to regular berth

1330-All secure at regular berth-start preparing for next cruise

1700-All equipment from last cruise in the warehouse and some food brought aboard

2000-Nice clear weather-all secure

4 JULY 78

0630-Heavy SE swell -vessel surging at the dock-little visibility in driving snow

0800-Crew on minimum maintenance-winds abating

1200-Little wind but still snowing-

1900-Light snow with brisk SW winds

5 JULY 78

0700-overcast -Brisk SW wind-dry and cold

0800-Crew on maintenance and preparing for cruise



5 JULY -- Cont...

0900~~0~~ Inspection of bow reveals that the forward bit is bent and pulled out of the deck, this indicates that the watertight integrity has been destroyed in that area and the possibility exists of damaged deck beams, on arrival in Puerto Belgrano ceiling will be removed in the fooslehead to assess the damage.

1100-Contact with CONUS-nothing new

Contact with Palmer-Passed sitrep

1200-Weather cleared -Sunshine and dry weather

1715-NOAA scientist arrives in Ushuaia and brings boxes with equipment aboard

Weather turned clear and cold-temperature minus 4°C

6 JULY 78

0700-Cold-Minus 5°C-dry

0800-Crew on maintenance -preparing for 78-3

1100-Contact with CONUS-nothing new-Contact with Palmer-Nothing new-

1500-Visited customs house to try and resolve the warehouse question-

1730-Received the assurance that the warehouse will be open for the next two days

1900-No change in the weather-riding easy at the dock

7 JULY 78

0700-Calm with low overcast

0800-Crew on maintenance and preparing for 78-3

Light fine hard snow starting to fall-

1100-Contact with Palmer and CONUS-sofar no satisfaction-19 boxes arriving from B.A are mostly old Comsur which missed Bransfield-

1500-Received notice through I.A.A that the scientists are stranded in Rio Gallegos Also that the 19 boxes will arrive tomorrow in Rio Grande

1800-Talked to Zinsmeister in Rio Gallegos -He lost maps for the cruise-we will have again 9 persons for 8 bunks-it seems that no amount of persuasion will convince scientists that the vessel cannot support more than 8 persons while working

2030-Argentine observers arrived from Rio Grande by truck-Send them to Base Naval until Sunday morning-

8 JULY 78

0700-Light rain-Overcast-

0800-Crew preparing for cruise 78-3

1000-Issued new floatcoats and raingear to crew

1100-Contact with Deniston-Comsur I is in Texas-Departing for B.A. 10 JULY

Nothing on the yard period

Contact with Palmer-Received list of numbers and contents of 19 boxes arriving from B.

1200-Agency advises that the scientists and HERO food arrived in Rio Grande and are on the way using Taxi and Truck

1800-So far no news from the Scientists

2000-Scientists and baggage arrive in Ushuaia

2100-Garland delivers Here frozen meat

9 JULY 78

0700-Overcast -raining -vessel surging in heavy SE swell



9 JULY-Cont...

0800-Crew preparing to get underway

0820-Scientists arrive on the vessel-

0830-Prefectura launch comes alongside in sinking condition-crew turns to trying to save the vessel-

0900-Scientists are getting clothed and picking out the gear they will need for the trip,

1030-Prefectura launch now empty and will be save to move to marine railway

Due to this emergency there may be a slight delay in the sailing

1200-Vessel ready to depart but held up due to needing matras and sleeping bag for one person