

CRN

9050

DAILY LOG

INSTITUTE OF OCEAN SCIENCES
OCEAN PHYSICS

DATE

JULY 30, 1970

- Aug 15

VESSEL

CSS. PARIZEAU

PROJECT

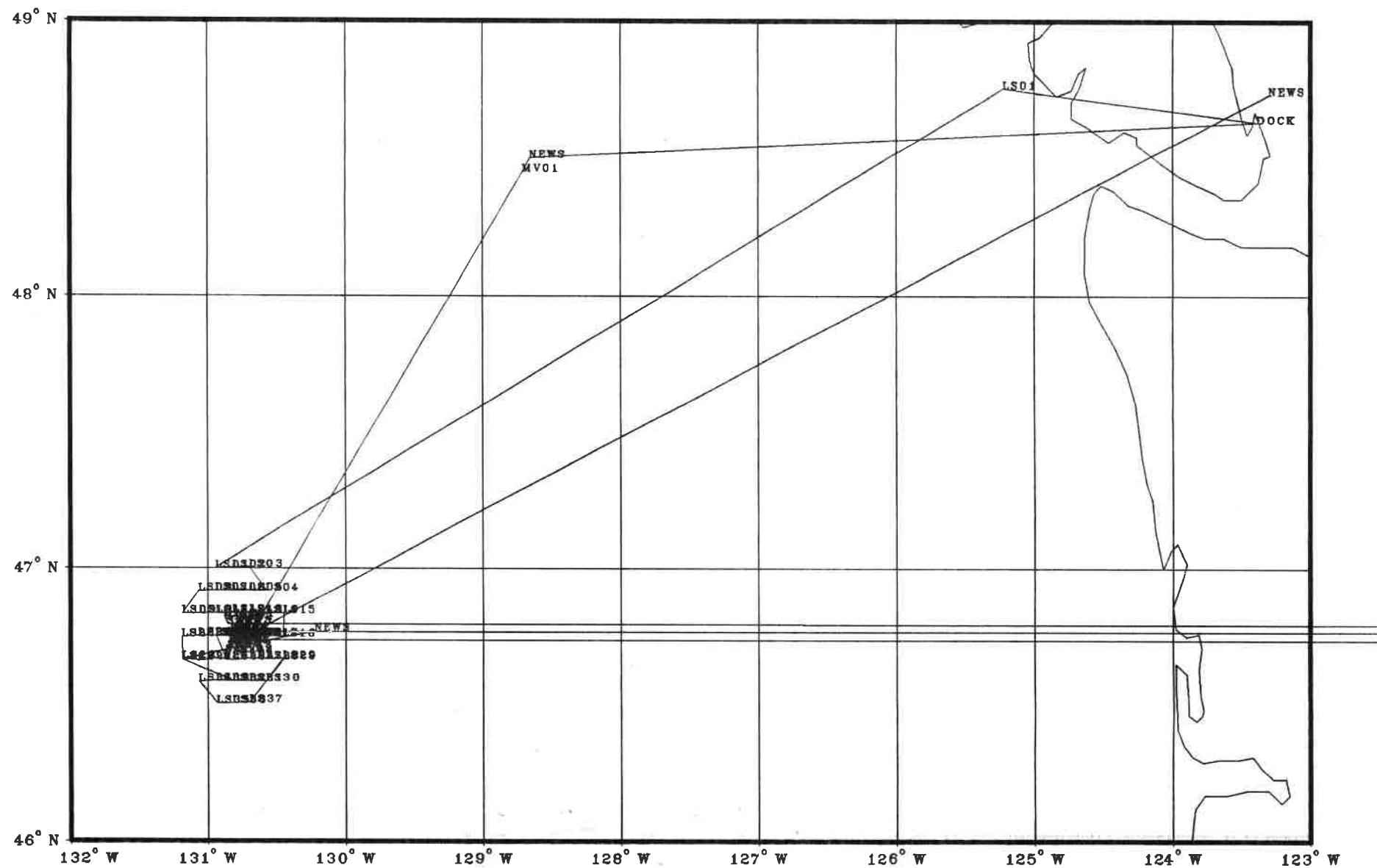
SEAMOUNTS

Cons #

Event

- | | |
|----|--|
| 6 | changed CTD from 41,226 to 45055. — |
| 7 | changed S/N of fish in header — |
| 41 | changed back to 41,226 — new T sensor. # 56,206 |
| 53 | changed S/N of fish in header + coefficients ↑ no calib |
| 59 | changed trans from 197 to 254 1.0, 0.0 |
| 62 | changed trans coefficients |

Cruise 90-50



Captain: Al Coombes First Officer : _____
Second Officer: Brian Pennel Third Officer : Pat Murphy
Cruise Participants/Agencies: Ocean Physics, PGC, Uvic,
GSC Ottawa

Scientific Personnel: Party Chief: Howard Freedland A
name watch cabin name watch cabin

name	watch	cabin	name	watch	cabin

second leg of cruise: Party Chief: _____

name	watch	cabin	name	watch	cabin

third leg of cruise: Party Chief: _____

name	watch	cabin	name	watch	cabin

DATA LOGGING SYSTEM: Unit number: 1 program ver. 1.06
CTD deck unit make: Gouldline model: 89107 serial no.: 58610
Computer make: HP Vx1 model: Vortex serial no.: 2945A07169
monitor make: NFC model: AutoSync 2A serial no.: _____
printer make: Roland model: 1212A serial no.: _____

1st CTD make: Gouldline model: _____ serial no.: 41226
temperature sensor model: _____ serial no.: _____
coefficients: slope: _____ offset: _____
conductivity sensor model: _____ serial no.: 41664
coefficients: slope: .100123D1 offset: -161345D-2
pressure sensor range: _____ psi serial no.: _____
coefficients: FSP: _____ dB offset: _____
transmissometer model: _____ serial no.: _____
coefficients: slope: _____ offset: _____
Comments: changed temp sensor to # 56206

2nd CTD make: GoDAlto model: _____ serial no.: 45055
temperature sensor model: _____ serial no.: 57035
coefficients: slope: _____ offset: _____
conductivity sensor model: _____ serial no.: 39476
coefficients: slope: _____ offset: _____
pressure sensor range: _____ psi serial no.: _____
coefficients: FSP: 1500 dB offset: _____
transmissometer model: _____ serial no.: _____
coefficients: slope: _____ offset: _____
Comments: _____

WINCHES:

CTD	make: _____	model: _____	serial no.: _____
counter	make: _____	model: _____	serial no.: _____
HYDRO	make: _____	model: _____	serial no.: _____
counter	make: _____	model: _____	serial no.: _____
Spooling	make: _____	model: _____	serial no.: _____
Drag	make: _____	model: _____	serial no.: _____
other	make: _____	model: _____	serial no.: _____

Salinometer make: _____ model: _____ serial no.: _____

SAIL System:

program version: BSAIL time zone: UTC
sampling interval: 1530 sec.
CTF module no.: _____ serial no.: _____
remote temperature model: _____ serial no.: _____
flow sensor model: _____ serial no.: _____
Other sensors: (special for this cruise)
name: _____ module I.D.: _____ serial no.: _____
name: _____ module I.D.: _____ serial no.: _____
Comments: Remote + CTF temp seem to be reversed

ADCP Setup:

Program version: _____ number of depth bins: _____
time zone: _____ bin length (2°): _____
sampling interval: _____ sec. pulse length: _____
blank beyond transmit: _____ pings per ensemble: _____
pulse cycle time: _____
percent pings good threshold: _____
Comments: _____

July 30/90 PDI

1830 depart IOS

- ~~pro~~ fire boat drill in Saanich Inlet

- proceed to Fern Pt. to test winches & CTD

1858 - CTD #1 to 100 m

July 31/90

- enroute to Cobb Seamount

- SAIL temp's still seem to be reversed
(remote higher)

Aug 1/90

- 0800 final checks on S4's

- 1200 - begin mooring operations

- 2100 - complete "

- Deploy drifters

Aug 2/90

- talk back to bridge died - using radios

- winch making clacking sound coming up - control line not connected

- Salinity trace doubled - cannot locate reason - changing fish

Probe 45055

temp 57035

0 1

cond 34476

press 0 1

trans (same)

- offset not known

1500 m

YEAR	1990	MONTH	July/Aug	TIME	ZONE	UTC	SHIP	Parizeau	CRUISE	9050	PAGE	1	OF	
DAY	STATION NUMBER	DEPTH SOUNDING (M)	SHIP STOP/START TIME	LATITUDE/LONGITUDE	STD CONSEC. #/DEPTH	STD TIME	HYDRO CONSEC. #/DEPTH	MESSENGER TIME	SALINITY #/CALIBRATION LOOP OR DEPTH	OXYGEN #	SURFACE TEMPERATURE/ SALINITY			NOTES
30	Newstr	105	0155	48 44.21	1	0158								
				123 17.84	100									
1	Newstr	210		46 40.58	2	1032								touched bottom to test double ping
				130 48.67	195									
2	S101	1480	1115		3	1135								
			1152		502									
2	S102	1170	1235	46 41.60	4	1236								winch problems - control line not connected
			1317	130 46.30	500									
	S103	750	1335	46 42.51	5	1335								conductivity doubled
				130 46.04										
	S104	210	1420	46 43.42	6	1422								changed fish to 45055 (not changed in header)
				130 47.59	205									
	S105	140	1448	46 44.17	7	1450								changed SW in header
				130 48.44	132									
	S106	35	1510	46 45.11	8									
				130 49.07		1516								touched bottom.
	S107	148	1536	46 46.07	9									sprayed cell with coindex - helped.
				130 49.86		1539								
	S108	230	1602	46 46.70	10									bright cloud & calm.
				130 50.74	215	1605								
	S109	700/1000	1629	46 47.65	11									very steep slope
				130 51.43	502	1632								
	S110	1220?	1704	46 48.58	12									steep contour.
				130 52.27	502	1707								

YEAR	1990	MONTH	AUG	TIME	ZONE	UTC	SHIP	PARIZEAU	CRUISE	9050	PAGE	2	OF	
DAY	STATION NUMBER	DEPTH SOUNDING (M)	SHIP STOP/START TIME	LATITUDE/LONGITUDE	STD CONSEC. #/DEPTH	STD TIME	HYDRO CONSEC. #/DEPTH	MESSANGER TIME	SALINITY #/CALIBRATION LOOP OR DEPTH	OXYGEN #	SURFACE TEMPERATURE/SALINITY			NOTES
2	S111		1748	46 49.36	13	*								* computer clock - seems slow!
				130 52.89	500	1750								
	S201		1848	46 49.24	14									
				130 45.49	500	1852								
	S202		1920	46 48.58	15	1920								
				130 46.24	500									
	S203	850	1950	46° 47.77	16	1954								
				130° 47.08										
	S204	510	2018	46° 46.80	17	2019								
			2037	130° 47.75										
	S205	185	1347	no	20									Doug in for Howard
				sails	187.6	2051								
	S206	46	2105	46 45.20	21									
				130 49.11	47	2109								
	S207	173	2122	46 44.28	22									
			2133	130 49.69	167	2125								
	S208	232	2140	46 43.44	23									
				130 50.64	249	2144								
	S209	705'	2203	46 42.55	24									
				130 51.27	502	2206								
	S210	1060	2234	46 41.59	25									
				130 52.01	500	2235								
	S211	1400	2255	46 40.79	26									
				130 52.59	500	2314								

Aug 2/90

PST

- 1341 - stopped RDI + SAIL to reset sail clock
from PST to UTC
clock reset to ~~2101~~ 2101 UTC
(1st record wrong time) - 9050002.D
- 1402 - ~~re~~ restarted pinging on RDI

In order to assist the company's growth two additional shareholders joined the company in March and April of 1988, those being Roy Stringer acting as General Manager, and Memos Cosmatos as Financial Officer.

Sales and marketing trips by GLS Management throughout British Columbia and Europe convinced the company of its future. Further investment saw a larger host computer with international X.25 datalines installed in June 1988. As well, GLS accepted its first territorial owner in 1988 by selling the rights to distribute GLS services within British Columbia.

The dual strategy of regional offices and direct sales to end user customers continues today. Recent management sales trips to Hong Kong, England and the United States have opened the doors to GLS offices in those territories.

Technical updates to the computer system have accompanied marketing requests for more diverse information to be on the system and to allow for regional host-to-host communications.

GLS is continuing research and development of enhancements to its existing system. Colour imagery of listed properties, electronic mail and other client services are being researched, to add to the current system.

GLS is poised with the tools, the sales people and the management team to take on the new information age of business.

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR	1990	MONTH	8	TIME	ZONE	SHIP	CRUISE					PAGE	OF
DAY	STATION NUMBER	DEPTH SOUNDING (M)	SHIP STOP / START TIME	LATITUDE / LONGITUDE	STD CONSEC. # / DEPTH	STD TIME	HYDRO CONSEC. # / DEPTH	MESSENGER TIME	SALINITY # / CALIBRATION LOOP OR DEPTH	OXYGEN #	SURFACE TEMPERATURE / SALINITY	NOTES	
3	S301	1200	1012	46° 44.76' N 1044 130° 56.31' W	27 1200	1016							Starting line #3
3	S302	800	1045	46° 45.16' N 130° 54.83' W	28 800	1045							
3	S303	250m		46° 45.11' N 130° 53.54' W	29 375	1114							
3	S304		1140	46° 45.22' N 130° 54.82' W	30 210	1142							
	S305	173	1202	46° 45.19' N 130° 50.69' W	31 170	1204							
	S306	37		46° 45.28' N 130° 48.97' W	32 36	1229							
	S307	155	1250	46° 45.14' N 130° 47.55' W	33	1252							
	S308	222		46° 45.18' N 130° 46.16' W	34	1310							
	S309	420		46° 45.10' N 130° 44.70' W	35	1334							
	S310	820	1407	46° 45.14' N 130° 43.19' W	36 500	1408							
20	S311	930 ↓ 500	1407 1407	46° 45.1' N 130° 41.83' W	37 500	1440							End of line 3
					495.4								

YEAR	1990	MONTH	AUG	TIME	ZONE	UTC	SHIP	PARIZEAU	CRUISE	9050	PAGE	OF	
DAY	STATION NUMBER	DEPTH SOUNDING (M)	SHIP STOP/START TIME	LATITUDE/LONGITUDE	STD CONSEC. #/DEPTH	STD TIME	HYDRO CONSEC. #/DEPTH	MESSANGER TIME	SALINITY #/CALIBRATION	LOOP OR DEPTH	OXYGEN #	SURFACE TEMPERATURE/ SALINITY	NOTES
03	S101	1625 ↑ 1230	1530	46 40.61 38									
				130 45.61 500	1534								
	S102	1190	1607	46 41.55 39									1652 - break off line and head to pick up drifters
				130 46.34 501	1612								
	MV01	2420	1950	48 26.81 40	1956								middle valley sos cast
				128 42.57									
6	News		0040	48 29.91 41	0046								
				128 39.24									
11	LS01	3100	1940	47 00.01 47	1942								cons 42-46 test casts
				130 56.78									
11	LS02	2900		47 00.10 48									
				130 49.20									
11	LS03	2960	2000	47 00.29 50	2226								
				130 41.94									
12	LS04	2890		46 55.07 51	0003								83.9% Tr @ 35m
				130 34.66									
12	LS04			52	0019	1	0030						upcast from ~800 m 1737 Messenger to 10 l Niskin
				800-0		100							Niskin @ 38 m + BOWGO
12	LS05	2850	0232	46 55.10 53	0242								
			0259	130 41.90 1002									
12	LS06	2820	0342	46 55.08 54	0343								
				130 49.26 1000									
12	LS07	3020	0446	46 55.07 55	0449								
				130 56.65 1003									

see note 1

Niskin @ 38 m
180060

Aug 4

- 1958 (UTC) - CTD cast #40 to get speed of sound profile for transponder net calibration

Aug 5

- CTD Shell Notes

- when starting, program can't find 2 files - still seems to work
- when doing more than one plot, second & subsequent plots are not positioned properly on the paper & don't show all the scales properly
- when finished ~~plotting~~ printing, an error message repeats & printer goes bonkers
- during ~~the~~ plotting calculations PLOTERR errors #4 & #5 occur
 - ~600 unplotable vectors (4)
 - ~20 clipped vectors (5)
- changed fish back to 41,226 to test Cond sensor after a thorough cleaning - Ry

Cond sensor 41,664

offset - .161345 D - 2

slope .100123 D + 1

- used pressure offset of -2.4

Aug 8/90

- Alongside

- Replace + sensor on 41,226

True Temp (Platinum) 20.416
20.641

Old + sensor erratic

Aug 11

- Transmissivity giving different traces on upcast & down when below ~100m

NOTE 1

CTD changed but not changed in header 45055 in header
41226 temp no coefficients 41226 in use
cond 41664 -1.61345×10^{-2} 1.00023
2500

YEAR	1990	MONTH	Aug	TIME	ZONE	UTC	SHIP	P'zeau	CRUISE	9050	PAGE	OF
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12	LS08	3135	0550	46 55.03 56	0555	2						Old TRANSMISSOMETER SN 197
				131 04.01 1003								
12	LS08			57	0623	2						10 l Niskin cast Bongo to 250 m (#2) Hydros to 100 m (#1)
				47		100						
12	LS09	3050	0800	46 51.34 58	0803	3	0831	46 50.04				10 l Niskin @ 38 m Bongos to 250 Hydro to 100
				131 07.05 1000		100		131 11.05				
12	LS10	2900	0950	46 50.05 59	0953							NEW TRANSMISSOMETER SN 254
				131 03.63 1000								
12	LS11	1850	1054	46 50.05 60								
				130 56.32 1000								
12	LS12	1800	0505 1210	46 50.19 61	1213	4	1241					10 l Niskin Bongo to 250 Hydro to 100
				130 49.22 1000		100						
12	LS13	2960	1420	46 50.16 62	1422							Trans calibs entered 4.760 -1.9977 1.0029 99.837
			1446	130 41.76 1002								
12	LS14	2890	1525	46 50.03 63	1529							
			1556	130 34.72 1004								
12	LS15	2940	1635	46 50.13 64	1655							
				130 27.34 1007								
12	LS15			46 50.06 65	1700	5						10 l Niskin to 43 m Bongo to 250 250 Hydro to 100
				130 27.16 43		100						
12	LS16	2720	1820	46 45.07 66	1819 2724	6						
				130 27.33 1000		100						
12	LS16			46 45.17 67	1845	6	1847					10 l Niskin to 38 m Bongo to 250 Hydro to 100
				130 27.37 35		100						

Aug 11

2508
- transmissivity still higher on upcast than down (below 100 m)
but not as bad! - could be a temperature thing - not
warming up as much on deck after
dark.

- when writing to the PRN file, multiple records of
some depths appear

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YEAR	1990	MONTH	Aug	TIME	ZONE	UTC	SHIP	Parizeau	CRUISE	9050	PAGE	OF
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12	LS17	2700		46 45.14 08 130 34.69	2011							
12	LS18	7000		46 45.11 69 130 41.88	2121							
12	LS19	30		46 45.20 70 130 56.48.35	2231	7 301440						10 l Bongo to 250 Hydro to 100
13	LS20			46 44.92 71 130 56.26 1000	0046			46 45.11 130 56.64				<u>sounder dead</u>
13	LS21		0159	46 45.41 72 131 03.88 1001	0202							
13	LS22		0312	46 45.10 73 131 11.14 1001	0312							
13	LS22			74 45	0339		0344					Printer off during upcast crashes
13	LS22			46 44.70 75 131 10.78 30-0	0343	8 100						Upcast of 10 l Niskin Cast - bongo to 250 - hydro to 100
13	LS23		0520 0555	46 40.23 76 131 10.90 1003	0528	9 100						Bottles etc cancelled - too rough
13	LS24		0645	46 39.92 77 131 03.57	0647							
13	LS 25		0757	46 40.19 78 130 56.50	0800							
13	LS26		0904	46 39.89 79 130 49.15	0907							

YEAR	90	MONTH	08	TIME	ZONE	4UTC	SHIP	PARIZEAU	CRUISE	9050	PAGE	OF
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13	LS27	1118	46° 40.15	80	1121		-					
			130° 41.82	1000								
13	LS28	1224	46° 40.10	81	1227							
			130° 34.63	1000								
13	LS29	1342	46 40.08	82	1345							
		1412	130 27.33	1000								
13	LS30	1515	46 35.09	83	1516							
			130 34.55	1078								
13	LS30		46 34.63	84	1550							10 L Niskin Borgos + bottles cancelled
			130 34.19	33								
13	LS31	2512	1643	46 35.05	85	1647						PGC's EPC
			1712	130 41.98	1002							
13	LS32	2425	1805	46 35.10	86	1806						
				130 49.20	1002							
13	LS33	2175	1930	46 35.17	87	1932						
				130 56.51								
	LS34	✓	2105	46 35.05	88	10		# 89 2135				10 L Niskin (4 1/2 m above CTD)
				131 03.73	2106	100		46 34.91 13103.73				@ 28 m 2147
	CS35	✓		46° 30.15	90							
				130° 56.57	2310	?						
14	CS36	2500	0049	46° 30.15	91	0048						
			0119	130° 49.05	1004							
14	LS37		0202	46° 30.26	92	0203						
				130° 41.69								

[illegible]

Aug 15

- recalled cast (41) where trans had been turned off & diff coefficients used - when returned to present cast, trans still off & coefficients wrong.