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PALISADES New York State

TWX-710-676-2053

CRUISE REPORT

* Ship Name: VEMA Cruise No: 36-08
Departure: February 9, 1980 from Hong Kong
Date Port
Arrival: March 5, 1980 at Hong Kong Dep 7⁰⁰
Date Port

Days at Sea: 24 Days Foreign Port: 2
(Count day of departure but (number of days in arrival port
not day of arrival in port) before next leg)

Area of Operation: South China Sea

Program Description: V-3608 was the third leg of Phase I in the cooperative program with the Peoples' Republic of China. Approximately 700 nautical miles of single-channel seismic data and 1275 nautical miles of 3-channel seismic data were collected. All of the 3-channel and 375 miles of the single-channel data were digitally recorded. A total of 58 sonobuoys were recorded. Continuous topography, magnetics and gravity were collected along the track (Figure 1). Contract 439-5097-5973

Program supported by what contract: _____

Participants: (All L-DGO unless otherwise specified)

<u>Name</u>	<u>Title</u>	
M. Talwani	Chief Scientist	L-DGO
R. Leyden	Co-chief Scientist	"
H. Van Santford	E. Eng.	"
P. Woodroffe	E.T.	"
R. Rossler	E.T.	"
S. Hudson	Res. Asst.	"
D. Medlicott	Computer Prog.	"
P. Belknap	Computer Op.	"
A. Hazelman	Mech. Tech	"
H. Smith	Mech. Tech.	"
Li Zhen Wu	Geophysicist	PRC
Qian Yi Peng	Geophysicist	PRC

All inquiries regarding cruise should be made to the chief scientist.

On departure from Hong Kong February 9, VEMA first proceeded up the Pearl River to Canton. Purposes of the Canton stop were to discuss the cooperative program with Chinese scientists, to unload portions of V-3606 cores and to visit the Chinese vessel to be used in a future phase of our continuing cooperative program.

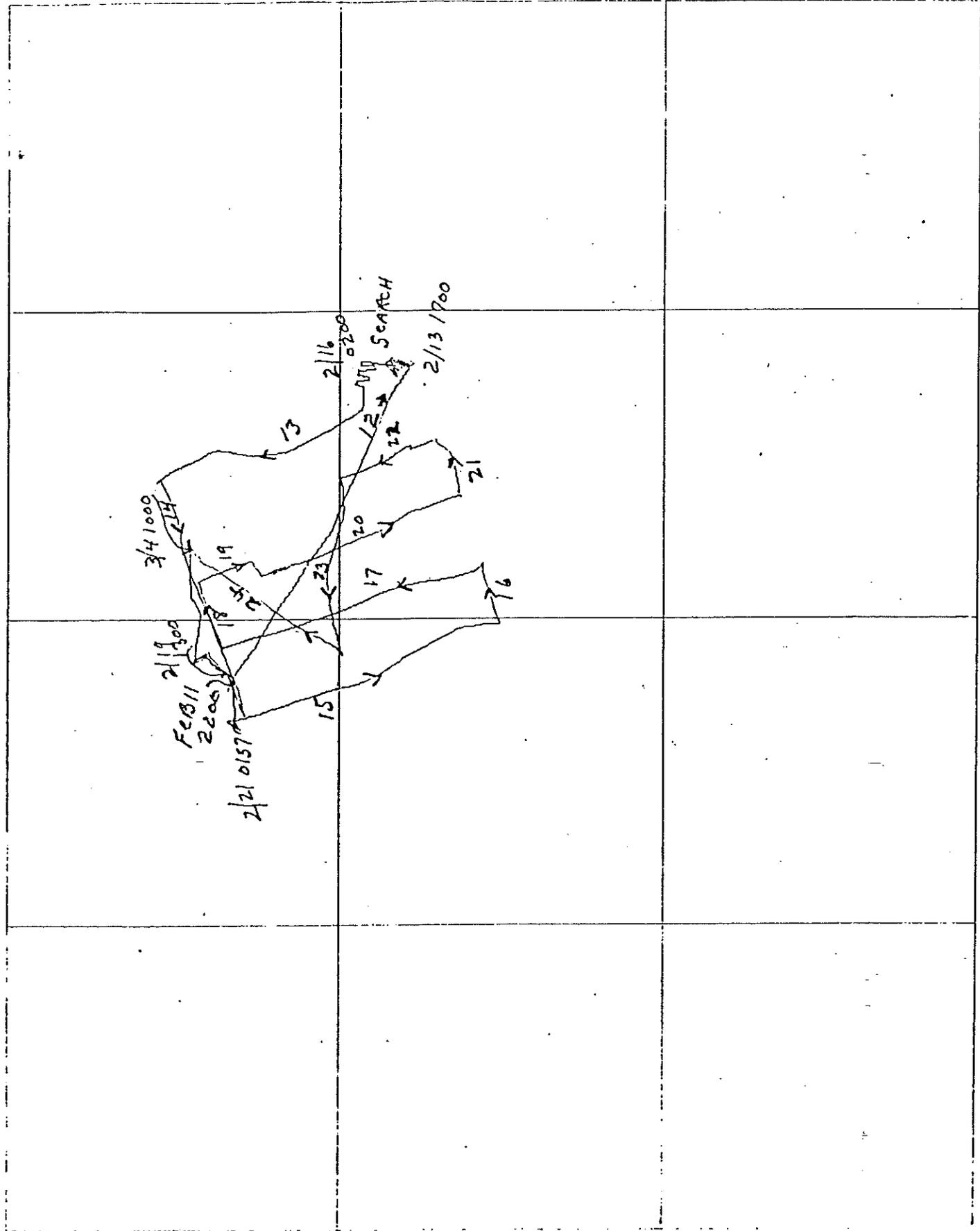
VEMA departed for the operating area directly from Canton (Line 12) and arrived at the Southeastern end of the survey area to commence 12-channel MCS work at 1700 GMT February 13. The Northeast monsoons caused considerable delay in transit to the starting point and weather further deteriorated while deploying the streamer and air guns. After deployment VEMA was turned from heading into the sea to a heading into the trough for the first MCS line. The streamer depth transducer indicators on the ship showed erratic readings and reflection returns showed only noise after approximately 15 minutes of recording. VEMA was turned back into the sea for streamer recovery. Only the cable, head section and first stretch section were recovered. A search was conducted for the next two days in the immediate area of the loss and to the north and west. After abandoning the search a Lamont single-channel streamer was deployed and two lines 13 and 14 were digitally recorded enroute back to Hong Kong.

Dr. Talwani departed the ship in Hong Kong February 19. While in the harbor a three-channel streamer was put together from spares available. Lines 15-24 Figure 1. were recorded digitally with the three-channel streamer from February 21 to March 4 using two large volume bolt guns as the noise source.

Continuous magnetics, gravity and topography were recorded along all lines shown in Figure 1. Computer drawn plots of these geophysical data plus shot point navigation were completed on board. Copies of the preliminary plots were presented to the Chinese participants in Hong Kong at the end of V-3608. Copies were distributed to the U.S. participants at an April 3 meeting at Lamont. The V-3608 digitally recorded seismic data has not yet been processed.

The V-3608 lines were laid out as fill lines between the original planned survey lines. The remaining planned lines will eventually be run when a new replacement streamer becomes available.

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115 120 125