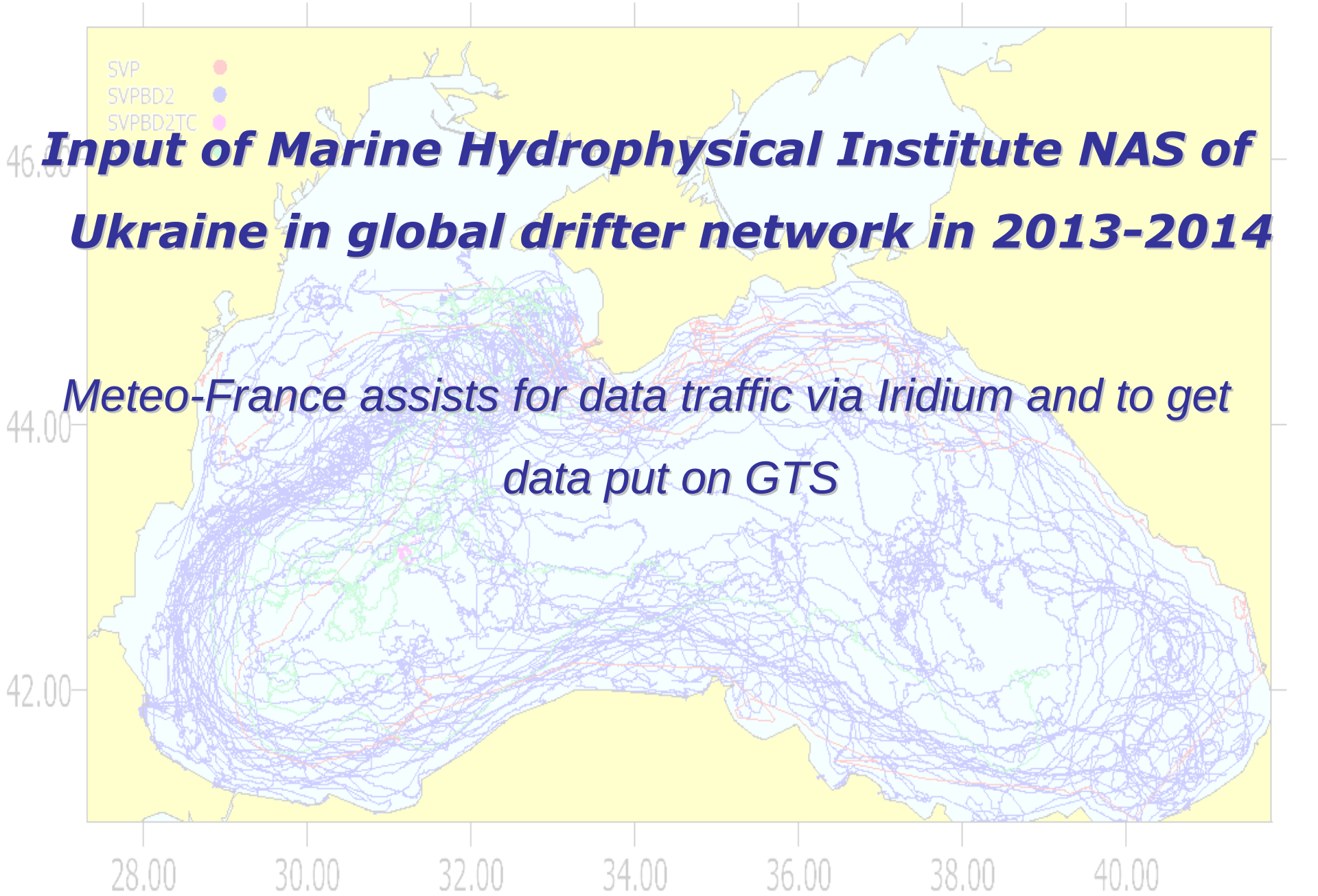


Input of Marine Hydrophysical Institute NAS of Ukraine in global drifter network in 2013-2014

Meteo-France assists for data traffic via Iridium and to get data put on GTS

CURRENT PROGRAMME "Drifter technology" (2011-2013):

Agency or programme		
Number and type of buoys	(a) deployed during the year	2 Iridium SVP-BTC80/RTC/GPS drifters
	(b) operational as of 31 August	0
	(c) reporting on GTS as of 31 August	0
Purpose of programme *(check/uncheck boxes using [_] or [x] as appropriate)*	(a) operational	Date were on GTS
	(b) met / ocean research	Heat exchange and transfer
	(c) developmental	Updated type of buoy with thermistor chain
Main deployment areas	The Black Sea	
Vandalism incidents		

Winter deployments of drifters WMO61689 (yellow) and 61690 (green) in the Black Sea (Dec.2012 – Aug.2013):

Re-deployment of WMO61690 on Sep.20, 2013

PLANNED PROGRAMME “Operational Observations” (2014-2016):

Main deployment areas	The Black Sea	
Number and type of buoys	planned for deployment in the next 12 months	4 Iridium SVP-BTC80/RTC/GPS drifters
Purpose of programme *(check/uncheck boxes using [_] or [x] as appropriate)*	(a) operational	Data will be on GTS
	(b) met / ocean research	Heat exchange and transfer
	(c) developmental	Updated type of the buoy with thermistor chain

Types of drifters, deployed in the Black Sea

Type\Year	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	Total
XAN-3			10													10
SVP	4		4													8
SVP-B		4	14	7	14	6										45
SVP-BT							2	2								4
SVP-B/GPS mini								2								2
SVP-B/RTC mini									2		2					4
SVP-BTC60						4	2									6
SVP-BTC80								4	2							6
SVP-BTC80 RTC/GPS										3				2	4	9
Total	4	4	28	7	14	10	4	8	4	3	2			2	4	94

International cooperation

Participants	Buoys	Data traffic	Deployments
MHI NASU, Ukraine	9		94
IO RAS, Russia	18		
NAVOCEANO, USA	49	53	
OGS, Triest, Italy	4	22	
NATO, Science for piece	6	6	
STCU, Ukraine	4		
Meteo-France, France		9	
DBCP Iridium PP	2	2	
DBCP Argos-3 PP	2	2	
Total	94	94	94

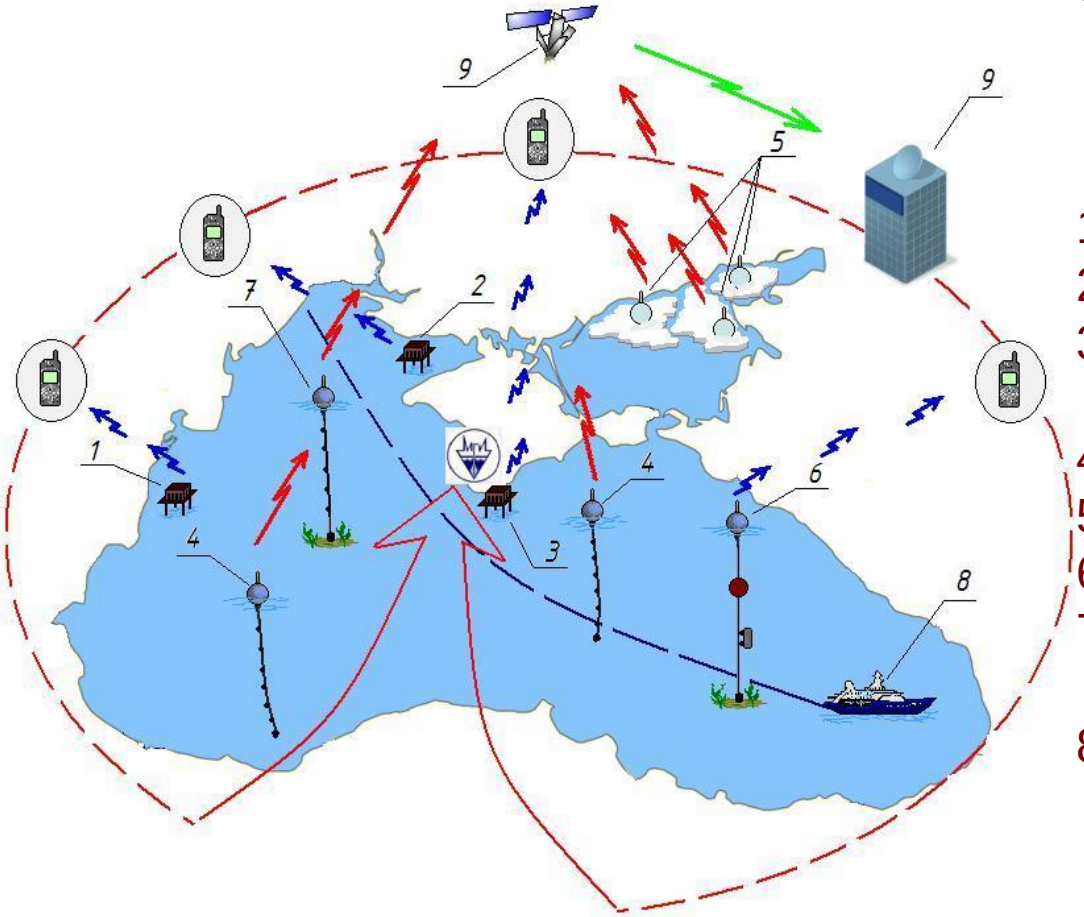
Data traffic

Type of telemetry	Buoys
Argos-2	81
Argos-3	2
Iridium	11
Total	94

Lifetime (days)

Mean	200
Maximum	687
Minimum	8

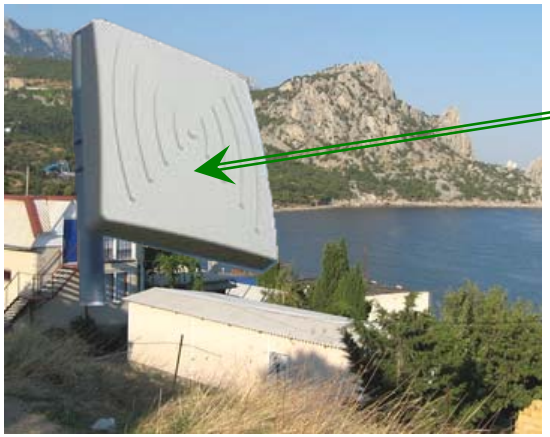
PLANNED PROGRAMME "Operational Observations" (2014-2016):

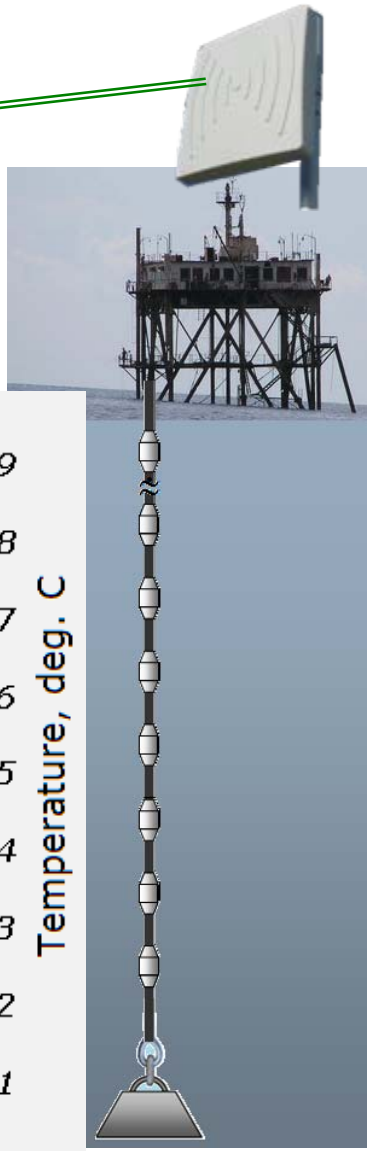


The system for operational observations in the Black Sea

1. Sea platform "Galata", Bulgaria.
2. Oil platform "Golitsino-4", Ukraine.
3. MHI experimental platform, Ukraine.
4. Drifters with thermistor chains.
5. Ice buoys (probably).
6. Buoy "Aqualog" with radio buoy.
7. Mooring buoy with thermistor chain.
8. Ferry Odessa (Ukraine) – Batumi (Georgia).

25-m thermistor chain for thermodynamic study of water layer from surface to bottom, mounted on MHI oceanographic platform in Jan. 2013





Water temperature:

Accuracy – 0.1℃;

Resolution – 0.04 ℃;

Distance between sensors – 1 м;

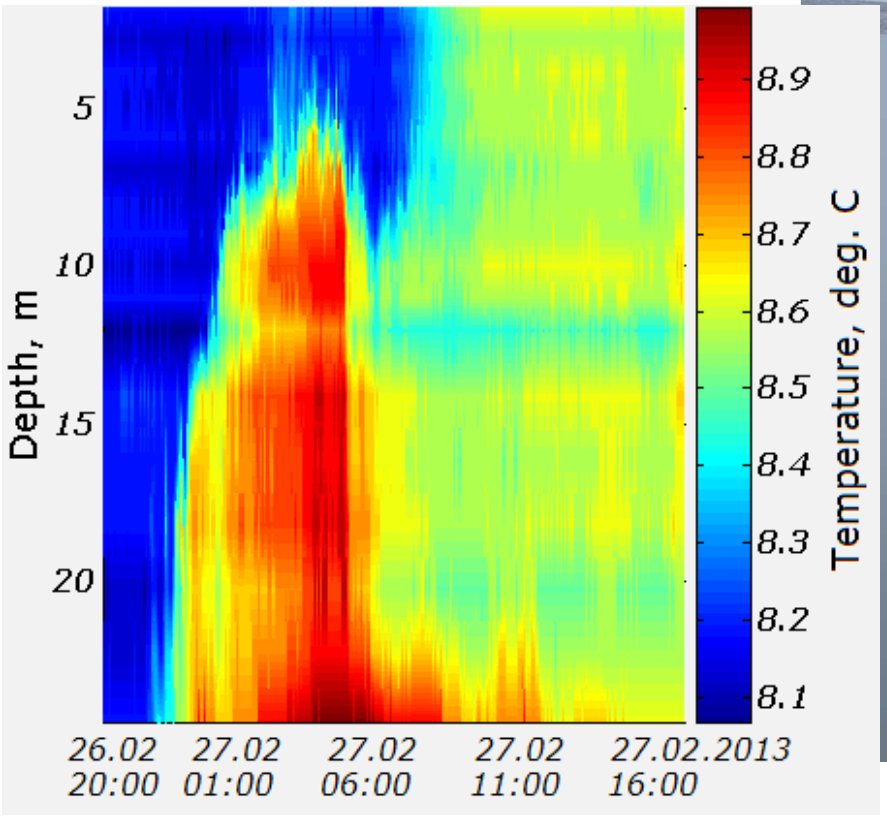
Period of samples – 60 s.

Air pressure:

Accuracy – 0.1 hPa;

Resolution – 0,1 hPa;

Period of samples – 60 s.



Meteo observations from ferry “Odessa-Batumi”


Thanks for your attention