

# Euphotic zone depths from R/V Thomas G. Thompson TT043, TT045, TT049, TT050, TT053, TT054 cruises in the Arabian Sea in 1995 (U.S. JGOFS Arabian Sea project)

**Website:** <https://www.bco-dmo.org/dataset/2588>

**Version:** August 18, 1997

**Version Date:** 1997-08-18

## Project

» [U.S. JGOFS Arabian Sea](#) (Arabian Sea)

## Program

» [U.S. Joint Global Ocean Flux Study](#) (U.S. JGOFS)

Contributors	Affiliation	Role
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## Dataset Description

Euphotic zone depths

## Methods & Sampling

See Platform deployments for cruise specific documentation

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## Data Files

File
<b>euphotic_zone.csv</b> (Comma Separated Values (.csv), 1.12 KB) MD5:bdc96b3172ba4be81f4acfd684b8524
Primary data file for dataset ID 2588

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## Parameters

Parameter	Description	Units
cruise	Arabian Sea, Thomas Thompson cruise identifier	
sta_std	Arabian Sea standard station identifier	
date	date of sampling	YYYYMMDD
k	diffuse attenuation coefficient for irradiance in the water column	per meter
euphotic	depth at which light is 1 percent of surface incident radiation	meters

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## Deployments

### TT043

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57704">https://www.bco-dmo.org/deployment/57704</a>
<b>Platform</b>	R/V Thomas G. Thompson
<b>Report</b>	<a href="http://osprey.bcodmo.org/datasetDeployment.cfm?ddid=2580&amp;did=353&amp;flag=view">http://osprey.bcodmo.org/datasetDeployment.cfm?ddid=2580&amp;did=353&amp;flag=view</a>
<b>Start Date</b>	1995-01-08
<b>End Date</b>	1995-02-05
<b>Description</b>	<p>Purpose: Process Cruise #1 (Late NE Monsoon)</p> <p><b>Methods &amp; Sampling</b></p> <p>PI: John Marra of: Lamont-Doherty Earth Observatory dataset: Euphotic zone depths dates: January 12, 1995 to January 30, 1995 location: N: 22.4830 S: 9.9826 W: 57.2999 E: 68.7500 project/cruise: Arabian Sea/TTN043 ship: Thomas Thompson</p>

### TT045

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57706">https://www.bco-dmo.org/deployment/57706</a>
<b>Platform</b>	R/V Thomas G. Thompson
<b>Start Date</b>	1995-03-14
<b>End Date</b>	1995-04-10
<b>Description</b>	<p><b>Methods &amp; Sampling</b></p> <p>PI: John Marra of: Lamont-Doherty Earth Observatory dataset: Euphotic zone depths dates: March 19, 1995 to April 4, 1995 location: N: 22.4858 S: 9.9993 W: 57.3007 E: 68.7532 project/cruise: Arabian Sea/TTN045 ship: Thomas Thompson</p>

### TT049

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57710">https://www.bco-dmo.org/deployment/57710</a>
<b>Platform</b>	R/V Thomas G. Thompson
<b>Start Date</b>	1995-07-17
<b>End Date</b>	1995-08-15
<b>Description</b>	<b>Methods &amp; Sampling</b> PI: John Marra of: Lamont-Doherty Earth Observatory dataset: Euphotic zone depths dates: July 22, 1995 to August 12, 1995 location: N: 22.5268 S: 9.911 W: 57.2997 E: 68.7507 project/cruise: Arabian Sea/TTN049 ship: Thomas Thompson

#### TT050

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57711">https://www.bco-dmo.org/deployment/57711</a>
<b>Platform</b>	R/V Thomas G. Thompson
<b>Start Date</b>	1995-08-18
<b>End Date</b>	1995-09-15
<b>Description</b>	<b>Methods &amp; Sampling</b> PI: John Marra of: Lamont-Doherty Earth Observatory dataset: Euphotic zone depths dates: August 23, 1995 to September 11, 1995 location: N: 22.4998 S: 9.9125 W: 57.3004 E: 68.7527 project/cruise: Arabian Sea/TTN050 ship: Thomas Thompson

#### TT053

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57714">https://www.bco-dmo.org/deployment/57714</a>
<b>Platform</b>	R/V Thomas G. Thompson
<b>Start Date</b>	1995-10-29
<b>End Date</b>	1995-11-26
<b>Description</b>	<b>Methods &amp; Sampling</b> PI: John Marra of: Lamont-Doherty Earth Observatory dataset: Euphotic zone depths dates: November 6, 1995 to November 18, 1995 location: N: 24.3329 S: 10.0823 W: 56.4858 E: 67.1784 project/cruise: Arabian Sea/TTN053 ship: Thomas Thompson

#### TT054

<b>Website</b>	<a href="https://www.bco-dmo.org/deployment/57715">https://www.bco-dmo.org/deployment/57715</a>
<b>Platform</b>	R/V Thomas G. Thompson
<b>Start Date</b>	1995-11-30
<b>End Date</b>	1995-12-28
<b>Description</b>	<b>Methods &amp; Sampling</b> PI: John Marra of: Lamont-Doherty Earth Observatory dataset: Euphotic zone depths dates: December 5, 1995 to December 24, 1995 location: N: 22.5171 S: 9.9673 W: 57.2992 E: 68.7849 project/cruise: Arabian Sea/TTN054 ship: Thomas Thompson

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## Project Information

U.S. JGOFS Arabian Sea (Arabian Sea)

**Website:** <http://usjgofs.whoi.edu/research/arabian.html>

**Coverage:** Arabian Sea

The U.S. Arabian Sea Expedition which began in September 1994 and ended in January 1996, had three major components: a U.S. JGOFS Process Study, supported by the National Science Foundation (NSF); Forced Upper Ocean Dynamics, an Office of Naval Research (ONR) initiative; and shipboard and aircraft measurements supported by the National Aeronautics and Space Administration (NASA). The Expedition consisted of 17 cruises aboard the R/V Thomas Thompson, year-long moored deployments of five instrumented surface buoys and five sediment-trap arrays, aircraft overflights and satellite observations. Of the seventeen ship cruises, six were allocated to repeat process survey cruises, four to SeaSoar mapping cruises, six to mooring and benthic work, and a single calibration cruise which was essentially conducted in transit to the Arabian Sea.

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## Program Information

### U.S. Joint Global Ocean Flux Study (U.S. JGOFS)

**Website:** <http://usjgofs.whoi.edu/>

**Coverage:** Global

The United States Joint Global Ocean Flux Study was a national component of international JGOFS and an integral part of global climate change research.

The U.S. launched the Joint Global Ocean Flux Study (JGOFS) in the late 1980s to study the ocean carbon cycle. An ambitious goal was set to understand the controls on the concentrations and fluxes of carbon and associated nutrients in the ocean. A new field of ocean biogeochemistry emerged with an emphasis on quality measurements of carbon system parameters and interdisciplinary field studies of the biological, chemical and physical process which control the ocean carbon cycle. As we studied ocean biogeochemistry, we learned that our simple views of carbon uptake and transport were severely limited, and a new "wave" of ocean science was born. U.S. JGOFS has been supported primarily by the U.S. National Science Foundation in collaboration with the National Oceanic and Atmospheric Administration, the National Aeronautics and Space Administration, the Department of Energy and the Office of Naval Research. U.S. JGOFS, ended in 2005 with the conclusion of the Synthesis and Modeling Project (SMP).

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## Funding

Funding Source	Award
Office of Naval Research (ONR)	<a href="#">unknown Arabian Sea ONR</a>

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