



DBCP 25 8.1 Iridium Pilot Project

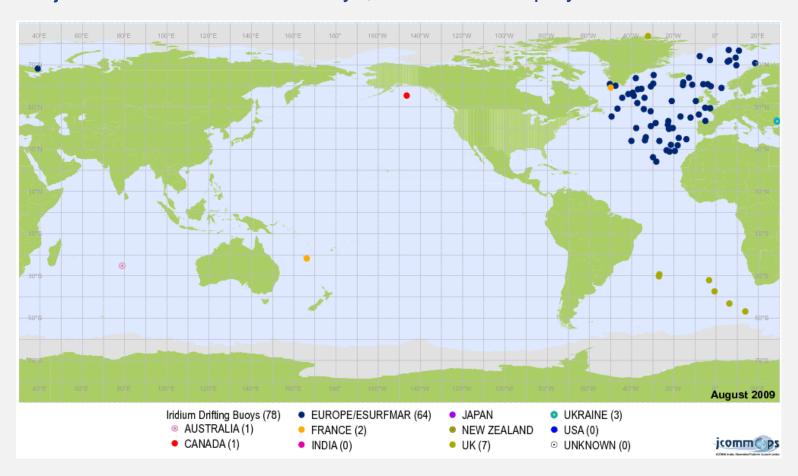
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Network status

Project status - 78 Active buoys, out of ~150 deployed so far.





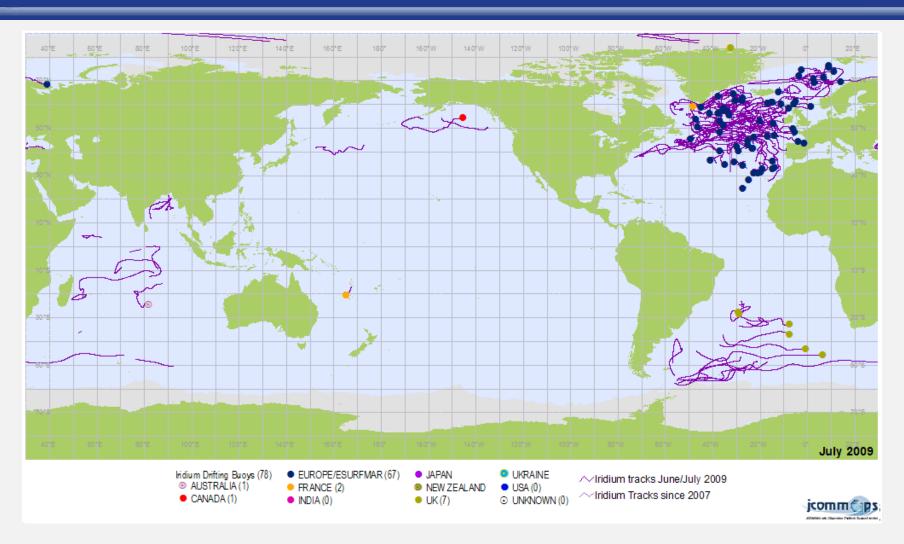
Network Status

	All models	SVPB	SVPBS	SVPB-TC	ICEBUOY
METOCEAN	116	115	1		
MARLIN-YUG	13	10		3	
CLEARWATER	10	10			
PACIFIC GYRE	5	5			
SAMS	1				1
TECHNOCEAN *					
UDELAWARE	1				1
Total	146	137	1	3	2

- Maximum lifetime is 521 days
- Average lifetime so far for all inactive buoys in the project is ~225 days
- Meteo France statistics more conclusive, though sample is still quite small (< 80 inactive buoys).

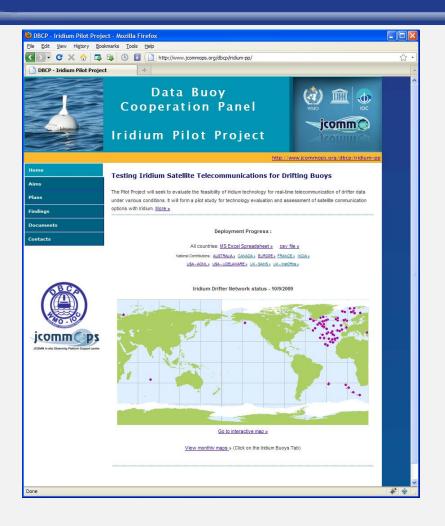


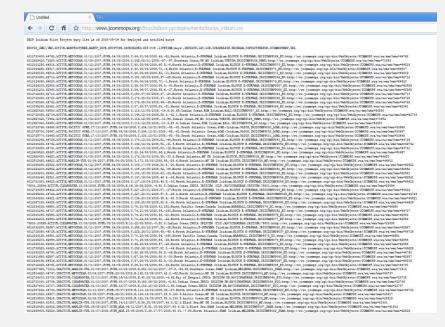
Global coverage so far





Highlights







Message Formats

- The data format updated in the inter-sessional period (Version 4.0)
 - to standardize the way that battery voltage information is recorded
- Some extra data formats created for new buoys types.
- The SVPB manual (DBCP Technical Document 4) was updated to include example Iridium Message formats.



GTS data processing

- Iridium Processing centers:
 - Argos System, CLS/CLS America
 - Meteo France
 - JouBeh.
 - National agencies developing Iridium Data processing capabilities
- New document (draft) for QC checks required by new centers putting data onto the GTS. (background document)



Future plans 2009-10

- Need to seek new participants to provide better global coverage, no real progress in 2009, more effort required.
- Planning and deployment notification:
 - Buoy operators are encouraged to communicate via email (<u>iridium-pp@jcommops.org</u>) with approximate deployment areas for all new IMEI numbers and ships to be used
 - notification of deployment should be sent, as soon as possible after the deployment.
- Update the Terms of Reference to include key success factors and the analysis required in 2010.
 - At DBCP-24 the panel suggested that the project participants document the success factors for the project.



Key Success factors

- Timeliness this element has already been proven
- Lifetimes whether the lifetime of the batteries and transmitters can be increased to meet or exceed the historical average (~18 months)
- Proper global tests tests are needed in areas of the ocean like the Pacific ocean, and Southern Indian ocean
- Demonstration of value of money and overall costs -
 - Relates to communications cost, lifetime and unit cost and a nominal deployment cost which becomes more influential if lifetimes are not increased.
 - Is there potential to organize an international charging scheme, to gain a volume discount?
- Data availability messages dropped or corrupted. Data not getting through. Quality checks.
- Positional Accuracy
- Ability to share Best Practices in Iridium buoy development



Approaches to managing Iridium information globally

- The Argos Database is also directly accessible by the JCOMMOPS information system
 - allowing JCOMMOPS to have appropriate metadata to create its reports but also to check any data issues
- Many different Iridium Processing centers and GTS uplink nodes means we need:
 - a robust and global system of daily location information and metadata sharing upon deployment,

Otherwise

it will be difficult for JCOMMOPS (or other Monitoring systems)
to recognize Iridium buoys adequately within the global network
or to identify anomalies etc.