



Cruise: 7TOW08WT

Begin date (dd/mm/yyyy): 27/07/1970 End date: 17/08/1970

Data collected (# points): mtot: 4512 manm: 4512

File: 7TOW08WT.gmt

Cruise level information

cruise-id::7TOW08WT
cruise-name::SEVEN TOW LEG 8
cruise-narrative::Deep Tow Survey from Astoria to Adak
science-themes::Marine Geophysics
scientific-party-equipment::deep tow insturment

cruise-start-date::1970-07-26
cruise-start-port::ADAK,ALASKA
latitude-start::51.4474
longitude-start::183.13199
cruise-end-date::1970-08-17
cruise-end-port::ASTORIA, OREGON
latitude-end::46.2459
longitude-end::235.19069

latitude-minimum::46.24590
longitude-minimum::183.13199
latitude-maximum::51.90580
longitude-maximum::235.19069

data-corrected-for-ship-draft::YES
data-corrected-for-tides::NO
data-types::magnetic_field magnetic_anomaly seismic_reflection

pi-city-state-zip::La Jolla, CA 92093-0205
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SIO Log weekly reports
Seven Tow Expedition Leg 08

WASHINGTON - 7-TOW EXPEDITION - Dr. F. N. Spiess, MPL, Scientist-in-Charge, 7/27-8/18/70. In Port Astoria, Oregon 8/18-21/70. 121750Z - August '70. Completed 100 kilometer tow across anomaly ten at 49 30 north magnetics observed near bottom have about same length scale as at latitude 32 north. Notch in middle of anomaly is 3 KM wide and 2000 gammas deep indicating short duration field reversal. Proceeding to latitude 48 north for second long tow and completion of scientific work this leg. Sun shone on the Washington briefly yesterday for the first time since Adak, July 25.
F.N. Spiess

WASHINGTON - 7-TOW EXPEDITION - Dr. F. N. Spiess, MPL, Scientist-in-Charge, 7/27 - 8/18/70. 052228Z August 70. Have towed successfully in Aleutian Trench. Over 80 hours of towing near dea floor with transponder navigation 3 KHZ sounder, side-looking sonar and magnetometer. Maximum operating depth 7360 meters in 7380 meter water depth. Long profile down south wall across floor and up north side plus intensive survey of small linear ridge in trench floor near north wall. Steep but smooth topography with no evidence of faulting or folding. Large number of side looking sonar features available for speculation. Two good coring tries on ridge without penetration. No simple obvious relationship of shallow structures to sea floor spreading model. Now recovering transponders and will complete work on this station today and depart for 50 north 140 west to look at fine scale magnetic patterns on anomaly ten.

WASHINGTON - 7-TOW EXPEDITION - Dr. F.N. Spiess, MPL, Scientist-in-Charge, 7/27 - 8/19/70.

MGD77 file information			
47TOW08WTMGD77	3511320030627	SCRIPPS INSTITUTION OF OCEANOGRAPHY	01
USA	R/V THOMAS WASHINGTON	SHIP SPIESS F.	02
SEVEN TOW LEG 8			03
19700726	ADAK, ALASKA	19700817	ASTORIA, OREGON
SATNAV, AUTOLOG GYRO + EMLOG		LINEAR INTERP. BETWEEN ADJACENT FIXES	04
12KHZ/GIFFT RECORDER/WIDE(60DEG)BEAM		ANALOGUE RECORDS	05
VARIAN MFD PROTON PRECESSION MOD 4970		ANAL.RECORDS,CARDS	06
			07
			08
40CU.IN.AIRGUN,10-300HZ,PDR MK 10 REC.		ANAL.RECORDS,35MM MICROFILM	09
A(I1,A8,I3,I4,3I2,F5.3,F8.5,F9.5,I1,F6.4,F6.1,I2,I1,3F6.1,I1,F5.1,F6.0,			10
F7.1,F6.1,F5.1,A5,A6,I1)			11
0001SECONDSWEEP1463000			12
05006	03IGRF 1965	LIN.INTERP.AT 30DEG C/C OR 500MI ALONG TRACK	13
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