Argo Information Centre AIC

M. Belbeoch, Argo TC May 2005 Cape Town, South Africa



1



AIC Background

Established in feb. 2001, Toulouse (France), within JCOMMOPS

- Became part of the Argo Project Office in 2003
- Staffed with 1 Technical Coordinator (IOC employee)
- ➢ Funded by Australia, Canada, France, UK and US
- Guidance by AST chair and APO Director
 Close collaboration with IOC and WMO secretariats
- IOC Res. XX-6 implementation
 International Coordination



JCOMMOPS

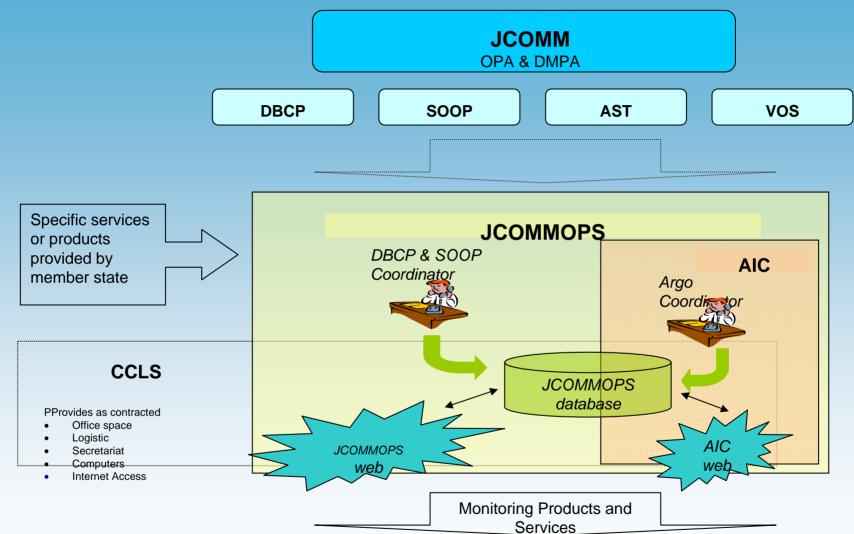
JCOMM in-situ Observing Platforms Support centre (June 2001)
 Argo, DBCP, SOOP coordination

- Logistic contract with CLS-Argos
- > 10 000 \$ / year extra funding for the information system
- > 1 student / year
- Argo TC benefits experience from 15 years of international coo.
- Synergies are developed
- Integrated services available (programme status, deployment opportunities, assistance for data distribution, etc)

> JCOMMOPS facilitates: decision making proces, implementation, monitoring



JCOMMOPS ...





Coordination

- Facilitate Argo implementation
- > Assist all actors as appropriate
- > Monitor the global network
- Facilitate data management
- Promote the progamme
- Encourage new participants
- Act as a clearing house regarding all aspects of Argo
 Act as a focal point regarding communications
- Efficient Information System & reactivity needed



The Information System

➤ Time consuming to develop (on going effort: < 30% working time)</p>

- \succ Time saving to use
- ➢ Implemented and maintained by TC
- \succ TC = main user

Coordination and Monitoring facilitated

- Information spreading facilitated
- Services provided on-line / on demand

3 Servers (Data Base, web applications, GIS/charts)
Mailing Lists

≻ FTP



The Information System

AIC web site: "visible part of the iceberg"

2001: Interim static website (E.Charpentier)

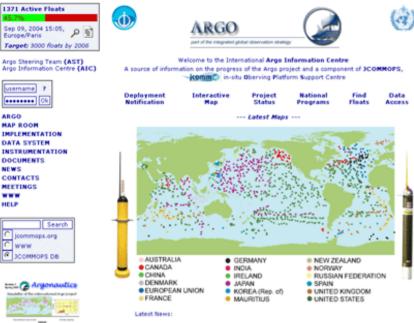
2002: Backbone of the I.S operational (Database, GIS, dynamic web app.)

2003: Main products upgraded – Site fully dynamic

2004: Integration – Design – www.argo.net

2005: Final website being rewied





First Dutch Argo Deployments, Septembre 01, 2004 Argentina: Deployment opportunities in the Southern Ocean, 4o0t 12, 2004 Arctic Observing Based on Ice-Tethered Platforms - Workshop, Août 12, 2004 First Delayed Mode Data available at GDACs, Juliet 30, 2004 German Argo project funded for next 3 years, Juliet 30, 2004 University of Hawaii: A new US Argo contributor , Juliet 15, 2004 Assessment of APEX float tests in the Catalan Sea, Juliet 07, 2004 Float Recovery in Sri Lanka, Jun 23, 2004 New AST website, Jun 16, 2004

Southern Ocean: 1st NEMO Floats launched by AWI , July 03, 2004

and use

1371 Active Flexib

Europe/Paris

usemame ?

•••••• Ok

ARCO

MAP ROOM IMPLEMENTATION DATA SYSTEM INSTRUMENTATION

DOCUMENTS NEWS

CONTACTS MEETINGS

Search C jcommops.org

.....

HELP

C www COMMOPS DB

Next Aroo Meetings:

Argo Steering Team #7, Hyderabad, India 01/02/2005 - 04/02/2005 Argo Data Management Team #5, SOC, United Kingdom 29/09/2004 - 01/10/2004

http://argo.jcommops.org



http://www.argo.net





8

The Information System ... AIC website

Design for the Argo community (TC, Float operators, Prog. Managers, Data Managers, Modelers, Argonauts, etc...)

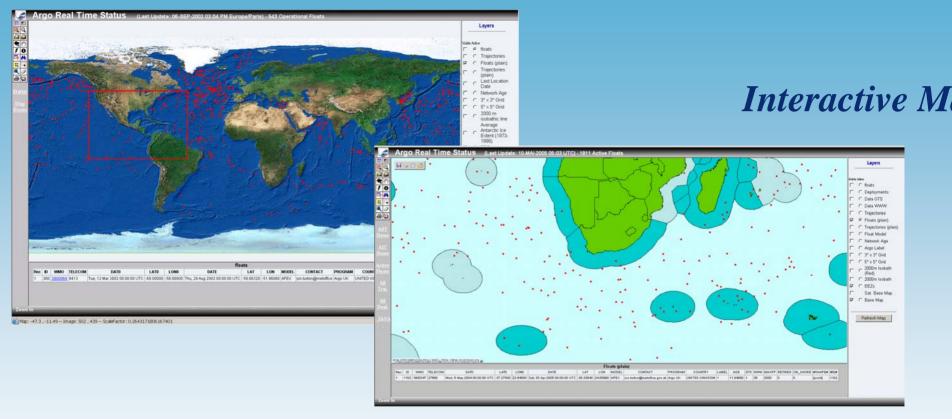
- \succ ... not for large public
- > Audience >>> Target

Includes basic www sections ("news", "contacts", "meetings", "documents", "help", etc)

 \succ ... and operations/ monitoring oriented products

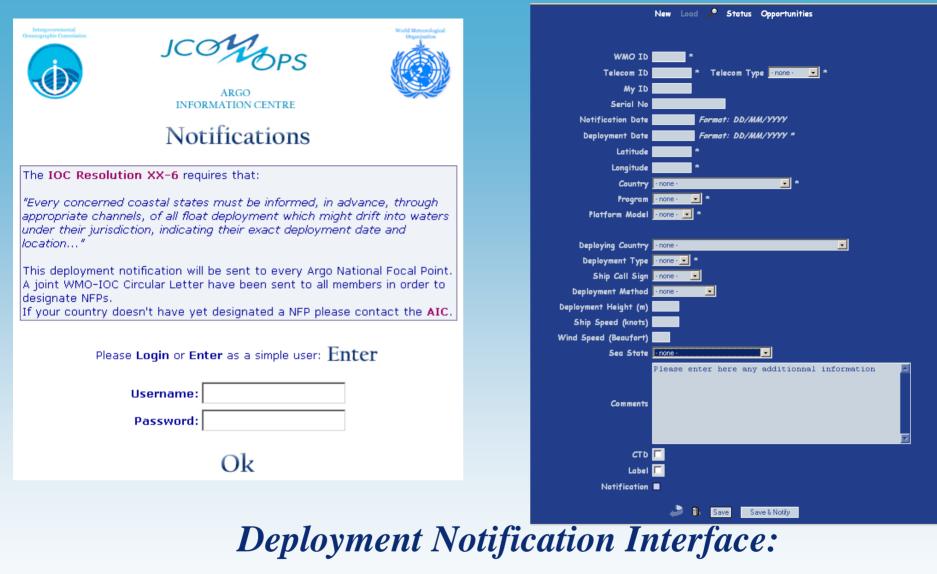


The Information System ... available products



<u>http://w3.jcommops.org/website/ArgoMap</u> zoom in/out, query, display maps many layers available (trajectories, EEZs, etc)





http://w3.jcommops.org/cgi-bin/WebObjects/Notification



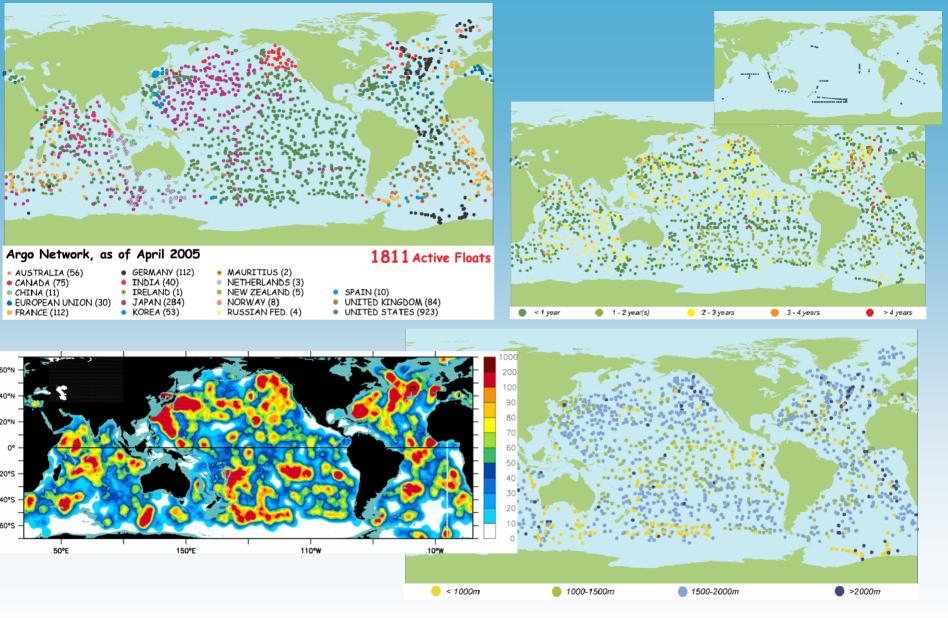
Official Argo Active Float list with latest locations and basic metadata (updated bi-daily) <u>ftp://ftp.jcommops.org/Argo/Status /status.txt</u>

All Argo Deployments (bi-daily) <u>ftp://ftp.jcommops.org/Argo/Status /deployment.txt</u>

All float trajectories (weekly) <u>ftp://ftp.jcommops.org/Argo/Status /loc.txt</u>

⇒ Use it when you want to display current
program status
(Metadata have been QCed by TC)





Map Room: 10 monthly maps



http://w3.jcommops.org/cgi-bin/WebObjects/Argo.woa/wa/ma

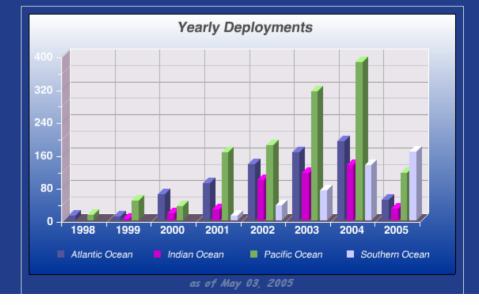
Argo Global Program Status http://w3.jcommops.org/cgi-



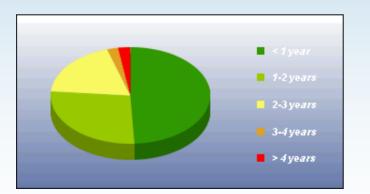
<u>/Argo.woa/wa/status</u>

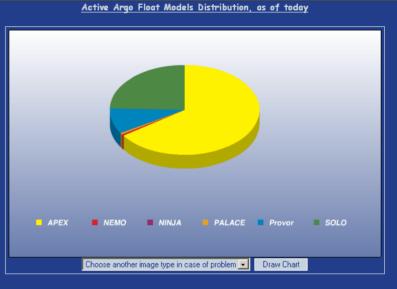
Yearly Deployments:

	1998	1999	2000	2001	2002	2003	2004	2005	Total
Atlantic Ocean	12	9	64	90	136	165	193	50	719
Indian Ocean	0	3	17	27	99	116	134	29	425
Pacific Ocean	13	49	35	166	182	314	384	116	1259
Southern Ocean	0	0	0	11	36	73	135	168	423

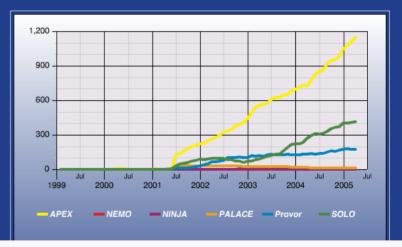








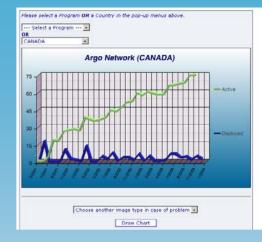
Active Argo Float Models, Growth





National/Regional program status http://w3.jcommops.org/cgibin/WebObjects/Argo.woa/wa/prog

Float Search Engine http://w3.jcommops.org/cgibin/WebObjects/Argo.woa/ptfSearch



Program / Country	- none -	
WMO ID		
Telecom ID		Telecom Type - none - 💌
Platform Model	- none - 💌	
Argo Equivalent	O Yes O No	
Deployment Date	to	Format: DD/MM/YYYY
Deployment Lat.	to	*
Deployment Lon.	to	*
Label	O Yes O No	
Last Location Date	to	Format: DD/MM/YYYY
Last Location Lat.	to	*
Last Location Lon.	to	*
Active	Dead	Retired Age (Days)
O Yes O No	C Yes C No	O Yes O No to (Number)
GTS **	WWW ***	
O Yes O No	to Available Profiles (Number)	

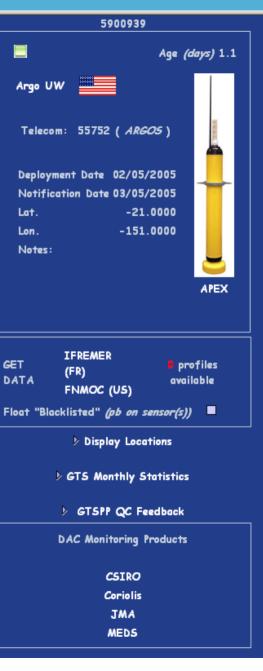
Cancel

		31 Pl	atform(s)	D	Display 10 items		4	Page 2	of 4		
Status 🐔 🕅	WMO ID ≣	Telecom ID ≣	Date ≣	Lat ≣	Lon ≣	Model ≣	Program ≣	Data ≣	# Profiles ≣	Age ≣	Depth≣ Label≣
	5900045	6449	20/05/2004	-12.2283	98,4502	APEX	Argo AUSTRALIA		30	10.2	1683
	5900035	6332	24/05/2004	-15.4949	111.5493	APEX	Argo AUSTRALIA		53	17.7	1976
	5900027	6301	21/05/2004	-11.9315	104.1329	APEX	Argo AUSTRALIA		60	20.1	1364
	5900032	6302	23/05/2004	-10.2234	97.0393	APEX	Argo AUSTRALIA		59	19.7	1978
	5900044	6437	23/05/2004	-16.8127	101.8768	APEX	Argo AUSTRALIA		43	14.5	1982
	5900040	6488	18/05/2004	-35,4139	112.6941	APEX	Argo AUSTRALIA		47	15.8	1976
	5900039	6448	17/05/2004	-32.0354	111.5600	APEX	Argo AUSTRALIA		47	15.8	2018
	5900029	6333	19/05/2004	-25.2244	104.0039	APEX	Argo AUSTRALIA		59	19.7	1979
	53554	21071	11/12/2001	-12.5829	106.1318	APEX	Argo AUSTRALIA		80	26	2119
	56510	21074	19/05/2003	-15.5096	108.6880	APEX	Argo AUSTRALIA		104	33.8	2277

🔶 export 🍏



Float Detail Page http://w3.jcommops.org/cgibin/WebObjects/ Argo.woa/wa/ptf?wmo=A9nnnnn





 On-line reporting interface provided for DACs and GDACs (for Real Time and Delayed Mode)

- Used by DAC managers
- ➢ Used by ADMT chair to get a global view

-							
					DAC 🔽 Ok		
				_			
					Please select a related operational DAC:		
				Corio	lis CSIRO MEDS JMA AOML BODC METRI/KMA		
-							
					BODC (DAC)		
				Home	http://www.bodc.ac.uk/projects/argo/Argo_info.htm		
	Access URL No URL with WMO Id to access a float detail page						
				Suppor			
				Progra	mme(s) Argo eq. UK		
					Argo MAURITIUS		
					Argo eq. IRELAND		
				2			
Г		and an excel of the	Start	Target			
		R/T Milestone	date	Date	Comments	Realized	
:	1	Data acquired from floats			First UK Argo floats deployed in January 2001, with data being provided by ftp to Southampton Oceanography Centre.	100 % 🔌	
:	2	Data issued to GTS - TESAC			Float data from Apex floats posted onto GTS via the CLS GTS pre-processing system, data from PROVOR floats posted on to GTS by Coriolis.	100 % 🔏	
:	3	Data issued to GTS - BUFR				0 %	
	4	Data issued to GDACs - Metadata			Metadata files for all UK floats (active or inactive) are available at both GDACs New floats are dealt with when they occur.	100 % 🖉	
1	5	Data issued to GDACs - Profiles			Profile NetCDF files are sent to GDACs every 24 hours for any new data received.	100 %	
	6	Data issued to GDACs -			Can write v2 netCDF for trajectories. Waiting for this to be accepted.	50 %	
		Trajectories Data issued to					
1	7	GDACs - Technical				0 %	
1	8	Data issued to PIs			Data is available from the GDACs and BODC within 24 hours of being received at \ensuremath{BODC} .	100 %	
1	9	Web Pages available for data			UK Argo data site is hosted by BODC where links to BODC holdings and GDAC are available http://www.bodc.ac.uk/projects/argo/datapage.htm	s 100 % 🖉 🖄	
	10	Web Pages available for reporting on DAC activities			Interactive map showing all UK floats and access to all UK data is present at http://www.bodc.ac.uk/projects/argo/argo.html	100 %	

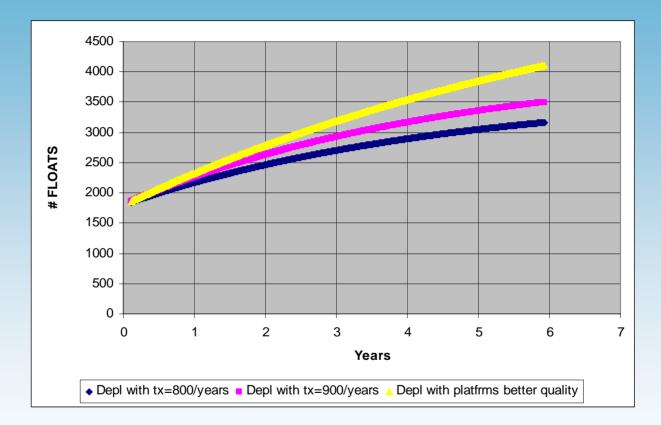


New parameters monitored by the AIC, float per float:

- ➤ "are this float data published on the GTS ?"
- ➤ "are this float data published at the GDACs ?"
- Daily Data sources: Meteo-France, Coriolis
- Comparison with AIC official active float list
- Reports on-line: <u>http://w3.jcommops.org/cgi-bin/WebObjects/Argo.woa/wa/dataStats</u>
- Reports sent to operators (manual ... auto)



AIC next ... predict the network growth





International / Intergovernmental Issues

Float Retrieval Procedure

>1% expected to be retrieved

50% of the fleet have labelsTarget is to label all

Countries responsible for retrieval of floats when found (AIC assistance)



World Meteorological Organization

Organisation météorologique mondiale

Organización Meteorológica Mundial

世界气象组织

Всемирная метеорологическая организация

المنظمة العالمية للأرصاد الجوية United Nations World Climate Research Programme

Nations Unies Programme mondial de recherche sur le climat

Programa Mundial de Investigaciones Climáticas de las Naciones Unidas

联合国 世界气候研究计划

Организация Объединенных Наций Всемирная программа исследования климата

البرنامج العالمي لبحوث المناخ التابع للأمم المتحدة

ARGO FLOAT FLOTTEUR ARGO FLOTADOR ARGO ARGO - 浮标 Дрейфующий буй проекта «Арго» الرقم المتسلسل





This is scientific equipment, it is not military materiel and has no commercial value.

This float is used for ocean predictions and provides valuable information to many communities, including fishermen.

For your safety DO NOT OPEN this instrument.

If found, please contact the International Argo Information Centre:

phone : +33 5 61 39 47 30 (free) - France

fax : +33 5 61 39 48 40 e-mail : aic@jcommops.org http://argo.jcommops.org

Or contact your local Coast Guard or Fisheries Agency.



Intergovernmental Oceanographic Commission (of UNESCO)

Commission océanographique intergouvernementale (de l'UNESCO)

> Comisión Oceanográfica Intergubernamental (de la UNESCO)

教科文组织 政府间海洋学委员会

اللجنة الدولية الحكومية لعلوم المحيطات (التابعة لليونسكو)

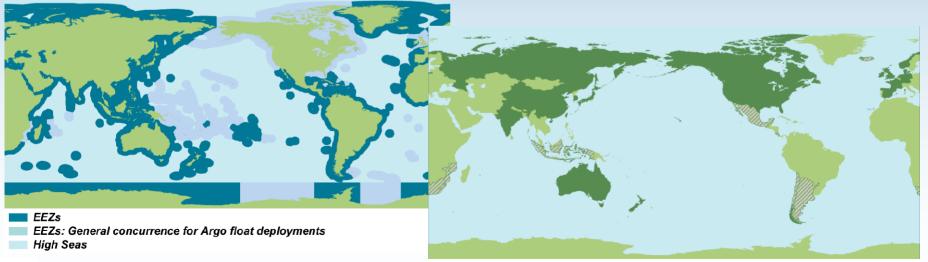
Межправительственная океанографическая комиссия (ЮНЕСКО) How to participate in Argo?

Designate NFP

> Fund floats / Fund the infrastructure (APO/AIC)

Provide deployment opportunities

➢ Facilitate EEZ access





Float Funding & Deployment Deployment

Bilateral Collaborations

➢Float Donations: to Chile, Costa Rica and Mexico value \$15,000 /unit + Communications :

- Shipping paid by recipient
- Deployment location choosen using regional expertise but adhering to Argo standards

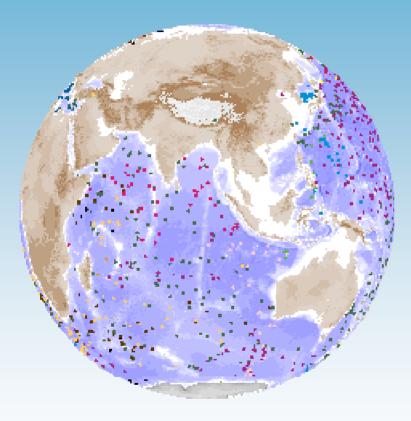
➤ Invitation to support Argo sent by intergovernmental channels (IOC)

≻Visit of TC (seminars, training on float technology)



Thank you ...

... Find more on-line http://www.argo.net



Argo Globe, Courtesy H. Freeland, IOS Canada

