

Towards Improved Estimates of Ocean Heat Flux (TIE-OHF) *Project Overview*

Project Objectives

Evaluation, Determination, and Analysis of the heat Flux Components over the global Ocean.

- Assessment of the quality of EO data
- Investigation of bulk parameterizations
- Characterization of the uncertainties of bulk variables and of the associated fluxes
- Determination of accurate EO input datasets
- Development of web portal

TIE-OHF /Project Overview

Work Packages

- **WP1 : Project Management and Communication**
- **WP2 : Scientific Requirements Consolidation**
- **WP3 : Reference Data Set Generation**
- **WP4: Product Generation, Inter-Comparison and Uncertainty Characterizations**
- **WP5 : Data Portal Development**
- **WP6 : Strategic Development**



TIE-OHF /Project Overview

Consortium

Organization	Country	Partners
IFREMER	France	A. Bentamy; B. Chapron; J.F. Piollé; F. Paul; C. B. Montégut
NERSC	Norway	J. Johannessen ; R. Danielson ; I. Esau
PML	U.K	S. Sathyendranath ; T. Platt ; <u>H. Eversking</u>
M I O	France	K. von Schuckmann
WHOI/SeaFlux	USA	C. A. Clayson
IORAS	Russia	S. Gulev
DWD	Germany	Axel Andersson, Rainer Hollmann
Univ. Reading	U.K	Keith Haines, Maria Valdivieso, Chris Merchant
Univ Maryland	USA	R. Pinker, S. Grodsky
COAPS/FSU	USA	<u>M. Bourassa</u>
NOC	UK	<u>S. Josey</u>

Highlights

- July 2014 Organization of the project Kick-Off meeting. It held at ESA/ESRIN Italy, on 7 July 2014.
- July 2014: The Kick-Off minutes was distributed to all TIE-OHF partners on 15 July 2014(See document).
- August 2014: documents describing the project management details were distributed to all partners (See documents).
- August 2014: Organization of a second meeting aiming at the clarification of the partner responsibilities with respect to the project tasks and objectives. It was audio meeting and held on 2 September 2014. ESA, Ifremer, MIO, PML, NERSC, IOARAS attended the meeting.
- August 2014: TIE-OHF contract was signed by IFREMER on 21 August 2014 and sent to ESA.
- August 2014: Setting up of a preliminary version of the TIE-OHF portal (See <http://oceanheatflux.cersat.fr/>). It has been shared with partners for comments and further inputs and improvements.
- September 2014: Update of the Kik-Off MoM. The latter includes tables highlighting the responsibility of each partner according to the project work packages and tasks. The document was sent to all partners on 8 September 2014 (See document)
- September 2014: First Quarterly report

Highlights

- Organization of an audio meeting holding on 17th October 2014
- Available flux data were collected and archived. FTP access was sent to TIE-OHF partners. Data are from IFREMER V3, HOAPS, AOFlux, SeaFlux V1, J-OFURO , ERA Interim , CFSR, and NOCS2
- Collection of the latest SSM/I calibrated brightness temperatures from Colorado university
- Development and validation of the method aiming at the calculation of new IFREMER analyses data set (V4) of daily latent and sensible heat fluxes over global oceans.
- Collection of reference data required for the validation and determination of uncertainty characteristics of flux products. More than of 190 moorings are collected and collocated with products. Flux measurements are also collected from dedicated scientific campaigns.
- Organization of an audio meeting holding on 16th December 2014
- Setting up contracts between Ifremer and PML, MIO, and NERSC
- Setting up a contract for Sergey Gulev
- Working on a contract for Carol Anne Clayson.
- Providing Second Quarterly report



Highlights

- **Setting up a doodle survey (17 December 2014) for a meeting in IFREMER Paris according to partner decision of 16 December 2014**
- **Mails sent on 22 December, 4 , 7 , and 14 January 2015**

Sondage "TIE-OHF 2015 Meeting"

<http://doodle.com/5cvay9iu9m6ws5fh>

	janvier 2015				février 2015			
	lun. 26	mar. 27	mer. 28	jeu. 29	lun. 2	mar. 3	mer. 4	jeu. 5
Karina von Schuckmann	OK	OK	OK				OK	OK
Carol Anne Clayson	OK	OK			OK	OK	OK	OK
Mark Bourassa	OK	OK	OK					
Abderrahim	OK	OK	OK	OK	OK	OK	OK	OK
Antoine Grouazel	OK	OK	OK	OK	OK	OK	OK	OK
JF Piollé	OK	OK	OK	OK				
Maria Valdivieso					OK	OK	OK	OK
Axel Andersson	OK			OK	OK	OK	OK	OK
bchapron	OK	OK	OK					
Sergey Gulev					OK	OK	OK	OK
Johnny	OK	OK	OK					
Senya Grodsky	OK	OK	OK	OK	OK	OK	OK	OK
Rachel Pinker	OK	OK	OK	OK	OK	OK	OK	OK
Rick Danielson	OK	OK	OK	OK				
Nombre	12	11	10	7	8	8	9	9

Meeting Objectives

		K0		+3		+6		+9		+12		+15		+18		+21		+24		
WP1		[Shaded]																		
	WP11	[Shaded]																		
	WP12																			
	WP13	[Shaded]																		
	WP14																			
	WP15	[Shaded]																		
	WP16	[Shaded]																		
	WP17	[Shaded]																		
	WP18																			
	WP19	[Shaded]																		
	WP110	[Shaded]																		
WP2		[Shaded]																		
	WP21	[Shaded]																		
	WP22	[Shaded]																		
	WP23	[Shaded]																		
	WP24																			
	WP25	[Shaded]																		
	WP26	[Shaded]																		
	WP27	[Shaded]																		
WP3		[Shaded]																		
	WP31	[Shaded]																		
	WP32																			
	WP33																			
	WP34																			
WP4																				
	WP41																			
	WP42																			
	WP43																			
	WP44																			
	WP45																			
	WP46																			
WP5		[Shaded]																		
	WP51	[Shaded]																		
	WP52																			
WP6																				
	WP61																			

Project Deliverables

WP	Deliverable	Date
WP1	Project management plan and updates	KO, each PM meeting
	Progress reports	Trimester
	Actions database and updates	Trimester
WP2	Requirement Baseline Document	KO + 9 (May 2015)
WP3	OHF Reference data set	KO+12 (July 2015)
	Scientific and technical reports	KO + Trimester
WP4	Flux Product Dataset	KO+16 (December 2015)
	Flux Assessment Report	KO+18 (February 2016)
	Product Handbook	KO+22 (May 2016)
W5	Data Portal	KO+22 (May 2016)
WP6	Scientific roadmap	KO+24 (July 2016)

Meeting Agenda