

MULTICHANNEL LINE LOG

CRUISE RC 24-06

LINE 18

NUMBER OF SHIPS 1

THIS SHIP CONRAD

CDP X

COP

AIRGUNS 4-466 in.³

EXPLOSIVES

RECEIVING SHIPS

R/V CONRAD

NUMBER OF TRACES

48

GROUP SPACING

50m

SHOOTING SHIPS

R/V CONRAD

SHOT INTERVAL

50m

APPROXIMATE SHOT
TIME (SEC)

20

DATE

TIME
GMT

LATITUDE

LONGITUDE

DATATAPE
NO.

LOGTAPE
NO.

START LINE

20 MAY 1983

1948

32° 59.1' N

8° 55.5' W

463

044

END LINE

21 MAY 1983

0449

33° 43.82' N

8° 29.37' W

475

~~044~~ 045

S/B SIGNAL ON AUX CH. 4.

S.B. + 606 ON AUX 1 SB + 12 dB ON AUX 2.

DISTANCES WHERE APPLICABLE

SHIP

AIRGUN
TO
1ST RECEIVER

MINIRANGER
TO
AIRGUNS

ANTENNA
TO
1ST RECEIVER

RADIST
TO
AIRGUNS

ANTENNA
TO
1ST RECEIVER

MULTICHANNEL LINE LOG

CRUISE RC 24-06 LINE 19 NUMBER OF SHIPS 1 THIS SHIP CONRAD
CDP X COP N/A AIRGUNS 4 466 IN³ EXPLOSIVES N/A

RECEIVING SHIPS R/V CONRAD
NUMBER OF TRACES 48
GROUP SPACING 50 m

SHOOTING SHIPS R/V CONRAD
SHOT INTERVAL 50 m
APPROXIMATE SHOT TIME (SEC) 20

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>21 MAY 1983</u>	<u>0540</u>	<u>33° 41.55' N</u>	<u>8° 31.29' W</u>	<u>476</u>	<u>045</u>
END LINE	<u>22 MAY 1983</u>	<u>0102</u>	<u>34° 11.07</u>	<u>10° 19.98'</u>	<u>498</u>	<u>045</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

MULTICHANNEL LINE LOG

CRUISE RC24-06

CDP 4

RECEIVING SHIPS

NUMBER OF TRACES

GROUP SPACING

SHOOTING SHIPS

SHOT INTERVAL

APPROXIMATE SHOT
TIME (SEC)

LINE 20

COP N/A

R/V Conrad
48

50 m

R/V Conrad
Som

20

DATE

TIME
GMT

START LINE 22 MAY 1983
22 MAY 1983

END LINE

0202

1130

L A T I T U D E

34° 10.82' N

33° 21.66' N

LONGITUDE

10° 18.04 W

10° 23.29 W

DATA TAPE
NO.

499

506

LOGTAPE
NO

24-045

24-046

30

DISTANCES WHERE APPLICABLE

SHIP

AIRGUN
TO
1ST RECEIVER

MINIRANGER
TO
AIRGUNS

ANTENNA
TO
1ST RECEIVER

RADIST
TO
AIRGUNS

ANTENNA
TO
1ST RECEIVER

MULTICHANNEL LINE LOG

CRUISE RC 2406LINE 22NUMBER OF SHIPS 1THIS SHIP R/V CONRADCDP ✓

COP _____

AIRGUNS 7 BOLT A/C AT 466³ 1800 PSI EXPLOSIVES _____

RECEIVING SHIPS _____

NUMBER OF TRACES _____

GROUP SPACING _____

R/V CONRAD4850m

SHOOTING SHIPS _____

SHOT INTERVAL _____

APPROXIMATE SHOT
TIME (SEC)R/V CONRAD245-50m20 SEC

DATE _____

TIME
GMT

LATITUDE

LONGITUDE

DATATAPE
NO.LOGTAPE
NO.START LINE 22 MAY 83 DAY 192 231432° 30.35' N11° 00.44' W52424047END LINE 23 MAY 83' 081331° 44.87' N11° 05.44' W53424047

DISTANCES WHERE APPLICABLE

SHIP

AIRGUN
TO
1ST RECEIVERMINIRANGER
TO
AIRGUNSANTENNA
TO
1ST RECEIVERRADIST
TO
AIRGUNSANTENNA
TO
1ST RECEIVER

MULTICHANNEL LINE LOG

CRUISE RC24-06

LINE 023

NUMBER OF SHIPS 1

THIS SHIP R/V CONRAD

EXPLOSIVES N/A

CDP ✓

COP N/A

AIRGUNS 4/466 IN³

RECEIVING SHIPS

R/V CONRAD

NUMBER OF TRACES

48

GROUP SPACING

50m

SHOOTING SHIPS

R/V CONRAD

SHOT INTERVAL

50m

APPROXIMATE SHOT
TIME (SEC)

20 SEC

DATE

TIME
GMT

LATITUDE

LONGITUDE

DATATAPE
NO.

LOGTAPE
NO.

START LINE 23 MAY 83

0813

31° 44.87' N

11° 05.44' W

535

24-047

END LINE

24 MAY '83

0332

30° 19.07' N

12° 02.07' W

557

24048

DISTANCES WHERE APPLICABLE

SHIP

AIRGUN
TO
1ST RECEIVER

MINIRANGER
TO
AIRGUNS

ANTENNA
TO
1ST RECEIVER

RADIST
TO
AIRGUNS

ANTENNA
TO
1ST RECEIVER

CRUISE RC 24-06
CDP ✓

LINE 024
COP N/A

NUMBER OF SHIPS 1
AIRGUNS 4 466 in³

THIS SHIP N/A
EXPLOSIVES N/A

RECEIVING SHIPS
NUMBER OF TRACES
GROUP SPACING

R/V CONRAD
48
50m

SHOOTING SHIPS
SHOT INTERVAL

R/V CONRAD
50m
20 sec

APPROXIMATE SHOT
TIME (SEC)

DATE

TIME
GMT

LATITUDE

LONGITUDE

DATATAPE
NO.

LOGTAPE
NO.

START LINE
END LINE

24 MAY 1963
24 MAY 83
0445
0845

30° 19' N
30° 19' 7 N

12° 02' W
11° 45.5' W

558
562
24-048
24-048

END LINE DUE TO STREAMER NOT TOWING DEEP ENOUGH, PULLED IN STREAMER,
DISTANCES WHERE APPLICABLE

SHIP

AIRGUN
TO
1ST RECEIVER

MINIRANGER
TO
AIRGUNS

ANTENNA
TO
1ST RECEIVER

RADIST
TO
AIRGUNS

ANTENNA
TO
1ST RECEIVER

MULTICHANNEL LINE LOG

PAGE NO. 1

CRUISE RC 2408

LINE 25

NUMBER OF SHIPS 1

THIS SHIP R/V CONRAD

COP ✓

COP _____

AIRGUNS 4 BOLT A/G AT 466 IN³ EXPLOSIVES _____
1800 psi

RECEIVING SHIPS _____

NUMBER OF TRACES _____

GROUP SPACING _____

R/V CONRAD

48

50m

SHOOTING SHIPS _____

SHOT INTERVAL _____

APPROXIMATE SHOT
TIME (SEC) _____

R/V CONRAD

50m

20 SEC

DATE _____

TIME
GMT _____

LATITUDE _____

LONGITUDE _____

DATATAPE
NO. _____

LOGTAPE
NO _____

START LINE

21 MAY 83

16 38

30° 18.3' N

11° 49.6' W

563

24-048

END LINE

25 MAY 1983

0742Z

30° 11.33' N

10° 13.08' W

580

24-049

LINE 25 IS A PICK-UP OF LINE 24 WHICH WAS ABORTED DUE TO STREAMER PROBLEMS.
DISTANCES WHERE APPLICABLE

SHIP

AIRGUN
TO
1ST RECEIVER

MINIRANGER
TO
AIRGUNS

ANTENNA
TO
1ST RECEIVER

RADIST
TO
AIRGUNS

ANTENNA
TO
1ST RECEIVER

MULTICHANNEL LINE LOG

CRUISE RC24-06

CDP ✓

LINE 026

COP N/A

NUMBER OF SHIPS 1

AIRGUNS 4/466 in³

THIS SHIP R/V CONRAD

EXPLOSIVES N/A

RECEIVING SHIPS

NUMBER OF TRACES

GROUP SPACING

R/V CONRAD

48

50m

SHOOTING SHIPS

SHOT INTERVAL

APPROXIMATE SHOT
TIME (SEC)

R/V CONRAD

50m

20

DATE

TIME
GMT

LATITUDE

LONGITUDE

DATATAPE
NO.

LOGTAPE
NO.

START LINE

END LINE

5/25/83

5/27/83

0948

0234

30° 18.41' N

33° 38.28' N

10° 14.71' W

9° 26.65' W

581

630

24-049

24-051

SONOBUOY (#69-75) ARE ON AUX 4 @ 0db, AUX 1 @ 6db, AUX 2 @ 12db.
DISTANCES WHERE APPLICABLE

SHIP

AIRGUN
TO
1ST RECEIVER

MINIRANGER
TO
AIRGUNS

ANTENNA
TO
1ST RECEIVER

RADIST
TO
AIRGUNS

ANTENNA
TO
1ST RECEIVER

MULTICHANNEL LINE LOG

CRUISE RC24-06

CDP ✓

LINE 027

COP N/A

NUMBER OF SHIPS 1

AIRGUNS 4/466 IN³

THIS SHIP R/V CONRAD

EXPLOSIVES N/A

RECEIVING SHIPS

NUMBER OF TRACES

GROUP SPACING

R/V CONRAD

48

50m

SHOOTING SHIPS

SHOT INTERVAL

APPROXIMATE SHOT
TIME (SEC)

R/V CONRAD

50m

20

DATE

TIME
GMT

LATITUDE

LONGITUDE

DATATAPE
NO.

LOGTAPE
NO

START LINE

27 MAY 1983

0330

33° 38.28' N

9° 26.65' W

631

24-051

END LINE

27 MAY 1983

1745

33° 33.61' N

10° 55.40' W

647

24-051

SONOBUOYS # (76-71) RECORDED ON AUX 1: -5db, AUX 1: +6db, AUX 2: +12db

DISTANCES WHERE APPLICABLE

SHIP

AIRGUN
TO
1ST RECEIVER

MINIRANGER
TO
AIRGUNS

ANTENNA
TO
1ST RECEIVER

RADIST
TO
AIRGUNS

ANTENNA
TO
1ST RECEIVER

MULTICHANNEL LINE

CRUISE RC2406

CDP ✓

RECEIVING SHIPS

NUMBER OF TRACES

GROUP SPACING

SHOOTING SHIPS

SHOT INTERVAL

APPROXIMATE SHOT
TIME (SEC)

DATE

TIME
GMT

START LINE

END LINE

29 MAY 1983

29 MAY 1983

LINE 629

COP N/A

R/V Conrad

48

50m

RN Conrad

50m

20

NUMBER OF SHIPS.

AIRGUNS 4/466-3 BOLT

THIS SHIP R/V Conrad
EXPLOSIVES N/A

EXPLOSIVES N/A

L A T I T U D E

31°14.8'N

31° 56.9' N

LONGITUDE

11° 51.9'
12° 01.64' W

DATA TAPE
NO.

682

695

LOGTAPE
NO

24-053

24-053

730 21
DISTANCES WHERE APPLICABLE

SHIP

AIRGUN
TO
1ST RECEIVER

MINIRANGER
TO
AIRGUNS

ANTENNA
TO
1ST RECEIVER

RADIST ANTENNA
TO
AIRGUNS
1ST RECEIVER

1ST RECEIVER

MULTICHANNEL LINE LOG

CRUISE RC24-06

CDP ✓

LINE 030

COP N/A

NUMBER OF SHIPS 1

AIRGUNS 4/466N³

THIS SHIP R/V CONRAD

EXPLOSIVES N/A

RECEIVING SHIPS

NUMBER OF TRACES

GROUP SPACING

R/V CONRAD

48

50m

SHOOTING SHIPS

SHOT INTERVAL

APPROXIMATE SHOT
TIME (SEC)

R/V CONRAD

50m

20SEC.

DATE

TIME
GMT

LATITUDE

LONGITUDE

DATATAPE
NO.

LOGTAPE
NO.

START LINE

END LINE

5/29/83

5/30/83

0730

0600

31° 56.9' N

33° 52.5' N

12° 01.64' W

11° 15.98' W

691

716

24-053

24-054

DISTANCES WHERE APPLICABLE

SHIP

AIRGUN
TO
1ST RECEIVER

MINIRANGER
TO
AIRGUNS

ANTENNA
TO
1ST RECEIVER

RADIST
TO
AIRGUNS

ANTENNA
TO
1ST RECEIVER

CRUISE RC24-06CDP ✓LINE 31COP N/ANUMBER OF SHIPS 1AIRGUNS 4 466m³ BOLTTHIS SHIP R/V CONRADEXPLOSIVES N/A

RECEIVING SHIPS

NUMBER OF TRACES

GROUP SPACING

R/V CONRAD4850 m

SHOOTING SHIPS

SHOT INTERVAL

APPROXIMATE SHOT
TIME (SEC)R/V CONRAD50 m20 sec

DATE

TIME
GMT

LATITUDE

LONGITUDE

DATATAPE
NO.LOGTAPE
NO.

START LINE

END LINE

5/30/835/30/830712200233° 50.5' N33° 59.3 N11° 14.21' W09° 51.23 W71773224-05424-055

DISTANCES WHERE APPLICABLE

SHIP

AIRGUN
TO
1ST RECEIVERMINIRANGER
TO
AIRGUNSANTENNA
TO
1ST RECEIVERRADIST
TO
AIRGUNSANTENNA
TO
1ST RECEIVER

CRUISE RC2406

LINE 33

NUMBER OF SHIPS 1
3

THIS SHIP RC

EXPLOSIVES N/A

CDP

COP

RECEIVING SHIPS

NUMBER OF TRACES

GROUP SPACING

SHOOTING SHIPS

SHOT INTERVAL

APPROXIMATE SHOT
TIME (SEC)

DATE

TIME
GMT

L A T I T U D E

LONGITUDE

DATA TAPE
NO.

LOGTAPE
NO

START LINE 31 MAY 1983

START LINE
END LINE 1 JUNE 1983

0336

0245

34° 12.50' N

34° 05.08'N

10° 19.08' W

12° 38.78' W

740

767

24-055

24-056

DISTANCES WHERE APPLICABLE

SHIP

AIRGUN
TO
1ST RECEIVER

MINIRANGER ANTENNA
TO
AIRGUNS 1ST RECEIVER

ANTENNA
TO
1ST RECEIVER

RADIST ANTENNA
TO
AIRGUNS 1ST RECEIVER

ANTENNA
TO
1ST RECEIVER

MULTICHANNEL LINE LOG

PAGE NO. 18

CRUISE RC2406

LINE 34

NUMBER OF SHIPS 1

THIS SHIP RC

CDP ✓

COP _____

AIRGUNS 4/466 in³

EXPLOSIVES N/A

RECEIVING SHIPS

NUMBER OF TRACES

GROUP SPACING

RDC

48

50m

SHOOTING SHIPS

SHOT INTERVAL

APPROXIMATE SHOT

TIME (SEC)

RDC

50m

20sec

DATE

TIME
GMT

LATITUDE

LONGITUDE

DATATAPE
NO.

LOGTAPE
NO.

START LINE

END LINE

1 June 1983

2 June 1983

0309

1345

34° 03.31 N

31° 17.2 N

12° 40.51 W

14° 31.7 W

768

808

24-056

24-059

DISTANCES WHERE APPLICABLE

SHIP

AIRGUN
TO
1ST RECEIVER

MINIRANGER
TO
AIRGUNS

ANTENNA
TO
1ST RECEIVER

RADIST
TO
AIRGUNS

ANTENNA
TO
1ST RECEIVER

RECORDING LOG

 DFS IV 48 CHANNELS
 FORMAT: SEG B
 BPI. 1600
R/V CONRADAND R/V'S CRUISE RC24-06AREA MOROCCAN MARGIN IILINE NO. 17LINE TYPE CDPSOURCE 2-466 IN³ AIR GUNS

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
138	0356	393	001	2210	20	4	8	4	AIRGUNS #2 & #3 ON TAPE 10 AT 314 - (TPX-1) START MCS RECORDING DT1: 34 DT3: 33 DT5: 31 DT2: 36 DT4: 37 DT6: 38
18 MAY 1987	0430	393	001	2210					END TAPE 393 NO SHOTS LOST DT1: 34 DT3: 35 DT5: 30 DT2: 35 DT4: 37 DT6: 35
	0522	393	154		"	"	"	1	START TAPE 394 (TPX-2)
	0522	394	155	2260	"	"	"	"	END TAPE 394 NO SHOTS LOST DT1: DT3: DT5: DT2: DT4: DT6:
	0614		313		"	"	"	"	START TAPE 395 (TPX-1)
	0614	395	314	2293	"	"	"	"	END OF TAPE 395 - NO SHOTS LOST DT1: 28 DT3: 29 DT5: 30 DT2: 28 DT4: 40 DT6: 40
	0705	395	468		20	4	8	4	START OF TAPE 396 (TPX-2)
	0705	396	469	2308	"	"	"	"	END OF TAPE 396 - NO SHOTS LOST & NO PARITY ERRORS DT1: 28 DT3: 30 DT5: 30 DT2: 30 DT4: 37 DT6: 38
	0758	396	624		"	"	"	"	START OF TAPE 397 (TPX-1)
	0758	397	625	2305	"	"	"	"	END OF TAPE 397 - NO SHOTS LOST & NO PARITY ERRORS DT1: 32 DT3: 33 DT5: 33 DT2: 33 DT4: 42 DT6: 44
	0850	397	779		"	"	"	"	START OF TAPE 398 (TPX-2)
	0850	398	780	2303	"	"	"	"	END OF TAPE 398 - NO SHOTS LOST & NO PARITY ERRORS DT1: 36 DT3: 33 DT5: 30 DT2: 34 DT4: 38 DT6: 37
	0942	398	936		"	"	"	"	START OF TAPE 399 (TPX-1)
	0942	399	937	2271	"	"	"	"	END OF TAPE 399 - NO SHOTS LOST & NO PARITY ERRORS DT1: 35 DT3: 33 DT5: 30 DT2: 33 DT4: 38 DT6: 37
	1033	399	093		20	4	8	4	START OF TAPE 400 (TPX-2)
	1033	400	094	2169	"	"	"	"	MONITOR RECORD
	1043	400	122		"	"	"	"	END TAPE 400 NO ERRORS TPX
	1126	400	250						START TAPE 401 TPX-1
	1126	401	251	2200					

RECORDING LOG

PAGE NO. 2

R/V Conrad
CRUISE RC2406
LINE NO. 17

AND R/V'S _____
AREA Moroccan Margin II
LINE TYPE CDP SOURCE 2 466 m³ Airguns

DFS IV 48 CHANNELS
FORMAT: SEGB
BPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	* OVERDRIVE ERRORS DUE TO SONOBUOY NOT ALL HAVE BEEN COMMENTS NOTED
138	1218	401	405		20	4	8	4	Airguns #2 + #3 ON END TAPE NO ERRORS DI #1 = 34 #3 = 30 #5 = 30 #2 = 30 #4 = 39 #6 = 35
18 MAY	1218	402	406	2200	"	"	"	"	START TAPE TPX-2
1983	1230	402	440		"	"	"	"	Camera record
	1238	402	464		"	"	"	"	SB # 44 Aux Channel #4 First Shot / CAUSING OVERDRIVE
	1248	402	495-6	and on	irregularly	"	"	"	Overdrive and parity - probably due to Sonobuoy
	1310	402	561		"	"	"	"	SONOBUOY FILTER SETTINGS ARE 5-30 Hz. END TAPE 402 DI: #1 = 35 #3 = 31 #5 = 25 #2 = 31 #4 = 36 #6 = 36
	1310	403	562	2300	20	4	8	4	START TAPE 403 TPX-1
	1342	403	655		"	"	"	"	parity + sync error
	1343	403	659		"	"	"	"	parity + sync errors
	1349	403	678		"	"	"	"	parity + sync errors
	1400	403	712B		"	"	"	"	sync + parity errors
	1401	403	714		"	"	"	"	END TAPE 403
	1401	404	715	2450	20	4	8	4	START TAPE 404 TPX-2 DI #1 = 35 #3 = 30 #5 = 30 #2 = 30 #4 = 38 #6 = 38
	1412	404	747		"	"	"	"	Camera record
	1431	404	804		"	"	"	"	parity + sync errors
	1436	404	818g		"	"	"	"	parity + sync errors 818 + 819 + 820
	1439	404	829						"
	1444	404	841						parity error also 849 + 850 - sync Various others
	1452	404	866						END TAPE 404 getting many parity errors

R/V Conrad
CRUISE RC2406
LINE NO. 17

AND R/V'S.

AND R/V'S _____
AREA MOROCCAN MARGIN
_____ CDR SOURCE _____

LINE TYPE CDP

SOURCE # 2 466 1h³ Airguns

BPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
136	1452	405	867	2353	20	4	8	4	BEGIN TAPE 405 TPX-1
18 MAY	1527	405	973	2353					END Sonobuoy #44
1983	1530	405	983	2353					BEGIN Sonobuoy #45 TPX-1
	1543	405	19	2353					END tape 405 TPX-1 TPX-1
	1543	406	20	"					BEGIN tape 406 TPX-2
	1608		96	"					#1-33, #2-34, #3-35, #4-42, #5-36, #6-39
	1635	406	175	"					END tape 406 TPX-2
	1635	407	176	"					BEGIN tape 407 TPX-1
	1726	407	328	2353					END tape 407 TPX-1
	1726	408	329	2353					BEGIN tape 408 TPX-2
	1818	408	484	"					END tape 408 TPX-2
	1818	409	485	2353					BEGIN tape 409 TPX-1
	1909	409	637						END tape 409 TPX-1
	1909	410	638	2348					BEGIN tape 410 TPX-2
	1918								3 GUNS FIRING 12 & 7.
	1941			728					CAMERA MONITOR RECORD TAKEN
	2000	410	792						END TAPE 410 MANY PARITY ERRORS HEADS VERY DIRTY
	2000	411	793	2348					BEGIN TAPE 411 ON TPX-1

DFS IV 7-10-68
FORMAT: 566 B
BPI 1600

CRUISE RC 27-06

LINE NO 17

AND R/U'S

AND R/V'S _____
 _____ MARGIN

AREA _____
LINE TYPE COP

MARGIN
SOURCE 3 BOLT AIRGUNS @ 466 in³ ea 1800 PSI

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
138	2051	411	945		20	4	8	4	OFF ON TPX-2.
18	2051	412	946	2348					S/B #46 IN WATER ON AUX CH 4.* OFF - TAPE HEADER SAYS 411
MAY	2101	412	?						ON TPX1
83	2143	412	102						2201 & PRECEDING HEAVY NOISE ON CAMERA 2 SHIPS NEARBY
	2143	413	103	2348					DEPTHS #1 40', #2-35', #3-35' #4-40' #5-30' #6-37'
	2200								OFF
	2220								OFF
	2235	413	258						ON TPX-2.
	2235	414	258	2348	20	4	8	4	DT's #1-38; 2-35; 3-35; 4-42' OFF ON TPX-1 5-30; 6-38
	2328	414	415						OFF
	2328	415	416						ON TPX-2
139	0018	415	568						OFF
MAY	0018	416	569						ON TPX-1
1983	0105	416	706						END
	0105	417	707						ON TPX-2
	0149	417	840						
	0149	418	841						
*									S/B. ON Aux 4 S/B #6/b ON Aux 1 S/B #12/b ON Aux Ch. 2.

RECORDING LOG

R/V CONRAD
CRUISE RC2406
LINE NO. 17

AND R/V'S N/A
AREA MOROCCAN MARGIN
LINE TYPE CDP
SOURCE 3/466 in³ AIRGUNS

DFS IV 48 CHANNELS
FORMAT: SEG B
BPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
							8	4	END
139	0242	418	996		20	4			ON TPX-1
14 MAY	0242	419	997	2350					END TAPE 419 NO SHOTS LOST DT1: 40 DT3: 34 DT5: 31 DT2: 36 DT4: 41 DT6: 39
1983	0333		152						START TAPE 420 (TPX-2)
	0333	420	153	2360	"	"	"	"	END TAPE 420 NO SHOTS LOST DT1: 40 DT3: 36 DT5: 31 DT2: 36 DT4: 40 DT6: 39
	0426		310						START TAPE 421 (TPX-1)
	0426	421	311	2360	"	"	"	"	4 GUNS FIRING
	0503	421	433						END TAPE 421 NO SHOTS LOST DT1: 39 DT3: 34 DT5: 34 DT2: 35 DT4: 42 DT6: 39
	0517		462						START TAPE 422 (TPX-2)
	0517	422	463	2360	"	"	"	"	END TAPE 422 NO SHOTS LOST DT1: 39 DT3: 37 DT5: 34 DT2: 36 DT4: 43 DT6: 41
	0609		618						START TAPE 423 (TPX-1)
	0609	423	619	2365	"	"	"	"	END TAPE 423 - NO SHOTS LOST DT1: 38 DT3: 35 DT5: 32 DT2: 35 DT4: 41 DT6: 40
	0700	423	772						START TAPE 424 (TPX-2)
	0700	424	773	2354	20	4	8	4	SUNOBUOY # 47 IN WATER - RECOVERED ON AUX 4, AUX 2 & AUX 1
	0718	424	829		"	"	"	"	GUN #3 OFFLINE, THREE GUN OPERATION PARITY & SYNC ERRORS LAST 4 SHOTS.
	0730	424	860		"	"	"	"	END OF TAPE 424, NO SHOTS LOST, OVERDRIVES DUE TO SONOBUOY DT1: 37 DT3: 38 DT5: 33 DT2: 37 DT4: 41 DT6: 38
	0751	424	928	2356	"	"	"	"	START TAPE 425 (TPX-1)
	0752	425	929		"	"	"	"	END OF TAPE 425, NO SHOTS LOST, OVERDRIVES DUE TO SONOBUOY DT1: 35 DT3: 36 DT5: 33 DT2: 35 DT4: 40 DT6: 38
	0843	425	083						START TAPE 426 (TPX-2)
	0843	426	084	2356	20	4	8	4	

RECORDING LOG

R/V CONRAD

AND R/V'S N/A

CRUISE RC24-06

AREA MOROCCAN MARGIN

LINE NO 017

LINE TYPE CDP

SOURCE A/ 466 IN³ AIRGUNS
3 and 4

DFS IV 48 CHANNELS

FORMAT: SEG B

BPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
139	0935	426	239	2356	20	4	8	4	END OF TAPE 426, NO LOST SHOTS, OVERDRIVES DUE TO SONOBUOY #47 DT1: 40 DT3: 35 DT5: 30 DT6: 38
19 MAY, 1983	0935	427	240		"	"	"	"	START OF TAPE 427 (TPX-1) DT2: 35 DT4: 42
	1021	427	379		"	"	"	"	END OF SONOBUOY #47
	1027	427	395	2356	"	"	"	"	END OF TAPE 427, NO SHOTS LOST, OVERDRIVES ON AUX CHN - SONOBUOY. DT1: 35 DT3: 36 DT5: 32 DT6: 38
	1027	428	396	2356	"	"	"	"	START OF TAPE 428 (TPX-2) DT2: 35 DT4: 40
	1049	428	460		"	"	"	"	OVERDRIVE IS DIS-ABCD ON THE AUX. CHANNELS START OF SONOBUOY #48, AUX 4 - 0db, AUX 1 - 6db, AUX 2 - 12db
	1120	428	553	2356	"	"	"	"	END TAPE 428 DT#1=35 #3=35 #5=33 #2=35 #4=40 #6=38
	1120	429	554	2356	20	4	8	4	START TAPE 429 TPX-1
	1211	429	706		"	"	"	"	END TAPE 429, NO SHOTS LOST. DT1: 35 DT3: 35 DT5: 35 DT6: 39
	1211	430	707	2356	"	"	"	"	START TAPE 430 (TPX-2) DT2: 35 DT4: 40
	1222	430	739		"	"	"	"	Fmt Fault
	1224	430	745		"	"	"	"	Camera Record
	1303	430	862		"	"	"	"	END TAPE 430
	1303	431	863	2356	"	"	"	"	START TPX-1 DT#1=33 #3=35 #5=34 #2=33 #4=40 #6=38
	1310	431			"	"	"	"	GUN #2 OFF, GUN #3 ON - NOW FIRING #1, 3, 4
	1316	431	902	2356	"	"	"	"	FOUR GUNS ON NOW
	1354	431	18						END TAPE 431
	1354	432	19	2335					START TAPE 432 TPX-2 DT#1=36 #3=35 #5=35 #2=35 #4=35 #6=40
	1400	432	34						END SB# 48

R/V Conrad
CRUISE RC 2406
LINE NO 17

AND R/V'S

AREA Moroccan Margin

SOURCE 4 466 m³ Argons

LINE TYPE CDP

BPI 1000

COMMENTS

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
139	1446	432	173	2334					END TAPE 432
	1446	433	174	11					TPX-1 START TAPE 433
	1450	433	186	2329	20	4	8	5	Delay changed to 5 SEC
	1538	433	328	2321					End tape 433 TPX-1
	1538	434	329	11					Begin tape 434 TPX-2
	1625	434	471	2322					DT#1=37', #2=34', #3=35'; #4=39', #5=30', #6=31'
	1630	434	484	2321					END TAPE 434, NO LOST SHOTS DT1: 34 DT3: 37 DT5: 33
	1630	435	485	11					START OF TAPE 435 (TPX-1) DT2: 35 DT4: 40 DT6: 40
	1711	435	609	11					SONOBUOY #49 ON AUX CH. 1, 2 & 4
	1721	435	637	2320					end tape 435 TPX-1 (no shots lost)
	1721	436	638	11					begin tape 436 TPX-2
	1814	436	794	2321					end tape 436 436 TPX-2
	1814	437	795	2321					begin tape 437 TPX-1
	1905	437	948						OFF 9# 437
	1905	438	949	2320	20	4	8	5	ON 438 (TPX-2)
	1955								DEMOS DT#1-35', #2-35', #3-40', #4-40', #5-32', #6-40'
	1958	438	107						OFF
	1958	439	108	2318					ON (TPX-1)
	2010								FOUNO GUN #3 LATE BY 9 MILLISECOND

RV CONRAD
 CRUISE RC2406
 LINE NO. 17

AND R/V'S

AREA MOROCCAN MARGINLINE TYPE CDPSOURCE 4 Bolt AG. AT 466 IN³ PA

COMMENTS

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
139	2030	439	205		2 ⁴⁰	4	8	5	END S.B. # 49.
19	2047	439	235						S/B #50 LAUNCHED ON AUX CH 4; AUX CH 2 16db AUX CH 3 +12db.
MAY	2049	439	261	2315					OFF
83.	2049	440	262	2315					ON TPX-2
	2141	440	418						OFF
	2141	441	419	2308	20	4	8	5	ON TPX-1
	2232	441	572						OFF - LOST 3 SHOTS
	2234	442	575	2309	20	4	8	5	ON TPX-2
	2242								DEPTHS #1-36', #2-36', #3-38', #4-42', #5-33', #6-40'
	2325	442	730	2308					END
	2325	443	731	2308					ON TPX-1
140	0017	443	883	2308					
20	0017	444	884	2308	20	4	8	5	ON TPX-2
MAY	0030	444		2308					SB#50 STARTED END
1983	0035	444	339	2308					SB#51 STARTED
	0109	444	41	2306					OFF
	0109	445	42	2306					ON TPX-1
	0200	445	194	2306					OFF
	0700	446	195	2306					ON TPX-2

R/V CONRAD
CRUISE RC2406
LINE NO 17AND R/V'S N/A
AREA MOROCCAN MARGIN
LINE TYPE CDP
SOURCE 4.466 in³ ALGUM

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
140	0202	446	203	2306	20	4	8	5	DT's - 1-35, 2-36, 3-37, 4-43, 5-35, 6-42
									OFF
20 MAY	0252	446	350	3306		"	"	"	ON TPX-1
1983	0252	447	351	2306	"	"	"	"	END TAPE #447 NO SHOTS LOST DT1: 35 DT3: 37 DT5: 36 DT2: 36 DT4: 42 DT6: 42
	0344		506			"	"	"	START TAPE #448 (TPX-2)
	0344	448	507	2305	"	"	"	"	END TAPE #448 NO SHOTS LOST DT1: 33 DT3: 39 DT5: 36 DT2: 35 DT4: 42 DT6: 38
	0436		662			"	"	"	START TAPE #449 (TPX-1)
	0436	449	663	2308	"	"	"	"	SHIP SLOWS DOWN - TRAFFIC PROBLEMS END TAPE #449 5-6 SHOTS MISSED DT1: 36 DT3: 38 DT5: 3E DT2: 37 DT4: 44 DT6: 39
	0504	449	747						START TAPE #450 (TPX-1)
	0529		814	2135		"	"	"	SHIP BACK TO NORMAL SPEED
	0529	450	815			"	"	"	END TAPE #450 NO SHOTS LOST DT1: 36 DT3: 39 DT5: 34 DT2: 36 DT4: 42 DT6: 40
	0530								START TAPE #451 (TPX-2)
	0620		969			"	"	"	CHANGE PROFILER DELAT TO 4.0 segundos (seconds!)
	0620	451	970	2075	"	"	"	"	END OF TAPE #451, NO SHOTS LOST DT1: 35 DT3: 39 DT5: 35 DT2: 37 DT4: 43 DT6: 40
	0655		076		20	4	8	4	START OF TAPE #452 (TPX-1)
	0713	451	128		"	"	"	"	CHANGE DELAT TO 2 SEC.
	0713	452	129	1907	"	"	"	"	END OF TAPE #452, NO SHOTS LOST
	0800		270	1643	20	4	8	2	START OF TAPE #453, 6 SHOTS LOST DUE TO TRANSPORT MALI
	0804	452	281		"	"	"	"	
	0806	453	282						

RECORDING LOG

DFS IV 48 CHANNELSFORMAT: SEG BBPT 11600RV CONRAD
CRUISE RC24-06AND R/V'S N/AAREA MOROCCAN MARGINSOURCE 4/466IN³ AIR GUNSLINE NO. 017LINE TYPE CDP

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
140	0819	453	320		20	4	8	2	DT1: 38 DT3: 39 DT5: 37 DT2: 38 DT4: 45 DT6: 40. MONITOR RECORD
20 MAY 1983	0859	453	441		"	"	"	"	END OF TAPE 453, 6 SHOTS LOST AT START DUE TO TRANSPORT MLEGN.
	0859	454	442	1210	"	"	"	"	START OF TAPE 454(TPX-1) DT1: 37 DT3: 38 DT5: 35 DT2: 37 DT4: 42 DT6: 38
	0910	454	474		"	"	"	"	GUN #1 OFFLINE (AIR LEAK) 3 GUN OPERATION
	0930	454	535		20	4	8	Ø	CHANGE TO Ø DELAY.
	0951	454	595	851	"	"	"	"	END OF TAPE 454, NO SHOTS LOST (TPX-2) DT1: 37 DT3: 38 DT5: 35 START OF TAPE 455, DT2: 37 DT4: 42 DT6: 38
	0951	455	596		"	"	"	"	END OF TAPE 455, NO SHOTS LOST DT1: 37 DT3: 38 DT5: 33 START OF TAPE 456(TPX-1) DT2: 36 DT4: 40 DT6: 38
	1043	455	752		"	"	"	"	START OF TAPE 456(TPX-1) DT2: 36 DT3: 38 DT5: 33 Camera reload
	1043	456	753	585	"	"	"	"	END TAPE 456 DT #1 = 36 #3 = 35 #5 = 36 #2 = 35 #4 = 40 #6 = 35
	1059	456	801	373	"	"	"	"	START TAPE 457-TPX-2
	1134	456	906		"	"	"	"	GUN #1 ON - ALL 4 GUNS FIRING
	1134	457	907		"	"	"	"	GUN #3 OFF - (AIR LEAK)
	1144	457	937	200	"	"	"	"	SB #52 LAUNCHED (52A FAILED)
	1200	457	995		"	"	"	"	SB #52 LAUNCHED
	1215	457	30		"	"	"	"	SB #52 LAUNCHED
	1219	457	42						END TAPE 457 DT #1 = 35 #3 = 36 #5 = 35 #2 = 35 #4 = 40 #6 = 38
	1227	457	64						START TAPE 455 TPX-1
	1227	458	65	150					SB #52
	1230	458	75						

RV ConradCRUISE RC2406LINE NO. 17

AND R/V'S

AREA Moroccan MarginLINE TYPE CDPSOURCE 4 466 in³ Airguns

COMMENTS

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	
140	1252	458	143		20	4	8	0	Ships Noise - large freighter crossing
20 MAY	1305	458	180		"	"	"	"	Fishing boats crossing
1983	1318	458	220		"	"	"	"	END TAPE 458
	1318	459	221	60	"	"	"	"	START TAPE 459 TPX-2
	1332	459	261		"	"	"	"	Camera record
	1349	459	311		"	"	"	"	GUN #3 OFF
	1411	459	376		"	"	"	"	END TAPE 459
	1411	460	377	60	"	"	"	"	START TAPE 460 TPX-1
	1441	460	475						DIVE THE CABLE TO 50' - ship crossing cable
	1452	460	502						END SB #52
	1503	460	532						End tape 460 TPX-1
	1503	461	533	53					Begin tape 461 TPX-2
	1504	461	535						CABLE BACK AT TOW DEPTH $\approx 35' \pm 5$
	1528	461							DIVING THE CABLE & SPEEDING UP TO AVOID A TRAWLER
	1536	461	648						SLOWER BACK DOWN TO 5 KTS
	1556	461	691						END TAPE 691 TPX-2
	1556	462	692	43					BEGIN TAPE 692 TPX-1
	1601	462	707	41					LAST SHOT ON LINE 17

DT #1=35 #2=40 #3=51 #4=60 #5=50

DT #1=35 #2=33 #3=35 #4=38 #5=36 #6=36

DT #1=35 #2=34 #3=35 #4=38 #5=30 #6=35

R/V CONRAD
CRUISE PC24-06
LINE NO 18

AND RV'S _____
AREA MOROCCAN MARGIN MCS II
LINE TYPE CDP SOURCE 4-466 IN. 3 ASD 60MS

BPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
140	1730	463	001	46	20	4	8	0	BEGIN LINE 18, FIRST SHOT 463(TPX-1)
20 MAY	1749	463	059						SB# 53A launched - failed
1983	1810	463	121						SB# 5453 launched - failed
	1822	463	156						END TAPE 463 TPX-1
	1822	464	157	52					BEGIN TAPE 464 TPX-2
	1836	464	205						SB# 53 launched 513 ON AUX CH 4.
	1915		315						AUX CH 1 + 666 AUX CH 2 + 1286.
	1926								OFF.
	1915								DEPTHS #1=39', #2=40', #3=40', #4=39', #5=36', #6=40'
	465	465	316	53	20	4	8	0	ON TPX-1 OCCASIONAL OVERDRIVE INDICATION
	2007	465	470						OFF
	2007	466	471	43					ON TPX-2
	2022	466	516						CAMERA RECORD TAKEN.
	2-10V	466	624						OFF
	2100	467	629	54	20	4	8	0	ON TPX-1
	2130	467	720						END S/B # 53
	2151	467	783						OFF
	2151	468	784	55	20	4	8	0	ON TPX-2.
	2225								PRECEDING. GUN #1 NOT FIRING EVERYTIME.
	2243	468	940	55					OFF.

RECORDING LOG

R/V CONRAD

CRUISE 2406

LINE NO 18

AND R/V' S.

AND R/V'S _____
AREA MOROCCAN MARCIN
SOURCE _____

LINE TYPE CDP

SOURCE

SOURCE 4 BOLT A/G @ 466 IN³ cu 1800 PSI

DFS IV 48 CHANNELS

FORMAT: SFC B

BPI 1600

LINE NO. 18

LINE TYPE

COMMENTS

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	
140	2243	469	941	55	20	4	8	0	ON TPX-1
									OFF
	2335	469	95	62	1				AIRGUNS ARE OFF COMPUTER CONTROL / START 470 on TPX-2
	2335	470	96	62					470 RESTART TPX 2 MALFUNCTION 6 SHOTS LOST
	2337	470	97	62					AIRGUNS BACK ON COMPUTER.
	2345		119	62					OFF
	0029	470	253	62					ON TPX-1
	0029	471	254	62					SB # 54 LAUNCHED
	0049	471	311	62					OFF
	0121	471	408	63					ON TPX-2
	0121	472	409	63	"	"	"	"	DT'S: 1-36; 2-39; 3-37; 4-42; 5-36; 6-38
	0132	472	441	63					OFF
	0214	472	565	64	"	"	"	"	ON TPX-1
	0214	473	566	64					DT'S 1-37; 2-39; 3-37; 4-39; 5-32; 6-39
	0220	473	584	64					LAST SHOT TAPE #473 NO SHOTS LOST
141	0306		720		20	4	8	0	DT1: 36 DT3: 39 DT5: 31
	0306	474	721		"	"	"	"	DT2: 40 DT4: 38 DT6: 42
	0330	474							FIRST SHOT TAPE #474 (TPX-2)
	0358		876						SB # 54 END
	0358	475	877	175	"	"	"	"	END TAPE #474 NO SHOTS LOST
									DT1: 35 DT3: 37 DT5: 30
									DT2: 37 DT4: 37 DT6: 37
									START TAPE #475 (TPX-1)

RECORDING LOG

PAGE NO. 14...

R/V CONRAD

AND R/V'S N/A

CRUISE RC24-06

AREA MOROCCAN MARGIN

LINE NO. 18/19

LINE TYPE ACS
CDP

SOURCE 4 466 IN³ AIRGUNS

DFS IV 48 CHANNELS

FORMAT: SEG B

BPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
141		475		175	20	4	8	0	END TAPE 475
21 MAY	0442		10						START TURN
1983	0449	475	28		"	"	"	"	END TAPE 475 - END LINE 18
	0540	476	32	155	"	"	"	"	START TAPE 476 (TPX-1) DT1: 37 DT3: 35 DT5: 27 DT2: 37 DT4: 34 DT6: 41 START LINE 19
	0632		186						END TAPE 476
	0632	477	187	325	"	"	"	"	START TAPE 477 (TPX-2) PARITY & SING ERROR 11 th SHOT DT1: 37 DT3: 38 DT5: 30 DT2: 39 DT4: 40 DT6: 36
	0710	477	299		"	"	"	"	OVERDRIVE & PARITY ERRORS - BAD FILE
	0724	477	343		20	4	8	0	END OF TAPE 477 - NO SHOTS LOST. DTP: 36 DT3: 35 DT5: 30
	0724	478	344	450	"	"	"	"	START OF TAPE 478 (TPX-1) DT2: 36 DT4: 38 DT6: 38
	0732	478	369		"	"	"	"	START OF SONARBOY # 55, RECORDED ON, AUX 4 - 0db, AUX 1 - 6db, AUX 2 - 12
	0748	478	423		"	"	"	"	GUNS OFF LINE - LOW AIR - NO DATA RECORDED
	0755	478	439		"	"	"	"	GUNS BACK ON LINE -
	0756	478	442		"	"	"	"	GUNS #3, OFF AUTO FIRING, OFFLINE, 3 GUN OPERATION
	0816	478	498		"	"	"	"	END OF TAPE #478 = 16 SHOTS LOST DUE TO LOW AIR = 30 SHOTS TOTAL WITH AUT DT1: 36 DT3: 37 DT5: 31
	0816	479	499	588	"	"	"	"	START OF TAPE #479 (TPX-2) DT2: 39 DT4: 38 DT6: 39
	0901/02	479	635/637		"	"	"	"	OVERDRIVES & PARITY ERRORS
	0908	479	655		"	"	"	"	END OF TAPE #479, NO LOST SHOTS UGR OFFLINE FOR 30 MIN. MALFORM PARITY & OVERDRIVE ERRORS FIRST 5 DT1: 36 DT3: 35 DT5: 30
	0908	480	656	790	20	4	8	0	START OF TAPE #480 DT2: 36 DT4: 37 DT6: 38
	0942	480	659		20	4	8	2	CHANGE TO 2.0 SEC DELAY.

RECORDING

RV CONRADCRUISE RC 24-06LINE NO. 18/19AND R/V'S N/AAREA MOROCCAN MARGINSOURCE 4 466 IN³ AIRGUNSLINE TYPE ACS
CDPFORMAT: SEG B
BPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
191		475		175	20	4	8	0	END OF TAPE
21 MAY	0442		10		"	"	"	"	START TURN
1983	0449	475	28		"	"	"	"	END TAPE 475 - END LINE 18 DT1: 37 DT3: 35 DT5: 27 DT2: 37 DT4: 36 DT6: 41 START LINE 19
	0540	476	32	155	"	"	"	"	START TAPE 476 (TPX-1)
	0632		186		"	"	"	"	END TAPE 476 PARITY & SINC ERROR 117 SHOT DT1: 37 DT3: 38 DT5: 30 DT2: 39 DT4: 40 DT6: 36
	0632	477	187	325	"	"	"	"	START TAPE 477 (TPX-2)
	0710	477	299		"	"	"	"	OVERDRIVE & PARITY ERRORS - BAD FILE
	0724	477	343		20	4	8	0	END OF TAPE 477 - NO SHOTS LOST. DTP: 36 DT3: 35 DT5: 30 DT2: 36 DT4: 38 DT6: 38
	0724	478	344	450	"	"	"	"	START OF TAPE 478 (TPX-1)
	0732	478	369		"	"	"	"	START OF SONOBUOY # 55, RECORDED ON, AUX 4-0db, AUX 1-6db, AUX 2-12db
	0748	478	423		"	"	"	"	GUNS OFF LINE - LOW AIR - NO DATA RECORDED
	0755	478	439		"	"	"	"	GUNS BACK ON LINE
	0756	478	442		"	"	"	"	GUNS #3, OFF AUTO FIRING, OFFLINE, 3 GUN OPERATION
	0816	478	498		"	"	"	"	GUNS #3, OFF AUTO FIRING, OFFLINE, 3 GUN OPERATION
	0816	479	499	588	"	"	"	"	END OF TAPE #478 = 16 SHOTS LOST DUE TO LOW AIR = 30 SHOTS TOTAL WITH AUTO DT1: 36 DT3: 37 DT5: 31 DT2: 39 DT4: 38 DT6: 39
	0901/02	479	635/637		"	"	"	"	START OF TAPE #479 (TPX-2)
	0908	479	655		"	"	"	"	OVERDRIVES & PARITY ERRORS
	0908	480	656	790	20	4	8	0	END OF TAPE #479, NO LOST SHOTS, UGR OFFLINE FOR 30 MIN. MALEGT DT1: 36 DT3: 35 DT5: 30 DT2: 36 DT4: 37 DT6: 38 PARITY & OVERD ERRORS FIRST
	0942	480	659		20	4	8	Z	START OF TAPE #480 CHANGE TO 2.0 SEC DELAY.

RECORDING LOG

DFS IV 48 CHANNELSFORMAT: SEG BBPI 1600R/V CONRADAND R/V'S N/ACRUISE RC24-06AREA MOROCCAN MARGINLINE NO. 019LINE TYPE COPSOURCE 4/466 IN 3 AIRGUNS

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
141	1000	480	810	1412	20	4	8	2	END OF TAPE 480. NO SHOTS LOST
21 MAY	1000	481	811	1225	"	"	"	"	DT1: 38 DT3: 37 DT5: 32
1983	1002	481	816		"	"	"	"	DT2: 37 DT4: 39 DT6: 38
	1050	481	961		20	4	8	4	START OF TAPE 481 (TPX-2)
	1052	481	967	1706	"	"	"	"	END OF SONOBUOY #55
	1052	482	268		"	"	"	"	CHANGE DELAY TO 4.0 SEC.
	1055	482	977		20	4	8	3	END OF TAPE 481. NO SHOTS LOST
	1208	482	19		"	"	"	"	60N #3 ON 4 GUNS ALL FIRING START OF TAPE 482 (TPX-1)
	1144	482	129	1910	"	"	"	"	DT1: 37 DT3: 36 DT5: 29
	1144	483	125	1910	"	"	"	"	DT2: 37 DT4: 39 DT6: 40
	1200	483	1800		20	4	8	5	changed delay to 3.0 sec
	1230	483	249-265		"	"	"	"	END TAPE 482.
	1232	483	268	2074	"	"	"	"	START TAPE 483 TPX-2
	1232	484	269	2074	20	4	8	5	change delay 5.0 sec
	1249	484	318		"	"	"	"	sync + parity errors intermittently
	1251	484	324		"	"	"	"	ENDED TAPE 483 early - string of sync + parity errors
	1309	484	381	2082	"	"	"	"	START TAPE 484
	1324	484	423		"	"	"	"	channel 15 was out - fixed at shot 318
	1324	485	424	2082	"	"	"	"	camera shot record
									S.B. #56 Launched
									END TAPE 484
									START TAPE 485 TPX-2

DT #1 = 38 #3 = 35 #5 = 28
#2 = 37 #4 = 43 #6 = 36

R/V Conrad
CRUISE RC2406
LINE NO 19

AND R/V'S _____

AREA Moroccan Margin

LINE TYPE CDP

SOURCE 4 466 m³ Airguns

BPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC
141	1416	485	580		20	4	8	5
21 MAY	1416	486	581	2150	"	"	"	"
19K3	1507	486	734	2145	"	"	"	"
	1507	487	735	2145	20	4	8	5
	1507	487	735	2145	"	"	"	"
	1600	487	890		"	"	"	"
	1600	488	891	2273	"	"	"	"
	1618	488	947		"	"	"	"
	1619	488			"	"	"	"
	1650	488	45					
	1650	489	46	2290				
	1743	489	202					
	1743	490	203	2296				
	1835	490	357					
	1835	491	358	2298				
	1910	491	462					
	1912	491	467					
	1925	491	507					
	1925	492	508	2299				
	1937							

Some overdrive signals
parity + SYNC errors ON TAP-2 - intermittent strings

END TAPE 485

START TAPE 486 TPX-1

END TAPE 486

START 487 TPX-2

END TAPE 487 TPX-2

BEGIN TAPE 488 TPX-1

CAMERA RECORD

#1=36; #2=37; #3=36; #4=40; #5=26; #6=37

END OF TAPE 488 TPX-1

BEGIN TAPE 489 TPX-2

END TAPE 489 TPX-2

BEGIN TAPE 490 TPX-1

END TAPE 490 TPX-1

BEGIN TAPE 491 TPX-2

LAUNCH SB #57. ON AUX CH 1, 2 & 4

CAMERA RECORD

OFF. ABORTED 10 SHOTS EARLY MANY PARITY & SYNC

ON TPX-1

USCO BASE END OF TAPE
DEPTHS #1=38' #2=39' #3=37' #4=40' #5=31' #6=4

492 1925 FILE 5081

DFS IV 48 CHANNELS
FORMAT: 5FC B
BPI 1600

R/V CONRAD

AND R/U' S

CRUISE RC2406.

AND RUNS _____
AREA MOROCCAN MARGIN

LINE NO 19

LINE TYPE COP

SOURCE 4 BOLT AIRGUNS @ 466in³ ea 1800PSI

[illegible]

RECORDING LOG

R/V CONDAD

CRUISE RC2406

LINE NO 20 X

AND R/V'S N/A

AREA MOROCCAN MARGIN

LINE TYPE CDP X

SOURCE 4 466 2 3 AIRGUNS

DFS IV 48 CHANNELS X

FORMAT: SEG B X

BPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
22 MAY 1983	0208	499	1	2276	20	4	8	5	ON TPX-2
	0257	499	154	2288		"	"	"	ON TPX-1
	0257	500	155	2288	"	"	"	"	4 AIRGUNS FIRING
	0326		293						SONOBUOY #58 STARTED
	0333	500	~261						END TAPE 500 NO SHOTS LOST DT1: 40 DT3: 37 DT5: 32 DT2: 40 DT4: 40 DT6: 33
	0348		307				"	"	START TAPE 501 (TPX-2)
	0348	501	308	2320	"	"	"	"	END TAPE 501 NO SHOTS LOST DT1: 39 DT3: 40 DT5: 28 DT2: 40 DT4: 40 DT6: 36
	0441		465			"	"	"	START TAPE 502 (TPX-1)
	0441	502	466	2308	"	"	"	"	END TAPE 502 NO SHOTS LOST DT1: 40 DT3: 38 DT5: 31 DT2: 41 DT4: 41 DT6: 39
	0533		621			"	"	"	START TAPE 503 (TPX-2)
	0533	503	622	2308	"	"	"	"	END TAPE 503 NO SHOTS LOST DT1: 39 DT3: 38 DT5: 27 DT2: 40 DT4: 40 DT6: 39
	0626		779		"	"	"	"	START TAPE 504 (TPX-1)
	0626	504	780	2314	"	"	"	"	END OF TAPE 504, NO SHOTS LOST. DT1: 40 DT3: 37 DT5: 34 DT2: 40 DT4: 43 DT6: 40
	0718	504	935		20	4	8	5	START OF TAPE 505 (TPX-2)
	0718	505	936	2314	"	"	"	"	END OF SONOBUOY #58
	0743	505	011		"	"	"	"	SONOBUOY #59, STARTED.
	0749	505	030		"	"	"	"	END OF TAPE 505, NO SHOTS LOST. DT1: 36 DT3: 38 DT5: 33 DT2: 38 DT4: 40 DT6: 38
	0810	505	095		"	"	"	"	START OF TAPE 506 (TPX-1)
	0810	506	096	2313	20	4	8	5	

DFS IV 100

FORMAT: SEG. B

BPI 1600

AND R/V'S N/A

CRUISE RC24-06

AND R/V'S _____
AREA MOROCCAN MARGIN
SOURCE 4

LINE TYPE COP

SOURCE 4/466 IN³ AIRGUNS.

LINE NO 20

JULIAN DATE		TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
142	0902	506	249		20	4	8	5		END OF TAPE 506, NO SHOTS LOST DT1: 36 DT3: 38 DT5: 30 DT4: 39 DT6: 38
22 MAY 1983	0902	507	250	2313	"	"	"	"		START OF TAPE 507 (TPX-2) DT1: 38 DT2: 38
	0954	507	405		"	"	"	"		END OF TAPE 507, NO SHOTS LOST DT1: 38 DT3: 38 DT5: 32 DT4: 40 DT6: 38
	0954	508	406	2313	"	"	"	"		START OF TAPE 508 (TPX-1) DT1: 38 DT2: 46
	1045	508	559		"	"	"	"		END OF TAPE 508, NO SHOTS LOST DT1: 38 DT3: 38 DT5: 32 DT4: 42 DT6: 38
	1045	509	560	2310	20	4	8	5		START OF TAPE 509 (TPX-2) DT1: 38 DT2: 38
	1106	509	621	2310	"	"	"	"		END SB #59 END TAPE 509 END LINE 20
	1130	509	713		"	"	"	"		START OF LINE 21 START OF TAPE 510 (TPX-1) DT1: DT2: DT3: DT4: DT5: DT6:
LINE 20	1130	510	001	23						

RECORDING LOG

PAGE NO. (20)

R/V. ConradAND R/V'S CCRUISE RC 2406AREA Moroccan MarginLINE NO. 21LINE TYPE CDPSOURCE 4-466 m³ AirgunsDFS IV 48 CHANNELSFORMAT: SEG BBPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
142	1130	510	001	2310	20	4	8	5	START LINE 21, START TAPE 510 TPX-1 DT #1=31 #3=32 #2=37 #4=40 #
22 MAY	1221	510	154		"	"	"	"	END TAPE 510
1983	1221	511	155	2310	20	4	8	5	START TAPE 511 TPX-2 DT #1=38 #3=35 #5=30 #2=38 #4=40 #6=35
	1231	511	184		"	"	"	"	SB #60 LAUNCHED
	1314	511	312		"	"	"	"	END TAPE 511
	1314	512	313	2310	20	4	8	5	START TAPE 512 TPX-1 DT #1=32 #3=35 #5=30 #2=36 #4=36 #6=38
	1322	512	338		"	"	"	"	Camera record
	1406	512	468		"	"	"	"	END TAPE 512 TPX-1
	1406	513	469	2310	20	4	8	5	START TAPE 513 TPX-2 DT #1=37 #3=36 #5=30 #2=38 #4=40 #6=39
	1458	513	624	2307					END TAPE 513 TPX-2
	1458	514	625	"					START TAPE 514 TPX-1
	1545	514	778	2303					END TAPE 514 TPX-1
	1545	515	779	"					BEGIN TAPE 515 TPX-2
	1641	515	934	2300					END TAPE 515 TPX-2
	1641	516	935	"					BEGIN TAPE 516 TPX-1
	1734	516	93	2282					END TAPE 516 TPX-1
	1734	517	94	"					BEGIN TAPE 517 TPX-2
	1826	517	249	2244					END TAPE 517 TPX-2
	1826	518	250	"					BEGIN TAPE 518 TPX-1

RECORDING LOG

PAGE NO. 21RV CONRAD

AND RV'S _____

CRUISE RC 2406AREA MOROCCAN MARGINLINE NO. 21LINE TYPE CDPSOURCE 4-466 in³ AirgunsDFS IU 48 CHANNELSFORMAT: SEG BBPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
22 MAY	1826	518	250	2244	20	4	8	5	BEGIN TAPE 518 TPX-1
1983	1919	518	406						OFF
(142)	1919	407	407	2213	20	4	8	5	ON TPX-2 TAPE 519.
	2000								DEPTHS: #1=40 #2=41 #3=40 #4=40 #5=31 #6=40
	2000	519	534						S/B #61 LAUNCHED.
	2011	519	565						
	2011	520	566	2147					ON TPX-1
	2103	520	719						OFF
	2103	521	720		20	4	8	2	ON TPX-2 CHANGE DELAY TO 2 SEC
			850						HEAVY PARITY ERROR BURST. SYNC ERROR.
	2155	521	876						TPX-2 HEAD & WIPER DIRTY.
	2155	522	877	2052	20	4	8	2	END PARITY & SYNC ERRORS ABOUT EVERY 3RD SHOT FROM 85
	2247	522	033						HEAVY PARITY & SYNC ERROR ON FIRST FILE
	2250	523	36	2018	20	4	8	2	ON TPX-1
	2312	523	126	2000					TAPE OFF TPX-1 LOST 8 SHOTS TAPE JAR WRONG.
									END
									END LINE 21 / SONOBUOY #61 / END #523 ON TPX

RECORDING LOG

DFS IV 48 CHANNELS
 FORMAT: SEG B
 BPI 1600

R/V CONRAD
 CRUISE RC2406
 LINE NO 22

AND R/V'S _____
 AREA MOROCCAN MARGIN
 LINE TYPE CDP SOURCE 4/166 in³ AIRGUN

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
22 MAY 83	2312	524	1	2000	20	4	8	2	ON TPX-2
									OFF
	0006	524	158	1942			"	"	ON TPX-1
	0006	525	159	1942	"	"	"	"	OFF
	0058	525	313	1890			"	"	ON TPX-2 DT'S 1-36; 2-34; 3-35; 4-40; 5-28; 6-37
23 MAY 1983	0058	526	314	1890	"	"	"	"	OFF
	0151	526	470	1842			"	"	ON TPX-1
	0151	527	471	1842	"	"	"	"	OFF
	0242	527	626	1803			"	"	ON TPX-2 DT'S 1-35; 2-35; 3-35; 4-38; 5-28; 6-35
	0242	528	627	1803	"	"	"	"	END TAPE 528 NO SHOTS LOST [START SB#62
	0335		783				"	"	DT1: 33 DT3: 36 DT5: 31
	0335	529	784	1750	"	"	"	"	DT2: 34 DT4: 39 DT6: 36
	0427		990				"	"	START TAPE 529 (TPX-1)
	0427	530	941	1610	"	"	"	"	END TAPE 529 NO SHOTS LOST
	0519		98				"	"	DT1: 35 DT3: 32 DT5: 30
	0519	531	99	1550	"	"	"	"	DT2: 35 DT4: 36 DT6: 36
	0611		253				"	"	START TAPE 530 (TPX-2)
	0611	532	254	1470	"	"	"	"	END TAPE 530 NO SHOTS LOST
	0654		376				"	"	DT1: 34 DT3: 31 DT5: 30
	0654	533	379	1360	"	"	"	"	DT2: 34 DT4: 37 DT6: 36
							"	"	START TAPE 531 (TPX-1)
							"	"	END TAPE 531 NO SHOTS LOST
							"	"	DT1: 30 DT3: 31 DT5: 30
							"	"	DT2: 33 DT4: 36 DT6: 37
							"	"	START TAPE 532 (TPX-2)
							"	"	END TAPE 532 - TAPE REWINDING
							"	"	DT1: 33 DT3: 32 DT5: 30
							"	"	DT2: 33 DT4: 36 DT6: 37
							"	"	START TAPE 533 (TPX-1) Parity error 1st SHOT

PAGE NO. (23)

FORMAT: SEG B

BPT 1600

AND R/V'S N | A

AREA MOROCCAN MARGIN

LINE TYPE free
CDP

SOURCE 4 466 in³ AIRGUNS

[illegible]

RECORDING

DFS IV

FORMAT: SEG BBPT 1600
 RV CONRAD
 CRUISE RC24-06
 LINE NO 23

 AND RV'S N/A
 AREA MOROCCAN MARGIN
 LINE TYPE COP SOURCE 4/466IN³ AIRGUNS

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
143	0813	535	001	1222	20	4	8	2	FIRST SHOT LINE 023, START OF TAPE 535 DT1: 40 DT3: 43 DT5: 40
23 MAY	0852	535	118		20	4	8	2	MONITOR RECORD, HIGH CABLE NOISE DUE TO FOLLOWING SEAS. DT2: 43 DT4: 50 DT6: 40
1983	0905	535	155	1228	20	4	8	2	END OF TAPE 535, NO SHOTS LOST. DT1: 32 DT3: 42 DT5: 42
	0905	536	156		"	"	"	"	START OF TAPE 536 (TPX-2) DT2: 36 DT4: 48 DT6: 42
	0930	536	234		"	"	"	"	START OF SONOBUOY #63, DT1: 32 DT3: 43 DT5: 40
	0958	536	314		"	"	"	"	END OF TAPE 536, NO SHOTS LOST. DT1: 32 DT3: 43 DT5: 40
	0958	537	315	1203	"	"	"	"	START OF TAPE 537 (TPX-1) DT2: 37 DT4: 50 DT6: 40
	1050	537	471		"	"	"	"	END OF TAPE 537, NO SHOTS LOST. DT1: 32 DT3: 43 DT5: 40
	1050	538	472	1145	20	4	8	2	START OF TAPE 538 (TPX-2) DT2: 38 DT4: 52 DT6: 45
	1143	538	630		"	"	"	"	MONITOR RECORD END TAPE 538 DT1: 38 #3=44 #5=40 #2=34 #4=50 #6=42
	1143	539	631	1166	20	4	8	2	START TAPE 539 TPX-1 DT1=33 #3=36 #5=37 #2=31 #4=47 #6=42
	1236	539	787		"	"	"	"	END TAPE 539
	1236	540	788	1172	20	4	8	2	START TAPE 540 TPX-2 DT1=33 #3=36 #5=37 #2=31 #4=47 #6=42
	1327	540	944	1122	"	"	"	"	END TAPE 540
	1328	541	945	1126					START TAPE 541
	1333	541	961						SB #63 ended
	1420	541	100						END TAPE 541
	1420	542	101	1096					RESTART TAPE 542 MISSED SHOT 101 SYNC, parity + overdrive errors! TPX- Channel 15 had been out 8s again
	1430	542	131						DT1=34 #3=38 #5=46 #2=31 #4=48 #6=42

R/V Conrad
CRUISE 24-06
LINE NO 23

AND R/V' S.

AREA Moroccan Margin

LINE TYPE CDP

SOURCE 4 466 in³ Argons

DFS IV 48 CHANNELS

FORMAT: SEG B

BPI 1600

LINE NO.

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
143	1440	542	162	1096	20	4	8	2	SB#64 Launched
									END TAPE 542 TPX-2
23 MAY	1512	542	257	1121					BEGIN TAPE 543 TPX-1
1983	1512	543	258	"					END TAPE 543 TPX-1
	1604	543	412	1222					BEGIN TAPE 544 TPX-2
	1604	544	413	"					END TAPE 544 TPX-2
	1656	544	569	1434					BEGIN TAPE 545 TPX-1
	1656	545	570	"					END TAPE 545 TPX-1
	1748	545	724	1642					BEGIN TAPE 546 TPX-2
	1748	546	725	"					END TAPE 546 TPX-2
	1840	546	880	1412					BEGIN TAPE 547 TPX-1
	1840	547	881	1375					CAMERA RECORD - CH#6 DEAD & FIXED
	1850		913						END SONOBUOY #64 & A/C (still line 23)
	1848		917						OFF
	1932	547	37						↓ BASE ENDURA TAPE
	1934	548	39	1224					BAD TAPE ON TPX-2 ABOUT 4 SHOTS MIS CHANGED TAPE
	1958	548	110						5/B #65 LAUNCHED. ON AUX CH. 4, T606 AX1 + 1206 AX2
	2014	548	161						CAMERA RECORD. CH6 OUT.
	2027	548	196	1155					END

DT#1=40; DT#3=46; DT#5=50
DT#2=44; DT#4=54; DT#6=58

RECORDING LOG

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R/V CONRAD

AND R/V'S _____

CRUISE 2406

AREA MOROCCAN MARGIN

LINE NO. 23

LINE TYPE CDP

SOURCE 4 BOLT AIRGUNS AT 466m³ ea. 1800PSI

DFS IV 48 CHANNELS

FORMAT: SEC B

BPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
143	2027	549	197	1155	20	4	8	2	ON TPX-1
23	2118	549	351						OFF
MAY	2118	550	352	1068					ON TPX-2
83	2200								DEPTHS: #1=42' #2=41' #3=42' #4=53' #5=43' #6=40'
	2211	550	509						OFF
	2211	551	510	1031	20	4	8	2	ON TPX-1
	2302	551	663	1042					END
	2302	552	664	1042	11	11	11	11	ON TPX-2 DTS #1-38; 2-35; 3-38; 4-46; 5-32; 6-34
	2330	552		1055					END SB #65
	2333	552	756	1055					START SB #66
	2354	552	820	1063					OFF
	2354	553	821	1063	11	11	11	11	ON TPX-1
24	0046	553	975	1102					OFF
MAY	0046	554	976	1102	11	11	11	11	ON TPX-2
1983	0138	554	133	1121					OFF
DAY	0138	555	134	1121	11	11	11	11	ON TPX-1
144	0230	555	287	1136					OFF
	0230	556	288	1136	11	11	11	11	ON TPX-2
	0323		445	0					END TAPE 556

1 SHOT LOST TAPE UNWIND

R/V CONRADAND R/V'S N/ACRUISE RC24-06AREA MOROCCAN MARGINLINE NO 23/24LINE TYPE MES
CDPSOURCE 4 466 IN³ AIRGUNSDFS IV 48 CHANNELSFORMAT: SEG(B)BPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
144	0323	557	446	1140	20	4	8	2	START TAPE 557 (TPX-1) DT1: 50 DT3: 38 DT5: 37 DT2: 41 DT4: 54 DT6: 44
24 MAY	0329								START TURN
1983	0332	557	480						AIRGUNS SHUT OFF (END SB #66 END OF LINE 23)
	0435								4 GUNS ON
	0445	558	481	1150	20	4	8	2	START TAPE 558 (PX-1) FIRST SHOT: PARITY & SYNC ERROR START LINE 24 DT1: 34 DT2: 34 DT3: 40 DT4: 46 DT5: 41 DT6: 47
	0521	558	588						START SB #67
	0537		636	1165					END TAPE 558 NO SHOTS LOST
	0537	559	637	1165	11	11	11	11	START TAPE 559 FIRST SHOT PARITY & SYNC ERROR (TPX-2) END TAPE 559 NO SHOTS LOST DT1: 36 DT2: 32 DT3: 34 DT4: 43 DT5: 34 DT6: 39
	0629		793						FIRST SHOT START TAPE 560 (TPX-1) PARITY & SYNC ERROR
	0629	560	794	1180	"	"	"	11	END OF TAPE 560 NO SHOTS LOST
	0720	560	947		20	4	8	2	DT1: 25 DT3: 20 DT5: 35 DT2: 20 DT4: 25 DT6: 45
	0720	561	948	1185	"	"	"	"	START OF TAPE 561 (TPX-2)
	0812	561	105		"	"	"	"	END OF TAPE 561 NO SHOTS LOST DT1: 26 DT3: 20 DT5: 10 DT2: 20 DT4: 26 DT6: 20
	0812	562	106		"	"	"	"	START OF TAPE 562 (TPX-1)
	0849	562	213	1211	20	4	8	2	LINE ABORTED - CABLE ON THE SURFACE

R/V CONRAD

CRUISE RC24-06

LINE NO. 23/24

AND R/V'S N/A

AREA MOROCCAN MARGIN

LINE TYPE MES
CDPSOURCE 4 466 IN³ AIRGUNSDFS 10
FORMAT: SEGB

BPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
144	0323	557	446	1140	20	4	8	2	START TAPE 557 (TPX-1) DT1: 50 DT3: 33 DT5: 37 DT2: 41 DT4: 54 DT6: 44
24 MAY	0329								START TURN
1983	0332	557	480						AIRGUNS SHUT OFF (END OF VINE 23) END SB #66
	0435								4 GUNS ON
	0445	558	481	1150	20	4	8	2	START TAPE 558 (TPX-1) FIRST SHOT: PARITY & SYNC ERROR START LINE 24 DT1: 34 DT2: 34 DT3: 40 DT4: 46 DT5: 41 DT6: 47
	0521	558	588						START SB #67
	0537		636	1165					END TAPE 558 NO SHOTS LOST
	0537	559	637	1165	11	11	11	11	START TAPE 559 FIRST SHOT PARITY & SYNC ERROR (TPX-2) END TAPE 559 NO SHOTS LOST
	0629		793						DT1: 36 DT2: 32 DT3: 34 DT4: 43 DT5: 34 DT6: 39
	0629	560	794	1180	"	"	"	11	START TAPE 560 (TPX-1) FIRST SHOT PARITY & SYNC ERROR
	0720	560	947		20	4	8	2	END OF TAPE 560 NO SHOTS LOST DT1: 25 DT3: 20 DT5: 35 DT2: 20 DT4: 25 DT6: 45
	0720	561	948	1185	"	"	"	"	START OF TAPE 561 (TPX-2) DT1: 26 DT3: 20 DT5: 10 DT2: 20 DT4: 20 DT6: 20
	0812	561	105		"	"	"	"	END OF TAPE 561, NO SHOTS LOST
	0812	562	106		"	"	"	"	START OF TAPE 562, (TPX-1)
	0849	562	213	1211	20	4	8	2	LINE ABANDONED - CABLE ON THE SURFACE

R/V CONRAD
CRUISE RC 2406
LINE NO. 25

AND R/V'S _____
AREA MOROCCAN MARGIN
LINE TYPE 25
CDP

SOURCE 4 GOIT A/C AT 466 in³ en 1800psi

DFS IV 10 CHANNELS
FORMAT: SEC B
BPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS	
									START OF LINE 25	
144	1638	563	001	1191	20	4	8	2	BEGIN TAPE 563	DT1-31 DT3-33 DT5-34 DT2-35 DT4-42 DT6-40
5	1831 1702	102	116		"	"	"	"	S/B #68 LAUNCHED	
24	1730	563	154		"	"	"	"	END TAPE 563, NO SHOTS LOST	DT1: 25 DT3: 30 DT5: 35 DT2: 30 DT4: 40 DT6: 42
83	1730	564	155	1203	"	"	"	"	START TAPE 564 (TPX2)	
	1822	564	311						END TAPE 564 (TPX2) NO SHOTS LOST	
	1822	565	312	1180					BEGIN TAPE 565 (TPX1) - OKKHEAT & SHUT OFF	
	1854	566	402	1173					BEGIN TAPE 566 (4 shots lost)	
	1947	566	559						END 566	
	1947	567	560	1166	20	4	8	2	BEGIN ON TPX-1 CAMERA RECORDED SHOT 583	
	2010	567	629						S/B #68 ENDED	
	2038	567	714						END 567	
	2038	568	715	1158	20	4	8	2	BEGIN 568 ON TPX-2	
	2053	568	741						POWER FAILURE ON DC SUPPLIES 10 TO 20 SHOTS LOST.	
	2053								DEPTHS: #1= 25 #2= 33 #3= 33 #4= 45 #5= 37 #6= 45	
	2135	568	871						END 568	
	2135	569	872	1100	20	4	8	2	BEGIN 569 ON TPX-1	
	2227	569	027						END 569	
	2227	570	028	1090	20	4	8	2	BEGIN 570 ON TPX-2	SHOT 100 ERRORS & OVERDRIVE
	2300	570	185	970					END 570	

RECORDING LOG

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R/V CONRAD
CRUISE RC 2406
LINE NO. 25

AND R/V'S N/A
AREA MOROCCAN MARGIN
LINE TYPE CDP

SOURCE BOLT AIRGUNS - 4 @ 466 IN³ EACH 1800 psi BPI 1600

DFS IV 48 CHANNELS
FORMAT: SEG B

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
24 →	2319	571	186	1040	20	4	8	2	ON TPX-1 BEGIN 571
MAY	0000	571							DTs 1-20; 2-35; 3-35; 4-43; 5-38; 6-43
1983	0011	571	340	1030					END # 571
	0011	572	341	1030					START TAPE # 572 ON TPX-2
	0103	572	497	990					END # 572
	0103	573	498	990					START T # 573 ON TPX-1
	0155	573	652	950					END
	0155	574	653	950					START T # 574 ON TPX-2
									DTs 1-25; 2-33; 3-32; 4-42; 5-35; 6-43
									END
	0247	574	810	848					START T # 575 ON TPX-1
	0247	575	811	848	"	"	"	"	END TAPE # 575 NO SHOTS LOST
	0339		963						DT1: 27 DT3: 35 DT5: 40
	0339	576	964	860	"	"	"	"	DT2: 34 DT4: 47 DT6: 45
	0422	576	94						START TAPE # 576 (TPX-2)
	0431		121	825					CHANGE DELAY TO 0 SECONDS
	0431	577	122	825	"	"	"	0	END TAPE 576 NO SHOTS LOST
	0523		276						START TAPE 577 (TPX-1) Parity error 1st shot
	0523	578	277	650	"	"	"	0	END TAPE 577 NO SHOTS LOST
	0615		433						START TAPE 578 (TPX-2)
									END TAPE 578 NO SHOTS LOST

AND R/U'S _____ N/A

AREA MOROCCAN MARGIN

LINE TYPE ~~PRES~~
CDP

SOURCE 4 466 IN³ AIR-ONS

DFS IV 48 CHANNELS

FORMAT: SEG B

BPI 1600

[illegible]

PAGE NO. (31)...

R/V CONRAD

AND R/U'S N/A

CRUISE RC24-06

AREA MOROCCAN MARGIN

LINE NO 026

LINE TYPE COP

SOURCE 4/466 IN³ AIRGUNS

DFS IV 48 CHANNELS

FORMAT: SEG B

BFI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
									START OF LINE 026
145	0936	581	001		20	4	8	Ø	(TPX-1) DT1: 30 DT3: 33 DT5: 33 START OF TAPE 581 DT2: 36 DT4: 41 DT6: 41
25 MAY 1983	0948	581	018	432	"	"	"	"	START OF DATA ON 581 FILES 1-18 LOST SYSTEM FAILURE.
	1036	581	167		"	"	"	"	START SONAR BUOY 69, CHANNEL 21, AUX 4-0db, AUX 1-6db, AUX 2-12db
	1041	581	179		"	"	"	"	END OF TAPE 581, 18 SHOTS LOST AT S.O.L.
	1041	582	180	440	"	"	"	"	START OF TAPE 582 (TPX-1) DT1: 32 DT3: 35 DT5: 35 DT2: 39 DT4: 45 DT6: 42
	1133	582	335		"	"	"	"	END TAPE 582
	1133	583	336	586	"	"	"	"	START TAPE 583 TPX-2 DT#1=35 #3=36 #5=38 #2=40 #4=46 #6=44
	1153	583	392		"	"	"	"	TPX 2 started to run backwards - Switched over - 2 shots missed
	1153	584	395	692	"	"	"	"	ENDS 395 1254 TPX-1
	1145	583	374		"	"	"	"	Camera record
	1244	584	547		"	"	"	"	END TAPE 584
	1244	585	548	478	"	"	"	"	START TAPE 585 TPX-2 DT#1=31 #3=38 #5=36 #2=35 #4=39 #6=43
	1335	585	701		"	"	"	"	END TAPE 585
	1335	586	702	272	"	"	"	"	START TAPE 586 DT#1=38 #3=34 #5=35 #2=35 #4=42 #6=40
	1350	586	732		"	"	"	"	TPX-1 running backwards - Switched over ~ 3 MINUTES LOST
	1353	587	733	253	"	"	"	"	START TAPE 587 END SB #69 TPX-2
	1407	587	776		"	"	"	"	overdrive + Fault FMT signals lit TPX-2
	1445	587	891						END TAPE 587
	1445	588	892	295					START TAPE 588 TPX-1 DT#1=36 #3=28 #5=23 #2=35 #4=39 #6=39

R/V Conrad
 CRUISE 2406
 LINE NO 26

AND R/V'S _____
 AREA Moroccan Margin
 LINE TYPE CDP SOURCE 4 466 m³ Airgun

DFS IV 48 CHANNELS
 FORMAT: SEG B
 BPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
145	1536	588	047		20	4	8	Ø	END OF TAPE 588, NO SHOTS LOST. DT1: 25 DT2: 30 DT3: 35 DT4: 38 DT5: 42
25 MAY	1536	589	048	250	"	"	"	"	START OF TAPE 589 (TPX-2) DT1: 32 DT2: 37 DT3: 40 DT4: 42
1983	1629	589	204		"	"	"	"	END OF TAPE 589, NO SHOTS LOST. PARITY ERRORS ON LAST TWO SHOTS. DT1: 27 DT2: 30 DT3: 32 DT4: 35 DT5: 37 DT6: 40
	1629	590	205	595	"	"	"	"	START OF TAPE 590 (TPX-1) DT1: 34 DT2: 38 DT3: 40 DT4: 42
	1721	590	359		"	"	"	"	END OF TAPE 590, NO SHOTS LOST (TPX-1)
	1721	591	360	257	"	"	"	"	BEGIN TAPE 591 (TPX-2)
	1813	591	516		"	"	"	"	END OF TAPE 591, NO SHOTS LOST. DT1: 30 DT2: 33 DT3: 35 DT4: 40 DT5: 42
	1813	592	517	170	"	"	"	"	START OF TAPE 592 (TPX-1) DT1: 33 DT2: 35 DT3: 40 DT4: 42
	1837	593	570		"	"	"	"	BEGIN TAPE 593, -TAPE 592 Runaway backwards 4 shots lost
	1849	593	608		"	"	"	"	START SONOBUOY #70, AUX 4 odd, AUX 1 odd, AUX 2 12db MANY PARITY AND SYNCH ERRORS.
	1928	593	726						END OF 593 ENDURA TAPE
	1928	594	727	119	20	4	8	Ø	BEGIN ON TPX-1 DEPTHS: #1=30', #2=37', #3=33', #4=42', #5=37', #6=40'
	2000								CAMERA RECORD TAKEN
	2000	594	821						END 594
	2021	594	881						BEGIN ON TPX-2
	2021	595	882	132	20	4	8	Ø	END 595
	2112	595	039						BEGIN ON TPX-1
	2112	596	040	114	20	4	8	Ø	END SB 70
	2140	596	125	114					

2112 596 040

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RV CONRAD

AND R/V'S _____

CRUISE RC2406AREA MOROCCAN MARGINLINE NO. 26LINE TYPE CDPSOURCE 4 BOLT AIRGUNS @ 466 IN³ EA. 1800 PSIDFS IV 48 CHANNELSFORMAT: SEGBBPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
145	2204	596	194	97					END 596
MAY	2204	597	195	97	20	4	8	Ø	BEGIN 597 ON TPX-2
25	2257	597	351	108					END 597
1983	2257	598	352	108	20	4	8	Ø	BEGIN 598 ON TPX-1
	2339	598	480	118	"	"	"	"	START SB #71
	2348	598	506	78					END 598
	2348	599	507	78	"	"	"	"	START T. 599 - TPX-2 DT'S 1-28; 2-35; 5-32 4-40; 5-36; 6-42
146	0041	599	664	73					END
26 MAY 1983	0041	600	665	73	"	"	"	"	START T. 600 - TPX-1
	0102	600	779	77					END SB #71 / START SB #72
	0132	600	820	79					END 600
	0132	601	821	79	"	"	"	"	START T. 601
	0223	601	962	81					END 601 -
	0223	602	963	81	"	"	"	"	START T. 602 - TPX-1
									DT'S: 1-29; 2-36; 3-33; 4-42; 5-37; 6-42
	0317		133	75					END TAPE 602 TAPES HAS PARITY & SYNC ERRORS NO SHOTS LOST
	0317	603	134		"	"	"	"	START TAPE 603 (TPX-2) DT1: 30 DT3: 34 DT5: 36 DT2: 36 DT4: 42 DT6: 44
	0407	603	283						END SB #72
	0409		290						END TAPE 603 NO SHOTS LOST

RECORDING LOG

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RV CONRADAND RV'S N/ACRUISE RC24-06AREA MOROCCAN MARGINLINE NO. 26LINE TYPE CDPSOURCE 4 466 IN³AIRGUNSDFS IV 48 CHANNELSFORMAT: SEG BBPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
146	0409	604	291	65	20	4	8	0	START TAPE 604 (TPX-1) DT1: 30 DT2: 37 DT3: 35 DT4: 43 DT5: 39 DT6: 43
	0500		443		"	"	"	"	END TAPE 604 NO SHOTS LOST
	0500	605	444	68	11	11	11	11	START TAPE 605 (TPX-2) DT1: 29 DT2: 36 DT3: 33 DT4: 42 DT5: 37 DT6: 43
	0552		599		"	"	"	"	END TAPE 605 NO SHOTS LOST
	0552	606	600	233	"	"	"	"	START TAPE 606 (TPX-1) PARITY & SYNC ERROR 1 st SHOT DT1: 26 DT2: 35 DT3: 32 DT4: 40 DT5: 38 DT6: 43
	0644		754		"	"	"	"	END TAPE 606 NO SHOTS LOST
	0644	607	755	487	"	"	"	"	START TAPE 607 (TPX-2) PARITY & SYNC ERRORS 1 st SHOT DT1: 26 DT2: 33 DT3: 31 DT4: 40 DT5: 37 DT6: 42
	0736	607	911		20	4	8	0	END OF TAPE 607, NO SHOTS LOST
	0736	608	912	578	"	"	"	"	START OF TAPE 608 (TPX-1) DT1: 25 DT2: 35 DT3: 30 DT4: 40 DT5: 35 DT6: 42
	0827	608	066		"	"	"	"	END OF TAPE 608, FILES 10422 LOST TO OVERDRIFFS & PARITY ERRORS
	0827	609	067	700	"	"	"	"	START OF TAPE 609 (TPX-2) DT1: 25 DT2: 33 DT3: 30 DT4: 36 DT5: 34 DT6: 40
	0900	609	164		"	"	"	"	START OF SONOBODY #73 - AUX 4-0db, AUX 1-6db, AUX 2-12db
	0919	609	223		"	"	"	"	END OF TAPE 609, NO SHOTS LOST
	0919	610	224	468	"	"	"	"	START OF TAPE 610 (TPX-1) DT1: 26 DT2: 30 DT3: 30 DT4: 36 DT5: 33 DT6: 40
	1011	610	377		"	"	"	"	END OF TAPE 610
	1011	611	378		"	"	"	"	START OF TAPE 611 (TPX-2)
	1013	611	379	305	"	"	"	"	END TAPE 611 RAN AWAY BACKWARDS, TWO GOOD RECORDS - (TPX-1)
	1013	612	380		"	"	"	"	START OF TAPE 612, FOUR SHOTS LOST DUE TO BAD TAPE
	1023	612	410	305	20	4	8	0	DT1: 27 DT2: 35 DT3: 34 DT4: 43 DT5: 35 DT6: 40

RECORDING LOG

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RV CONRADAND R/V'S N/ADFS IV 48 CHANNELSCRUISE RC24-06AREA MOROCCAN MARGINFORMAT: SEGBLINE NO 026LINE TYPE CDDSOURCE 4/466 m³ AIRGUNBPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
146	1104	612	533		20	4	8	Ø	END TAPE 612
26 MAY 1983	1104	613	534	297	"	"	"	"	START TAPE 613 TPX-2 DT#1=26 #3=31 #5=35 #2=34 #4=42 #6=40
	1115	613	566		"	"	"	"	Camera record channel 15 was out - OK now
	1157	613	690		"	"	"	"	END TAPE 613 Channel 15 out again - continues to go off + is restarted DT#1=28 #3=31 #5=36 #2=35 #4=40 #6=45
	1157	614	691	562	"	"	"	"	START TAPE 614 TPX-1
	1242	614	2		"	"	"	"	END SB #73 * GUN #1 OUT OF WATER AT ABOUT 1200
	1248	614	844		"	"	"	"	END TAPE 614 GUN #1 OUT OF WATER AROUND THIS TIME
	1248	615	845	598	"	"	"	"	START TAPE 615 TPX-2 DT#1=28 #3=30 #5=34 #2=34 #4=41 #6=40
	1341	615	2		"	"	"	"	END TAPE 615 TPX-2
	1341	616	3	638	"	"	"	"	START TAPE 616 TPX-1
	1432	616	157		"	"	"	"	END TAPE 616
	1432	617	158	793	"	"	"	"	START TAPE 617 TPX-2 DT#1=26 #3=30 #5=35 #2=32 #4=38 #6=40
	1450	617	213		"	"	"	"	Gun #1 back in water + firing
	1517	617	294		20	4	8	2	Change delay to 2 seconds
	1524	617	314		"	"	"	"	END TAPE 617
	1524	618	315	936	"	"	"	"	START TAPE 618 Shot 315 all kinds of errors - then OK
	1530	618	331		"	"	"	"	Camera record
	1544	618	375	911	"	"	"	"	SB # 74 LAUNCHED
	1616	618	469		20	4	8	2	END OF TAPE 618

RV CONRADAND RV'S N/ADFS IV 48 CHANNELSCRUISE RC24-06AREA MOROCCAN MARGINFORMAT: SEGBLINE NO. 026LINE TYPE CAPSOURCE 4/ALBIN³ AIRGUNBPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
146	1617	619	471	1080	20	4	8	2	START TAPE 619 (TPX-2) 3 SHOTS LOST - TAPE RAN AWAY
26 MAY 1983	1710	619	627	1052					END TAPE 619 (TPX-2)
	1710	620	628	11					START TAPE 620 (TPX-1)
	1801	620 621	781	1109					END TAPE 620 (TPX-1)
	1801	621	782	11					START TAPE 621 (TPX-2)
	1834	621	881	1310					DT#1=27; DT#3=30; DT#5=35 DT#2=35; DT#4=42; DT#6=41
	1835	621	885	1310					CAMERA RECORD
	1854	621	939						END TAPE 621 (TPX-2)
	1854	622	940	1111					BEGIN TAPE 622 (TPX-1)
	1900								END SONOBUDY 74
	1947	622	97	1353					END 622
	1947	623	98		20	4	8	2	BEGIN 623 ON TPX-2. TAPE THREADED WRONG. 4 SHOTS MISSED.
	2009	623	166						CAMERA RECORD TAKEN
	2040	623	255						END 623
	2040	624	256	1420	20	4	8	2	BEGIN 624 ON TPX-1
	2131	624	410						END 624
	2131	625	411	1492	20	4	8	2	BEGIN 625 ON TPX-2
	2147								DEPTHS: #1=26', #2=35', #3=32', #4=40', #5=35', #6=43'
	2224	625	568						END 625

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R/V CONRAD

AND R/V'S N/A

DFS IV 48 CHANNELS

CRUISE RC24-06

AREA MOROCCAN MARGIN

FORMAT: SEG B

LINE NO 27

LINE TYPE CDP

SOURCE 4 466in³ AIRGUNS

BPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
147	0330	631	322	1926	20	4	8	1	START TAPE #631 (TPX-1) START LINE 27 (AFTER SHOT 326 RESET TO FILE ZERO)
27 MAY 1983	0417	631	48		"	"	"	"	END TAPE #631 (TPX-1) NOT RECORDING EVERY SHOT?
	0417	632	49	2235	"	"	"	"	START TAPE 632 (TPX-2) DT1: 27 DT3: 35 DT5: 35 DT2: 35 DT4: 40 DT6: 44
	0510	632	204		"	"	"	"	END TAPE 632 NO SHOTS LOST
	0510	633	205	2300	"	"	"	"	START TAPE 633 (TPX-1) DT1: 26 DT3: 32 DT5: 37 DT2: 35 DT4: 43 DT6: 44
	0600	633	358		"	"	"	"	END TAPE 633 NO SHOTS LOST
	0600	634	359	2315	"	"	"	"	START TAPE 634 (TPX-2) PARITY ERROR 1ST SHOT DT1: 31 DT3: 31 DT5: 35 DT2: 36 DT4: 42 DT6: 42
	0653	634	515		20	4	8	5	END TAPE 634 NO SHOTS LOST CHANGED DELAY TO 5 SEC
	0653	635	516	2320	"	"	"	"	START TAPE 635 (TPX-1) DT1: 31 DT3: 30 DT5: 34 DT2: 35 DT4: 40 DT6: 43
	0701	635	535		"	"	"	"	START SUNDAUN #76, AUX 4-0db, AUX 1-6db, AUX 2-12db.
	0744	635	670		"	"	"	"	END TAPE 635, NO SHOTS LOST
	0744	636	671	2308	"	"	"	"	START OF TAPE 636 (TPX-2) DT1: 32 DT3: 30 DT5: 35 DT2: 37 DT4: 40 DT6: 43
	0822	636	783		"	"	"	"	MONITOR RECORD
	0836	636	827		"	"	"	"	END OF TAPE 636, NO SHOTS LOST
	0836	637	828	2309	"	"	"	"	START OF TAPE 637 (TPX-1) DT1: 30 DT3: 30 DT5: 35 DT2: 35 DT4: 40 DT6: 42
	0928	637	981		"	"	"	"	END OF TAPE 637, NO SHOTS LOST
	0928	638	982	2310	"	"	"	"	START OF TAPE 638 (TPX-2) DT1: 28 DT3: 30 DT5: 35 DT2: 35 DT4: 40 DT6: 45
	1020	638	139		"	"	"	"	END OF TAPE 638, FILES 997, 131, 135, 136 OVERDRIVE & PARITY ERRORS
	1020	639	140	2310	20	4	8	5	START OF TAPE 639 (TPX-1) DT1: 32 DT3: 30 DT5: 33 DT2: 35 DT4: 40 DT6: 42

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PAGE NO. 391RV CONRADAND RV'S N/ADFS IV 48 CHANNELSCRUISE RC24-06AREA MOROCCAN MARGINFORMAT: SEGBLINE NO. 027LINE TYPE CDPSOURCE 4/466 m³ AIRGUNSBPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
147	1112	639	293		20	4	8	5	END TAPE 639
27 MAY 1983	1112	640	294	2310	"	"	"	"	START TAPE 640 TPX-2 DT#1=30 #3=30 #5=35 #2=35 #4=40 #6=44
	1122	640	323		"	"	"	"	SB # 76 ENDED Camera record
	1130	640	347		"	"	"	"	Sync + parity errors also 392, 395
	1204	640	449		"	"	"	"	END TAPE 640
	1204	641	450	2310	"	"	"	"	START TAPE 641 TPX-1
	1248	641	582?		"	"	"	"	SB # 77 START ← SB.
	1255	641	603		"	"	"	"	END TAPE 641
	1255	642	604	2310	"	"	"	"	START TAPE 642 TPX-2 DT#1=26 #3=30 #5=34 #2=34 #4=40 #6=42
	1303	642	627		"	"	"	"	Camera record
	1347	642	759		"	"	"	"	END TAPE 642
	1347	643	760	2311	"	"	"	"	START TAPE 643 ON TPX-1
	1438	643	912		"	"	"	"	END TAPE 643
	1438	644	913	2311	"	"	"	"	START TAPE 644 DT#1=28 #3=30 #5=35 #2=35 #4=41 #6=43
	1530	644	914 69		"	"	"	"	END TAPE 644 (TPX-2)
	1530	645	915 70		"	"	"	"	START TAPE 645 (TPX-1)
	1622	645	223	2311	"	"	"	"	END TAPE 645 (TPX-1)
	1622	646	224		"	"	"	"	START TAPE 646 (TPX2)
	1652	646	315	2311	20	4	8	5	END SONOBUOY # 77

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R/V CONRAD

AND R/V'S N/A

DFS IV 48 CHANNELS

CRUISE RC2406

AREA MOROCCAN MARGIN

FORMAT: SEG B

LINE NO 027

LINE TYPE COP SOURCE 4/466 IN³ AIRGUN

BFI 1600[illegible]

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PAGE NO. (41)R/V CONRADAND R/V'S N/ADFS IV 48 CHANNELSCRUISE RC24-06AREA MOROCCAN MARGINFORMAT: SEG 1LINE NO. 028LINE TYPE COPSOURCE 4/466IN³ AIRGUNBPT. 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
									BEGIN LINE 028
147	1845	648	001	2319	20	4	8	5	START OF TAPE 648 FILE 001-008 HAD TWO POWER FAILURES.
27 MAY 1983	1921	648	100						CAMERA RECORD TAKEN
	1938	648	153						END 648
	1938	649	154	2316	20	4	8	5	BEGIN 649 ON TPX-1
	2031	649	310						END 649 2026 SHOT 295 S/B 78 ^{START} OVER
	2031	650	311	2309	20	4	8	5	BEGIN 650 ON TPX-2
	2110								DEPTHS: #1=30', #2=36', #3=30', #4=40', #5=35', #6=43'.
	2123	650	467						END 650
	2123	651	468	2279	20	4	8	5	BEGIN 651 ON TPX-1
	2145	651	527						TAPE OVER DATA. 5 TO 10 SHOTS MISSED
	2148	651	529	2263					ABORT 651. "DATA" AND "TAPE END" WARNINGS
	2148	652	530	2263	20	4	8	5	BEGIN 652 ON TPX-2 AT LEAST 15 SHOTS MISSED DURING THIS MALFUNCTION
	2240	652	686						END 652
	2240	653	687	2219	20	4	8	5	BEGIN 653 ON TPX-1
	2331	653	840	2180					END 653
	2331	654	841	2180					BEGIN 654 ON TPX-2
	0023	654	996	2137					END #654
	0023	655	997	2137					BEGIN #655-TPX-1
	0037	655	22	2133					END SB# 78

RECORDING LOG

PAGE NO. 42RV CONRADAND R/V'S N/ACRUISE RC2406AREA MOROCCANMARGINLINE NO. 028LINE TYPE CDPSOURCE 4/466 in³ BOLT AIRGUNDFS IV 48 CHANNELSFORMAT SEGBBPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
148					20	4	8	5	
28	0108	655	131	2110	20	4	8	4	CHANGE DELAY TO 4 SEC. ON PROFILER/DATALOGGER
MAY	0110	655	138	2108					START SB #79
1983	—	—	—						DT'S #1-28; #2-36; #3-30; #4-40; #5-34; #6-44
	0115	655	151	2103					END #655
	0115	656	152	2103	11	11	11	11	START T#656-TPX-2 MISSED ONE SHOT
	0208	656	309	2082					END #656
	0208	657	310	2082					START T#657-TPX-1
	0259	657	461	2043					END #657
	0259	658	462	2043	11	11	11	11	START T#658-TPX-2
	0351		484						END TAPE 658 NO SHOTS LOST
	0351	659	619	1975	11	11	11	11	START TAPE 659 (TPX-1) DT1: 29 DT3: 30 DT5: 33 DT2: 27 DT4: 39 DT6: 41
	0443		772						END TAPE 659 NO SHOTS LOST
	0443	660	773	1960	11	11	11	11	START TAPE 660 (TPX-2) PARITY & SYNC PROBS 1ST SHOT DT1: 30 DT3: 36 DT5: 34 DT2: 37 DT4: 41 DT6: 42
	0451	660	802						END SB #79
	0535		928						END TAPE 660 NO SHOTS LOST
	0535	661	929	1970	11	11	11	11	START TAPE 661 (TPX-1) DT1: 29 DT3: 31 DT5: 35 DT2: 36 DT4: 40 DT6: 42
	0537	661	940						START SB #80 XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX
	0626		83						END OF TAPE 662 NO SHOTS LOST

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R/V CONRADAND R/V'S N/ADFS IV 48 CHANNELSCRUISE RC24-06AREA MOROCCAN MARGINFORMAT: SEG BLINE NO. 28LINE TYPE CDPSOURCE 4 466 IN³ BOLT AIRGUNSBPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
148	0626	662	084	1970	20	4	8	4	START TAPE 662 (TPX-2) DT1: 30 DT2: 39 DT3: 32 DT4: 41 DT5: 36 DT6: 42
28 MAY 1983	0718	662	238		"	"	"	"	END OF TAPE 662 NO SHOTS LOST.
1983	0718	663	239	1690	"	"	"	"	START OF TAPE 663 (TPX-1) DT1: 30 DT2: 36 DT3: 30 DT4: 40 DT5: 35 DT6: 41
	0809	663	391		"	"	"	"	END OF TAPE 663 NO SHOTS LOST.
	0809	664	392	1721	"	"	"	"	START OF TAPE 664 (TPX-2) DT1: 29 DT2: 35 DT3: 30 DT4: 40 DT5: 35 DT6: 42
	0901	664	548		"	"	"	"	END OF TAPE 664 NO SHOTS LOST.
	0901	665	549	1788	"	"	"	"	START OF TAPE 665 (TPX-1) DT1: 30 DT2: 36 DT3: 30 DT4: 40 DT5: 36 DT6: 41
	0952	665	702		"	"	"	"	END OF TAPE 665 NO SHOTS LOST.
	0952	666	703	1770	"	"	"	"	START OF TAPE 666 (TPX-2) DT1: 29 DT2: 36 DT3: 32 DT4: 40 DT5: 34 DT6: 41
	1030	666	814		"	"	"	"	END SONOBODY #80
	1044	666	858		"	"	"	"	END OF TAPE 666
	1044	667	859	1764	"	"	"	"	START OF TAPE 667 (TPX-1) DT1: 28 DT2: 36 DT3: 30 DT4: 40 DT5: 35 DT6: 41
	1136	667	13		"	"	"	"	END TAPE 667
	1136	668	14	1708	"	"	"	"	START TAPE 668 Shot 16 - every error in the book! TPX-2 DT1: 30 #2: 37 #3: 30 #4: 41 #5: 35 #6: 42
	1148	668	49		"	"	"	"	Camera Reload
	1200	668			20	4	8	3	Delay change to 3sec-tap marker changed at 1202
	1206	668	104	1700	"	"	"	"	SB# 81 START
	1228	668	170		"	"	"	"	END TAPE 668
	1228	669	171	1672	"	"	"	"	START TAPE 669 TPX-1 DT1: 29 #2: 39 #3: 32 #4: 40 #5: 35 #6: 41

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CRUISE RC2406AREA Moroccan MarginLINE NO. 28LINE TYPE CDPSOURCE 4 466 m³ AirgunsDFS IV 48 CHANNELSFORMAT: SEGBBPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
148	1320	669	326		20	4	8	3	END TAPE 669 (TPX-1)
28 MAY 1983	1320	670	327	1653	"	"	"	"	BEGIN TAPE 670 (TPX-2)
	1414	670	486		"	"	"	"	END TAPE 670 (TPX-2)
	1414	671	487	1618	"	"	"	"	BEGIN TAPE 671 (TPX-1)
	1506	671	643		"	"	"	"	END TAPE 671 (TPX-1)
	1506	672	644	1600	"	"	"	"	BEGIN TAPE 672 (TPX-2) DT1: 30 DT2: 40 DT3: 35 DT4: 46 DT5: 36 DT6: 43
	1518	672	678		"	"	"	"	CAMERA RECORD
	1600	672	802		"	"	"	"	END TAPE 672 (TPX-2)
	1600	673	803	1567	"	"	"	"	BEGIN TAPE 673 (TPX-1)
	1606	673	824		"	"	"	"	END SB# 81
	1652	673	960		"	"	"	"	END TAPE 673 (TPX-1)
	1652	674	961	1560	"	"	"	"	BEGIN TAPE 674 (TPX-2)
	1744	674	120		"	"	"	"	END TAPE 674
	1744	675	121	1580	"	"	"	"	BEGIN TAPE 675 TPX-1 DT#1=30 #2=40 #3=35 #4=44 #5=35 #6=43
	1802	675	173		"	"	"	"	SB# 82 BEGIN
	1803	675	176		"	"	"	"	Camera record
	1838	675	279						END 675
	1838	676	280		20	4	8	3	BEGIN 676 ON TPX-2
	1930	676	437	1464					END 676

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AND R/V'S

N/A

CRUISE RC2406

AREA

MOROCCAN MARGINLINE NO. 29LINE TYPE CDPSOURCE 4 BOLT 466 in 3 ArgunDFS IV 48 CHANNELSFORMAT: SEG BBPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
29	0015	682	1	1710	20	4	8	3	START OF LINE #29 / TAPE 682 on TPX-2
MAY	—	—	—						DT'S #1-32; #2-38; #3-31; #4-42; #5-35; #6-42
1983	0107	682	158	1520					END T# 682
(DAY)	0107	683	159	1520					START T# 683 - TPX-1
149	0159	683	313	1430					END T# 683
	0159	684	314	1430					START T# 684 - TPX-2
	0251	684	471	1458					END T# 684
	0251	685	472	1458					START T# 685 - TPX-1
	—	—	—						DT'S #1-25; #2-35; #3-31; #4-40; #5-35; #6-43
	0343		626						END TAPE # 685 NO SHOTS LOST
	0343	686	627	1500	"	"	"	"	START TAPE # 686 (TPX-2) DT1: 26 DT3: 30 DT5: 35 DT2: 36 DT4: 40 DT6: 41
	0348	686	641						START SB#83
	0436		783						END TAPE # 686 NO SHOTS LOST
	0436	687	784	1545	"	"	"	"	START TAPE # 687 (TPX-1) DT1: 26 DT3: 30 DT5: 33 DT2: 35 DT4: 40 DT6: 39
	0529		941						END TAPE 687 NO SHOTS LOST
	0529	688	942	1600	"	"	"	"	START TAPE 688 (TPX-2) DT1: 26 DT3: 31 DT5: 36 DT2: 35 DT4: 40 DT6: 42
	0621		99						END TAPE 688 NO SHOTS LOST
	0621	689	100	1640	"	"	"	"	START TAPE 689 (TPX-1) DT1: 26 DT3: 32 DT5: 36 DT2: 36 DT4: 42 DT6: 41 PRIMITY & SYNC EXPOS 11" SHOT
	0711	689	248	1670	20	4	8	3	END TAPE 689, TAPE RAN AWAY 1 SHOT LOST

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R/V CONRAD

AND R/V'S NA

DFS IV 48 CHANNELS

CRUISE RC 24-DE

AREA MOROCCAN MARGIN

FORMAT: SECRET

LINE NO 29

LINE TYPE CAD

SOURCE 4 4661N3 BOLT AIRGUNS

BPI 1600

[illegible]

RECORDING LOG

PAGE NO. (40)R/V CONRADAND R/V'S N/ADFS IV 48 CHANNELSCRUISE RC24-XAREA MOROCCAN MARGINFORMAT: SEG BLINE NO. 030LINE TYPE COPSOURCE 4/466 IN³ AIRGUNBPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
									START OF LINE 030
149	0730	691	001	1684	20	4	8	3	FIRST FILE #308 DT1: 28 DT3: 32 DT5: 34 START TAPE 691 (TPX-1) DT2: 36 DT4: 40 DT6: 40
29 MAY 1963	0822	691	154		20	4	8	3	END OF TAPE 691, NO SHOTS LOST
	0822	692	155	1713	"	"	"	"	DT1: 30 DT3: 32 DT5: 33 START OF TAPE 692 (TPX-2) DT2: 36 DT4: 42 DT6: 40
	0847	692	229		"	"	"	"	START SONAR BUOY #84 AUX 4--5db, AUX 1-6db, AUX 2-12db.
	0900	692	267		20	4	8	4	CHANGE DELAY TIME TO 4.0 SEC.
	0915	692	312	1735	"	"	"	"	END OF TAPE 692, NO SHOTS LOST.
	0915	693	313		"	"	"	"	DT1: 29 DT3: 33 DT5: 35 START OF TAPE 693 (TPX-1) DT2: 35 DT4: 40 DT6: 41
	1007	693	468		"	"	"	"	END OF TAPE 693
	1007	694	469	1745	"	"	"	"	DT1: 30 DT3: 33 DT5: 35 START OF TAPE 694 (TPX-2) DT2: 36 DT4: 41 DT6: 41
	1100	694	625		"	"	"	"	END TAPE 694
	1100	695	626	1742	"	"	"	"	START TAPE 695 TPX-1 DT#1=30 #3=33 #5=35 #2=40 #4=42 #6=42
	1111	695	659		"	"	"	"	Camera Record
	1152	695	781		"	"	"	"	END TAPE 695
	1152	696	782	1746	"	"	"	"	DT#1=28 #3=32 #5=35 START TAPE 696 TPX-2 #2=36 #4=42 #6=41
	1230	696	896		"	"	"	"	END SB #84
	1244	696	938		"	"	"	"	END TAPE 696
	1244	697	939	1719	"	"	"	"	DT#1=28 #3=34 #5=35 START TAPE 697 TPX-1 #2=38 #4=44 #6=43
	1335	697	093						END TAPE 697
	1335	698	094	1690					DT#1=28 #3=30 #5=35 START TAPE 698 #2=35 #4=41 #6=43

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PAGE NO. 47...RV ConradAND R/V'S CRUISE 2406AREA Moroccan MarginLINE NO. 30LINE TYPE CDPSOURCE 4-466 m³ ArgunsDFS IV 4 CHANNELSFORMAT: SEG BBPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
149	1353	698	147?	1685	20	4	8	4	MAIN LAB ON DATA LOGGER TAPE - 054
29 MAY	1403	698	176	1684	"	"	"	"	SB# 85 LAUNCHED
1983	1404	698	180	1691	"	"	"	"	Camera record
	1427	698	250	1716	"	"	"	"	END TAPE 698
	1427	699	251	1717	"	"	"	"	START TAPE 699 TPX-1 DT#1=28 #3=32 #5=35 #2=37 #4=41 #6=41
	1520	699	406	1769					END TAPE 699 (TPX-1)
	1520	700	407	1785					BEGIN TAPE 700 (TPX-2)
	1612	700	562	1828					END TAPE 700 (TPX-2)
	1612	701	563	1828					BEGIN TAPE 701 (TPX-1)
	1704	701	718	1847					END TAPE 701 (TPX-1)
	1704	702	719	1847					BEGIN TAPE 702 (TPX-2)
	1756	702	875	1884					END TAPE 702 (TPX-2) DT1=29 DT3=32 DT5=36 DT2=39 DT4=43 DTL=44
	1756	703	876	1884					BEGIN TAPE 703 (TPX-1)
	1802	703	880	1888					END SB# 85
	1848	703	032	1933					END TAPE 703 (TPX-1)
	1848	704	033	1933					BEGIN TAPE 704 (TPX-2)
	1907	704	090						SB# 86 LAUNCHED
	1941	704	190						END 704

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DFS IV 48 CHANNELSCRUISE RC2406AREA MOROCCAN MARGINFORMAT: SEG BLINE NO. 30LINE TYPE CDPSOURCE BOLT AIRGUNS: 4 @ 466 IN³ EA. 1800 PSI BPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
149	1941	705	191	1977	20	4	8	4	BEGIN 705 ON TPX-1
29	2033	705	347						END 705
MAY	2033	706	348	2056	20	4	8	4	BEGIN 706 ON TPX-2
1983	2044	706	384						CAMERA RECORD TAKEN. CH. 1 DEAD! REPAIRED
	2102								DEPTHS: #1=30', #2=40', #3=34', #4=45', #5=40', #6=43'
	2125	706	505						END 706
	2125	707	506	2120	20	4	8	4	BEGIN 707 ON TPX-1
	2200	707	609					5	CHANGE DELAY TO 5.0 SEC.
	2217	707	660						END 707 MANY RE'S ON TAPE. BAS FENDURA
	2217	708	661	2193	20	4	8	5	BEGIN 708 ON TPX-2
	2230	708	699	2202					TERMINATE S/B #86
	2309	708	818	2235					END 708
	2309	709	819	2235					BEGIN T#709-TPX-1
	2319	709	848	2241					DEPTHS #1-33; #2-39; #3-32; #4-42; #5-34; #6-43
30	0001	709	973	2261					END 709
MAY	0001	710	974	2261					BEGIN T#710-TPX-2
1983	0016	710	19	2272					BEGIN SB #87
(DAY)	0053	710	130	2285					END 710
(150)	0053	711	131	2285					START T#711-TPX-1

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AND R/V'S

$$\frac{Z}{A}$$

AREA MOROCCAN MARGIN

LINE TYPE CDP

SOURCE 4/466 in³ BOLT Airguns

DFS IV 48 CHANNELS

FORMAT: SEG B

BFI 1600

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RV CONRADAND R/V'S N/ADFS IV 48 CHANNELSCRUISE RL24-06AREA MOROCCAN MARGINFORMAT: SEG BLINE NO. 31LINE TYPE CDPSOURCE 4 466 IN³ BOLT AIRGUNSBPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
150	0712	717	001	2344	20	4	8	5	(TPX-1) DT1: 30 DT3: 34 DT5: 35 START TAPE 717 DT2: 38 DT4: 45 DT6: 41 START LINE 31
30 MAY 1983	0803	717	154		20	4	8	5	END TAPE 717, NO SHOTS LOST.
	0804	718	155		"	"	"	"	START TAPE 718, THREE SHOTS LOST TAPE ERROR
	0807	718	165	2335	"	"	"	"	DT1: 30 DT3: 35 DT5: 35 MONITOR RECORD DT2: 40 DT4: 40 DT6: 40
	0830	718	241		"	"	"	"	START SONOBUOY #88
	0855	718	309	2333	"	"	"	"	END TAPE 718
	0855	719	310		"	"	"	"	DT1: 30 DT3: 33 DT5: 35 START TAPE 719 (TPX-1) DT2: 40 DT4: 43 DT6: 42
	0944	719	455		"	"	"	"	GUN #2 BACK ON
	0946	719	462		"	"	"	"	END TAPE 719, NO SHOTS LOST.
	0946	720	463	2333	"	"	"	"	DT1: 33 DT3: 33 DT5: 33 START TAPE 720 (TPX-2) DT2: 40 DT4: 40 DT6: 40
	1038	720	617		"	"	"	"	END TAPE 720, NO SHOTS LOST.
	1038	721	618	2333	20	4	8	5	DT1: 32 DT3: 35 DT5: 38 START TAPE 721 (TPX-1) DT2: 40 DT4: 45 DT6: 43
	1051	721	645		"	"	"	"	END TAPE 721, TAPE RAN AWAY 6 SHOTS LOST
	1051	722	646	2332	"	"	"	"	DT1: 30 DT3: 34 DT5: 37 START TAPE 722 (TPX-2) DT2: 39 DT4: 42 DT6: 43
	1143	722	802		"	"	"	"	END TAPE 722
	1143	723	803	2332	"	"	"	"	TAPE ID INCREMENTED TO 723 at shot 812 DT1: 36 #3: 33 #5: 38 START TAPE 723 TPX-1 #2: 37 #4: 43 #6: 43
	1215	723	~897		"	"	"	"	END SB #88
	1213	723	892		"	"	"	"	Camera record ch 2 out - fixed + on again
	1230	723	946		"	"	"	"	SB #89A START FAILED

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NOTE: TAPES 724 AND ON ARE CLEANED, NEW, BASF-ENDURA BRAND

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
150	1234	723	956						END
30 May 1963	1234	724	957	2324	20	4	8	5	START
	1237								SB #89 2nd try
	1327	724	114						END 724
	1327	725	115	2320	20	4	8	25	BEGIN 725 ON TPX-1
	1418	725	269						END 725
	1418	726	270	2316	20	4	8	5	BEGIN 726 ON TPX-2
	1440								DEPTHS: #1=30', #2=40', #3=38', #4=46', #5=40', #6=45'
	1511	726	424						END TAPE 726 (TPX-2)
	1512	727	425	2313					BEGIN TAPE 727 (TPX-1)
	1602	727	579						END 727
	1602	728	580	2308	20	4	8	5	BEGIN 728 ON TPX-2
	1623	728	642	2307	"	"	"	"	END SB #89
	1631	728	667	2307	"	"	"	"	START SB #90
	1653	728	735	2303					END T 728
	1653	729	736	2303					START T 729 TPX-1
	-	-	-						DTs #1-30, #2-38, #3-34, #4-45, #5-40, #6-44
	1745	729	889	2201					END T# 729
	1745	730	890	2201					START T# 730 TPX-2

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AND R/V'S

AREA MOROCCAN MARGIN

LINE TYPE CDP

SOURCE 4/466 in³ ARGUMENTS

DFS IV 40 CHANNELS

FORMAT: SEGB

BPI 1600

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RV CONRAD

AND R/V'S _____

CRUISE RC2406AREA MOROCCAN MARGINLINE NO. 32 395LINE TYPE CDPSOURCE 4 AIRGUNS @ 466 IN³ EA. 1800 PSIDFS IV 4 CHANNELSFORMAT: SEGBBPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
150	2002	733	001	2282	20	4	8	5	BEGIN 733 ON TPX-1 BEGIN LINE 32 BEGIN TURN.
30	2002 ²³	733	061						GUNS 2+4 BACK ON. 4 GUNS FIRING.
MAY	2002 ⁵³	733	154						END 733 END OF TURN FROM LINE 31
83	2002 ⁵³	734	155	2280	20	4	8	5	BEGIN 734 ON TPX-2 STREAMER STRAIGHT
	2107	734	200						CAMERA RECORD TAKEN.
	2145	734	310						END 734
	2145	735	311	2293	20	4	8	5	BEGIN 735 ON TPX-1 ^{SHOT 380. PARITY & SYNCH LITES.}
	2205								DEPTHS: #1=35', #2=40', #3=35', #4=43', #5=36', #6=45'.
	2214	735	394						LAUNCH S.B. #900 ON AUX CH #1 + 6db #2 + 2db #4 - 6db.
	2223	735	465						END 735
	2237	736	466	2293	20	4	8	5	BEGIN 736 ON TPX-2
	2228								SCRUB S.B. 900
	2328	736	621	2350					END 736
	2328	737	622	2350					START 737 ON TPX-1
	—	—	—						DEPTHS #1-30', #2-40', #3-34', #4-45', #5-40', #6-44'
31	0000	737	776	2345					END 737
MAY	0000	738	777						START 738 - TPX-2
MAY	0112	738	932	2345					END 738
(151)	0112	739	933						START # 739 TPX-1

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AND R/V'S

AREA

LINE TYPE

SOURCE

4/466 in 3 AIRGUNS

DFS IV 48 CHANNELS

FORMAT: SEG 13

BPI 1600

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R/V CONRAD

AND R/V'S

CRUISE RC2406

AREA

MOROCCAN MARGINLINE NO. 33

LINE TYPE

CDPSOURCE 4/466 in³ AIRGUNDFS IV 48 CHANNELSFORMAT: SEG BBPT 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
31	0336	741	1	2268	20	4	8	5	START T#741 on TPX-1 / START LINE NO. 33
MAY	0427		154						END TAPE 741 NO SHOTS LOST
1983	0427	742	155	2300	11	11	11	11	START TAPE 742 (TPX-2) DT1: 35 DT3: 35 DT5: 35 DT2: 42 DT4: 44 DT6: 44
	0521		312						END TAPE 742 NO SHOTS LOST
(DAY)	0521	743	313	2325	11	11	11	11	START TAPE 743 (TPX-1) DT1: 34 DT3: 32 DT5: 35 (START SB #90) DT2: 39 DT4: 42 DT6: 45
(ISI)	0613		466						END TAPE 743 NO SHOTS LOST
	0613	744	467	2330	11	11	11	11	START TAPE 744 (TPX-2) DT1: 36 DT3: 34 DT5: 34 DT2: 41 DT4: 43 DT6: 42
	0704	744	622		"	"	"	"	END TAPE 744 NO SHOTS LOST.
	0704	745	623	2329	20	4	8	5	START TAPE 745 (TPX-1) DT1: 36 DT3: 32 DT5: 30 DT2: 40 DT4: 38 DT6: 42
	0756	745	776		"	"	"	"	END TAPE 745 NO SHOTS LOST.
	0756	746	777	2328	"	"	"	"	START TAPE 746 (TPX-2) DT1: 38 DT3: 35 DT5: 35 DT2: 41 DT4: 45 DT6: 42
	0848	746	932		"	"	"	"	END TAPE 746 NO SHOTS LOST.
	0848	747	933	2328	"	"	"	"	START TAPE 747 (TPX-1) DT1: 40 DT3: 30 DT5: 30 DT2: 40 DT4: 40 DT6: 41
	0902	747	970		"	"	"	"	MONITOR RECORD
	0939	747	087		"	"	"	"	END TAPE 747 NO SHOTS LOST.
	0939	748	088	2329	"	"	"	"	START TAPE 748 (TPX-2) DT1: 33 DT3: 33 DT5: 32 DT2: 40 DT4: 42 DT6: 40
	0945	748	103		"	"	"	"	END SONOBUOY #90 - POSSIBLE TAPE DAMAGE - OVER-ERROR.
	1032	748	246		"	"	"	"	END TAPE 748 NO SHOTS LOST.
	1032	749	247	2330	20	4	8	5	START TAPE 749 (TPX-1)

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PAGE NO. 58RV CONRADAND RV'S N/ADFS IV 48 CHANNELSCRUISE RC24-06AREA MOROCCAN MARGINFORMAT: SEG BLINE NO. 033LINE TYPE CDPSOURCE 41466IN³ AIRGUNBPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
151	1059	749	329		20	4	8	5	SB# 91
31 MAY 1983	1102	"	336		"	"	"	"	CAMERA RECORD
	1122	749	396		"	"	"	"	END TAPE 749
	1122	750	397	2348	"	"	"	"	START TAPE 750 DT#1=30 #3=31 #5=38 #2=36 #4=45 #6=43 TPX-2
	1214	750	551		"	"	"	"	END TAPE 750
	1214	751	552	2348	"	"	"	"	START TAPE 751 TPX-2 DT#1=31 #3=32 #5=36 #2=40 #4=45 #6=43
	1305	"	705		"	"	"	"	END TAPE 751
	1305	752	706	2348	"	"	"	"	START TAPE 752 TPX-2 DT#1=34 #3=35 #5=35 #2=38 #4=41 #6=43
	1357	"	861		"	"	"	"	END TAPE 752
	1357	753	862	2348	"	"	"	"	START TAPE 753 TPX-1 DE#1=32 #3=31 #5=35 #2=39 #4=45 #6=40
	1406	"	867		"	"	"	"	CAMERA RECORD
	1441	"			"	"	"	"	END SB#91
	1449	"	016		"	"	"	"	END TAPE 753
	1449	754	017	2348	"	"	"	"	START TAPE 754 TPX-2 DE#1=33 #3=30 #5=31 #2=40 #4=40 #6=43
	1541	754	172	2351					END TAPE 754
	1541	755	173	"					BEGIN TAPE 755
	1632	755	326	2360					END TAPE 755 NO SHOTS LOT.
	1632	756	327	"					START TAPE 756 (TPX-2) DT1: 37 DT2: 36 DT3: 26 DT4: 30 DT5: 42
	1637	756	341	"					START SONOBUOY #92

RAV CONRADAND R/V'S HACRUISE RC2406AREA MOROCCAN MARGINLINE NO. 033LINE TYPE CDPSOURCE 4/166 in³ AigunDFS IV 48 CHANNELSFORMAT: SEGBBPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
151	1657	756	403	2359					SONOBOUY #92/1 FAILED.
	1700	756	410	11					SONOBOUY #92 STARTED.
31	1724	756	481	2360					END TAPE 756 (TPX-2)
MAY	1724	757	482	11					BEGIN TAPE 757 (TPX-1)
83	1815	757	635						END TAPE 757 (TPX-1)
	1815	758	636						BEGIN TAPE 758 (TPX-2) DT1=29; DT3=32; DT5=35 DT2=30; DT4=39; DT6=41
	1908	758	792						END 758
	1908	759	793	2362	20	4	8	5	BEGIN 759 ON TPX-1
	1920	759	830						CAMERA RECORD TAKEN
	1959	759	947	2362					END 759
	1959	760	948	2362	20	4	8	5	BEGIN 760 ON TPX-2
	2051	760	105						END 760
	2052	761	106	2360	20	4	8	5	BEGIN 761 ON TPX-1 MISSED 3 SHOTS ON CHANGE
	2122	761							TERMINATE SONOBOUY 92
	2144	761	259						END 761
	2144	762	260	2360	20	4	8	5	BEGIN 762 ON TPX-2
	2203	762	316						LAUNCH S.B. #93A NO SIGNAL RETURN
	2216	762	3155						ON AUX CH 4 (-6db) AUX CH 1 (+6db) LAUNCH S.B. #93 AND AUX CH 2 +12db
	2236	762	415						END 762

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CRUISE RC2406

AREA MOROCCAN MARGIN

LINE NO. 33

LINE TYPE COP

SOURCE 4 AIRGUNS AT 466IN³ EA. 1800psi

DFS IV 48 CHANNELS

FORMAT: SEGB

BPT 1600[illegible]

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(70) (61)

R/V CONRADAND R/V'S N/ACRUISE RC2406AREA MEXICAN MARGINLINE NO. 34LINE TYPE CDPSOURCE 4/466 in³DFS IV 48 CHANNELSFORMAT: SEGBBPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
1	0309	768	1	2354	20	4	8	5	START LINE 34 - TAPE 768 GUNS #1 + #3 ON
JUNE	0313	"	15		"	"	"	"	GUNS #2 + #4 back on - ALL 4 GUNS FIRING
1983	0317	"	27		"	"	"	"	Camera Record
	0400	"	154		"	"	"	"	END TAPE 768
(DAY)	0400	769	155	2354	"	"	"	"	START TAPE 769 DT#1=25 #3=34 #5=40 #2=35 #4=45 #6=45 TPX-2
(152)	0452	"	310		"	"	"	"	END TAPE 769
	0452	770	311	2350	"	"	"	"	START TAPE 770 TPX-1 DT#1=26 #3=34 #5=40 #2=36 #4=45 #6=45
	0543		464		"	"	"	"	END TAPE 770 NO SHOTS LOST
	0543	771	465	2360	"	"	"	"	START TAPE 771 (TPX-2) DT1: 29 DT3: 34 DT5: 41 DT2: 38 DT4: 44 DT6: 46
	0617	771	~566		"	"	"	"	START JB #94
	0635		620		"	"	"	"	END TAPE 771 NO SHOTS LOST
	0635	772	621	2360	"	"	"	"	START TAPE 772 (TPX-1) DT1: 31 DT3: 32 DT5: 34 DT2: 37 DT4: 40 DT6: 43
	0726	772	774		20	4	8	5	END TAPE #772
	0726	773	775	2360	"	"	"	"	START TAPE 773 (TPX-2) DT1: 30 DT3: 32 DT5: 36 DT2: 36 DT4: 42 DT6: 43
	0828	773	0829		"	"	"	"	END TAPE #773
	0818	774	930	2360	"	"	"	"	START TAPE 774 (TPX-1) DT1: 28 DT3: 33 DT5: 35 DT2: 38 DT4: 42 DT6: 43
	0909	774	084		"	"	"	"	END TAPE 774
	0910	775	085	2360	"	"	"	"	START TAPE 775 (TPX-1) 1 SHOT GOOD - DATA LIGHT - RAN BACKWARDS... 4 SHOTS LOST (TPX-2) FAILED.
	1002	775	240		20	4	8	5	END TAPE 775

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DFS IV 48 CHANNELSCRUISE RC24-06AREA MOROCCAN MARLINFORMAT: SEGBLINE NO 034LINE TYPE CDPSOURCE 4/466m³ AIRGUNBPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
152	1002	776	241	2345	20	4	8	5	START OF TAPE 776 (TPX-2) DT1: 30 DT3: 33 DT5: 35 DT2: 38 DT4: 43 DT6: 43
1 JUNE 1983	1029	776	316						ABORT 776. RAN BACKWARDS / SHOT MISSED.
	1029	777	317	2345	20	4	8	5	BEGIN 777 ON TPX-1
	1119		469						END TAPE 777 NO SHOTS LOST
	1119	778	470	2355	"	"	"	"	START TAPE 778 (TPX-2) DT1: 31 DT3: 31 DT5: 33 DT2: 38 DT4: 39 DT6: 42
	1124								END SB #94
	1211		625	2355					END TAPE 778 NO SHOTS LOST PARITY & SYNC ERROR 1 st SHOT
	1211	779	626		"	"	"	"	START TAPE 779 (TPX-1) DT1: 31 DT3: 31 DT5: 33 DT2: 39 DT4: 42 DT6: 42
	1231	779	682						START SB #95
	1303	"	779						END TAPE 779
	1303	780	760	2355	"	"	"	"	START TAPE 780 TPX-2 DT#1=31 #3=31 #5=32 #2=39 #4=40 #6=41
	1314	"	813						Camera Record
	1355	"	935						END TAPE 780
	1355	781	936	2355					START TAPE 781 TPX-1 DT#1=30 #3=31 #5=35 #2=39 #4=40 #6=42
	1446	"	90						END TAPE 781
	1446	782	91	2350					START TAPE 782 TPX-2 DT#1=34 #3=31 #5=35 #2=40 #4=41 #6=42
	1538	782	246						END TAPE 782 (TPX-2)
	1538	783	247						BEGIN TAPE 783 (TPX-1)
	1629	783	400						END TAPE 783 (TPX-1) PARITY ERRORS LAST FEW SHOTS

FIGURE 10. 6. 14. 7. 1.

AND R/V' S _____

DFS IV 48 CHANNELS

AREA MOROCCAN MARGIN MCS JT

FORMAT: SEGB

LINE TYPE COP

SOURCE 4-466 IN³ AIR GUNS

BRI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
152	1629	784	401	2314	20	4	8	5	START TAPE #784 TPX-2
150NR	1640		433						DT. 1 - 35 DT. 2 - 41 DT. 3 - 33 DT. 4 - 42 DT. 5 - 38 DT. 6 - 44
1983	1700	784	499						END SB #95
	1722	784	555						END TAPE 784 (TPX-2)
	1722	785	556	2300					START TAPE 785 (TPX-1)
	1813	785	709						END TAPE 785 (TPX-1)
	1813	786	710	2282					BEGIN TAPE 786 (TPX-2)
	1834	786							SB #96 Launched
	1905	786							END 786
	1905	787	866	2258	20	4	8	5	BEGIN 787 ON TPX-1
	1957	787	21						END 787
	1957	788	22	2248	20	4	8	5	BEGIN 788 ON TPX-2
	2022	788	100						CAMERA RECORD TAKEN
	2048	788	177						END 788
	2048	789	178	2263	20	4	8	5	BEGIN 789 ON TPX-1
	2130								DEPTHS: #1=30', #2=40', #3=35', #4=45', #5=40', #6=44'
	2125								TERMINATE SONOBOLY #96
	2140	789	332						END 789

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R/V CONRADAND R/V'S —CRUISE RC2406AREA MOROCCAN MARGINLINE NO 34LINE TYPE C.D.P.SOURCE 4 BOLT AIRGUNS AT 466 IN³ EA. 1800psiDFS IV 48 CHANNELSFORMAT: SEG BBPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
151	2140	790	333	2270	20	4	8	5	BEGIN 790 ON TPX-2
1	2232	790	488						END 790
JUNE	2232	791	489	2279	20	4	8	2	BEGIN 791 ON TPX-1
83	2248	791	543	2281					LAUNCH SB #97 ON AUX CH. 1(+6db), #2(+12db), & #4(-6db)
	2323	791	642	2284					END #791
	2323	792	643	2284					START #792 TPX-2
	—	—	—						DT'S 1-33', 2-42', 3-35', 4-45', 5-37', 6-44'
	0015	792	799	2284					END 792
	0015	793	800	2284					START T #793 TPX-1
	0106	793	953	2285					END T #793
	0106	794	954	2285					START T #794 TPX-2
	0159	794	110						END #794
	0159	795	111						START T #795 TPX-1
	0250	795	264						END #795
	0250	796	265						START T #796 TPX-2
	—	—	—						DT'S 1-33', 2-42', 3-34', 4-43', 5-35', 6-44'
	0301	796							END SB #97
	0334								START SB #98
	0342	799	419						END TAPE 796

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RV CONRADAND RV'S N/ADFS IV 48 CHANNELSCRUISE RL24-06AREA MOROCCAN MARGINFORMAT: SEG BLINE NO 34LINE TYPE CDPSOURCE 4 466 IN³ BOLT AIRGUNSBPI 1600

JULIAN DATE	TIME GMT	TAPE #	FILE COUNT	DEPTH FM	POP RATE SEC	SAMP. RATE MSEC	REC. LEN. SEC	TRIP DEL. SEC	COMMENTS
152	0342	797	420	2300	20	4	8	5	START #797 (TPX-1) DT1: 33 DT2: 42 DT3: 35 DT4: 44 DT5: 36 DT6: 44
	0433	797	572						END TAPE 797 NO SHOTS LOST
	0433	798	573	2300	11	11	11	11	START TAPE 798 (TPX-2) DT1: 31 DT2: 40 DT3: 33 DT4: 43 DT5: 37 DT6: 43
	0525		728						END TAPE 798 NO SHOTS LOST
	0525	799	729	2300	11	11	11	11	START TAPE 799 (TPX-1) DT1: 32 DT2: 41 DT3: 34 DT4: 43 DT5: 36 DT6: 45
	0616		882						END TAPE 799 NO SHOTS LOST PARITY & SYNC ERRORS 1ST SHOT
	0616	800	883	2290	11	11	11	11	START TAPE 800 (TPX-2) DT1: 32 DT2: 41 DT3: 34 DT4: 43 DT5: 36 DT6: 44
	0708	800	039		11	11	11	11	END TAPE 800 NO SHOTS LOST
	0708	801	040	2279	20	4	8	5	START TAPE 801 (TPX-1) DT1: 32 DT2: 40 DT3: 33 DT4: 43 DT5: 35 DT6: 42
	0726	801	090		11	11	11	11	END TAPE 801, ONE SHOT LOST, TPX-1 PAX AWAY.
	0726	802	091		11	11	11	11	START TAPE 802, SHOT 98 OVERDRIVE & PARITY ERRORS.
	0808	802	217		11	11	11	11	START SONAR BOOT # 99
	0817	802	246		11	11	11	11	END TAPE 802
	0818	803	247	2261	11	11	11	11	START TAPE 803 (TPX-1) DT1: 30 DT2: 38 DT3: 32 DT4: 42 DT5: 35 DT6: 42
	0909	803	400		11	11	11	11	END TAPE 803
	0909	804	401		11	11	11	11	START TAPE 804 (TPX-2) DT1: 30 DT2: 38 DT3: 32 DT4: 42 DT5: 35 DT6: 42
	1001	804	557		11	11	11	11	END TAPE 804
	1001	805	558	2241	11	11	11	11	START TAPE 805 (TPX-1) DT1: 32 DT2: 42 DT3: 34 DT4: 43 DT5: 35 DT6: 42
	1026	11	666						Computer Crash

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AND R/V' S _____

AREA Moroccan Margin

LINE TYPE CDP

SOURCE 4 466 in³ ARGONS

DFS IV 48 CHANNELS

FORMAT: SEG B

BFI 1600

[illegible]