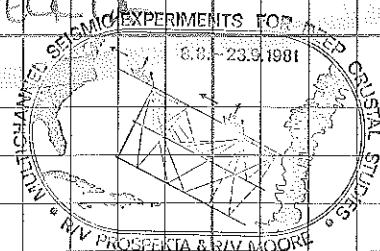


RADIO LOG - R/V MOORE = S/V PROSPEKTA



5 September 1981.

R/V FRED H. MOORE - CRUISE FM10-Z.

MCS - TWO SHIP SURVEY - NORTH ATLANTIC TRANSECT.
SAN JUAN PUERTO RICO TO SAN JUAN P.R.

2218 Z UNDERWAY FROM SAN JUAN P.R.
(September 5)

6 September 1981

1200 Z No contact w/ Prospekta VHF 10/G or ZXP

1208 Z

PROSPEKTA ~~18° 56'~~ ~~66° 46'~~
19° 12.9' 66° 15.1' CSE 180

FINISH ≈ 1415 LOCAL

WILL TRY CH 10 @ 1300 Z / 1315 Z

1315 Z PROSP. ON CH 10 OK CONTACT

NO CONTACT ON 2182 w/ CAI RADIO

1320 Z PROSP. HRS NO CONTACT ON CH 10

THEREFORE FURTHER CONTACT ON BOSCH-UNIT

PROSP. WILL FINISH N-S-PROFILE (LINE 20)

AND COME BACK ON RADIO AT 1500 Z

1330 Z PROSP. MAKES A RADIO-CHECK ON
2182 SSB, BUT NO SUCCESS

1500 Z PROSP. CONTINUES LINE 20; ARRANGEMENT
FOR NEW CALL AT 1700 Z;
RADIO-CHECK ON 2182 WITH TWO RADIOS, BUT WE COULD NOT ^{BE} READ

Sept. 7, 1981

0041 Z FM - HEADING FOR POINT 5 km SO. OF S'
PRO. - $18^{\circ} 45.5' N$ $66^{\circ} 35.4' W$

24.4 km ON MINIRANGER
(LAYDIST = 77.7 LANES)

0400 Agreed lab to lab on Chnl 10
bridge to bridge on 6

0439 - Prospekta started shooting at 0437 Z.
Will bring up our gear when ready.
Prospekta 1.5 km from S'

0553 Notified Prosp Moore recording start Line 22

0723 Prospekta says missed ~~DXD~~ signal at 0443.30 & 0613.00
all OK at the moment

0730 Moore called Prospekta to print out 6.3 km separation
Prospekta slowing

0835 PROSP. RISES SPEED UP TO GET CORRECT DISTANCE

925 PROSP. tries to hold distance, but it is difficult
because of drifting

1020 Prospekta radioed c/c to 015° - back on line

Sept 8, 1951 Radio Log

0003

1025

Prosp. lost some shots because of trigger-failure and disbed for changing of BOSCH-antenna

1053

Call PROSPEKTA, because of distance

1831

Check w/ Prospekta - no missing signals

2030

PROSP WILL CONTROL DISTANCE and prepare a sonobuoy

2103

BATH. SWITCHED FROM 2 SEC. SWEEP TO 1 SEC. SWEEP

2249 -

Prospekta says last shot @ 2253 -

0611

Prospekta heading 253 Range 212nm (ZXDD)

0625

ZXDD Prospekta to direct turn

0737

Prospekta ordering Moore turn to 000 range 4170ms.

0755

Raytheon is on - guns firing

1303

Discussion with R. Kutz on misunderstanding of last evening's maneuvers - Decided -

1. Moore needs 2 hours for turn onto ESP lines

2. Prospekta will shoot on time, if necessary, at ends of lines

3. Prospekta will shoot ESP as CDP single ship.

1320 -

Question as to whether Prospekta will "reshoot" ESP as CDP single ship.

Sept 8, 1991

1555Z Radio contact between Alex and Heinrich
 The following was agreed:

- a) ESP will be shot out to 50 km even if radio contact is lost - Reg will shoot in the
- b) Prospektka will reshoot as CDP entire ESP profile
- c) This will be NAT-26
- d) Reassembly pt is end point of NAT-26

1735- Alexio Prospektka of turn in progress. - Posho
 their maintain course heading until they have time to line up on point.

1740 Prospektka says turn to 180°

1818 Prospektka tells bridge:

Morre will be on 270° at pt. 3 miles from line
 at that pt Morre will come to 282° so
 as to pass Prospektka ahead at range 1500ms.

1854 Prospektka says start DPS IV at 1855 - Line 26
 ESP 7
 (missed first shot)
 (file count 002 first shot recorded at 1856)

1934 Prospektka says tailbuys clear

2030 Radio contact to PROSP only with "Bosch"
 (dist now nearly 25 km)

2129 NOT-Understandable call from PROSP.

Sept. 8/81.

Radio log

0005

9. Sept

0020 Z

Radio-contact with PROSP.
I informed them about situation (weather and pulling up our gear)

0038 Z

Prosp. has at the moment no problems

They will try to measure to the endpoint $66^{\circ}44'$
on this line; then we have decide together what to do

0150 Z

PROSP. asks for location of "BERT"
at 0900 pm.

0206 Z

PROSPECTA stops the line #27,
starts to pull up gear
Position: $21^{\circ}10'N$ $66^{\circ}37'W$

0227 Z

PROSP. Position	$21^{\circ}10'N$	$66^{\circ}38.6'W$
proposes to go to	$22^{\circ}25'N$	$64^{\circ}10'W$ (Point 8A)

0314 Z

Prosp. and HOOEE both to Point 8F

IF we loose Radio-contact on 'Bood' we talk on
SSB 2638 every hour from '00 to 05

1352 Z

P. called - simple good morning -

1405 Z

We tell PROSP. : our ETA on Point 8A
may be 400 katal (0800 Z) tomorrow
ready for measuring, if the weather is good

PROSP. wants to get our weather information

1428 Z

PROSP. wants to talk to Heinrich.
When he is here should call PROSP.

Sept. 9, 81

Radio log.

0006

Sept 10. P1

1450

P. will start to deploy the gear 40 m ahead of 8A (0300 pm) and then shooting to point 8A

1600

line #'s agreed w/ Prospektor:

Prospektor relays of ESP 7 - line #27

Prospektor approach to 8A - line #28

Wide angle from 8A - line #29

1632

Magnavox rejects fix but looks OK
forced update

1719

Magnavox back on auto speed, still not working
Ken G. thinks possible interference on transducer
due to high speed (8.5 fms) & rough water

1730

Informante PROSP. about our new ESP 8A
give them the new lines and coordinates

10. Sept.

0027

Prospektor is 20 km ahead of 8A;
shooting and ~~new~~ recording Line # 28

0310

NEW ARRANGEMENT FOR ESP 8A:

1) ESP-SHOOTING, ARRIVAL ON POINTS 3-4 m
AHEAD (8A) IN NEARLY 2 h

2) RESHOOTING THE LINE BY PROSPEKTOR

FM 10-2 10 Sept. 1951 RADIO LOG

0432 PROSPECTA ON ZXDD - problem w/ mini ranger
asks us to check vs Raydist
checks out OK

0503 PROSPECTA 1 KM FROM FIRST SHOT

0630 ZXDD to Prospekra seismic lab bathymetry check

1015 PROSP. ON LINE #30; ETA FOR POINT 8A: 1600 Z

1810 PROSPECTA plans begin shooting Line #31 at 1835Z
Houtz asks about ETA San Juan

1825 Guns on

1834 Problem w/ gun signal - delay Line start
still 5-6 km from start point

1849 signal program back up
had to reload program from tape

1850 guns firing

1852 begins recording Line #31

Prospekra begins 1851

~~1856 At least in Gun 4; firing only 1, 2, 3; repeating #4~~

~~1900 Begin logging/digitizing magnetics~~

1901 Prospekra mini ranger check

1922 Ask Prospekra when passed 8A.

1931 Pros. to throw SB Chnl #28 at 1935

2015 Ask P for Sonobuoys #95, 96, 97:
They are thrown on normal CDP lines of Prosp

2050 Prosp asks for trouble in shooting trigger
30 min. ago. [Was shooting schedule 30 seconds?]

FM 10-2

10. Sept. 81

Radio - log

2230 Pnosp found fault in chronolap (may be the cause for the trouble at 2030 Z) ↓ ↓

11 Sept. 1981

0430Z Miniranger check

0513Z Prospektor notes we are not keeping speed

0533Z Memo to Prospektor - range closing to 6000 m

0553 P→M spd over gd 5.5; through water 4.9

0634 P→M Sonobuoy #101 will be at 0645
Channel 23

0650 P→M S.B. #101 deployed

0927 Comparison Raydist - Miniranger

1006 Pnosp. launches Sonob. #102

1440 Prospektor reports an outrigger problem on one of its aircraft arrays. They will be shooting at half strength for a while.

1631 M→P gun status?

1825 S.B. #104 Ch. #21 at 1830

~~1850 DTS to Topline #2 will not trigger
EOT lights on at start of type
currently operating on one disk only.~~

1835 #104 1830Z 21° 34.82' N
62° 08.22' W

FM 10-2 11 Sept. 1951

Radio log

1945 P→M sonobuoy dead, probably hit by FMM

2220 Agreement about new situation and what to do

23.15 check Miniranger - Raydist

12. Sept. 81

0000 Z PROSP FINDS REASONS FOR
DECREASE DISTANCE TO 6 Km AGAIN0309 Z PROSP reports they are shooting every
30 sec instead of every min0330 Z PROSP reports they have fixed their
shooting problems

0652 Z M→P More firing only 3 guns

0709 Z M→P Miniranger

0845 PROSP. reports fault in chronology

1600 Z HARVEY 18.8 N 55.5 W 50 mpa WNW 20 KTS

1720 PROSP. assumes that they have to finish
measurements at Central point of 9

1800 Decision of PROSP: They'll go to South

We will continue NAT at point 9, maybe
in 48 h

FM 10-2

Sept. 12, 1951

0010

13.

Radio Log

2345~ PROSP. goes on course 225° for 60 nm

13. Sept.

1100 PROSP position 19° 30' N 62° 00' W

They hope to be back on ESP 9 at 1600 Z

2130 PROSP. deploys gear near midpoint ESP 9 and asks for continuing the line #32 in opposite direction (N → S). But that makes complications. So they will continue line #32 from S → N

Next Radio contact: 2030 SSB

14 Sept.

0100 Z Tell PROSP, that we cannot be on point 3 nm ahead of (9) before 0400 Z

0200 Z Informate PROSP, that we need at least 4 h

0333 Z Contacted PROSP and informed them that we won't reach point 6 nm south of ESP 9 until ~ 0330 L. They will keep intouch

FM 10-2 Sept. 14, 1981

Radio Log

1826 M → P about coming on line

↓

1950 frequent communications throughout turn

↓

2025 P says all proper distance - tomorrow
exed.

2029 - P says - just shot 2032 -

2039 - Calibrated depth - Minimum from P.

2050 Sonobuoy # 107 launched by Prosp. at 2247 Z

Sept 15, 1981

0000Z Conversation with Houty. He wants to do no more ESP and wide aperture profile all the way to MAR along southerly transect. I (R.S.D.) agree that this is o.k. if the bathymetry is smooth, but if the bathymetry gets too rough (which it will) we should break off the line and try to do two well positioned ESP at 23°N south of the Kane, if time permits. Final decision does not need to be made until reach location of ESP 10

0327 Sonobuoy # 108 launched

FM 10-2

Sept. 15, 1981

0012

RADIO LOG

0714 M→P about closing range
Prospecta will increase speed

0720 Sonobuoy # 109

0800 PROSP. reports, our speed is not constant

1215 No more sonobuoys until turn at point 9A is made

1515 PROSP say they will tell our bridge when to turn at point 9A

1644 Sonobuoy # 111

2017 P. launches Sonobuoy 112

2050 P. interrupts Radio Contact on VHF for 10-20 min

2134 Sonobuoy # 113 CH # 2

0225 Sonobuoy # 114 CH # 26
20 10' N
58 17' W

0346 Sonobuoy # 115 CH # 7
20° 10.53' N
58° 06.99' W

1219 Prospecta will recalibrate their clock when they reach pt 9C. At 9C the line number will change from 34 to 35 12:34:05 last shot on line 34

FM 10-2

Sept 16, 1981

0013

RADIO LOG

1445Z Explained to Houtz that we intend to follow original cruise plan as outlined in P.R. according to instructions from Stoffa & Phillips. A decision will have to be made during the next 36 hrs whether to break off COP profile at ESP 10 and run north to MAR or whether to continue COP to MAR. Remaining ESP's will be shot. Houtz suggests that when "flat" areas get less than 20% its time to quit.

1820 Sonobuoy #118

Sept. 17, 1981

0438 Miniranger check

1725- Spoke with A Popovich on R - Discussed possibility of breaking off COP within a few hours. Bottom topography is very rough. May also drop shooting ESP 10. Will discuss with Galveston and Lamont if both are up.

1625 Prospektor repairing guns, will delay start of ESP 10

1633 We have told Prospektor that we will meet them at $22^{\circ}41'N$ $46^{\circ}21'W$ approx 2 1/2 days after end of ESP. Radio contact schedule with Prospektor will be on SSB 2638 daily at 1300 + 2000 hrs

PM 10-2

Sept. 17, 1981

RADIO LOG

1700 Z Maneuvering onto ESP 10

1749 Z ZYD " "

1835 Z M → P does Prospekt have doctor (MD) on board?
Negative.1915 Z M → P Heinrich & Alex agree that
Prospekt will reshoot ESP 10 before
~~continuing~~ ^{ESP 10} to MAR

1920 P → M miniranger working intermittently

FM 10-2

Sept. 20, 1951

0015

RADIO LOG

1710 Z

SSB w/ Prospekt
discussion of MMR ESP's

2000 - 2359 Z Several long radio conversations with Alex and Houtz on Prospekt. Houtz argued that to CDP only half of ESP would "make him look like a fool at Lamont". We asked why. He replied that it would provide sea floor depths along only half the line and consequently we would be unable to make topographic corrections. We noted that both ships have echosounders and that this data would be adequate for topo corrections. Houtz agreed. He then argued (again) that there was no need to deploy Prospekt streamer since the echo-sounding data would be adequate and this would save time. We pointed out the CDP data would be valuable (potentially) even if obtained along only half the line. Furthermore we noted that whether or not Prospekt deployed its streamer saves us no time - the Moore can only go 5 kts whatever. Houtz agreed to deploy Prospekt streamer. We later learned he told Alex not to record. Heinrich spoke with Alex and they will record. Houtz argued that the CDP profile would be useless and take extra time. We could save time if we went to ESP 12 directly from the ends of ESP 11. We agreed to this modification. A sketch of the proposed shooting plan and the coordinates of the midpoint, southern and northern points are in the science log.

SEP 21

0045

Lamont chrono log not clock in sync.
Start Norway Central program for ESP 11.

21. SEPT

Radio log

0145Z P. asks for our ETR on Point
6 km S. of Central point
we say 0345Z

0408Z # P → M start recording at 0418Z
Line #38
ESP A-11

0805Z Radio contact with Alex:

P will steam to Southern point of ESP 12 and
fire and record to the midpoint, because
they'll have time enough

2310 P. starts to measure the line # 40
from S → N of ESP 12

^ 0700 Conversations w/ Prospektor on ZX00 about
turning into BSP 12

Bellhop → Manchester about best location for BSP 12
see SCIENCE LOG

0740Z Bridge to bridge contact

0827Z Raydist calibration

1645Z - Departed Prospektor - enroute to
San Juan -