



**Cruise: 7TOW10WT**

Begin date (dd/mm/yyyy): 16/09/1970 End date: 24/09/1970

Data collected (# points): mtot: 733 manm: 733

File: 7TOW10WT.gmt

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Cruise level information  
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cruise-id::7TOW10WT  
cruise-name::SEVEN TOW LEG 10  
cruise-narrative::Deep Tow studies off San Diego coast  
science-themes::Marine Geophysics  
scientific-party-equipment::deep tow instrument  
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cruise-start-date::1970-09-15  
cruise-start-port::EUREKA,CALIFORNIA  
latitude-start::42.0266  
longitude-start::235.15521  
cruise-end-date::1970-09-25  
cruise-end-port::SAN DIEGO,CALIFORNIA  
latitude-end::34.1449  
longitude-end::238.76841  
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latitude-minimum::34.14490  
longitude-minimum::234.73120  
latitude-maximum::42.02660  
longitude-maximum::238.76841  
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data-corrected-for-ship-draft::YES  
data-corrected-for-tides::NO  
data-types::magnetic\_field magnetic\_anomaly seismic\_reflection  
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pi-city-state-zip::La Jolla, CA 92093-0205  
pi-email::fspiess@ucsd.edu  
pi-fax::(858) 534-6849  
pi-institution::Scripps Institution of Oceanography  
pi-name::Spiess, Fred  
pi-phone::(858) 534-1621  
pi-street-address::9500 Gilman Drive, Mail Code: 0205  
pi-title::Research Professor of Oceanography, Emeritus  
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SIO Log weekly reports  
Seven Tow Expedition Leg 10

THOMAS WASHINGTON - 7-TOW EXPEDITION - Final Leg. 8/21/70 - 9/25/70. Report September 231530Z: Now recovering transponders following highly successful evaluation of side looking sonar for sea floor object location. Scuttled submarine on outer Monterey fan was test target. Using three transponder navigation made fourteen passes, all with positive contact at various distances and orientations relative to identity. In same area on fan mapped unexpected family of linear sea floor features. Average length one mile with orientation east west and relief less than five meters. Two long tows on middle fan across Monterey and ascension valleys showed sand deposition restricted to vally floors and levee crests. Undulating surfaces on back sides of levees not due to overflow channels. Ascension Valley floor cut by deep erosional channels but uniform layer of sediment over entire valley confirms systems inactivity. Expect to do free fall coring on fan Wednesday night and arrive San Diego Friday morning completing very satisfying eight-month EXPEDITION SEVEN-TOW. Confirmed ETA 25 September 1230 PDT.

Spieß

MGD77 file information			
47TOW10WTMGD77	3511320030627	SCRIPPS INSTITUTION OF OCEANOGRAPHY	01
USA	R/V THOMAS WASHINGTON	SHIP SPIESS F.	02
SEVEN TOW LEG 10			03
19700915EUREKA,CALIFORNIA	19700925	SAN DIEGO,CALIFORNIA	04
SATNAV,AUTOLOG GYRO + EMLOG		LINEAR INTERP.BETWEEN ADJACENT FIXES	05
12KHZ/GIFFT RECORDER/WIDE(60DEG)BEAM		ANALOGUE RECORDS	06
VARIAN MFD PROTON PRECESSION MOD 4970		ANAL.RECORDS,CARDS	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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