

Charles Darwin cruise 128: Day Plan

Date: Friday 1st June 2001: Expected arrival on station 00.00 to 01.00h. **Weather-Dependent**

Station Number	Time	Lat; Long;Speed	Gear	Comments
CD128/CTDS/01 Alternate:	Proposed: 01.00 Actual Start: 03.45 Actual finish:09.30	23°52.69'S; 69° 35.83'E 0 knot	CTD Steel	Vertical deployment Depth= 2800-2950m
CD128/BGT/01 Alternate:	Proposed: 07.00 Actual Start:12.50 Actual finish: 14.00 ABORTED	23°55.8'S; 69°37.7E, ~332° OR 23°49.6'S; 69°34.0'E ~152° 0.5knot for deployment	Bridget	WP1 23°54.9'S; 69°37.15'E WP2 23°50.5'S; 69° 34.5'E OR WP1 23°50.5'S; 69° 34.5'E WP2 23°54.9'S; 69°37.15'E

Charles Darwin cruise 128: Day Plan

Date: Saturday 2nd June 2001:

Station Number	Time	Lat; Long;Speed	Gear	Comments
CD128/ RMT/01-03 (Single deployment) Alternate:	Proposed: 16.00 1st June Finish ~03.00h Actual Start: 15.50 Actual finish: 21.30	23°48.8'S 69° 33.5'E 2 knots	RMT1+8	WP1 23°57'S; 69° 38.4'E Continued from 1 st June ABORTED gear failure
STEAM to Kairei	Proposed: 03.00 Actual Start: Actual finish:	Required position: 25°19.17'S 70° 02.40'E	Passage	Passage
CD128/ CTDS/02 Alternate:	Proposed: 14.00 Actual Start: 09.52 Actual finish:15.22	25°19.17'S 70° 02.40'E	CTD Steel	Plume depth 2150 to 2350m Successful
CD128/CTDT/03 Alternate:	Proposed: 20.00 Actual Start: 19.45 Actual finish: 21.10	25°19.17'S 70° 02.40'E	CTD Titanium	Test dip to Successful
CD128/RMT/04 -06 (Single deployment) Alternate: 55601#1 to 3	Proposed: 22.00 Actual Start: 23.13 Actual finish: 08.30 June 3rd	25° 14.0'S; 69°57.2E (reciprocal track if preferred depending on weather)	RMT1+8	25° 25.45'S; 70°07.5E Approx finish time 08.00 Sunday 3 rd June

Charles Darwin cruise 128: Day Plan

Date: Sunday 3rd June 2001

Station Number	Time	Lat; Long; Speed	Gear	Comments
CD128/RMT/04-06 Alternate:	Proposed: 23.00 on June 2nd Actual Start: 23.15 Actual finish:08.30	25° 14.0'S; 69°57.2E (reciprocal track if preferred depending on weather)	RMT1+8	25° 25.45'S; 70°07.5E To be completed by 09.00 to 10.00 in morning Oblique haul of one net. Two shrimp larvae found
CD128/BGT/02 Alternate:	Proposed: 10.00 Actual Start: 11.40 Actual finish: 14.26	25° 13.8'S; 69°57.6E Deploy 0.5knot Tow 2.0knot	Bridget	WP1 25° 14.6'S; 69°58.3E WP2 25° 23.9'S; 70°06.6E Test of Bridget ABORTED Deeptow cable failure
CD128/RMT/07-09 Alternate: 55602#1 to 3	Proposed: 21.00 Actual Start: 02.14 June 4th Actual finish: 12.33	25° 14.0'S; 69°57.2E (reciprocal track if preferred depending on weather)	RMT1+8	25° 25.45'S; 70°07.5E To be completed by 09.00 on June 4 th Postponed because of deep tow cable repairs
:				Rest of day spent in trying to repair deep tow cable. Work stopped at midnight as tech time ran out

Charles Darwin cruise 128: Day Plan

Date: Monday 4th June 2001

Station Number	Time	Lat; Long; Speed	Gear	Comments
	0.00 to 08.00 on standby			STANDBY. Out of technical support time. Ship hove to.
CD128/CTD(S)/04 Alternate:	Proposed: 08.00 Actual Start: 08.32 Actual finish: 11.14	04: 25° 18.8'S; 70°02.5E	CTD (S)	Plume depth 2150 to 2350m Successful
	Actual Start: Actual finish:			Streaming deep tow cable Positions to be advised
CD128/CTD(S)/05 Alternate:	Proposed: ?17.00 Actual Start: 20.03 Actual finish: 23.10	05: 25° 19.26'S; 70°02.45E	CTD(S)	Plume depth 2150 to 2350m Successful

Charles Darwin cruise 128: Day Plan

Date: Tuesday June 5th 2001

Station Number	Time	Lat; Long; Speed	Gear	Comments
CD128/ RMT/07-09 Alternate: 55602#1 to 3	Proposed: 23.00 on June 4 th Finish 08.30 Actual Start: 02.15 Actual finish: 12.33	25° 11.00'S; 69°54.50E (reciprocal track if preferred depending on weather)	RMT1+8	WP1 25° 25.45'S; 70°07.5E To be completed by 09.00 on June 5 th Successful; two shrimp larvae found
CD128/CTD(S)/06 Alternate:	Proposed: 09.30 Actual Start: 16.30 Actual finish: 18.57	25° 18.40'S; 70°01.70E	CTD(S)	Please keep ship within one ship's length of station! Successful
CD128/CTD(S)/07 Alternate:	Proposed: 13.30 Actual Start: Actual finish:	To b advised depending on CD128/CTD(S)/06 Postponed	CTD(S)+ SAPS	Deployment includes 2h wait for SAPS to filter. Please keep ship within one ship's length of station! Postponed 24h
CD128/BGT/03 Alternate:	Proposed: 20.00 Actual Start: Actual finish:	To be advised	BRIDGET	To test BRIDGET No signal: aborted
CD128/RMT/10-12 Alternate: 55603#1 to 3	Proposed: 23.00 Actual Start: 00.00 Actual finish: 10.10	25°10.23'S; 69° 54.24'E	RMT1+8	WP1 25° 25.45'S; 70°07.5E See June 6th

Charles Darwin cruise 128: Day Plan

Date: Wednesday June 6th 2001

Station Number	Time	Lat; Long; Speed	Gear	Comments
CD128/ RMT/10-12 Alternate: 55603#1-3	Proposed: 23.00 Actual Start: 00.00 Actual finish:10.10	25°11'S; 69°54.50'E	RMT1+8	WP1 25° 25.45'S; 70°07.5E Successful
Steam to station ~2h				
CD128/BGT/04	Proposed: 12.00		BRIDGET	To test deep tow cable No response; Aborted
CD128/ CTD(S)/07 Alternate:	Proposed: 12.30 Actual Start: 16.52 Actual finish: 22.54	25° 19.26'S; 70°02.45E	CTD(S)+ SAPS	Plume depth 2150 to 2350m Deployment includes 2h wait for SAPS to filter. Please keep ship within one ship's length of station! Successful
Steam to station ~2h				

Charles Darwin cruise 128: Day Plan

Date: Thursday June 7th 2001

Station Number	Time	Lat; Long; Speed	Gear	Comments
CD128/ RMT/13-15 Alternate: 55604#1 to 3	Proposed: 21.30 June6th Actual Start: 01.17 Actual finish 11.15	25°10'S; 69°54'E	RMT1+8	WP1 25° 25.45'S; 70°07.5E Successful
Steam to station ~2h				
CD128/ CTD(S)/08 Alternate:	Proposed: 11.00 Actual Start: 15.45 Actual finish: 04.30	25° 19.26'S; 70°02.45E	CTD(S)	Plume depth 2150 to 2350m 12h process station . Please keep ship within one ship's length of station for the 12h! Successful
Steam to station ~2h				

Charles Darwin cruise 128: Day Plan

Date: Friday June 8th 2001

Station Number	Time	Lat; Long; Speed	Gear	Comments
CD128/ CTD(S)/08 Alternate:	Proposed: 15.00 June 7 th Actual Start: 14.45 Actual finish: 04.30	25° 19.26'S; 70°02.45E	CTD(S)	Plume depth 2150 to 2350m 12h process station . Please keep ship within one ship's length of station for the 12h! Successful
Steam to station: at station				
CD128/ RMT/16-18 Alternate:	Proposed: 05.00 Actual Start: 04.50 Actual finish:13.00	25° 19.26'S; 70°02.45E	RMT1+8	To be advised Successful
Steam to station: ~2h				
CD128/CTD(S)09 Alternate:	Proposed: 15.00 Proposed finish 03.00 9 th June Actual Start: 17.00 Actual finish:	25°18.70'S; 70° 02.20'E	CTD(S)	Plume depth 2150 to 2350m 12h process station . Please keep ship within one ship's length of station for the 12h! See June 9th
Steam to station:				

Charles Darwin cruise 128: Day Plan

Date: Saturday June 9th 2001

Station Number	Time	Lat; Long; Speed	Gear	Comments
CD128/ CTD(S)/09 and 10 Alternate:	Proposed: 15.00 June 8th Actual Start: 17.00 June 8th Actual finish: 07.14	25° 18.70'S; 70°02.20E Ship repositioned part way through deployment.	CTD(S)	Plume depth 2150 to 2350m 12h process station . Please keep ship within one ship's length of station for the 12h! CTD onboard to reposition ship Partially Successful
Steam to station: at station ~1.5h				
CD128/ RMT/19-21 Alternate: 55606#3	Proposed: 08.00 Actual Start: 08.35 Actual finish: 14.26	25° 11'S; 69°55'E	RMT1+8	25° 28'S; 70°11'E Successful
Steam to station: ~2h				
CD128/CTD(S)11 Alternate:	Proposed: 15.00 Proposed finish 22.00 Actual Start: 18.15 Actual finish: 23.00	25° 19.01'S; 70°02.15'E	CTD(S) +SAPS	Plume depth 2150 to 2350m SAPS station of 3h. Please keep ship within one ship's length of station for the 12h! Successful
Steam to station: ~2h				

No further overside work as a result of poor weather conditions

Charles Darwin cruise 128: Day Plan

Date: Sunday June 10th 2001 **WEATHER DEPENDENT**

Station Number	Time	Lat; Long; Speed	Gear	Comments
CD128/ RMT/22-24 Alternate:	Proposed: 00.00 Proposed finish 12.00 Actual Start: Actual finish:	25°12'S; 70°06'E Decision to deploy to be made before nets. Alternate: Hove to until 08.00 near vent site	RMT1+8	25°28'S; 69°58'E POSTPONED owing to poor weather conditions
Steam to station: ~2h				
CD128/ CTD(S)12 Alternate:	Proposed: 14.00 Actual Start: Actual finish:	To be advised	CTD(S) +SAPS	Plume depth 2150 to 2350m SAPS station of 5h. POSTPONED owing to poor weather conditions
Steam to station: 15 mins				
CD128/ CTD(S)13 Alternate:	Proposed: 20.00 Actual Start: Actual finish:	To be advised	CTD(S) blank	Plume depth 2150 to 2350m POSTPONED owing to poor weather conditions
Steam to station: 2h				
CD128/RMT/25-27 Alternate:	Proposed: 01.00 June 11th Actual Start: Actual finish:	To be advised	RMT1+8	To be advised

All oversight activities postponed owing to poor weather and Charles Darwin steaming to off axis site

Charles Darwin cruise 128: Day Plan

Date: Monday June 11th 2001 **Weather Dependent**

Station Number	Time	Lat; Long; Speed	Gear	Comments
CD128/CTD(T)12 Alternate:	Proposed: 08.00 Actual Start: 12.32 Actual finish: 16.40	23°12.67'S; 73°22.24'E	CTD(T)	Deep water cast to >4000m. Position holding not critical Time =~5h Bottles in disarray. No samples
Steam to station: Reposition as CTD(T)12				
CD128/CTD(S)13 Alternate:	Proposed: 14.00 Proposed finish 19.00 Actual Start: 17.42 Actual finish: 21.15	23°12.67'S; 73°22.24'E	CTD(S)	Deep water cast to >4000m. Off-axis profile Position holding not critical Time +~5h Successful
Steam to station :				
CD128/CTD(T)14 Alternate:	Proposed: 07.00 12th June Actual Start: 22.07 Actual finish: 23.06	23°12.67'S; 73°22.24'E	CTD(T)	Test deployment of CTD(T) to see id modifications work. 500m depth test Successful
Steam to station:				

Charles Darwin cruise 128: Day Plan

Date: Monday June 11th 2001 **Weather Dependent**

Station Number	Time	Lat; Long; Speed	Gear	Comments
CD128/CTD(T)12 Alternate:	Proposed: 08.00 Actual Start: 12.32 Actual finish: 16.40	23°12.67'S; 73°22.24'E	CTD(T)	Deep water cast to >4000m. Position holding not critical Time =~5h Bottles in disarray. No samples
Steam to station: Reposition as CTD(T)12				
CD128/CTD(S)13 Alternate:	Proposed: 14.00 Proposed finish 19.00 Actual Start: 17.42 Actual finish: 21.15	23°12.67'S; 73°22.24'E	CTD(S)	Deep water cast to >4000m. Off-axis profile Position holding not critical Time +~5h Successful
Steam to station :				
CD128/CTD(T)14 Alternate:	Proposed: 07.00 12th June Actual Start: 22.07 Actual finish: 23.06	23°12.67'S; 73°22.24'E	CTD(T)	Test deployment of CTD(T) to see id modifications work. 500m depth test Successful
Steam to station:				

Charles Darwin cruise 128: Day Plan

Date: Tuesday June 12th and Wednesday June 13th 2001

June 12th

Station Number	Time	Lat; Long; Speed	Gear	Comments
:	:			00.00 to 07.00 hove to: out of tech time
Steam to station:				
CD128/CTD(T)/15 Alternate:	Proposed: 07.00 Finish 12.00 Actual Start: 07.15 Actual finish: 11.23	23°12.67S; 73°22.24E	CTD(T)	4000m deep station Off-axis 'clean' profile Successful
Steam to station: 24°41.15'S; 71°07.69'E ~15h Arrive 05.00 on 13 th June				
June 13th				
CD128/CTD(S)/16 Alternate:	Proposed: 05.00 Finish 08.00 Actual Start: 05.00 Actual finish: 08.10	24°41.15'S; 71°07.69'E	CTD(S)	3000m flank station Successful
Steam to station: Steam to Kairei Arrive late on 13th				
CD128/RMT/22-24 Alternate: 55607#1 to 3	Proposed: 17.00 Actual Start: 17.15 Actual finish: 02.30 14 th June	25°11'S; 69° 55E'	RMT	WP 1 25°28'S; 70° 10'E Successful RMT8 RMT 1 nets twisted-no sample

Charles Darwin cruise 128: Day Plan

Date: Thursday June 14th 2001

Station Number	Time	Lat; Long; Speed	Gear	Comments
Steam to station from end of trawl line ~2h				
CD128/CTD(S)/17 Alternate:	Proposed: 07.00 Finish 13.00 Actual Start: 05.30 Actual finish: 10.33	25°19.28'S; 70°02.58'E (Kairei site)	CTD(S) + SAPS	SAPS deployment in plume. Please remain on exact station during deployment Successful
Remain on station. Scientists to download samples 1 h and prepare next gear				
CD128/CTD(S)18 Alternate:	Proposed: 14.00 Finish: 19.00 Actual Start: 12.22 Actual finish: 17.32	25°19.10'S; 70°02.10'E (Kairei site)	CTD(S) + SAPS	SAPS deployment in plume. Please remain on exact station during deployment Successful
Remain on station Scientists to download samples 1 h and prepare next gear				
CD128/SHR/01 Alternate:	Proposed: 20.00 Finish 04.00 June 15th Actual Start: 19.00 Actual finish: 01.30	25°19.26'S; 70°02.45'E (Kairei site)	SHRIMP	Target hitting! Partially successful. The second tape did not start, thus only 1.5h of video. Some good images
Steam to start of RMT tow ~2h				

Charles Darwin cruise 128: Day Plan

Date: Friday June 15th 2001

Station Number	Time	Lat; Long; Speed	Gear	Comments
Steam to station from end of trawl line ~2h				
CD128/RMT/25 Alternate:	Proposed: 05.00 to 11.00 Actual Start: 02.55 Actual finish: 10.05	To be advised	RMT1+8	Single net tow close to the bottom Successful but small samples
Steam to station 1h				
CD128/CTD(S)/19 Alternate:	Proposed: 12.00 Finish 16.30 Actual Start: 13.05 Actual finish: 17.53	25°18.74'S; 70°02.03'E (Kairei site) ≡ CTD#4	CTD(S) + SAPS	SAPS deployment in plume. Please remain on exact station during deployment Successful
Remain on station. Scientists to download samples 1 h and prepare next gear				
CD128/CTD(S)20 Alternate:	Proposed: 17.00 Finish: 22.00 Actual Start: 19.55 Actual finish: 01.00 June 16th	25°19.26'S; 70°02.45'E (Kairei site)	CTD(S) + SAPS	SAPS deployment in plume. Please remain on exact station during deployment Successful
Remain on station Scientists to download samples 1 h and prepare next gear				

Charles Darwin cruise 128: Day Plan

Date: Saturday June 16th 2001

Station Number	Time	Lat; Long; Speed	Gear	Comments
Steam to station from end of trawl line ~2h				
CD128/SHR/02 Alternate:	Proposed: 23.00 June 15th Finish 05.00 Actual Start: 02.00 Actual finish: 08.10	25°19.26'S; 70°02.45'E (Kairei site)	SHRIMP	Target hitting! Successful: good coverage
Remain on station. Scientists to download samples 1 h and prepare next gear				
CD128/CTD(S)/21 Alternate:	Proposed: 06.00 Finish 11.00 Actual Start: 10.08 Actual finish: 15.38	25°19.26'S; 70°02.45'E (Kairei site)	CTD(S) + SAPS	SAPS deployment in plume. Please remain on exact station during deployment Fantastic samples! –really black filters
Remain on station. Scientists to download samples 1 h and prepare next gear				
CD128/CTD(S)22 Alternate:	Proposed: 12.00 Finish: 18.00 Actual Start: 17.30 Actual finish: 20.27	25°26.00'S; 70°03.00'E (Off-Kairei site)	CTD(S) + SAPS (blank)	Background rift-valley station. Please remain on exact station during deployment Successful
19.00 Steam to Edmond site ~12h				

Charles Darwin cruise 128: Day Plan

Date: Sunday June 17th 2001

Station Number	Time	Lat; Long; Speed	Gear	Comments
Overnight from 16 th : Steam to Edmond site at 23°52.69'S; 69°35.83'E Arrive ~07.00h				
CD128/SHRIMP/03 Alternate:	Proposed: 08.00 Actual Start: Actual finish:		SHRIMP	Target hitting. 3h on bottom. 7h in total ABANDONED -Deep-tow cable too short
Stay on station				
CD128/CTD(S)/23 Alternate:	Proposed: 16.00 Actual Start: 13.45 Actual finish: 19.44	23°52.69'S; 69°35.83'E	CTD(S)+ SAPS	SAPS deployment in plume. Please remain on exact station during deployment Successful
Steam to start of net transect~2h				
CD128/RMT/26-28 Alternate:	Proposed: 00.00 to 12.00 Actual Start: 21.30 Actual finish: 09.10	24°04'S; 69°42'E	RMT1+8	Tow to ~2800m depth WP1 23°43'S; 69°30'E Successful although sample was small
Steam to Edmond site ~2h				

Charles Darwin cruise 128: Day Plan

Date: Monday June 18th 2001

Station Number	Time	Lat; Long; Speed	Gear	Comments
CD128/ RMT/26-28 Alternate:	Proposed: Actual Start: Actual finish: 09.10	From June 17th	RMT1+8	Tow to ~2800m depth WP1 to be advised
Steam to Edmonds site ~2h				
CD128/SAPS(W)/0 1 Alternate:	Proposed: 14.00 Actual Start: 10.45 Actual finish: 18.55	23°52.69'S; 69°35.83'E	SAPS on WIRE	Total 7h, Position keeping important Successful
Steam to station ~2h				
CD128/RMT/29-31 Alternate:	Proposed: 23.00 Actual Start: 20.52 Actual finish: 08.05 June 19th	23°41.8'S; 69°30'E	RMT1+8	Tow to ~2800m depth WP1 23°53'S; 69°36'E Only two nets opened as signal lost. Small sample

Charles Darwin cruise 128: Day Plan

Date: Tuesday June 19th 2001

Station Number	Time	Lat; Long; Speed	Gear	Comments
Steam to Edmonds site ~2h				
CD128/SAPS(W)/0 2 Alternate:	Proposed: 13.00 Actual Start: 11.15 Actual finish: 18.40	23°52.69'S; 69°35.83'E	SAPS on WIRE	Total 7h, Position keeping important Successful
Steam to station ~2h				
CD128/RMT/32-34 Alternate:	Proposed: 22.00 Actual Start: 20.10 Actual finish: 08.45	24° 02'S; 69°41.4'E	RMT1+8	Tow to ~2800m depth WP1: 23° 53'S; 69°36'E Weather deteriorating fast. Hauling stopped at 05.00. Finally brought in at 08.45. No sample; damaged nets
Steam to station ~2h Overside work suspended: inclement weather				

Charles Darwin cruise 128: Day Plan

Date: Wednesday June 20th and Thursday June 21st 2001

Station Number	Time	Lat; Long; Speed	Gear	Comments
June 20th				
CD128/ RMT/32-34	Inboard 08.45		RMT1+8	See June 19 th .
Steam to Edmonds site ~2h 09.00 All overside work suspended: inclement weather				
CD128/SAPS(W)/03 Alternate:	Proposed: 12.00 Actual Start: Actual finish:	23°52.69'S; 69°35.83'E	SAPS on WIRE	Total 7h, Position keeping important POSTPONED: BAD WEATHER
Steam to station ~2h				
CD128/RMT/35-37 Alternate:	Proposed: 22.00 Actual Start: Actual finish:	To be advised	RMT1+8	Tow to ~2800m depth POSTPONED: BAD WEATHER
Steam to station ~2h				
June 21st				
CD128/CTD(S)/24 Alternate:	Proposed: 11.00 Actual Start: 11.10 Actual finish: 11.50	23°52.69'S; 69°35.83'E	SAPS on WIRE	Total 4h, Position keeping important. ABORTED ON COMMAND FROM MASTER: Too rough
CD128/RMT/38-40 Alternate:	Proposed: 22.00 Actual Start: Actual finish:	To be advised	RMT1+8	Tow to ~2800m depth WP1 to be advised Postponed:Bad Weather

Charles Darwin cruise 128: Day Plan

Date: Friday June 22nd and Saturday 23rd 2001

Station Number	Time	Lat; Long; Speed	Gear	Comments
June 22nd				
CD128/ RMT/38-40 Alternate:	Proposed finish 10.00	To be advised	RMT1+8	Tow to ~2800m depth WP1 to be advised
Steam to station ~2h				
CD128/CTD(S) Alternate:	Proposed: 11.00 Actual Start: Actual finish:	23°52.69'S; 69°35.83'E	CTD(S)	Sh standard CTD station
Bad Weather: No overside work				
Steam to station ~2h				
CD128/RMT/41-43 Alternate:	Proposed: 17..00 Actual Start: Actual finish:	To be advised	RMT1+8	Tow to ~2800m depth WP1 to be advised
18.45 June 22nd. Decision taken in consultation with Master that conditions were too bad for deployment of any equipment. PES brought inboard and Ship set sail for Mauritius				
June 23rd				
Finish RMT /41-43 at 05.00. Steam to Mauritius				