

Standard station location and cast distance tables 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/2597>

Version: July 22, 1997

Version Date: 1997-07-22

Project

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

Program

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

Contributors	Affiliation	Role
Codispoti, Louis A.	Old Dominion University (ODU)	Principal Investigator
Gaurin, Steve	Old Dominion University (ODU)	Co-Principal Investigator
Chandler, Cynthia L.	Woods Hole Oceanographic Institution (WHOI BCO-DMO)	BCO-DMO Data Manager

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Dataset Description

Standard station location and cast distance tables

Methods & Sampling

See Platform deployments for cruise specific documentation

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Data Files

File
sta_std_AS.csv (Comma Separated Values (.csv), 27.09 KB) MD5:def5ff67cb22640ac519e3a4239659d6
Primary data file for dataset ID 2597

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Parameters

Parameter	Description	Units
sta_std	standard station number	
lat	latitude North	decimal degrees
lon	longitude East	decimal degrees
depth_ocean	depth of the ocean at the station	meters
cruise	Thompson cruise number	
sta	station number	
cast	cast number	
distance	distance from standard station	decimal kilometers

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Deployments

TT043

Website	https://www.bco-dmo.org/deployment/57704
Platform	R/V Thomas G. Thompson
Report	http://osprey.bcodmo.org/datasetDeployment.cfm?ddid=2580&did=353&flag=view
Start Date	1995-01-08
End Date	1995-02-05
Description	<p>Purpose: Process Cruise #1 (Late NE Monsoon)</p> <p>Methods & Sampling</p> <p>PI: Lou Codispoti and Steve Gaurin of: Old Dominion University dataset: Standard station location and cast distance tables dates: January 8, 1995 to February 1, 1995 location: N: 22.5 S: 10 W: 57.3 E: 68.75 project: Arabian Sea/TTN043 - Process Cruise 1 (Late NE Monsoon) ship: R/V Thomas G. Thompson This data set consists of Arabian Sea Standard Station locations, as agreed upon in August, 1996 at the First Arabian Sea Data Workshop, Durham, NH. Also given are all casts whose locations were within 20 kilometers of each standard station, listed with appropriate cruise indicator. May 1998 Note: Steve Gaurin reminds us: "the cast location data includes hydrographic casts only; trace metal and other casts are not listed." These standard station location and cast distance tables were generated by an IDL program which reads each cast's ".pos" file and employs a great circle distance calculator to find the standard location to which the cast was closest, within a maximum distance of 20 km. The program was modeled after code written by Steve Mitchell at Advanced Technology Information Network, California State University at Fresno. His great circle distance calculator and a listing of the C code are available upon request. The results of the program have been compared to a Garmin GPS unit and have been found to be reliable. Please use these tables and distribute them freely. If you have any questions, contact Steve Gaurin, who works under the direction of Lou Codispoti: Steve Gaurin Horn Point Laboratory UMCES-Horn Point Lab P.O. Box 775 2020 Horns Point Road Cambridge, MD 21613 USA e-mail: sgaurin@hpl.umces.edu phone: 410-221-8209 (w) 410-221-8490 (f)</p>

TT045

Website	https://www.bco-dmo.org/deployment/57706
Platform	R/V Thomas G. Thompson
Start Date	1995-03-14
End Date	1995-04-10
Description	<p>Methods & Sampling PI: Lou Codispoti and Steve Gaurin of: Old Dominion University dataset: Standard station location and cast distance tables dates: March 14, 1995 to April 08, 1995 location: N: 22.5 S: 10 W: 57.3 E: 68.75 project: TTN-045 Process Cruise 2 (Spring Intermonsoon) ship: R/V Thomas G. Thompson This data set consists of Arabian Sea Standard Station locations, as agreed upon in August, 1996 at the First Arabian Sea Data Workshop, Durham, NH. Also given are all casts whose locations were within 20 kilometers of each standard station, listed with appropriate cruise indicator. May 1998 Note: Steve Gaurin reminds us: "the cast location data includes hydrographic casts only; trace metal and other casts are not listed." These standard station location and cast distance tables were generated by an IDL program which reads each cast's ".pos" file and employs a great circle distance calculator to find the standard location to which the cast was closest, within a maximum distance of 20 km. The program was modeled after code written by Steve Mitchell at Advanced Technology Information Network, California State University at Fresno. His great circle distance calculator and a listing of the C code are available upon request. The results of the program have been compared to a Garmin GPS unit and have been found to be reliable. Please use these tables and distribute them freely. If you have any questions, contact Steve Gaurin, who works under the direction of Lou Codispoti: Steve Gaurin Horn Point Laboratory UMCES-Horn Point Lab P.O. Box 775 2020 Horns Point Road Cambridge , MD 21613 USA e-mail: sgaurin@hpl.umces.edu phone: 410-221-8209 (w) 410-221-8490 (f)</p>

TT049

Website	https://www.bco-dmo.org/deployment/57710
Platform	R/V Thomas G. Thompson
Start Date	1995-07-17
End Date	1995-08-15
Description	<p>Methods & Sampling PI: Lou Codispoti and Steve Gaurin of: Old Dominion University dataset: Standard station location and cast distance tables dates: July 17, 1995 to August 15, 1995 location: N: 22.5 S: 10 W: 57.3 E: 68.75 project: Arabian Sea / TTN-049 Process Cruise #4 (Middle SW Monsoon) ship: R/V Thomas G. Thompson This data set consists of Arabian Sea Standard Station locations, as agreed upon in August, 1996 at the First Arabian Sea Data Workshop, Durham, NH. Also given are all casts whose locations were within 20 kilometers of each standard station, listed with appropriate cruise indicator. May 1998 Note: Steve Gaurin reminds us: "the cast location data includes hydrographic casts only; trace metal and other casts are not listed." These standard station location and cast distance tables were generated by an IDL program which reads each cast's ".pos" file and employs a great circle distance calculator to find the standard location to which the cast was closest, within a maximum distance of 20 km. The program was modeled after code written by Steve Mitchell at Advanced Technology Information Network, California State University at Fresno. His great circle distance calculator and a listing of the C code are available upon request. The results of the program have been compared to a Garmin GPS unit and have been found to be reliable. Please use these tables and distribute them freely. If you have any questions, contact Steve Gaurin, who works under the direction of Lou Codispoti: Steve Gaurin Horn Point Laboratory UMCES-Horn Point Lab P.O. Box 775 2020 Horns Point Road Cambridge , MD 21613 USA e-mail: sgaurin@hpl.umces.edu phone: 410-221-8209 (w) 410-221-8490 (f)</p>

TT050

Website	https://www.bco-dmo.org/deployment/57711
Platform	R/V Thomas G. Thompson
Start Date	1995-08-18
End Date	1995-09-15
Description	<p>Methods & Sampling PI: Lou Codispoti and Steve Gaurin of: Old Dominion University dataset: Standard station location and cast distance tables dates: August 18, 1995 to September 15, 1995 location: N: 22.5 S: 10 W: 57.3 E: 68.75 project: Arabian Sea / TTN-050 Process Cruise #5 (Late SW Monsoon) ship: R/V Thomas G. Thompson This data set consists of Arabian Sea Standard Station locations, as agreed upon in August, 1996 at the First Arabian Sea Data Workshop, Durham, NH. Also given are all casts whose locations were within 20 kilometers of each standard station, listed with appropriate cruise indicator. May 1998 Note: Steve Gaurin reminds us: "the cast location data includes hydrographic casts only; trace metal and other casts are not listed." These standard station location and cast distance tables were generated by an IDL program which reads each cast's ".pos" file and employs a great circle distance calculator to find the standard location to which the cast was closest, within a maximum distance of 20 km. The program was modeled after code written by Steve Mitchell at Advanced Technology Information Network, California State University at Fresno. His great circle distance calculator and a listing of the C code are available upon request. The results of the program have been compared to a Garmin GPS unit and have been found to be reliable. Please use these tables and distribute them freely. If you have any questions, contact Steve Gaurin, who works under the direction of Lou Codispoti: Steve Gaurin Horn Point Laboratory UMCES-Horn Point Lab P.O. Box 775 2020 Horns Point Road Cambridge, MD 21613 USA e-mail: sgaurin@hpl.umces.edu phone: 410-221-8209 (w) 410-221-8490 (f)</p>

TT053

Website	https://www.bco-dmo.org/deployment/57714
Platform	R/V Thomas G. Thompson
Start Date	1995-10-29
End Date	1995-11-26
Description	<p>Methods & Sampling PI: Lou Codispoti and Steve Gaurin of: Old Dominion University dataset: Standard station location and cast distance tables dates: October 29, 1995 to November 26, 1995 location: N: 22.5 S: 10 W: 57.3 E: 68.75 project: Arabian Sea / TTN-053 Process Cruise 6 (bio-optics) ship: R/V Thomas G. Thompson This data set consists of Arabian Sea Standard Station locations, as agreed upon in August, 1996 at the First Arabian Sea Data Workshop, Durham, NH. Also given are all casts whose locations were within 20 kilometers of each standard station, listed with appropriate cruise indicator. May 1998 Note: Steve Gaurin reminds us: "the cast location data includes hydrographic casts only; trace metal and other casts are not listed." These standard station location and cast distance tables were generated by an IDL program which reads each cast's ".pos" file and employs a great circle distance calculator to find the standard location to which the cast was closest, within a maximum distance of 20 km. The program was modeled after code written by Steve Mitchell at Advanced Technology Information Network, California State University at Fresno. His great circle distance calculator and a listing of the C code are available upon request. The results of the program have been compared to a Garmin GPS unit and have been found to be reliable. Please use these tables and distribute them freely. If you have any questions, contact Steve Gaurin, who works under the direction of Lou Codispoti: Steve Gaurin Horn Point Laboratory UMCES-Horn Point Lab P.O. Box 775 2020 Horns Point Road Cambridge, MD 21613 USA e-mail: sgaurin@hpl.umces.edu phone: 410-221-8209 (w) 410-221-8490 (f)</p>

TT054

Website	https://www.bco-dmo.org/deployment/57715
Platform	R/V Thomas G. Thompson
Start Date	1995-11-30
End Date	1995-12-28
Description	<p>Methods & Sampling PI: Lou Codispoti and Steve Gaurin of: Old Dominion University dataset: Standard station location and cast distance tables dates: November 30, 1995 to December 28, 1995 location: N: 22.5 S: 10 W: 57.3 E: 68.75 project: Arabian Sea TTN-054 Process Cruise #7 (Early NE Monsoon) ship: R/V Thomas G. Thompson This data set consists of Arabian Sea Standard Station locations, as agreed upon in August, 1996 at the First Arabian Sea Data Workshop, Durham, NH. Also given are all casts whose locations were within 20 kilometers of each standard station, listed with appropriate cruise indicator. May 1998 Note: Steve Gaurin reminds us: "the cast location data includes hydrographic casts only; trace metal and other casts are not listed." These standard station location and cast distance tables were generated by an IDL program which reads each cast's ".pos" file and employs a great circle distance calculator to find the standard location to which the cast was closest, within a maximum distance of 20 km. The program was modeled after code written by Steve Mitchell at Advanced Technology Information Network, California State University at Fresno. His great circle distance calculator and a listing of the C code are available upon request. The results of the program have been compared to a Garmin GPS unit and have been found to be reliable. Please use these tables and distribute them freely. If you have any questions, contact Steve Gaurin, who works under the direction of Lou Codispoti: Steve Gaurin Horn Point Laboratory UMCES-Horn Point Lab P.O. Box 775 2020 Horns Point Road Cambridge, MD 21613 USA e-mail: sgaurin@hpl.umces.edu phone: 410-221-8209 (w) 410-221-8490 (f)</p>

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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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