

C R U I S E - R E P O R T

RV S O N N E / DFCG

Voyage: 148; SO 52,2 SAA SEARCH; Port Louis to Port Louis

Charterer: SOUTH AFRICAN AIRLINES

11.12.1987

00.00 Begin charter of SAA
 07.00 Mr. E. Potdieter boarding
 09.00 Vessel cleared for departure
 Harbour-Pilot on board
 09.18 Cast off all lines, departure Port Louis
 09.30 Harbour - Pilot disembarked, full speed ahead
 10.40 - 11.50 Meeting of Capt., ship's scientists,
 technicians, and Mr. E. Potgieter.
 Agree on following objectives:
 Priority 1) SEABEAM - mapping at max. permissible
 speed,
 2) Modify XPNDR-Nav-System to 37,5 khz,
 and keep watch on that freq.
 3) Prepare XPNDR for deployment
 4) Prepare Ocean Floor Observation System
 for deployment
 5) Meet every day at 07.15 and 15.00 for
 status report
 18.12 Start monitoring XPNDR-Nav-System on 37,5 khz
 21.42 Vessel arrives at Primary Search Area, start
 Seabeam-Profile No. 1, eastwards on parallel
 19° 09' Lat South
 23.50 End profile No. 1
 23.55 Start profile No. 2, parallel 19° 08' Lat South,
 westwards

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01.45 End profile No. 2
 01.53 Start profile No. 3, parallel 19° 07' Lat South,
 eastwards
 03.59 End profile No. 3
 04.13 Start profile No. 4, parallel 19° 05' Lat South,
 westwards
 06.00 End profile No. 4
 06.10 Start profile No. 5, parallel 19° 03' Lat South,
 eastwards
 08.45 End Profile No. 5
 09.10 Start profile No. 6, parallel 19° 04' Lat South,
 westwards
 10.55 End profile No. 6
 12.42 Start profile No. 7, parallel 19° 06' Lat South,
 eastwards
 15.05 End profile No. 7
 15.35 Start profile No. 8, parallel 19° 10' Lat South,
 westwards
 17.24 End profile No. 8
 17.30 Start profile No. 9, parallel 19° 11' Lat South,
 eastwards

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- 19.45 End profile No. 9
 - 20.00 - 21.46 Station SAA 001 MS, CTD-measurements (hydrographic data)
 - 22.24 Start profile No. 10, southwards, cross-secting eastern part of Primary Search Area
 - 23.10 End profile No. 10
 - 23.35 Start profile No. 9/1 (re-run), parallel $19^{\circ} 11' S$ westwards
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- 02.10 End profile No.9,/1
 - 02.31 Start profile No. 11, northwards, cross-secting western part of Primary Search Area
 - 03.19 End profile No. 11, completed Seabeam-Data collecting of Primary Search Area, process data.
 - 08.46 Speed-boat of MT 'John Ross' alongside, Dr. Lademann, Mr. Abich (RF) boarding SONNE, Mr. Bill Walker (US-Navy), Mr. Mike Kretzler (Seasteady Inc.) visiting SONNE
 - 08.50 Meeting, present: Dr. Flüger, Mr. Abich, Mr. Walker, Mr. Kretzler, Mr. Potgieter, Capt. of RV SONNE, conclude that SONNE carry out Seabeam-mapping of Secondary Search Area, hand over CTD-data of station SAA 001 MS to Mr. Walker
 - 09.40 Meeting closed
 - 09.45 Speedboat returns with Mr. Walker and Mr. KUTZLER to MT 'John Ross'
 - 11.12 Start profile No. 13 at position $19^{\circ} 11' S$
 $59^{\circ} 38' E$,
course 236°
 - 12.48 End profile No. 13
 - 12.55 Start profile No. 14, course 56°
 - 14.58 End profile No. 14
 - 15.10 Start profile No. 15, course 236°
 - 16.40 End profile No. 15
 - 16.40 - 17.45 Standing by for helicopter
 - 17.48 Helicopter delivers six rolls copy-paper
 - 18.10 Start profile No. 16, course 56°
 - 20.23 End profile No. 16
 - 20.36 Start profile No. 17, course 236°
 - 22.10 End profile No. 17
 - 22.28 Start profile No. 18, course 56°
 - 23.30 Bathymetric charts of Primary Search Area ready (2 sheets, Western and Eastern Part, covering area of approx. 8 by 25 nm)
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- 00.46 End Profile No. 18
 - 01.29 Start profile No. 19, course 236°
 - 03.04 End profile No. 19
 - 03.23 Start profile No. 20, course 56°
 - 05.16 End profile No. 20
 - 05.28 Start profile No. 21, course 236°
 - 07.08 End profile No. 21
 - 07.16 Start profile No. 22, course 56°
 - 09.25 End profile No. 22
 - 09.40 - 09.55 Rendezvous with MT 'John Ross', hand over three sets bathymetric charts of Primary Search Area

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10.30 Start profile No. 23, course 236°
12.28 End profile No. 23
13.01 Start profile No. 23/Rerun, course 56°
15.12 End profile No. 23/Rerun
15.56 Start profile No. 24, course 236°
16.44 End profile No. 24, collecting of Seabeam-data
of Secondary Search Area completed, process data
16.44 - 17.35 Stand by
17.35 Receive order from MT 'John Ross' to map
Tertiary Search Area
17.40 - 18.26 Proceed to Tertiary Search Area
18.26 Start profile No. 25, course 90°
19.46 End profile No. 25
20.06 Start profile No. 26, course 270°
21.15 End profile No. 26
21.45 Start profile No. 27, course 90°
23.25 End profile No. 27
23.35 Start profile No. 28, course 270°

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00.43 End profile No. 28
00.53 Start profile No. 29, course 90°
02.21 End profile No. 29,
02.38 Start profile No. 30, course 270°
03.45 End profile No. 30
03.58 Start profile No. 31, course 90°
05.29 End profile No. 31
05.42 Start profile No. 32, course 270°
06.54 End profile No. 32
07.03 Start profile No. 33, course 90°
08.27 End profile No. 33
08.40 Start profile No. 34, course 270°
10.02 End profile No. 34
11.07 Start profile No. 35, course 90°
12.40 End profile No. 35, collecting of Seabeam-data
in Tertiary Search Area completed, process data
13.45 Reached deployment position for TV-survey,
start TV-track, Station SAA 002 OFOS
23.10 End of TV-survey, station SAA 002 OFOS

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00.24 - 00.27 Zodiac of 'John Ross' delivers
one pinger (37 khz)
00.27 - 01.55 proceed to Tertiary Search Area
01.55 - 03.19 Seabeam-Profile No. 36, course 270°(Rerun
03.19 - 04.15 - " - No. 37, course 172°(check
04.19 - 06.18 - " - No. 38, course 060°(Rerun
06.18 - 07.45 Std. by, discuss further action with
'John Ross'
07.45 - 12.38 Station SAA 003 MS, CTD-Probe with
pinger (37 khz) lowered to 4000 m and 4388 m,
'John Ross' pass SONNE in 0.7 nm distance to
check pinger-locator
13.09 - 22.25 Station SAA 004 GTVB, deploy TV-Grab
with pinger (37 khz)
14.00 - 16.00 'Wolraad Woltemade' pass SONNE in 0.7 nm
distance to check pinger-locator
15.02 - 16.00 Mr. R. Albaugh ('Wolraad Woltemade') on board
SONNE to do phone call by SONNE's Sat-Comms.
16.00 Continue TV-survey with GTVB

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- 20.30 - 21.10 Meeting, Mr. Potgieter, Dr. Plüger, Mr. Abich, and Capt. Müller; discuss further actions
- 21.15 - 21.30 Discuss plans with 'John Ross'
- 21.30 Proceed to 4TH Search Area
- 23.00 Maps of Secondary and Tertiary Search Area finished processing

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- 00.12 Arrive at 4th Search Area
- 00.12 - 01.05 Seabeam-profile No. 40, course 180°
- 01.17 - 02.12 - " - No. 41, course 360°
- 02.26 - 03.19 - " - No. 42, course 180°
- 03.32 - 04.23 - " - No. 43, course 360°
- 04.34 - 05.26 - " - No. 44, course 180°
- 05.38 - 06.30 - " - No. 45, course 360°
- 06.38 - 07.30 - " - No. 46, course 180°
- 07.30 Seabeam-data collection of 4th Search Area completed
- 08.45 Arrive at TV-sled deployment position, TV-track proposed by 'John Ross'
- 09.33 Start Station SAA 005 OFOS, TV-survey of 4th Search Area, 15.00 Charts Area 4 ready
- 20.40 End TV-survey Station SAA 005 OFOS
- 22.30 Start TV-survey Station SAA 006 GTVB

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- 08.52 End TV-survey Station SAA006 GTVB
- 09.35 Zodiac of 'John Ross' alongside SONNE, exchange test-pinger, hand over two (2) sets of bathymetric charts of areas 2,3,4 to 'John Ross'
- 10.55 On request of 'John Ross' start station SAA 007 MS with test pinger to check pinger locator system, cable paid out: 4000 m
- 14.45 End of Station SAA 007 MS, Pinger test
- 15.05 Zodiac of 'John Ross' alongside, exchange test pingers
- 15.25 SAA frame specialist Mr. Henning Viljoen arrives by helicopter
- 15.27 - 16.20 Sta. by, briefed Mr. Viljoen on situation
- 16.20 'John Ross' requests pinger locator test, 1500m
- 16.23 Start Station SAA 008 MS with pinger
- 16.52 MS at 1500 m, 'J.R.' requests 2000 m
- 17.00 MS at 2000 m
- 17.33 'J.R.' requests to lower MS in 500 m intervals to 4000 m
- 18.00 RV 'AFRICANA' arrives on scene
- 18.25 Boat of 'John Ross' alongside to pick up Mr. Abich, Mr. Potgieter for meeting on 'J.R.'
- 18.45 MS at 4000 m
- 19.25 Pinger locator test finished
- 20.25 End of station SAA 008 MS/Pinger test
- 20.55 Boat of 'John Ross' returns with Mr. Abich, Mr. Potgieter, Mr. B. Walker, Mr. M. Kutzleb, Mr. G. Tettelbach, discuss further actions, SONNE assigned to survey area 5
- 22.20 Boat of 'J.R.' pick up Mr. Walker, Mr. Kutzleb, Mr. Tettelbach
- 23.05 Start Seabeam-profile No. 47, course 90°
Area 5

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- 00.11 End Seabeam-profile No. 47
 - 00.20 - 01.12 Seabeam-profile No. 48, course 270°
 - 01.17 - 02.16 - " - No. 48, Rerun, crs. 90°
 - 02.36 - 03.20 - " - No. 49, course 270°
 - 03.39 - 04.37 - " - No. 50, course 90°
 - 04.46 - 05.35 - " - No. 51, course 270°
 - 05.35 - 06.50 Proceed to TV-sled deployment-position
 - 06.50 - 15.58 TV-Survey station SAA 009 OFOS, Area 5
 - 15.58 - 18.00 Proceed to TV-sled deployment position
 - 18.00 Start TV-survey station SAA 010 OFOS
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- 00.12 End TV-survey station SAA 010 OFOS
 - 00.16 - 11.00 Std by for RV 'Africana' as nav.-reference
 - 11.00 - 12.15 Proceed to 'John Ross'
 - 12.15 - 12.40 Std by
 - 12.40 Zodiac of J.R. delivers copy paper, return pinger and map of TV-tracks to 'J.R.'
 - 12.40 Proceed to TV-sled deployment position
 - 13.50 Start TV-survey station SAA 011 OFOS
 - 18.30 - 19.42 Deep Sea Winch System out of order
 - 21.10 End TV-survey station SAA 011 OFOS
 - 22.08 Start TV-Survey station SAA 012 OFOS
- 21.12.1987
- 03.33 End TV-Survey station SAA 012 OFOS, proceed at max. speed to Port Louis
 - 14.55 Port Louis Harbour Pilot boarding
 - 15.42 Vessel moored at bouys 'Outer Tier', Arrival Port Louis
 - 24.00 End of charter for South African Airlines

Summary

Weather conditions were fine throughout the cruise, ship's operations were not affected negatively in anyway by weather conditions.

Stations/Tracks carried out:

TV-Tracks : 8

CtD-Probes: 1

CTD-Pinger Test: 3

Area charted with Seabeam: approx. 685 sm²

Slides taken: approx. 2000

Video tapes recorded: 11

Total mileage run : 1446 sm

A. G. Mull



VOY.: 5052/2 A) - SEARCH

685 sm²

SEARCH AREAS COVERED BY SEABEAM

