

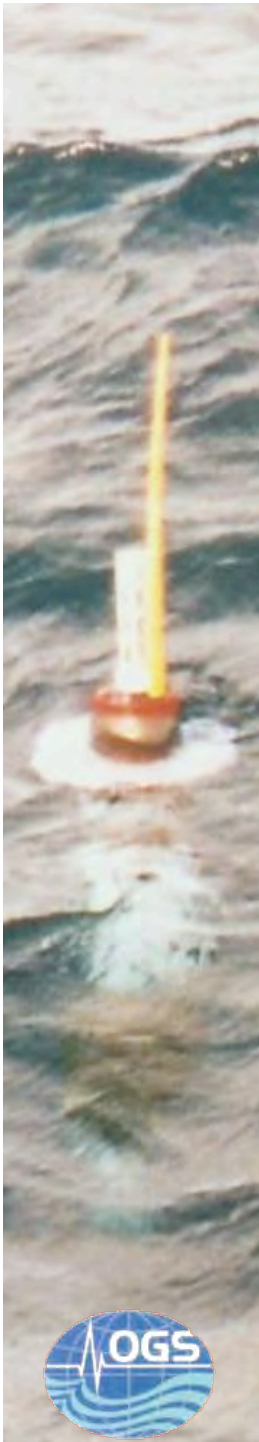


MedArgo or Argo Program in the Mediterranean Sea

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Trieste, Italy

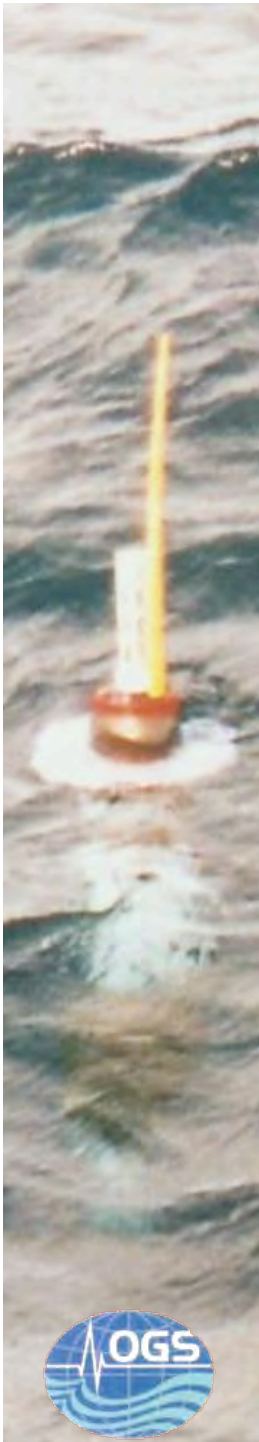




MedArgo

Outline

- MedArgo Activities
- Status of MedArgo as of June 2008
- First MedArgo Scientific Results

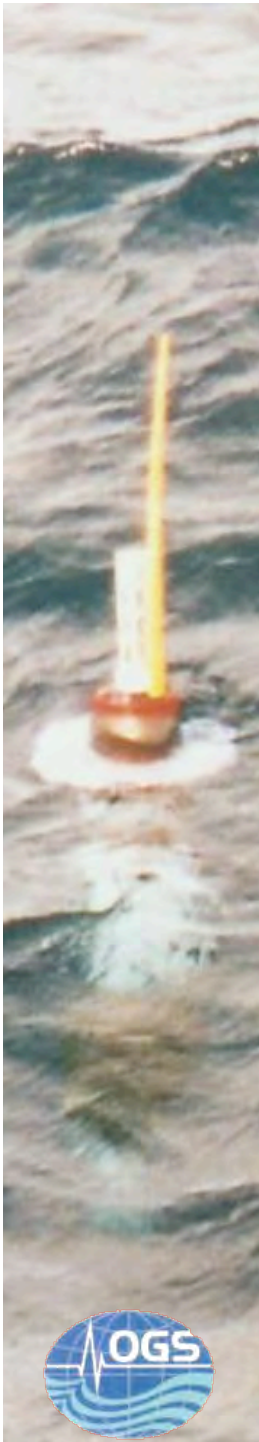




MedArgo Activities

Mediterranean & Black Sea Argo Center

- Component of the North Atlantic Argo Regional Center
 - Coordination of float deployments in Med and BS
 - Production and distribution of Med/BS Argo products and services
- Delayed Mode Operator
 - Delayed-mode processing specific to Med/BS Argo data
- Part of MOON (Mediterranean Operational Oceanography Network)



MedArgo Activities



MedArgo Web Site

MedArgo

Status Tables (active floats)

MFSTEP-Argo Status Table (20-Jun-2008, 5 floats active)

Model	WMO	Argos	Deploy Date	Lat	Lon	Cycle	Last Date	Lat	Lon	Status
APEX-SBE	6900281	50763	15-Aug-2004 20:08	39.61	12.42	268	15-Jun-2008 22:26	38.59	11.69	A
APEX-SBE	6900286	50759	7-Dec-2004 0:15	36.02	21.18	133	04-Jun-2008 04:24	34.26	18.52	A
APEX-SBE	6900284	50757	7-Dec-2004 11:00	37.28	17.49	257	19-Jun-2008 16:19	32.50	19.74	A
APEX-SBE	1900630	50761	16-Nov-2005 21:21	32.82	28.79	189	18-Jun-2008 23:56	32.45	30.74	A
APEX-SBE	6900453	35504	05-Jul-2006 10:20	38.98	3.08	143	19-Jun-2008 11:14	37.38	3.29	A
TOTAL						990				

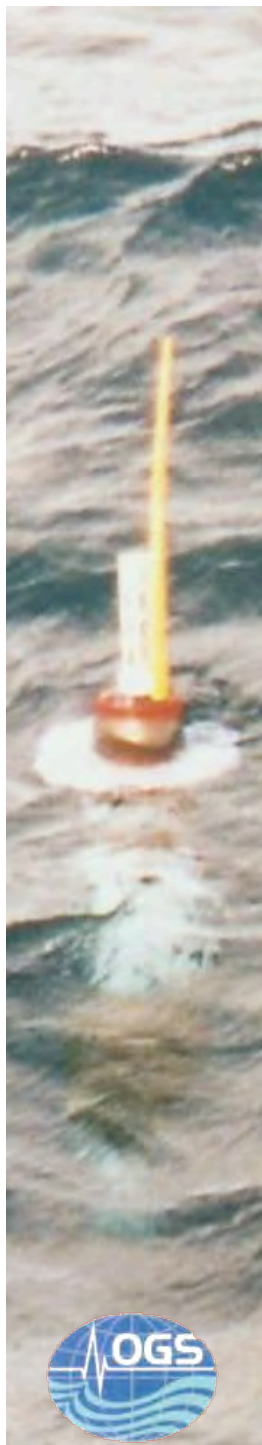
FRANCE-Argo Status Table (20-Jun-2008, 11 floats active)

Model	WMO	Argos	Deploy Date	Lat	Lon	Cycle	Last Date	Lat	Lon	Status
PROVOR-SBE	1900602	63657	10-Apr-2006 14:54	33.31	21.13	80	10-Jun-2008 11:20	37.16	18.32	A
PROVOR-SBE	1900605	63660	11-Apr-2006 04:15	33.31	23.46	80	11-Jun-2008 13:08	36.57	21.96	A
PROVOR-SBE	1900604	63659	18-Apr-2006 12:05	32.71	24.97	79	18-Jun-2008 13:25	31.82	30.02	A
PROVOR-SBE	1900606	63661	22-Apr-2006 10:20	33.58	25.00	79	12-Jun-2008 12:30	31.69	26.17	A
PROVOR-SBE	6900455	54070	13-Mar-2007 21:10	33.98	25.91	92	17-Jun-2008 15:26	33.57	28.58	A
PROVOR-SBE	6900457	63670	22-Mar-2007 15:54	42.61	7.74	90	16-Jun-2008 19:17	39.37	3.83	A
PROVOR-SBE	6900501	78638	23-Jan-2008 12:38	43.40	7.83	15	14-Jun-2008 08:35	42.20	3.90	A
PROVOR-SBE	6900502	78639	26-Jan-2008 23:55	42.01	4.94	15	17-Jun-2008 09:14	40.74	3.10	A
PROVOR-SBE	6900503	78640	28-Jan-2008 10:10	42.91	5.41	15	19-Jun-2008 09:31	41.14	3.58	A
PROVOR-SBE	6900504	78641	24-Jan-2008 02:33	42.90	6.66	15	15-Jun-2008 09:22	41.94	5.70	A
PROVOR-SBE	6900505	78642	23-jan-2008 18:17	42.56	7.49	15	14-Jun-2008 08:35	42.14	4.93	A
TOTAL						575				

**Black: 5 days cycles Red: 10 days cycles

<http://poseidon.ogs.trieste.it/sire/medargo>

Euro-Argo Users Workshop
Southampton, UK, 24-25 June '08

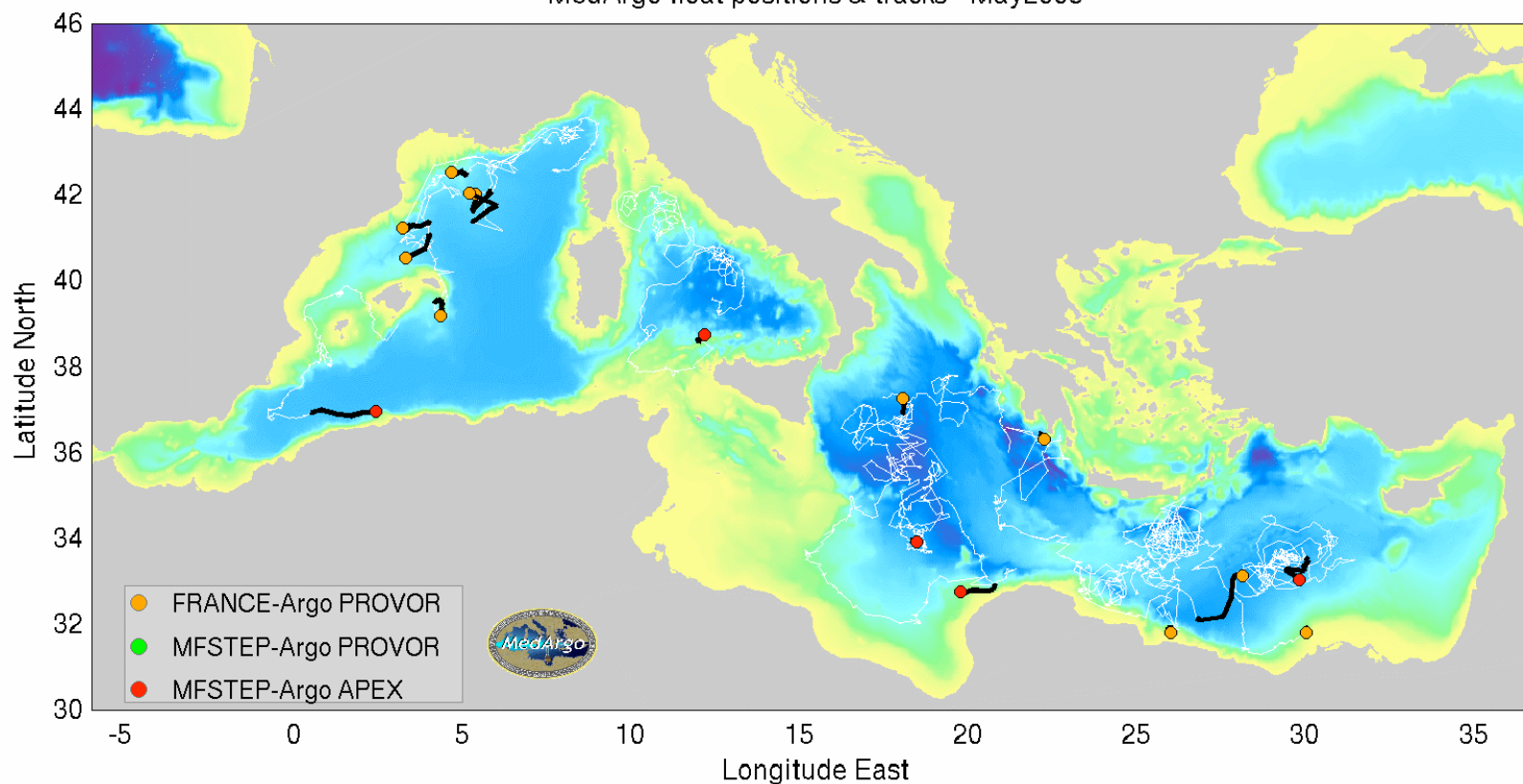


MedArgo Activities



MedArgo Maps

MedArgo float positions & tracks - May2008



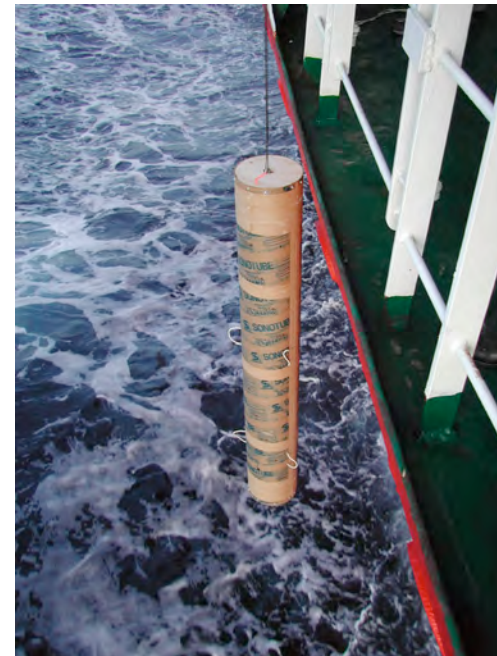
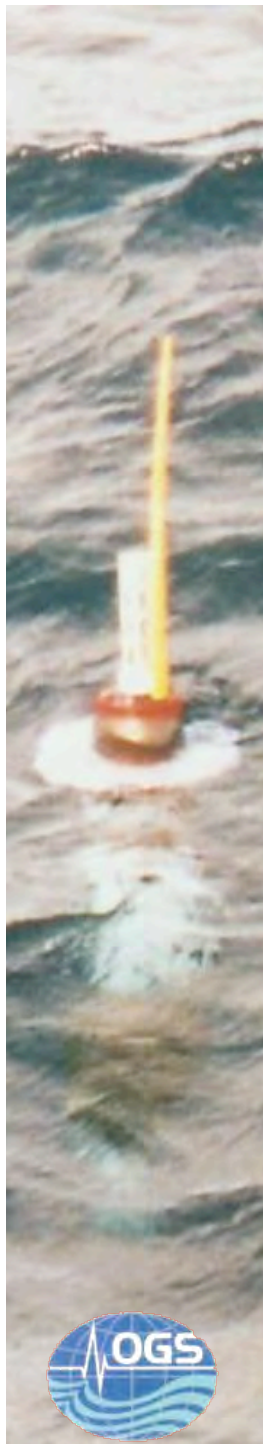
<http://poseidon.ogs.trieste.it/sire/medargo>

Euro-Argo Users Workshop
Southampton, UK, 24-25 June '08

MedArgo Activities



MedArgo Float Deployments



From Ships of
Opportunity



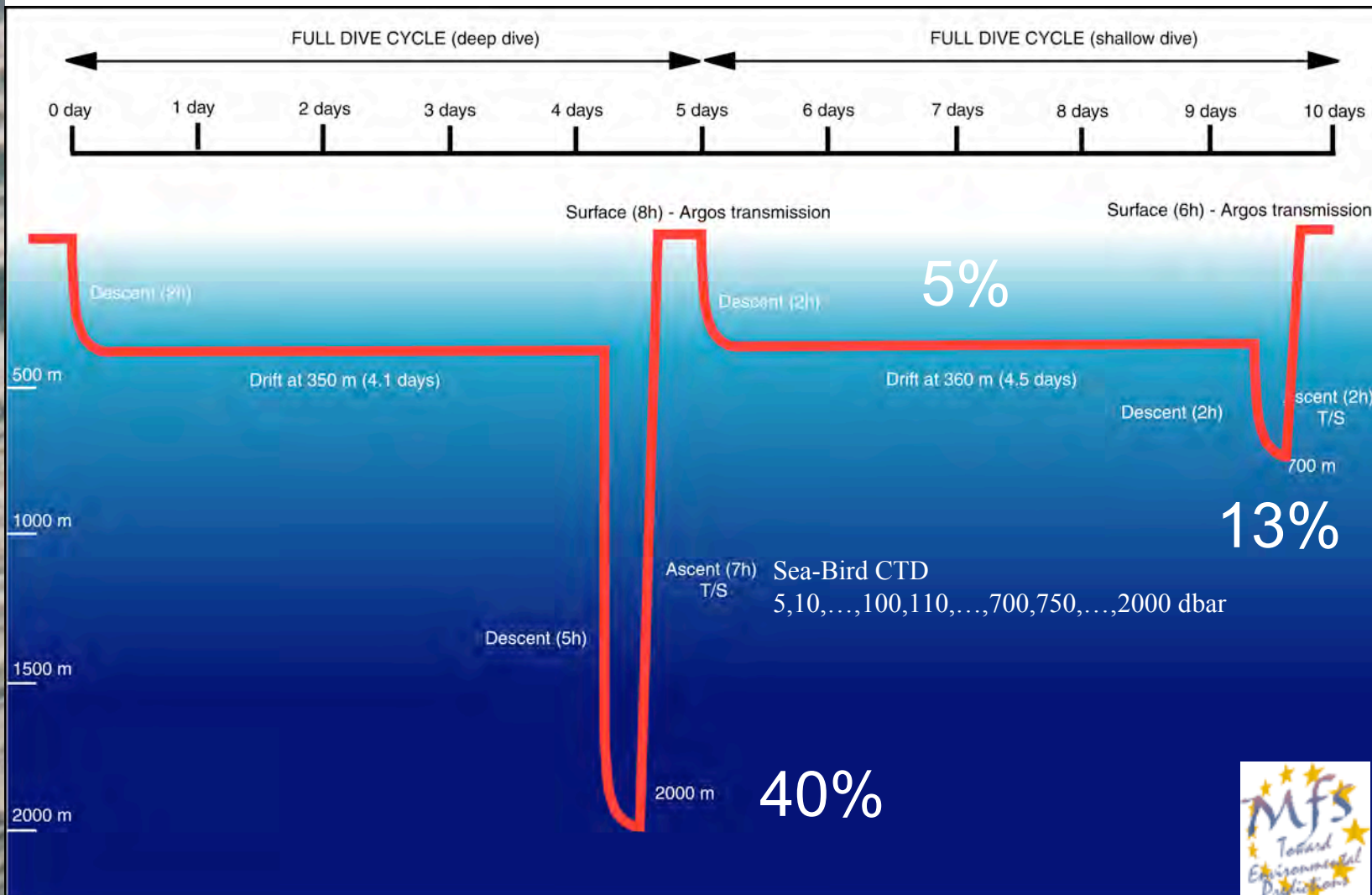
Euro-Argo Users Workshop
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MedArgo Activities



MedArgo Sampling Cycle Characteristics

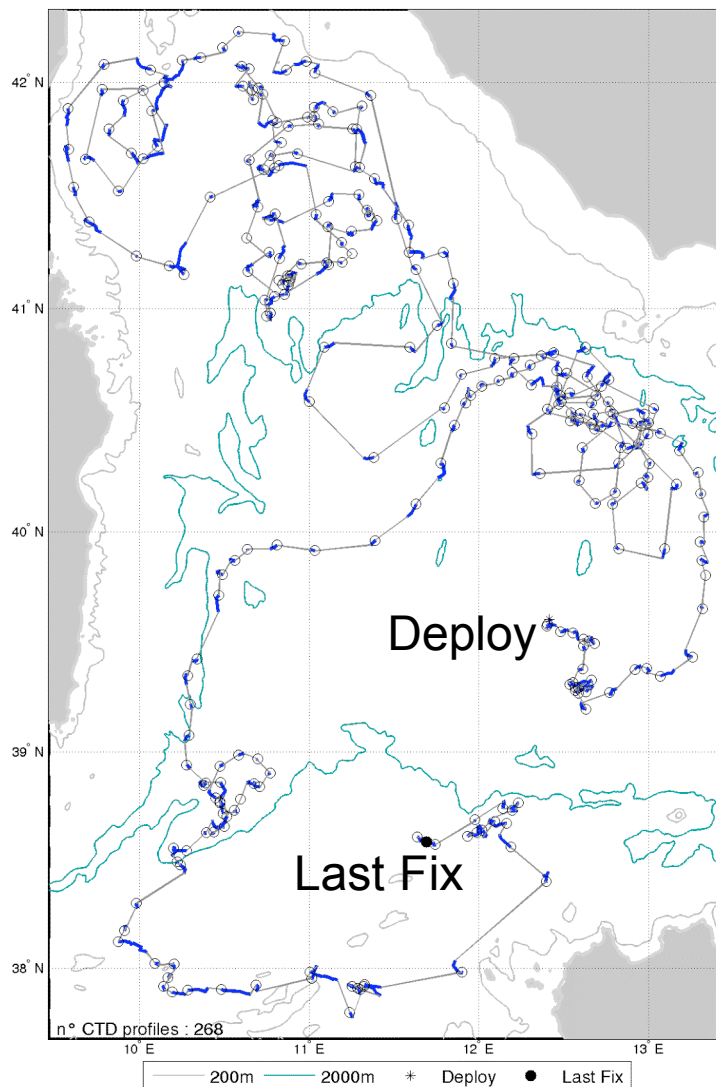


MedArgo Status – June 2008

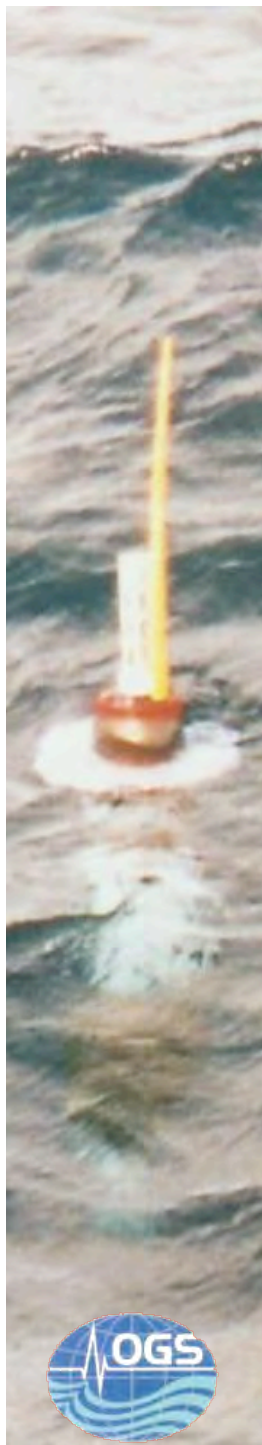


“Oldest” MedArgo Float

APEX FLOAT: 50763 - POSITIONS AS OF 15-Jun-2008



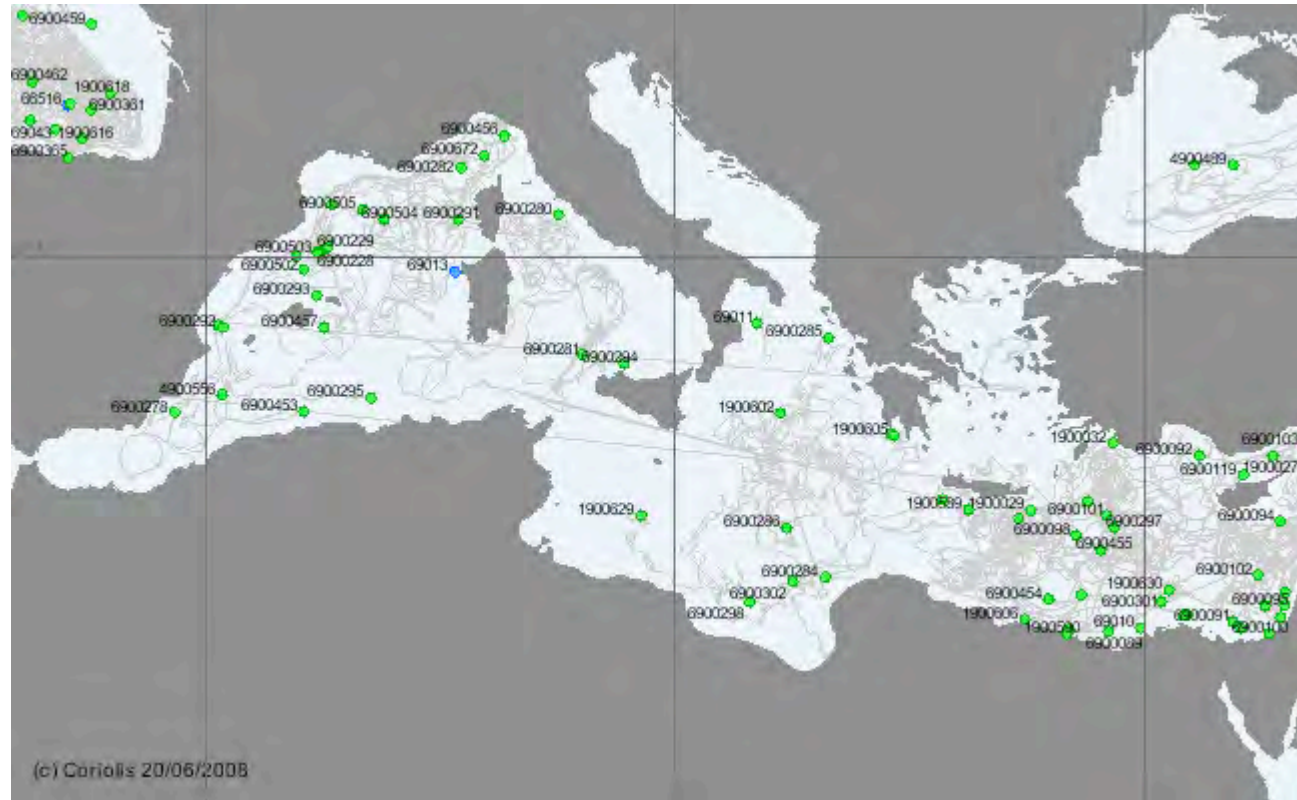
APEX-SBE
WMO 6900281
ARGOS 50763
Deploy 15-Aug-2004 20:08
Last Fix 15-Jun-2008 22:26
Filetime 3 years 10 months
Number of cycles **268**



MedArgo Status – June 2008

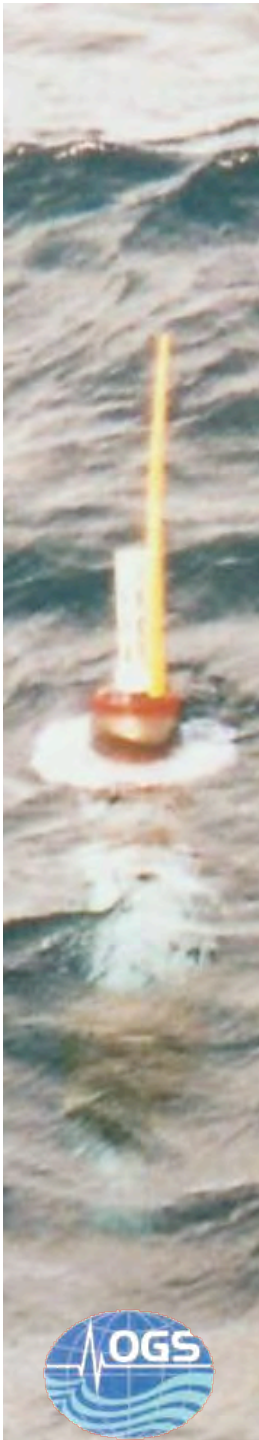


MedArgo Network: All floats



- 27 MFSTEP + 1 SPAIN + 19 FRANCE + 29 NAVO + 4 US/GREECE = **80 Floats**
- **22 floats still active on 20/06/2008**
- **58 non-active floats (including 12 stranded units, out of which 6 were recovered)**

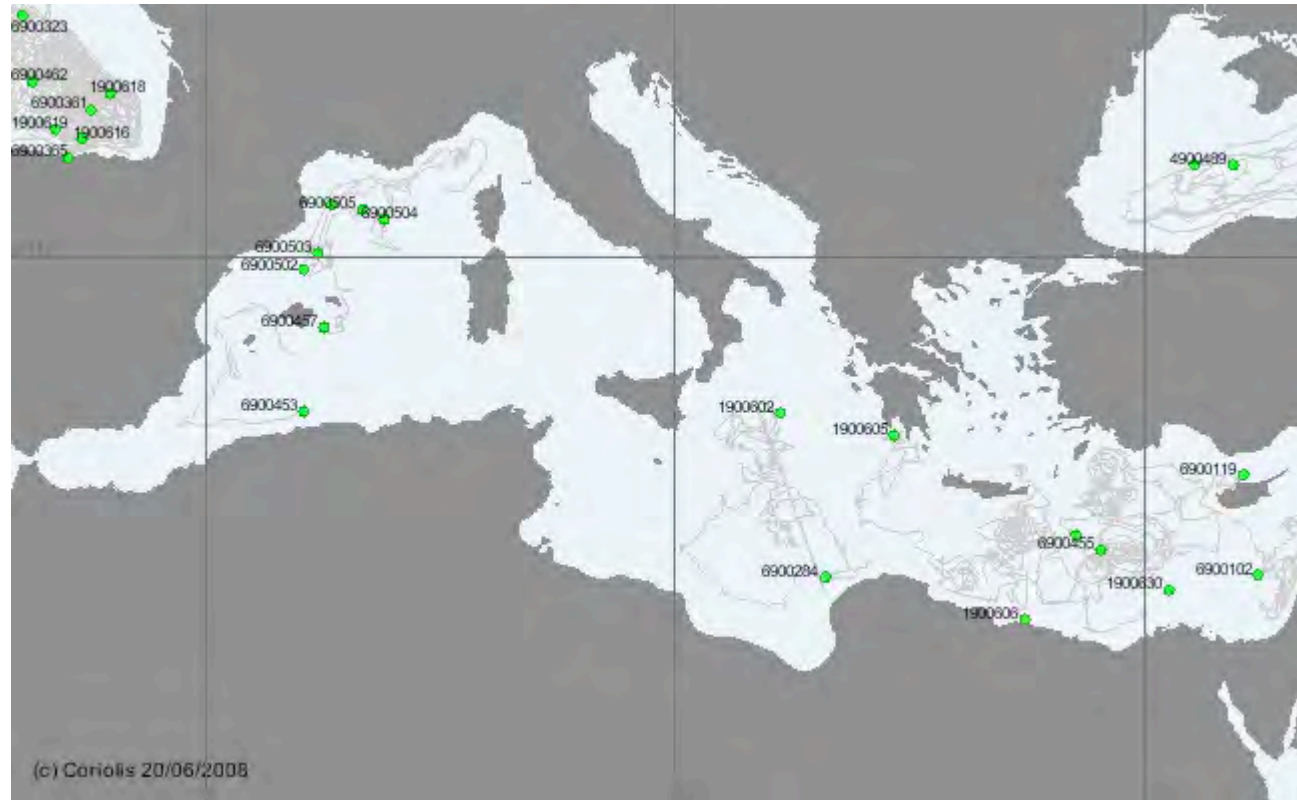
Euro-Argo Users Workshop
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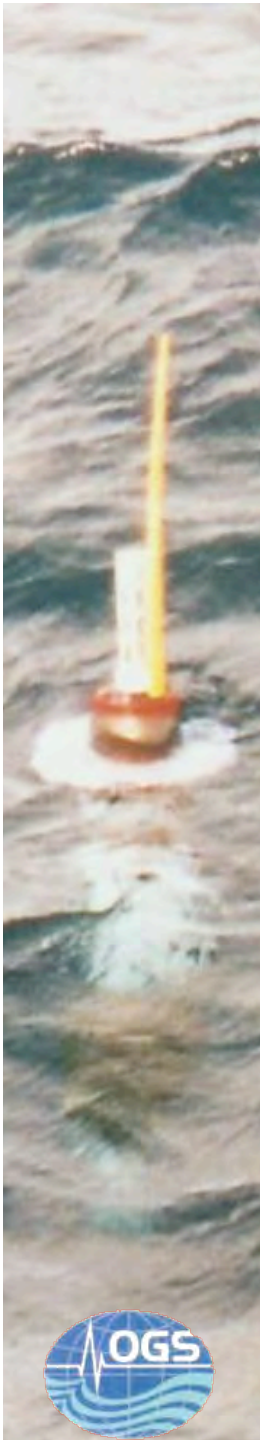
MedArgo Status – June 2008



MedArgo Network: Active floats



➤ 5 MFSTEP + 11 FRANCE + 2 US/GREECE + 4 NAVO = 22 active floats on 20/06/08



MedArgo Status – June 2008



MedArgo Network: Histograms

Mediterranean Deployments per year

2000 : 3 (NAVO) = 3

2001 : 4 (NAVO) = 4

2002 : 9 (NAVO) = 9

2003 : 4 (MFSTEP) + 9 (NAVO) = 13

2004 : 15 (MFSTEP) + 3 (NAVO) = 18

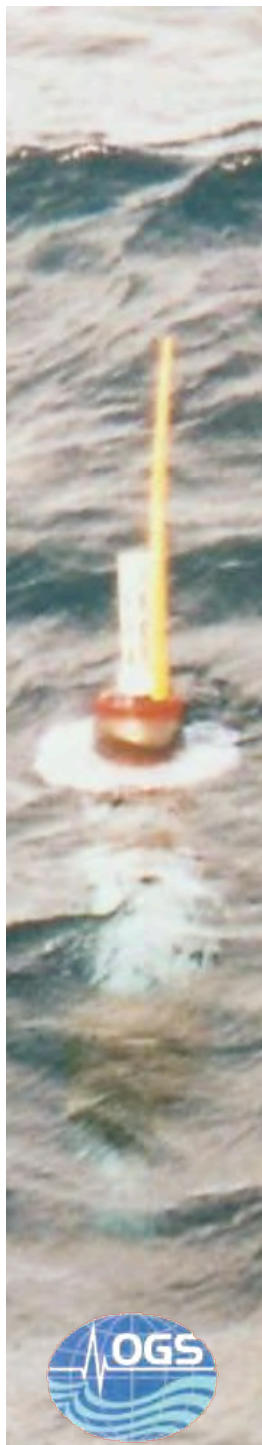
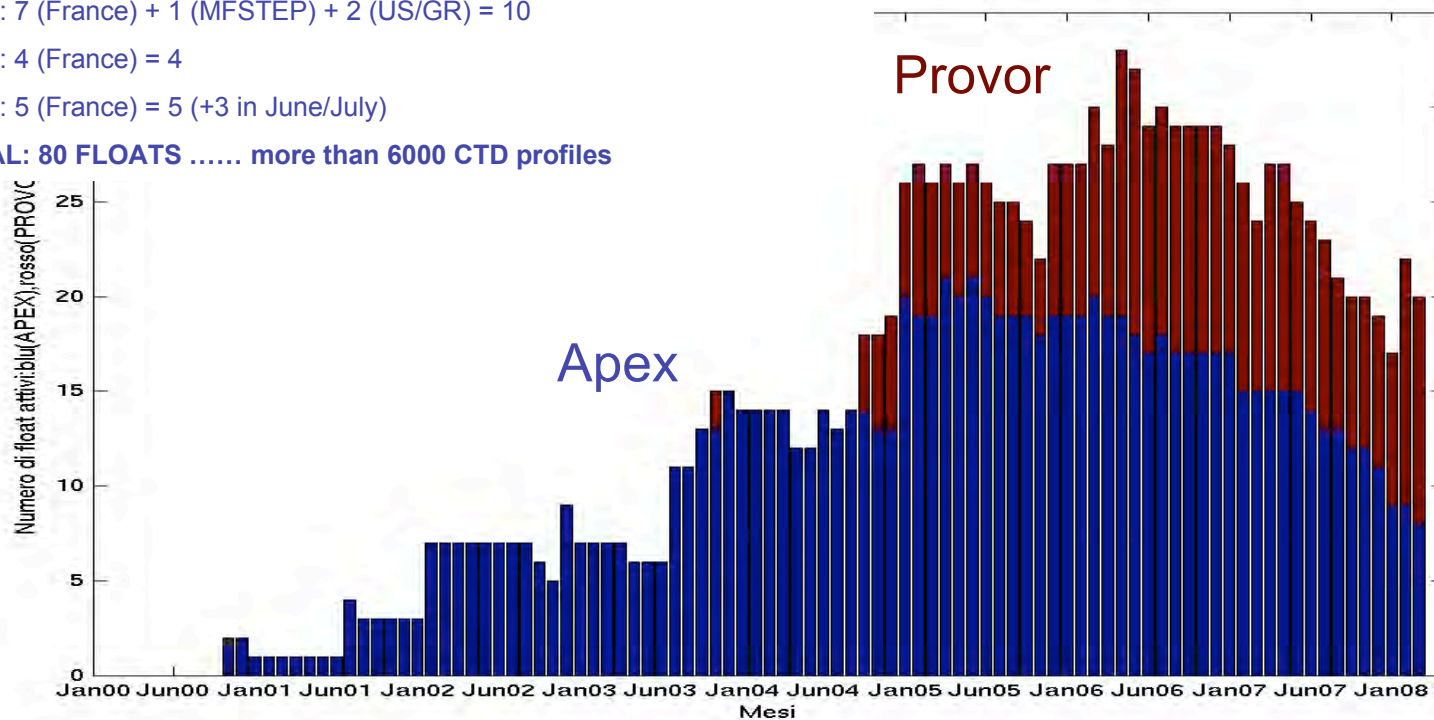
2005 : 3 (France) + 1 (Spain) + 7 (MFSTEP) + 1 (NAVO) + 2 (US/GR) = 14

2006 : 7 (France) + 1 (MFSTEP) + 2 (US/GR) = 10

2007 : 4 (France) = 4

2008 : 5 (France) = 5 (+3 in June/July)

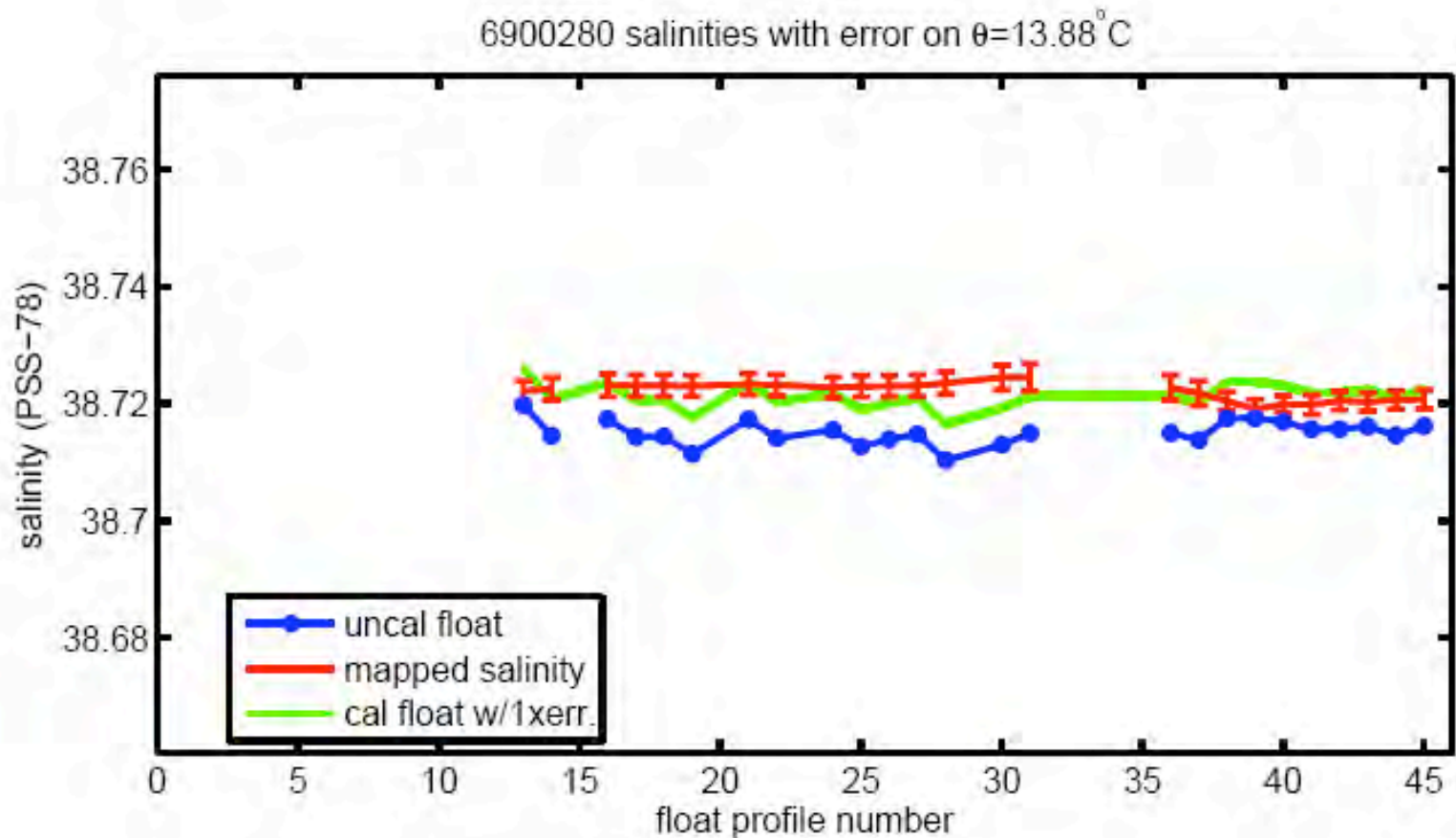
TOTAL: 80 FLOATS more than 6000 CTD profiles



MedArgo Status – June 2008



MedArgo Network: DMQC



Example of float in the Tyrrhenian Sea (preliminary results)



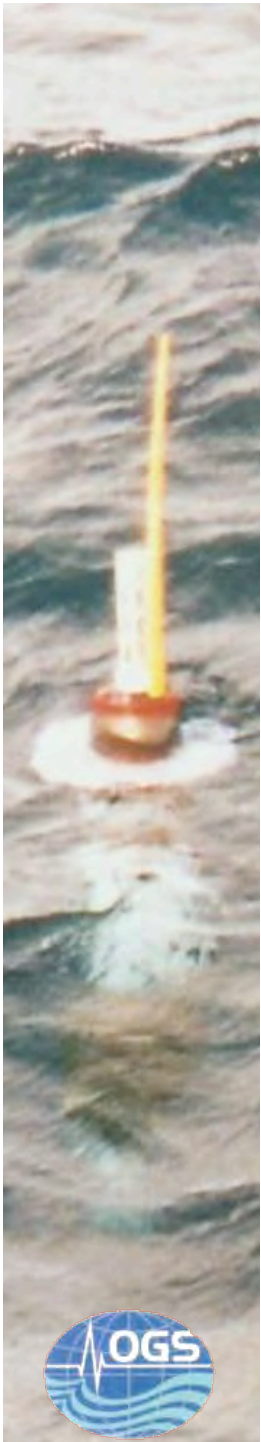
MedArgo Future Plans



- Contributions to Argo in Med from individual countries for operational or scientific purposes (encouraged by EuroArgo PP)

(in 2008, 3+ from France and 4 from Spain)

- Improved organization, NRT data processing, NRT data dissemination & archival in databases via MedArgo and CORIOLIS
- Limited EU support (GMES) via EuroArgo to buy floats in order to maintain minimum fleet in Med (30 floats?)
- Limited support in EuroArgo PP for tests of Argos3 and Iridium telemetry with 4 floats in the Med.

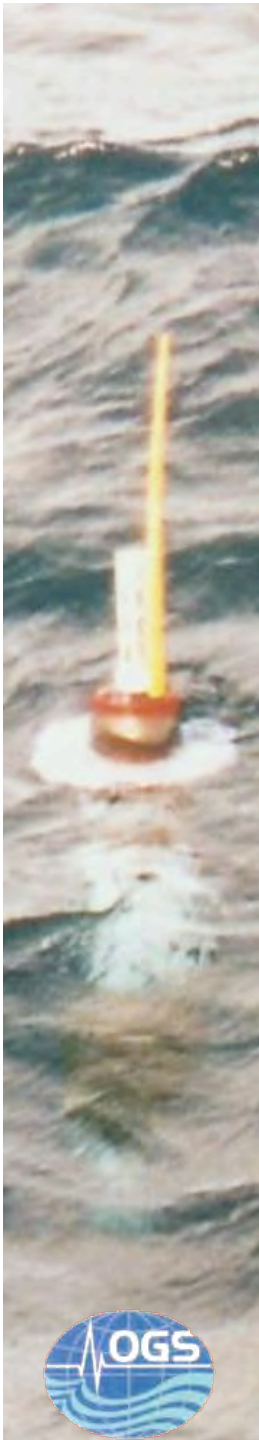
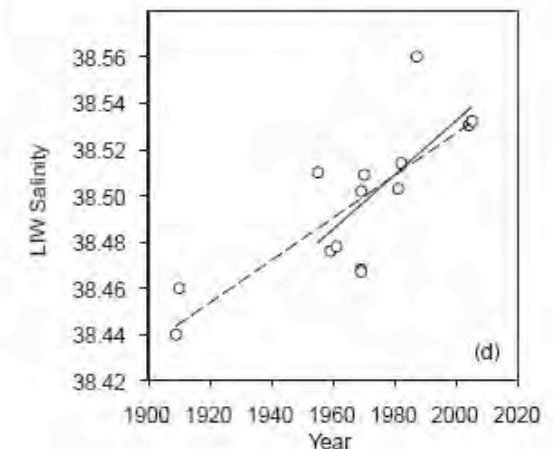
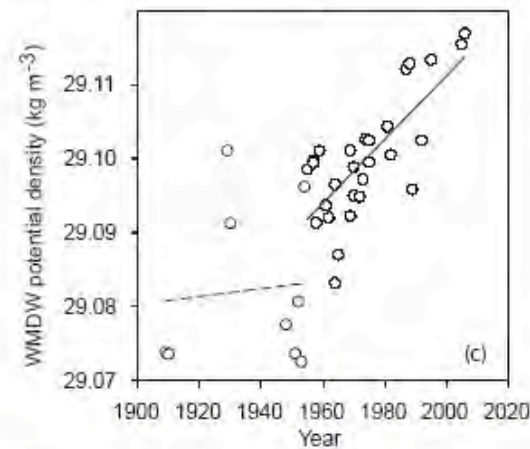
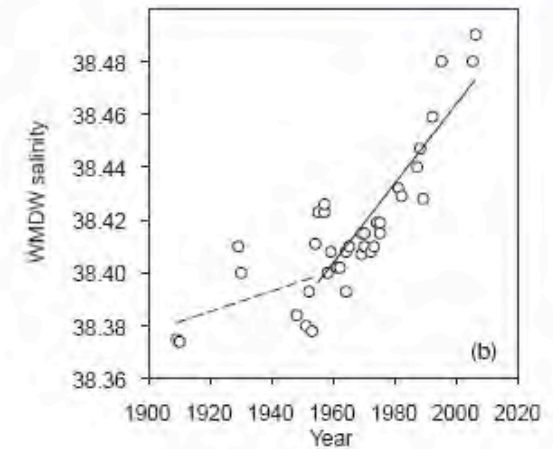
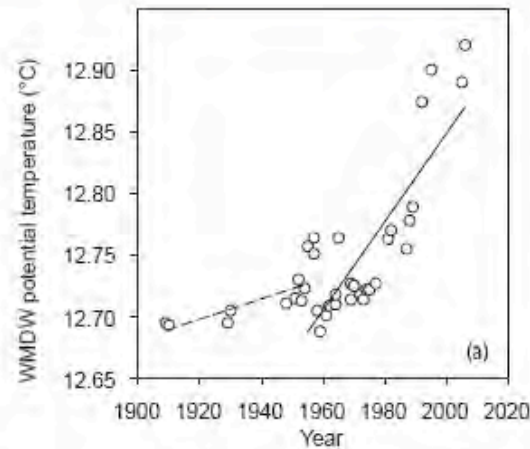


First MedArgo Scientific Results



Western Med Water Masses

- Observations of new western Mediterranean deep water formation using Argo floats 2004–2006 (Smith et al., OS, 2008)

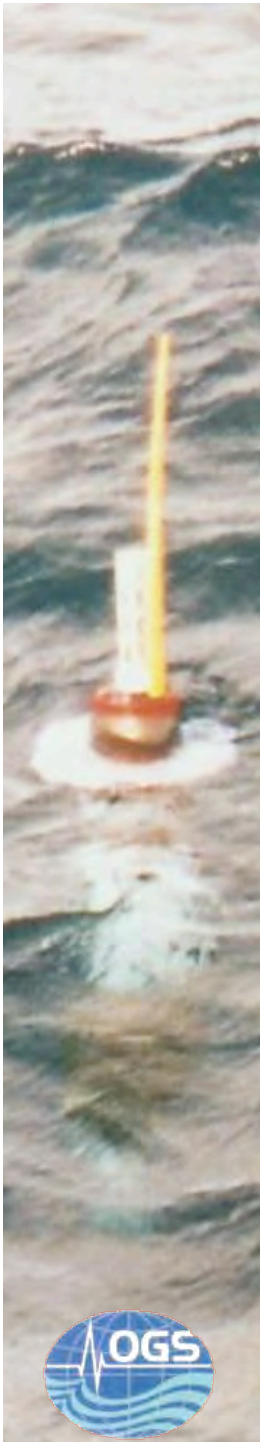
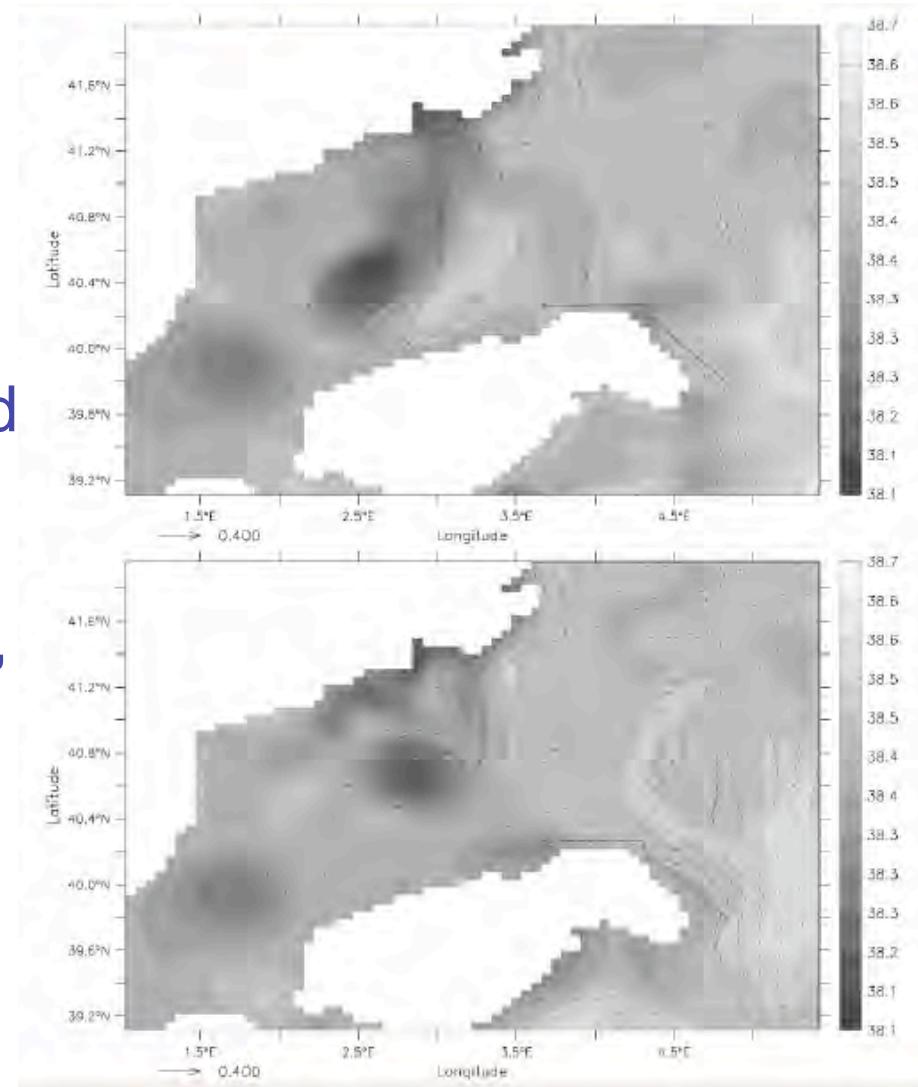


First MedArgo Scientific Results



Argo Data assimilation in Med model

Assimilation of **Argo float positions** in the north western Mediterranean Sea and impact on ocean circulation simulations (Taillandier et al., GRL, 2006)





Thanks for your attention.

Any questions?

