

Iridium Pilot Project

Update for DBCP-28

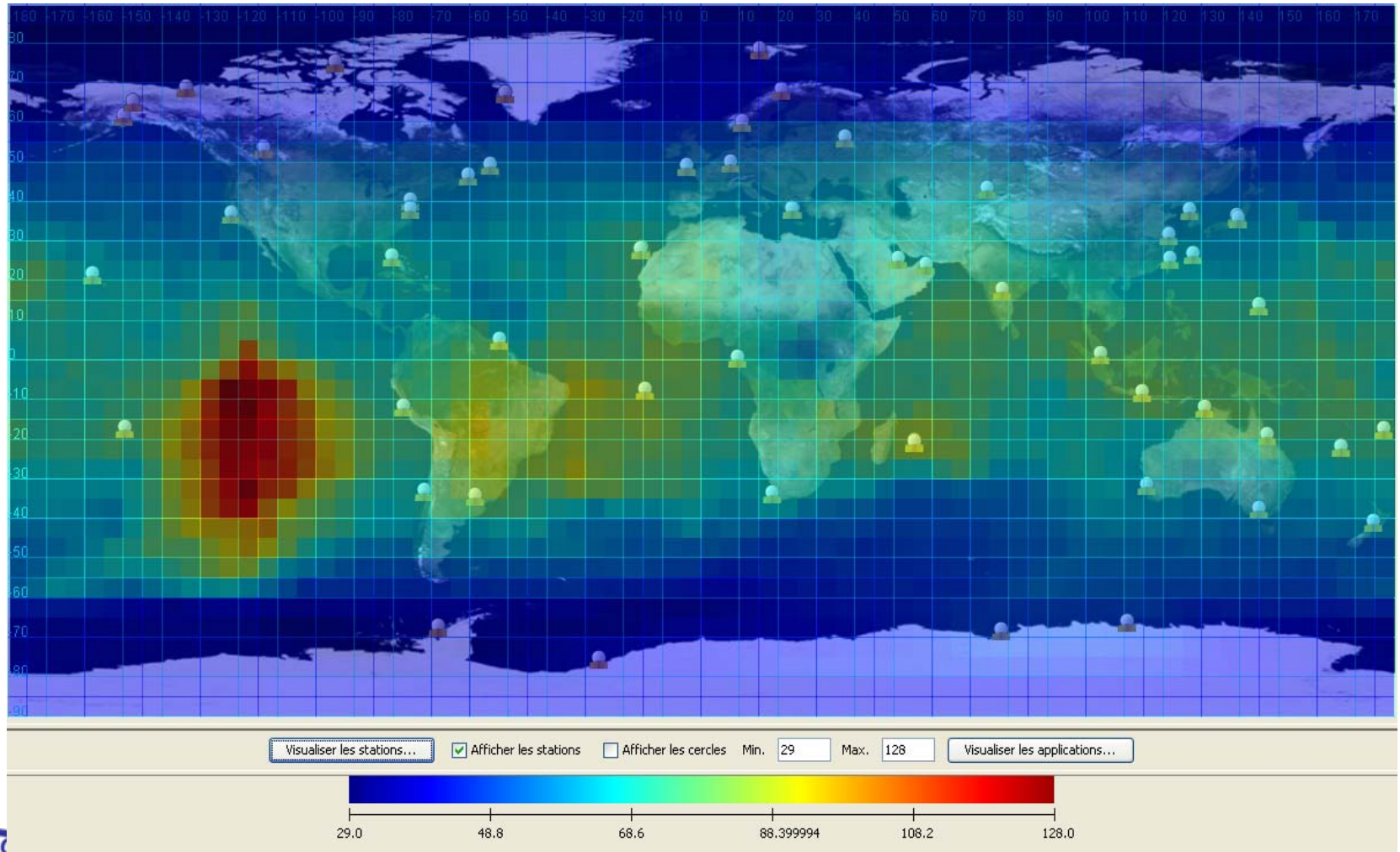


Current situation

- DBCP no longer funding any Pilot Project deployments
- Original target of 50 has been well exceeded (>600) through participation of agencies at no cost to DBCP
- Residual (\$15k) funds have paid for Iridium+GPS+Baro upgrades to target delay holes
 - 10 GDP SVPs
 - Argos delays > 100 mins
 - Poor LUT coverage in S Pacific

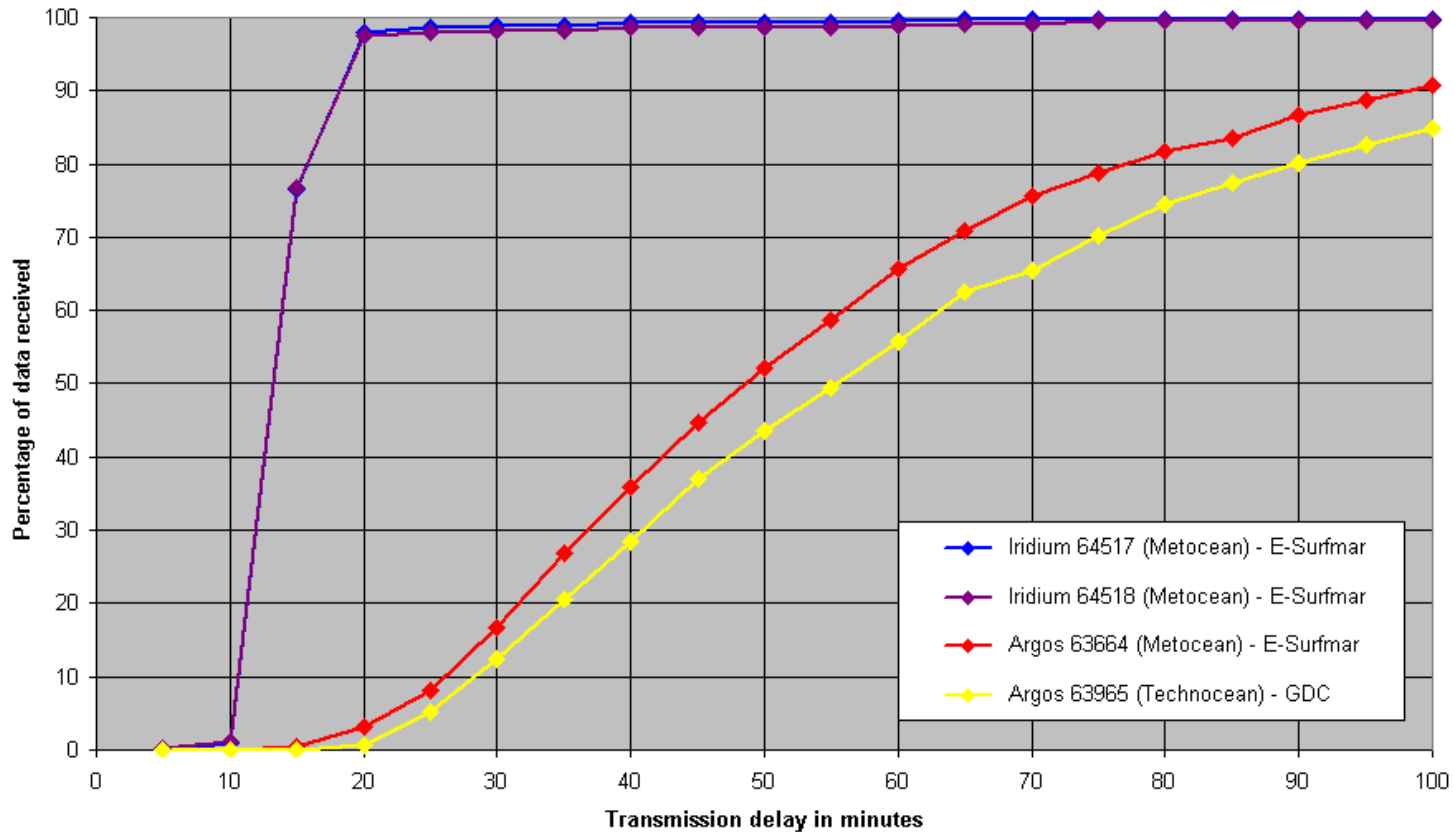


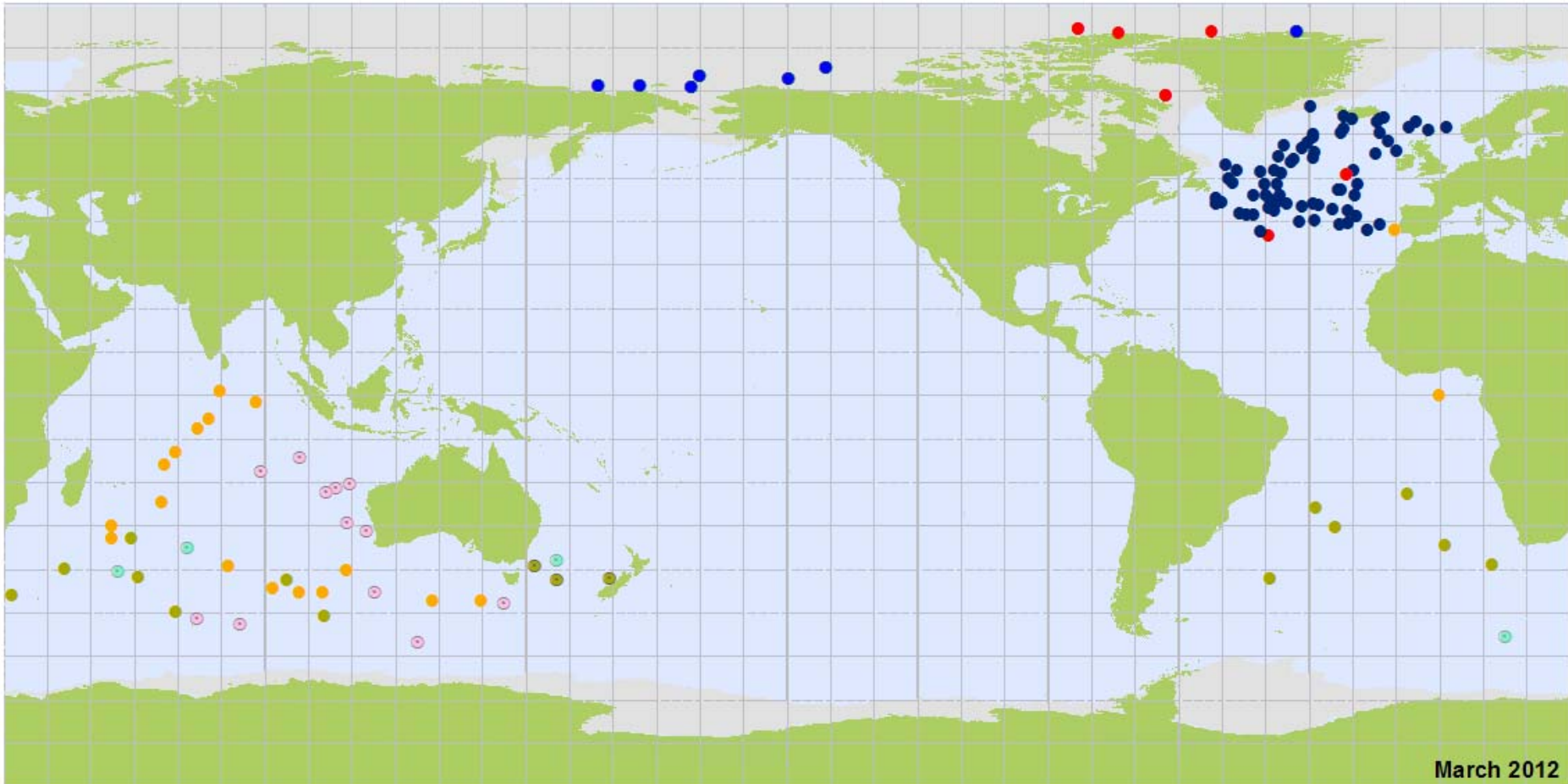
Argos timeliness AFTER antenna upgrades



GTS delays - Iridium

Transmission delays (September 2008) - North Atlantic
30 days of comparison between Iridium and Argos data transmissions



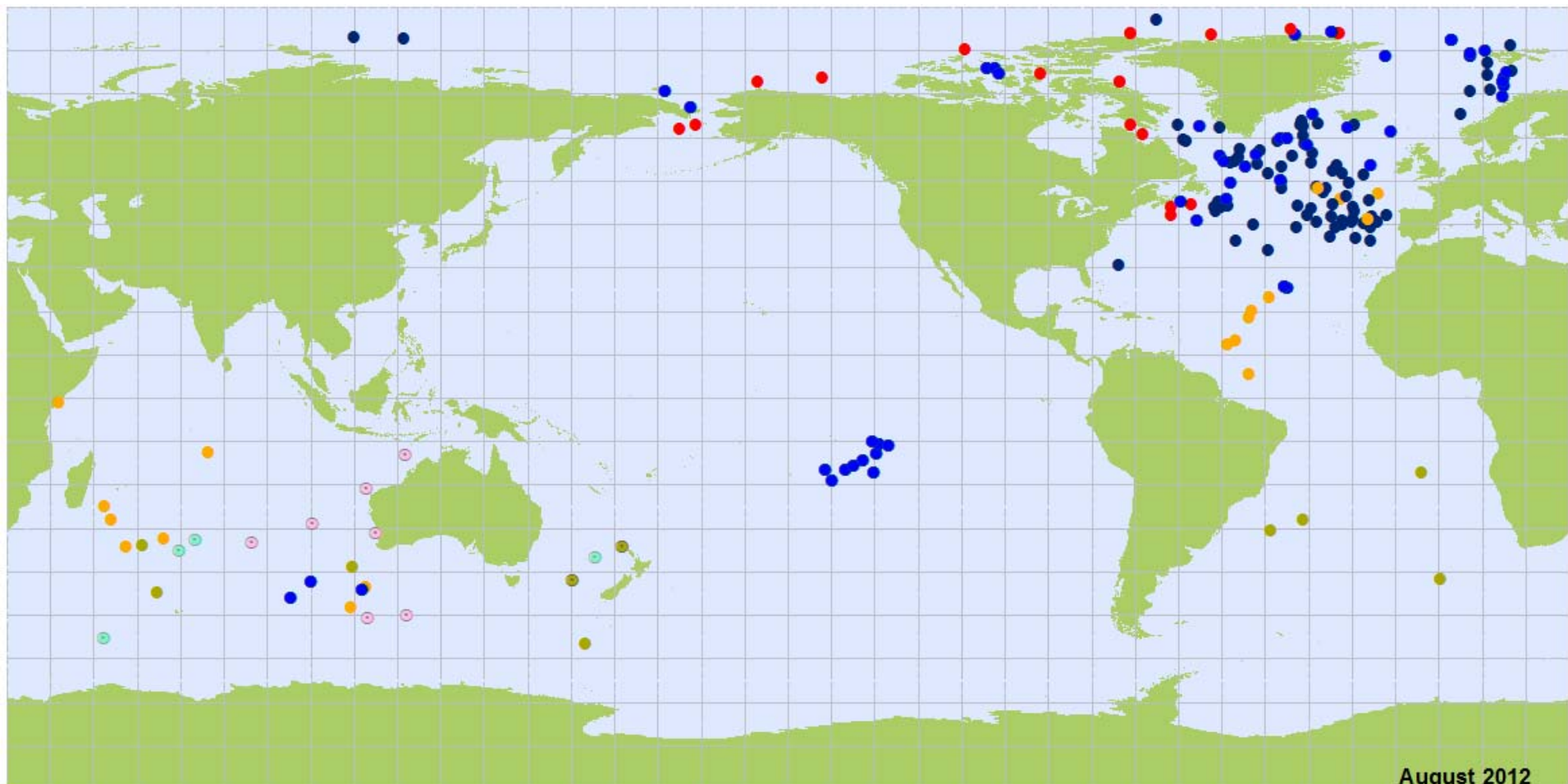


DBCP Pilot Projects (Iridium and Argos-3 Drifters by Country)

Iridium Drifting Buoys (133)

- CANADA (8)
- FRANCE (18)
- SOUTH AFRICA (4)
- USA (7)
- AUSTRALIA (12)
- EUROPE/ESURFMAR (68)
- NEW ZEALAND (3)
- UK (13)



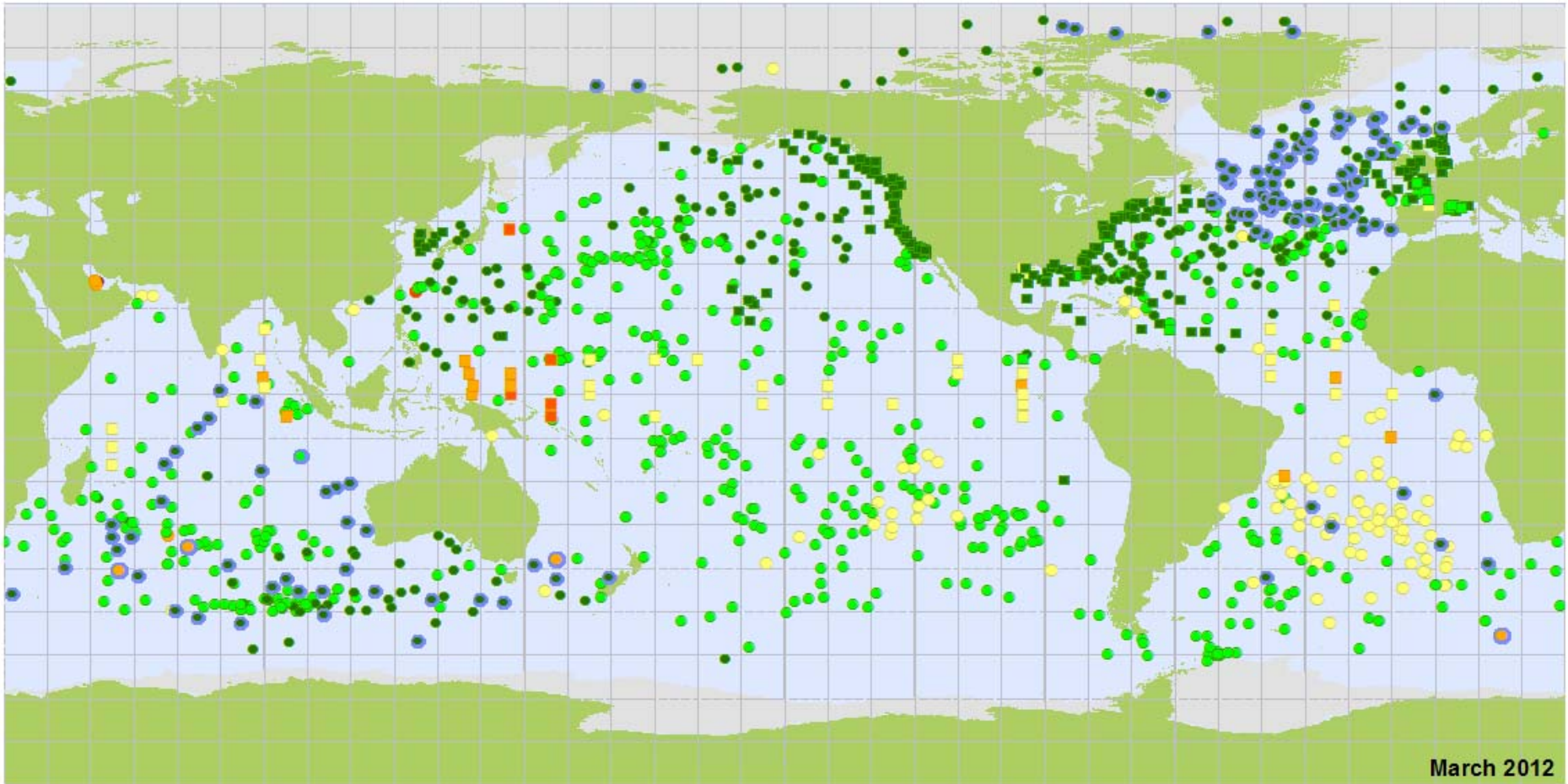


August 2012

DBCP Pilot Projects (Iridium Drifters by Country) Iridium Drifting Buoys (188)

- CANADA (19)
- FRANCE (18)
- SOUTH AFRICA (4)
- USA (53)
- AUSTRALIA (7)
- EUROPE/ESURFAR (77)
- NEW ZEALAND (2)
- UK (8)

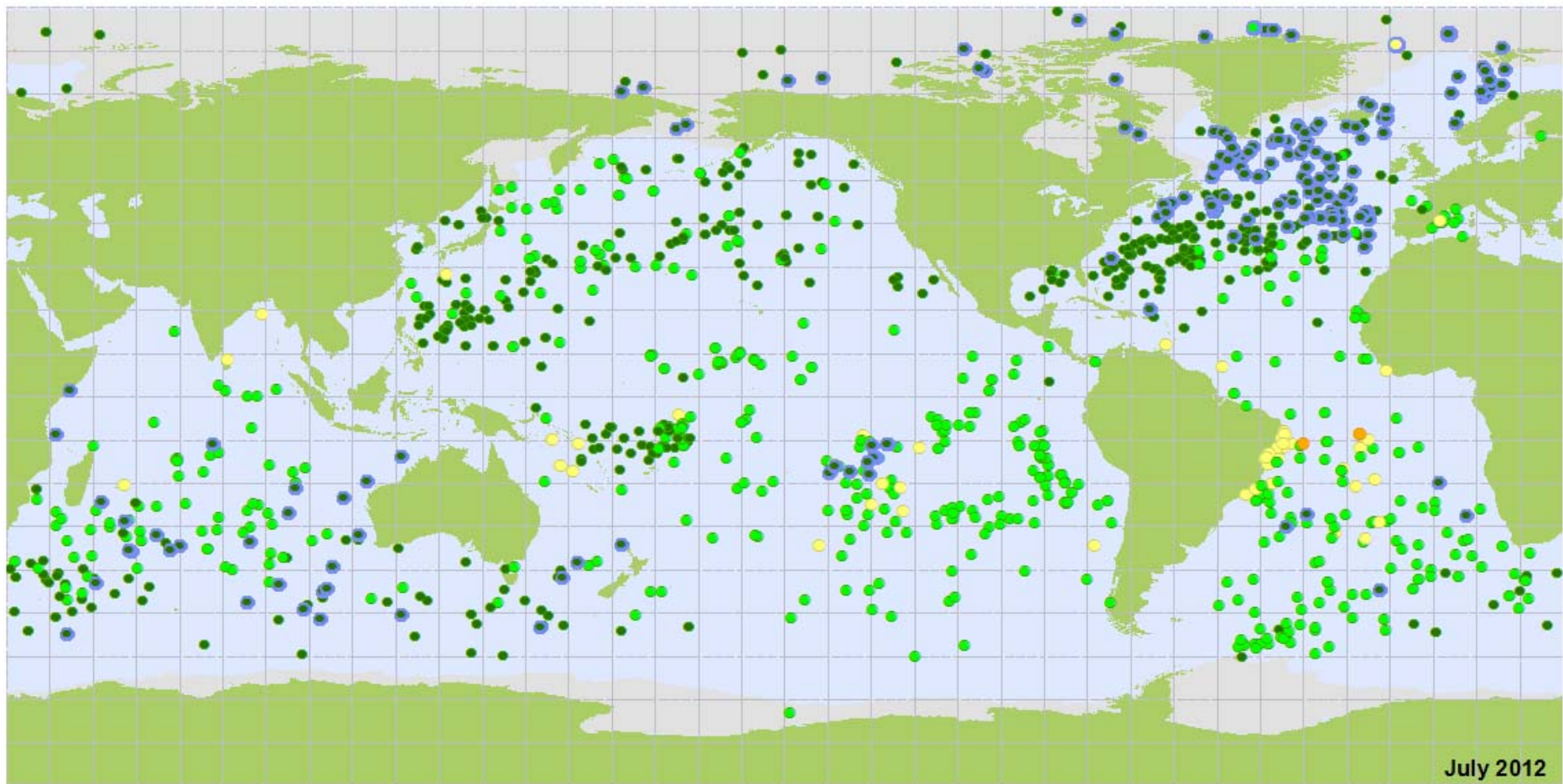




March 2012

Average Delay (Minutes) ● < 60 ● 61 - 120 ● 121 - 180 ● 181 - 240 ● 241 - 300 ● > 300



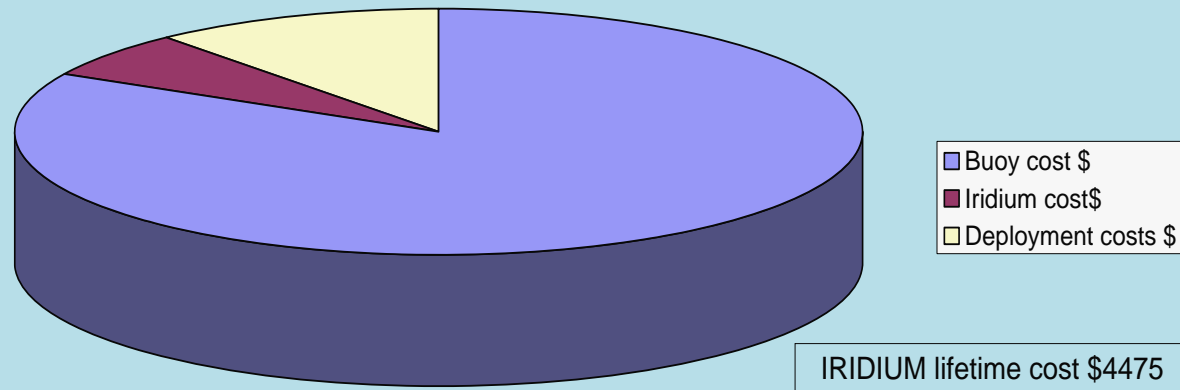
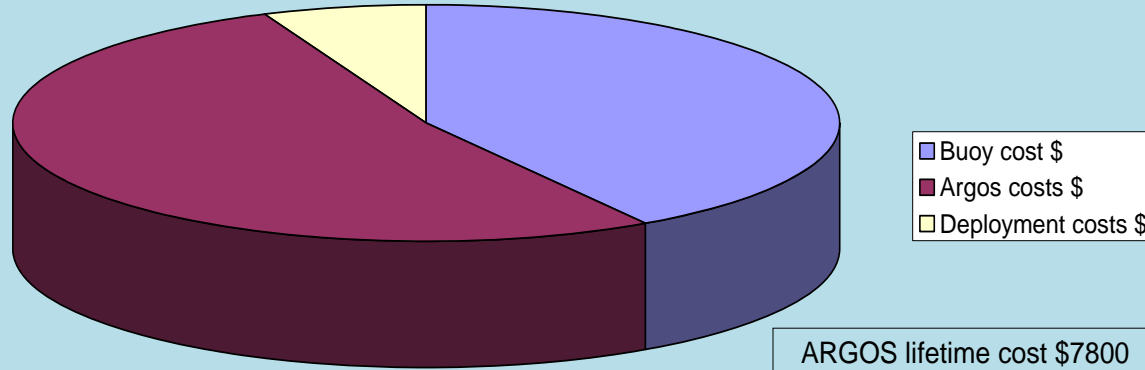


July 2012

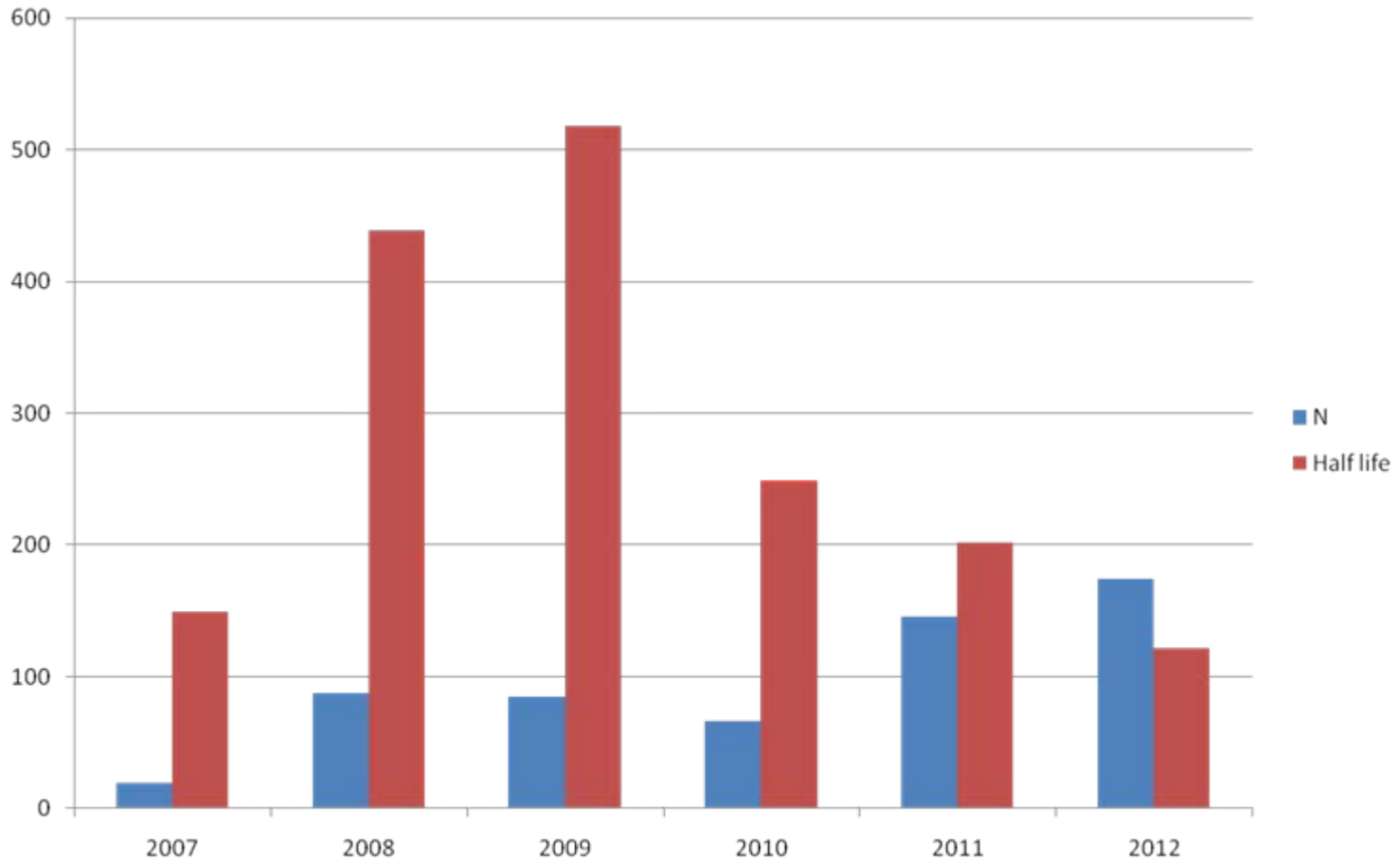
Average Delay (minutes) ● < 60 ● 61 - 120 ● 121 - 180 ● 181 - 240 ● 241 - 300 ● > 300

Lifetime costs

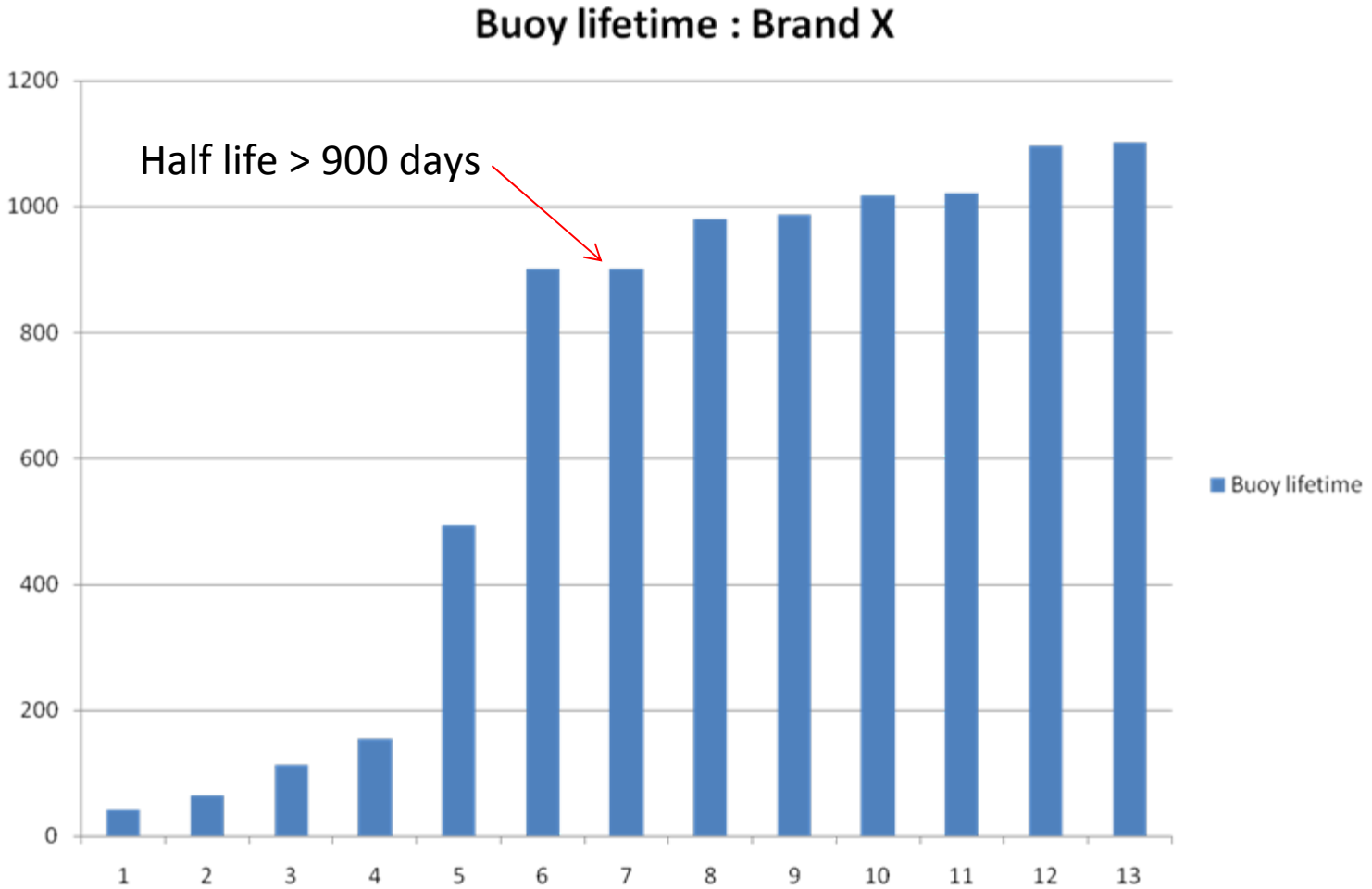
(assuming buoy life of 450 days)



Buoy totals and half-life



Lifetimes can be improved!



Key issues

- Timeliness
 - Performance has already been proven
- Lifetimes
 - Still MUCH room for improvement through proper power management of GPS receiver, quality issues, etc, etc (**Action on manufacturers**)
- Global tests
 - Global coverage has not been achieved
- Demonstration of value of money and overall costs
 - Under analysis (**Action**)
- System management and QC
 - Now have multiple agencies inserting data on to the GTS
 - A worry! (**Action**)
- Development of best practices for Iridium drifters
 - Most drifter manufacturers now producing Iridium SVP-Bs
 - Collective experience should lead to publication of a best practice manual (**Action**)
- Final report still due (**Action on Meldrum**)
- Still need funds for airtime for legacy drifters, including recent S Pacific deployments

