

MULTICHANNEL LINE LOG

PAGE NO. 1

CRUISE 2612 LINE 588 NUMBER OF SHIPS 2 THIS SHIP Conrad
 CDP _____ COP X AIRGUNS X EXPLOSIVES _____

RECEIVING SHIPS	<u>Conrad</u>	<u>Flavine #4</u>	_____	_____
NUMBER OF TRACES	<u>48</u>	<u>48</u>	_____	_____
GROUP SPACING	<u>50</u>	<u>50</u>	_____	_____
	<u>585, 500, 466, 350</u>	<u>825, 700 + Annam</u>		
		<u>CHINESE</u>		
SHOOTING SHIPS	<u>Conrad</u>	<u>Flavine #4</u>	_____	_____
SHOT INTERVAL	<u>30s.</u>	<u>30s.</u>	_____	_____
APPROXIMATE SHOT TIME (SEC)	<u>30</u>	<u>minute</u>	_____	_____

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>296</u>	<u>1502</u>	<u>22° 58.86' N</u>	<u>117° 06.88' E</u>	<u>8729</u>	<u>85-295</u>
END LINE	<u>297</u>	<u>2400</u>	_____	_____	<u>8792</u>	<u>295</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>CONRAD</u>	<u>280 m</u>	35	<u>340</u>	_____	<u>340</u>
<u>OCEAN 4</u>	<u>264 m</u>	<u>35</u>	<u>299</u>	<u>47</u>	<u>311</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

CRUISE 2612 LINE 589 NUMBER OF SHIPS 1 THIS SHIP CONRAD
 CDP ✓ COP _____ AIRGUNS ✓ EXPLOSIVES _____

RECEIVING SHIPS CONRAD _____
 NUMBER OF TRACES 48 _____
 GROUP SPACING 50 _____
555, 500, 466, 350 ~~825, 700~~ CHIRP AREA
 SHOOTING SHIPS CONRAD _____
 SHOT INTERVAL 20 SEC _____
 APPROXIMATE SHOT TIME (SEC) _____

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>300 (27 Oct 85)</u>	<u>1700</u>	_____	_____	<u>8793</u>	<u>297</u>
END LINE	<u>303 (30 Oct 85)</u>	<u>0510</u>	<u>10° 54.4' N</u>	<u>115° 45.6' E</u>	<u>8899</u>	<u>299</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>CONRAD</u>	<u>280 m</u>	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

CRUISE 2612 LINE 590 NUMBER OF SHIPS 1 THIS SHIP CONRAD
 CDP ✓ COP _____ AIRGUNS ✓ EXPLOSIVES _____

RECEIVING SHIPS CONRAD _____
 NUMBER OF TRACES 48 _____
 GROUP SPACING 50 _____
 SHOOTING SHIPS _____
 SHOT INTERVAL 20 sec _____
 APPROXIMATE SHOT TIME (SEC) _____

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>303 (30 Oct 86)</u>	<u>0510</u>	<u>10° 54.4' N</u>	<u>115° 45.6' E</u>	<u>8900</u>	<u>299</u>
END LINE	<u>303</u>	<u>1042</u>	<u>10° 27.65' N</u>	<u>115° 24.07' E</u>	<u>8909</u>	<u>299</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
_____	<u>280 m</u>	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

CRUISE 26-12 LINE 591 NUMBER OF SHIPS 1 THIS SHIP CONRAD
 CDP ✓ COP _____ AIRGUNS ✓ EXPLOSIVES _____

585, 500, 466, 350

RECEIVING SHIPS CONRAD _____
 NUMBER OF TRACES 48 _____
 GROUP SPACING 50 _____
 SHOOTING SHIPS _____
 SHOT INTERVAL 20 SEC _____
 APPROXIMATE SHOT TIME (SEC) _____

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>303 (30 Oct 85)</u>	<u>11:46</u>	<u>10° 28.444' N</u>	<u>115° 25.173' E</u>	<u>8910</u>	<u>299</u>
END LINE	<u>305 INDY</u>	<u>21:40</u>	<u>15° 36.222' S</u>	<u>112° 40'</u>	<u>9010</u>	<u>300</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
_____	<u>280 m</u>	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

CRUISE 26-12LINE 592NUMBER OF SHIPS 1THIS SHIP CONRAD

CDP _____

COP _____

AIRGUNS 4

EXPLOSIVES _____

RECEIVING SHIPS

CONRAD

NUMBER OF TRACES

48

GROUP SPACING

50

SHOOTING SHIPS

SHOT INTERVAL

20 SEC

APPROXIMATE SHOT

TIME (SEC)

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>306</u> ^{2NDY}	<u>00:09</u>	<u>N16 40.600</u>	<u>E112 53.900</u>	<u>9011</u>	<u>300</u>
END LINE	<u>306</u>	<u>06:30</u>			<u>9022</u>	<u>300</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
	<u>280 m</u>				

CRUISE 26-12 LINE 593 NUMBER OF SHIPS 2 THIS SHIP CONRAD
 CDP _____ COP ✓ AIRGUNS ✓ EXPLOSIVES _____

RECEIVING SHIPS CONRAD HAIYANG 4 _____
 NUMBER OF TRACES 48 16 _____
 GROUP SPACING 50 50 _____
585, 500, 466, 350 825, 700 + ~~CHINNESS~~
Army
 SHOOTING SHIPS CONRAD HAIYANG 4 _____
 SHOT INTERVAL 30s 30s _____
 APPROXIMATE SHOT TIME (SEC) 32s 2s _____

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>307</u>	<u>0705</u>	<u>18° 12.19' N</u>	<u>113° 18.261' E</u>	<u>9023</u>	<u>301</u>
END LINE	<u>307</u>	<u>1256</u>	<u>18° 44' N</u>	<u>113° 07' E</u>	<u>9035</u>	<u>301</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>CONRAD</u>	<u>280 m</u>	_____	<u>360</u>	_____	<u>360</u>
<u>HAIYANG 4</u>	<u>264 m</u>	<u>35</u>	<u>299</u>	<u>47</u>	<u>311</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

MULTICHANNEL LINE LOG

NO. 7.....

CRUISE 26-12 LINE 594 NUMBER OF SHIPS 2 THIS SHIP CONRAD
 CDP ✓ COP ✓ AIRGUNS ✓ EXPLOSIVES _____

RECEIVING SHIPS CONRAD HAIYANG-4 _____
 NUMBER OF TRACES 48 16 _____
 GROUP SPACING 50 50 _____

SHOOTING SHIPS CONRAD HAIYANG-4 _____
 SHOT INTERVAL 30 SEC 30 SEC _____
 APPROXIMATE SHOT TIME (SEC) 32 SEC 2 SEC _____

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>3075D</u>	<u>1443</u>	<u>N 18° 47.548'</u>	<u>E 113° 09.204'</u>	<u>9036</u>	<u>301</u>
END LINE	_____	_____	<u>F</u>	_____	<u>9062</u>	_____

SP 32222

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>CONRAD</u>	<u>280 m</u>	_____	<u>340</u>	_____	<u>340</u>
<u>HAIYANG-4</u>	<u>264 m</u>	<u>35</u>	<u>299</u>	<u>47</u>	<u>311</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

CRUISE RC26-12LINE 595NUMBER OF SHIPS 2THIS SHIP CONRADCDP ✓COP —AIRGUNS ✓EXPLOSIVES —

RECEIVING SHIPS

CONRADHAIYANG-4

NUMBER OF TRACES

4816

GROUP SPACING

5050

SHOOTING SHIPS

CONRADHAIYANG-4

SHOT INTERVAL

30 S30 SAPPROXIMATE SHOT
TIME (SEC)32 S2 S

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>5 NOV 85</u> <u>JD 309</u>				<u>9063</u>	<u>302</u>
END LINE	<u>6 NOV 85</u> <u>JD 310</u>	<u>10:06</u>	<u>20°14.346</u>	<u>117°48.229</u>	<u>9124</u>	<u>303</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>CONRAD</u>	<u>280 m</u>		<u>340 m</u>		<u>340</u>
<u>HAIYANG-4</u>	<u>264 m</u>	<u>35 m</u>	<u>299 m</u>	<u>47 m</u>	<u>311</u>

CRUISE RC26-12 LINE 596 NUMBER OF SHIPS 2 THIS SHIP CONRAD.
 CDP _____ ~~ESP #4~~ AIRGUNS 6 x 22.3 CTAS. EXPLOSIVES NO

RECEIVING SHIPS CONRAD HAI YANG II _____
 NUMBER OF TRACES 48 16 _____
 GROUP SPACING 50m 50m _____

SHOOTING SHIPS _____ HAI YANG II _____
 SHOT INTERVAL _____ 150m _____
 APPROXIMATE SHOT TIME (SEC) _____ 60 _____

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>6 NOV 85</u>	<u>11:23</u>	<u>20° 12.605 N</u>	<u>117° 43.905</u>	<u>9125C</u>	<u>303</u>
END LINE	<u>6 NOV 85</u>	<u>14:30</u>	<u>20° 04.3 N</u> 20° 26.000 N	<u>117° 28.7 E</u>	<u>9132C</u>	<u>303</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>CONRAD</u>	<u>280 m</u>	_____	<u>340 m</u>	_____	<u>340 m</u>
<u>HAIYANG-LL</u>	<u>264 m</u>	<u>35 m</u>	<u>299 m</u>	<u>47 m</u>	<u>311 m</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

CRUISE RC26-12LINE 597NUMBER OF SHIPS 2THIS SHIP CONRAD

CDP _____

CDP ESP #4AAIRGUNS EXPLOSIVES NO

RECEIVING SHIPS

CONRADHAIYANG

NUMBER OF TRACES

16

GROUP SPACING

50m

SHOOTING SHIPS

HAIYANG

SHOT INTERVAL

60 sec

APPROXIMATE SHOT

TIME (SEC)

2

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>6 NOV (310)</u>	<u>1600</u>	_____	_____	<u>9133</u>	<u>303</u>
END LINE	<u>7 NOV (311)</u>	<u>0019</u>	_____	_____	<u>9149</u>	<u>303</u>

DISTANCES WHERE APPLICABLE

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

CRUISE 26-12. LINE 598 NUMBER OF SHIPS 1 THIS SHIP CONRAD
 CDP ✓ COP _____ AIRGUNS 4 EXPLOSIVES _____

RECEIVING SHIPS CONRAD _____
 NUMBER OF TRACES 48 _____
 GROUP SPACING 50 _____
 SHOOTING SHIPS CONRAD _____
 SHOT INTERVAL 30 SEC _____
 APPROXIMATE SHOT TIME (SEC) 20 _____

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>311/7 NOV 85</u>	<u>0057</u>	_____	_____	<u>9150</u>	<u>303</u>
END LINE	<u>311</u>	<u>0510</u>	_____	_____	<u>9157</u>	<u>303</u>

DISTANCES WHERE APPLICABLE

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

CRUISE 2612
 CDP _____

LINE S99
 EXP. COP ✓ 3

NUMBER OF SHIPS 2
 AIRGUNS ✓ 825,700
+ CHINESE ARRAY

THIS SHIP CONRAD
 EXPLOSIVES _____

RECEIVING SHIPS	<u>CONRAD</u>	<u>HAIYANG 4</u>	_____	_____
NUMBER OF TRACES	<u>48</u>	<u>16</u>	_____	_____
GROUP SPACING	<u>50</u>	<u>50</u>	_____	_____
SHOOTING SHIPS	_____	<u>HAIYANG 4</u>	_____	_____
SHOT INTERVAL	_____	<u>60</u>	_____	_____
APPROXIMATE SHOT TIME (SEC)	_____	<u>02</u>	_____	_____

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>311 (7 NOV 85)</u>	<u>06:00</u>	_____	_____	<u>9158</u>	<u>303</u>
END LINE	<u>311 (7 NOV 85)</u>	<u>14:45</u>	_____	_____	<u>9175</u>	<u>303</u>

DISTANCES WHERE APPLICABLE

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

CRUISE RC 26-12 LINE 600 NUMBER OF SHIPS 1 THIS SHIP CONRAD
 CDP ✓ COP _____ AIRGUNS 4 EXPLOSIVES _____

RECEIVING SHIPS CONRAD _____
 NUMBER OF TRACES 48 _____
 GROUP SPACING 50 _____
 SHOOTING SHIPS CONRAD _____
 SHOT INTERVAL 30 SEC _____
 APPROXIMATE SHOT TIME (SEC) 20 SEC _____

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>311</u>	<u>15:15</u>	_____	_____	<u>9176</u>	<u>303</u>
END LINE	<u>311</u>	<u>20:30</u>	<u>19° 20.64' N</u>	<u>117° 49.56' E</u>	<u>9185</u>	<u>303</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
_____	<u>280 m</u>	_____	<u>340</u>	_____	<u>340</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

CRUISE 26-12 LINE 601 NUMBER OF SHIPS 2 THIS SHIP CONRAD

CDP _____

COP ✓
ESP 2AIRGUNS ✓
825 + 700 CHINESE ARMY

EXPLOSIVES _____

RECEIVING SHIPS

CONRADHAIYANG

NUMBER OF TRACES

4816

GROUP SPACING

5050

SHOOTING SHIPS

HAIYANG 4

SHOT INTERVAL

60

APPROXIMATE SHOT

02

TIME (SEC)

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>311 (7 NOV 85)</u>	<u>2045</u>	_____	_____	<u>9186</u>	<u>303</u>
END LINE	<u>312 (8 NOV 85)</u>	<u>0447</u>	_____	_____	<u>9202</u>	<u>303</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>CONRAD</u>	<u>280m</u>	_____	<u>360</u>	_____	<u>340</u>
<u>HAIYANG</u>	<u>264</u>	<u>35</u>	<u>299</u>	<u>47</u>	<u>311</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

CRUISE RC 26-12 LINE 602 NUMBER OF SHIPS 1 THIS SHIP CONRAD
 CDP ✓ COP _____ AIRGUNS 4 EXPLOSIVES -

RECEIVING SHIPS CONRAD 04 cdp _____
 NUMBER OF TRACES 48 _____
 GROUP SPACING 50 _____
 SHOOTING SHIPS CONRAD 04 cdp _____
 SHOT INTERVAL 20 _____
 APPROXIMATE SHOT TIME (SEC) _____

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>312 (8 Nov 85)</u>	<u>10:30</u>	_____	_____	<u>9203</u>	<u>303</u>
END LINE	<u>312</u>	<u>10:30</u>	_____	_____	<u>9212</u>	<u>303</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>CONRAD</u>	<u>280m</u>	_____	<u>340m</u>	_____	<u>340m</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

CRUISE RC 26-12 LINE 604 NUMBER OF SHIPS 2 THIS SHIP CONRAD
 CDP _____ ESP V AIRGUNS 825+700 + CHINESE EXPLOSIVES _____
CDP ARRAY

RECEIVING SHIPS CONRAD HAIYANG
 NUMBER OF TRACES 48 16
 GROUP SPACING 50 50

SHOOTING SHIPS CONRAD HAIYANG
 SHOT INTERVAL 60s 60s
 APPROXIMATE SHOT TIME (SEC) _____

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>312 (2 NOV 85)</u>	<u>11:00</u>	<u>19° 3.45' N</u>	<u>118° 47.66</u>	<u>9213</u>	<u>303-304</u>
END LINE	<u>312</u>	<u>19:15</u>	<u>18° 55.6' N</u>	<u>118° 06.68' E</u>	<u>9229</u>	<u>304</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>CONRAD</u>	<u>280m</u>	_____	<u>340</u>	_____	<u>340</u>
<u>HAIYANG</u>	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

CRUISE RC26-12 LINE 605 NUMBER OF SHIPS 1 THIS SHIP CONRAD
 CDP _____ COP ✓ AIRGUNS 4 EXPLOSIVES _____

RECEIVING SHIPS CONRAD _____
 NUMBER OF TRACES 48 _____
 GROUP SPACING 50 _____

SHOOTING SHIPS CONRAD _____
 SHOT INTERVAL 20.5 _____
 APPROXIMATE SHOT TIME (SEC) _____

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>312</u>	<u>19:45</u>	<u>18°57.33</u>	<u>118°6.79</u>	<u>9230</u>	<u>304</u>
END LINE	<u>313 0050</u>	<u>00:50</u>	_____	_____	<u>9238</u>	<u>305 304</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>CONRAD</u>	<u>280 m</u>	_____	<u>340</u>	_____	<u>340</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

CRUISE 26-12LINE 606NUMBER OF SHIPS 1THIS SHIP CONRAD

CDP _____

COP _____

AIRGUNS 4

EXPLOSIVES _____

RECEIVING SHIPS

CONRAD

NUMBER OF TRACES

48

GROUP SPACING

50

SHOOTING SHIPS

EDNRAN

SHOT INTERVAL

20APPROXIMATE SHOT
TIME (SEC)20

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>313</u>	<u>01:00</u>	_____	_____	<u>9239</u>	<u>305</u>
END LINE	<u>313</u>	<u>13:03</u>	_____	_____	<u>9280</u>	<u>305</u>

DISTANCES WHERE APPLICABLE

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

CRUISE 26-12LINE 607NUMBER OF SHIPS 2THIS SHIP CONRAD

CDP _____

~~CON~~ ESP#5AIRGUNS

EXPLOSIVES _____

RECEIVING SHIPS

CONRADHAI YANG-4

NUMBER OF TRACES

4816

GROUP SPACING

5050

SHOOTING SHIPS

HAI YANG-4

SHOT INTERVAL

60 SEC

APPROXIMATE SHOT

TIME (SEC)

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>313</u>	19:57 <u>19:58</u>	_____	_____	<u>9260</u>	<u>305</u>
END LINE	<u>313</u>	<u>20:30</u>	_____	_____	<u>9274</u>	<u>305</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>CONRAD</u>	<u>280 m</u>	_____	<u>340</u>	_____	<u>340</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

CRUISE 26-12 LINE 608 NUMBER OF SHIPS 1 THIS SHIP CONRAD
 CDP ✓ COP _____ AIRGUNS 4 EXPLOSIVES _____

RECEIVING SHIPS CONRAD _____
 NUMBER OF TRACES 48 _____
 GROUP SPACING 50 _____
 SHOOTING SHIPS CONRAD _____
 SHOT INTERVAL 20S _____
 APPROXIMATE SHOT TIME (SEC) _____

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>313</u> ^{9 NOV}	<u>21:47</u>	_____	_____	<u>9275</u>	<u>305</u>
END LINE	<u>314</u> ^{10 NOV}	<u>02:00</u>	_____	_____	<u>9282</u>	<u>305</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>CONRAD</u>	<u>280m</u>	_____	<u>340</u>	_____	<u>340</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

CRUISE 26-12LINE 609NUMBER OF SHIPS 1THIS SHIP CONRADCDP ✓

COP _____

AIRGUNS 4

EXPLOSIVES _____

RECEIVING SHIPS

CONRAD

NUMBER OF TRACES

48

GROUP SPACING

50

SHOOTING SHIPS

CONRAD

SHOT INTERVAL

20 SECAPPROXIMATE SHOT
TIME (SEC)

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>314</u>	<u>02:18</u>	_____	_____	<u>9283</u>	<u>305</u>
END LINE	<u>314</u>	<u>06:11</u>	_____	_____	<u>9289</u>	<u>305</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

CASE NO. 19

CRUISE 26-12 LINE 610 NUMBER OF SHIPS 2 THIS SHIP CONRAD
 CDP _____ EOP ESP ✓ AIRGUNS ✓ EXPLOSIVES _____

RECEIVING SHIPS CONRAD HAIYANG 4 _____
 NUMBER OF TRACES 48 16 _____
 GROUP SPACING 50 50 _____

SHOOTING SHIPS _____ HAIYANG _____
 SHOT INTERVAL _____ 60 sec _____
 APPROXIMATE SHOT TIME (SEC) _____ _____

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>314</u>	<u>0632</u>	_____	_____	<u>9290</u>	<u>305</u>
END LINE	<u>314</u>	<u>1445</u>	_____	_____	<u>9306</u>	<u>305</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>CONRAD</u>	<u>280 m</u>	_____	<u>360</u>	_____	<u>340</u>
<u>HAIYANG</u>	<u>264</u>	<u>35</u>	<u>299</u>	<u>47</u>	<u>311</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

CRUISE 26-12LINE 612NUMBER OF SHIPS 2THIS SHIP CONRAD

CDP _____

ESP
CDP ✓AIRGUNS ✓

EXPLOSIVES _____

RECEIVING SHIPS

CONRADHAIYANG

NUMBER OF TRACES

4816

GROUP SPACING

5050

SHOOTING SHIPS

HAIYANG

SHOT INTERVAL

60 secAPPROXIMATE SHOT
TIME (SEC)

DATE

TIME
GMT

LATITUDE

LONGITUDE

DATATAPE
NO.LOGTAPE
NO.START LINE 314190021° 32.37' N118° 0.36' E9313307END LINE 31504.2121° 11.08' N117° 12.27'9332DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>CONRAD</u>	<u>280 m</u>		<u>340</u>		<u>340</u>
<u>HAIYANG</u>	<u>264</u>	<u>35</u>	<u>299</u>	<u>47</u>	<u>311</u>

CRUISE 26-12 LINE 613 NUMBER OF SHIPS 2 THIS SHIP CONRAD
 CDP _____ COP ESP-7A AIRGUNS ✓ EXPLOSIVES _____

RECEIVING SHIPS CONRAD _____
 NUMBER OF TRACES 48 _____
 GROUP SPACING 50 _____

SHOOTING SHIPS _____ HAI YANG-4 _____
 SHOT INTERVAL _____ 60 S _____
 APPROXIMATE SHOT TIME (SEC) _____ _____

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>315</u>	<u>05:30</u>	<u>21° 17.44' N</u>	<u>117° 10.08' E</u>	<u>9333</u>	<u>307</u>
END LINE	<u>315</u>	<u>14:30</u>	_____	_____	<u>9350</u>	<u>307</u>

DISTANCES WHERE APPLICABLE

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

CRUISE 26-12 LINE 614 NUMBER OF SHIPS 1 THIS SHIP CONRAD
 COP ✓ COP _____ AIRGUNS 4 EXPLOSIVES _____

RECEIVING SHIPS CONRAD _____ _____
 NUMBER OF TRACES 48 _____ _____
 GROUP SPACING 50 _____ _____
 SHOOTING SHIPS CONRAD _____ _____
 SHOT INTERVAL 20 SEC _____ _____
 APPROXIMATE SHOT TIME (SEC) _____ _____ _____

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>315</u>	<u>14:46</u>	_____	_____	<u>9351</u>	<u>307</u>
END LINE	<u>315</u>	<u>20:59</u>	_____	_____	<u>9361</u>	<u>307</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

PAGE NO.

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CRUISE 26-12 LINE 615 NUMBER OF SHIPS 2 THIS SHIP CONRAD
 CDP _____ COP ESP-8 AIRGUNS ✓ EXPLOSIVES _____

RECEIVING SHIPS CONRAD _____

NUMBER OF TRACES 168 _____

GROUP SPACING 50 _____

SHOOTING SHIPS _____ HAI YANG-4 _____

SHOT INTERVAL _____ 60S _____

APPROXIMATE SHOT TIME (SEC) _____ _____

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>315</u>	<u>21:30</u>	_____	_____	<u>9362</u>	<u>307</u>
END LINE	<u>316</u>	<u>06:15</u>	<u>21° 40.45' N</u>	<u>116° 46.98' E</u>	<u>9379</u>	<u>307</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>CONRAD</u>	<u>280m</u>	_____	<u>340</u>	_____	<u>340</u>
<u>HAIYANG</u>	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

CRUISE 26-12 LINE 616 NUMBER OF SHIPS 1 THIS SHIP CONRAD
 CDP ✓ COP _____ AIRGUNS ✓ EXPLOSIVES _____

RECEIVING SHIPS CONRAD _____
 NUMBER OF TRACES 48 _____
 GROUP SPACING 50 _____
 SHOOTING SHIPS CONRAD _____
 SHOT INTERVAL 20 sec _____
 APPROXIMATE SHOT TIME (SEC) _____

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>316 (12 NOV 85)</u>	<u>06:31</u>	<u>21° 42.30' N</u>	<u>116° 46.99' E</u>	<u>9380</u>	<u>307</u>
END LINE	<u>316</u>	<u>11:02</u>	_____	_____	<u>9387</u>	<u>307</u>

DISTANCES WHERE APPLICABLE

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

CRUISE 26-12 LINE 617 NUMBER OF SHIPS 2 THIS SHIP CONRAD
 CDP _____ COP ESP-9 AIRGUNS ✓ EXPLOSIVES _____

RECEIVING SHIPS CONRAD _____
 NUMBER OF TRACES 48 _____
 GROUP SPACING 50 _____

SHOOTING SHIPS _____ HAI YANG-4 _____
 SHOT INTERVAL _____ 60S _____
 APPROXIMATE SHOT TIME (SEC) _____ _____

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>316</u>	<u>11:30</u>	_____	_____	<u>9388</u>	<u>307</u>
END LINE	<u>316</u>	<u>20:15</u>	_____	_____	<u>9406</u>	<u>307</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>CONRAD</u>	<u>280</u>	_____	<u>340</u>	_____	<u>300</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

CRUISE 26-12 LINE 618 NUMBER OF SHIPS 1 THIS SHIP CONRAD
 CDP ✓ COP _____ AIRGUNS ✓ EXPLOSIVES _____

RECEIVING SHIPS CONRAD _____
 NUMBER OF TRACES 48 _____
 GROUP SPACING 50 _____
 SHOOTING SHIPS CONRAD _____
 SHOT INTERVAL 20 Sec _____
 APPROXIMATE SHOT TIME (SEC) _____

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>316 (12 NOV 85)</u>	<u>20:50</u>	<u>22° 22' N</u>	<u>117° 24' E</u>	<u>9407</u>	<u>308</u>
END LINE	<u>317 (13 NOV 85)</u>	<u>1716</u>	<u>20° 34' N</u>	<u>116° 03' E</u>	<u>9443</u>	<u>308</u>

DISTANCES WHERE APPLICABLE

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

CRUISE RC2612 LINE 619 NUMBER OF SHIPS 2 THIS SHIP CONRAD
 CDP _____ ~~COP~~ ESP 24 AIRGUNS EXPLOSIVES _____

RECEIVING SHIPS CONRAD HAIYANG 4 _____
 NUMBER OF TRACES 48 16 _____
 GROUP SPACING 50 50 _____

SHOOTING SHIPS _____ HAIYANG 4 _____
 SHOT INTERVAL _____ 60 _____
 APPROXIMATE SHOT TIME (SEC) _____ 2 _____

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>317 (13 NOV 85)</u>	<u>1734</u>	<u>20° 34' N</u>	<u>116° 02' E</u>	<u>9444</u>	<u>308</u>
END LINE	<u>318</u>	<u>0232</u>	_____	_____	<u>9462</u>	<u>308</u>

DISTANCES WHERE APPLICABLE

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

CRUISE 26-12 LINE 620 NUMBER OF SHIPS 1 THIS SHIP CONRAD
 CDP ✓ COP _____ AIRGUNS 4 EXPLOSIVES _____

RECEIVING SHIPS CONRAD _____
 NUMBER OF TRACES 48 _____
 GROUP SPACING 50(m) _____
 SHOOTING SHIPS CONRAD _____
 SHOT INTERVAL 20 SEC _____
 APPROXIMATE SHOT TIME (SEC) _____

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>318</u>	<u>03:00</u>	_____	_____	<u>9463</u>	<u>308</u>
END LINE	<u>318</u>	<u>0838</u>	_____	_____	<u>9472</u>	<u>308</u>

DISTANCES WHERE APPLICABLE

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

CRUISE RC26-12LINE 621NUMBER OF SHIPS 2THIS SHIP CONRAD

CDP _____

COP ESP-22'AIRGUNS

EXPLOSIVES _____

RECEIVING SHIPS

CONRADHAI YANG-4

NUMBER OF TRACES

4816

GROUP SPACING

5050

SHOOTING SHIPS

HAI YANG-4

SHOT INTERVAL

60S

APPROXIMATE SHOT

TIME (SEC)

DATE

TIME
GMT

LATITUDE

LONGITUDE

DATATAPE
NO.LOGTAPE
NO.

START LINE

31809:00

END LINE

31817:3019° 58.01'116° 17.50'94733089489308DISTANCES WHERE APPLICABLE

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

CRUISE KC16-12 LINE 622 NUMBER OF SHIPS 2 THIS SHIP CONRAD
 CDP _____ COP ESP 23' AIRGUNS EXPLOSIVES _____

RECEIVING SHIPS CONRAD HAI YANG-U _____
 NUMBER OF TRACES 48 16 _____
 GROUP SPACING 50 50 _____

SHOOTING SHIPS _____ HAI YANG-U _____
 SHOT INTERVAL _____ 60S _____
 APPROXIMATE SHOT TIME (SEC) _____ _____

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>318</u>	<u>20:30</u>	_____	_____	<u>9490</u>	<u>308</u>
END LINE	<u>319</u>	<u>02:30</u>	_____	_____	<u>9501</u>	<u>308</u>

DISTANCES WHERE APPLICABLE

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