



# **IGCO**

**INTEGRATED GLOBAL CARBON OBSERVATIONS**

# Objectives of an integrated carbon observing system

- **Provide** long-term observations required to improve the understanding of the present state and future behavior of the global carbon cycle
- **Monitor** and **assess** the effectiveness of carbon sequestration and/or emission reduction activities on global atmospheric CO<sub>2</sub> levels
- **Establish** data architecture to ensure interoperability of the carbon observing system of systems

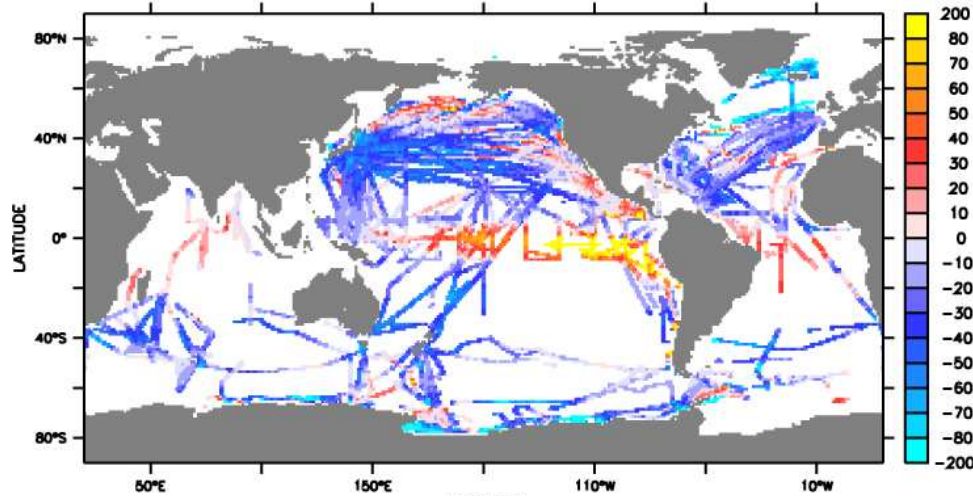
# CL-09-03: Global Carbon Observations and Analysis

- GEO Carbon Strategy Report draft 1.0 released:
  - [http://igco.org/GEO-Report-Nov\\_final\\_13\\_Nov.pdf](http://igco.org/GEO-Report-Nov_final_13_Nov.pdf)
  - Comments requested end of November
  - Approval from UIC?
  - Final glossy to be released at CoP 15
- Carbon presentation at Plenary (Beverly Law, U. Oregon)
- GEO Carbon Side-meeting
  - 9.30-12.30 Wednesday 18th
- GEO-IGOS-P Symposium Thursday 19th

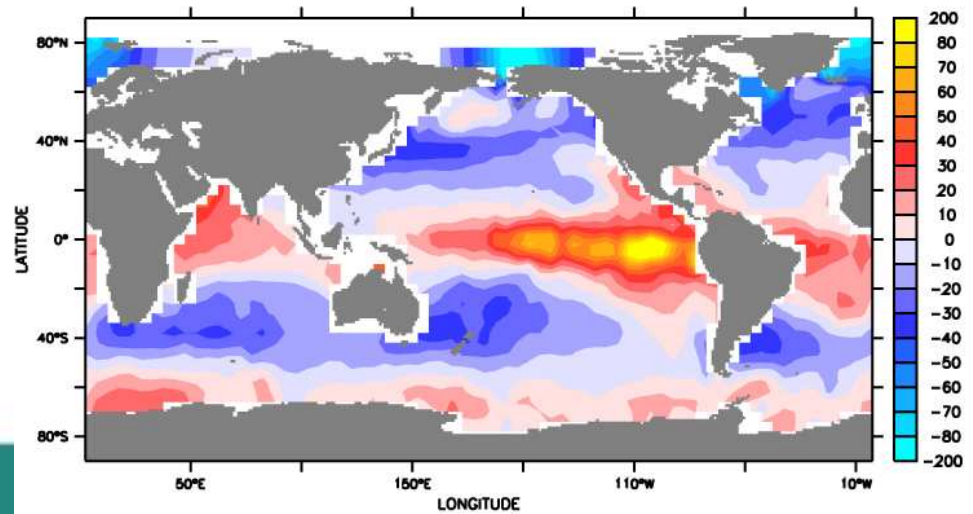
# GEO Carbon Workshop side-meeting

- **Monitoring Greenhouse Gases from Space** (*Takashi Moriyama, JAXA, Japan*)
- **Forest Carbon Tracking** (*TBD*)
- **Terrestrial in situ observations** (*Beverley Law, Oregon State University, USA*)
- **In situ atmospheric observations** and NOAA Carbon Tracker (*John Miller, NOAA, USA*)
- **Integrated Carbon Observations System** (*Peter Rayner, LSCE, France*)
- **An IPCC perspective on Carbon Observations** (*Hoesung Lee, IPCC Vice Chair*)

# Ocean surface fluxes



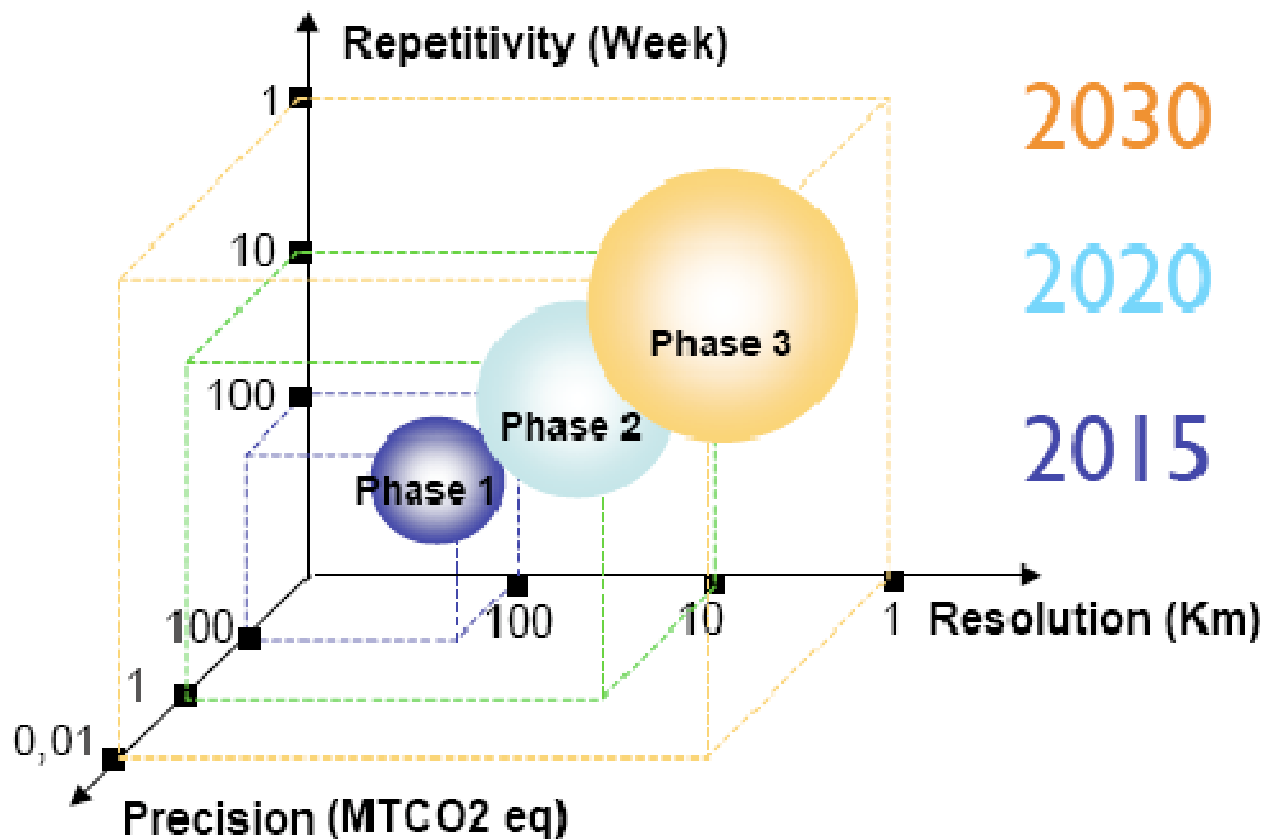
Takashi pCO<sub>2</sub> database



Interpolated product

Takahashi et al (2009) Climatology

# Future IGCO: A seamless deployment of an operational monitoring system



**IGCO**

INTEGRATED GLOBAL CARBON OBSERVATIONS