



**Cruise: TSDY04WT**

Begin date (dd/mm/yyyy): 10/08/1973 End date: 09/09/1973

Data collected (# points): twtt: 5536 tcor: 5536

File: TSDY04WT.gmtd

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Cruise level information  
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cruise-id::TSDY04WT  
cruise-name::TASADAY LEG 4  
cruise-narrative::Mission is to study the flow of the Kuroshio Current over the Izu Ridge. The ridge presents a major topographic obstacle to flow.  
science-themes::Chemical Oceanography, Physical Oceanography  
scientific-party-equipment::NANSEN BOTTLE HYDROGRAPHIC CAST, SALINITY TEMPERATURE DEPTH, THERMOGRAPH, SURFACE SAMPLE - SALINITY (DISPS. SVA(XBT ONLY) DCP(OTHERS)), TOWED VEHICLE TURBULENT FLUX RECORDER, ANCHORED BOTTOM CURRENT MEASUREMENT, DROGUE CURRENT MEASUREMENT

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cruise-start-date::1973-08-10  
cruise-start-port::YOKOHAMA  
latitude-start::34.9666  
longitude-start::139.5  
cruise-end-date::1973-09-10  
cruise-end-port::YOKOHAMA  
latitude-end::34.7011  
longitude-end::139.76429

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latitude-minimum::31.41620  
longitude-minimum::136.45181  
latitude-maximum::34.97830  
longitude-maximum::140.96499

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data-corrected-for-ship-draft::YES  
data-corrected-for-tides::NO  
data-types::depth\_sec

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pi-city-state-zip::Seattle,WA 98115-0070  
pi-email::taft@pmel.noaa.gov  
pi-fax::206-526-6744  
pi-institution::NOAA/Pacific Marine Environmental Laboratory  
pi-name::Taft, Bruce A.  
pi-phone::206-526-4146  
pi-street-address::NOAA Building 3, Bin C15700, 7600 Sand Point Way NE  
pi-title::Retired  
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SIO Log weekly reports  
Tasaday Expedition Leg 04

Thomas Washington 192210Z Aug 73. Kuroshio in northern position south of Kozu Shima. XBT surveys show broadening of near-surface current over Izu Ridge followed by intensification of current east of ridge. Sixteen current meters deployed to measure flow in 1000 to 1500 M later in vicinity of ridge. Hydrographic casts now being made to provide data on distributions of oxygen phosphate and silicate and to compute geotrophic velocity shear above meter. Weather good but everyone watches movement of Western Pacific typhoons with great interest. Taft.

Thomas Washington 271045Z Aug 73. Finished first survey of density field over Izu Ridge. Relative to bottom flow is eastward across ridge in three gaps being surveyed. Our current meters appear to have been placed in good locations. Kuroshio position stationary so far which should simplify interpretation of deep flow. One day stop at Hachijojima for exchange of personnel and recreation. Turbulence group towed instrument for shake down. Taft

MGD77 file information			
4TSDY04WTMGD77	5111120030711	SCRIPPS INSTITUTION OF OCEANOGRAPHY	01
USA	R/V THOMAS WASHINGTON	SHIP TAFT B.	02
TASADAY LEG 4			03
19730810YOKOHAMA	19730910YOKOHAMA		04
SATNAV,AUTOLOG GYRO + EMLOG		LINEAR INTERP.BETWEEN ADJACENT FIXES	05
12KHZ/GIFFT RECORDER/WIDE(60DEG)BEAM		ANAL.RECORDS,CARDS,35MMFILM	06
			07
			08
			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
0501SECONDSWEEP14630005 MINUTE INTERVAL			12
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