

# WMO Integrated Global Greenhouse Gas Information System (IG<sup>3</sup>IS) Translating Scientific Advances into Mitigation Services Earth Information Day 2020

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WEATHER CLIMATE WATER  
TEMPS CLIMAT EAU



**WMO OMM**

World Meteorological Organization

Organisation météorologique mondiale



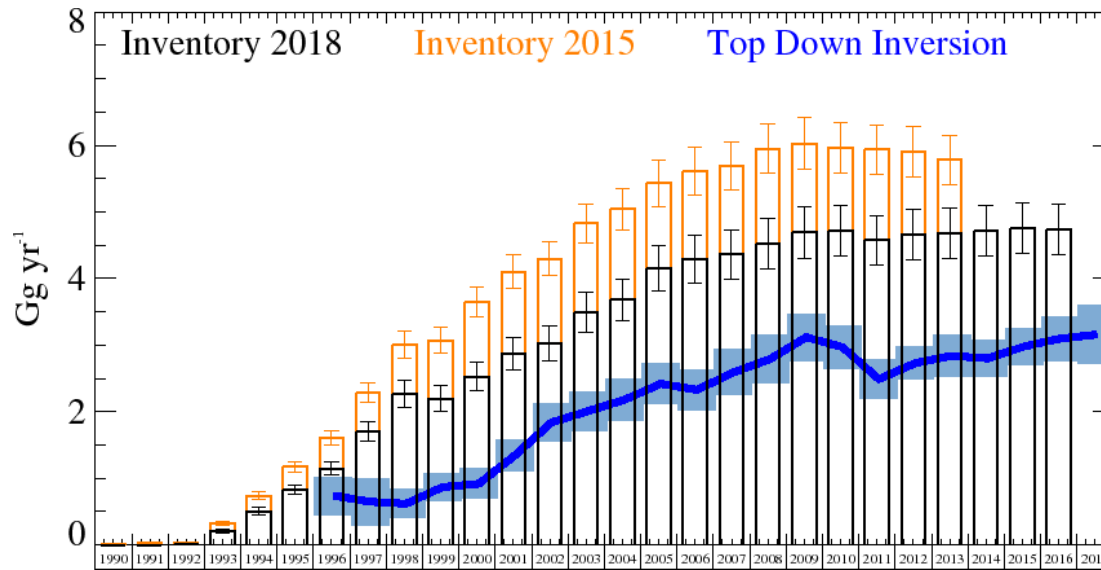
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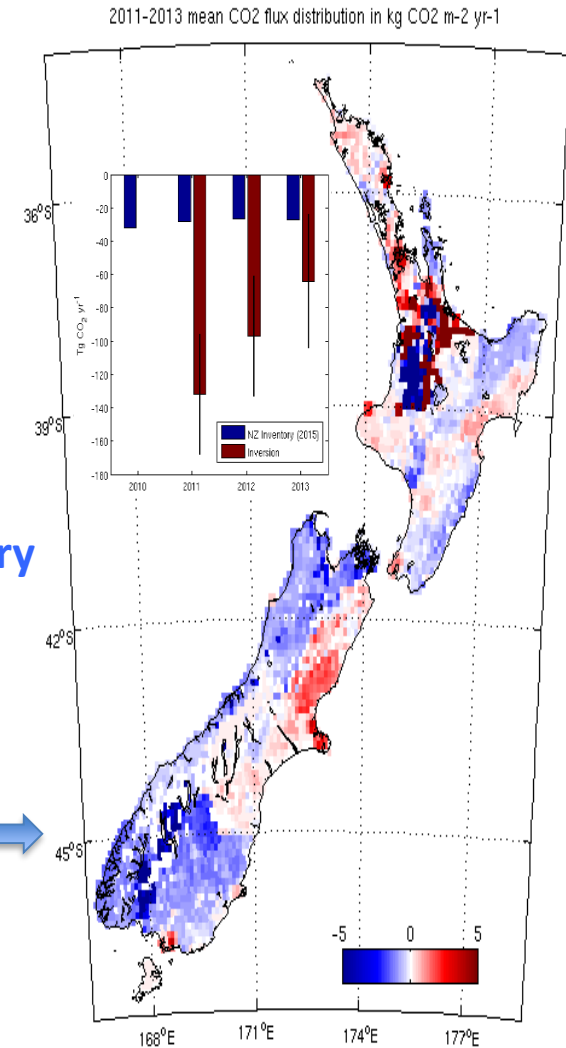
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# Translating atmospheric science into mitigation services – Examples – one IG<sup>3</sup>IS foundational and one IG<sup>3</sup>IS championed



United Kingdom NIR to UNFCCC – HFC-134a emission inventory  
Integrating statistical data with atmospheric measurements

<sup>14</sup>CO<sub>2</sub> measurement and analysis shows much larger  
land carbon uptake than expected in New Zealand -  
government supports ongoing program for NIR



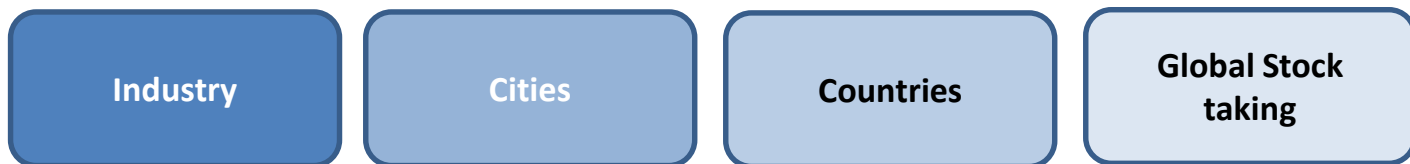
# Integrated Global Greenhouse Gas Information System (IG<sup>3</sup>IS) is



... a common framework for the provision of **systematic services for stakeholder communities** working to reduce their greenhouse gas emissions

- Promote and support the use of atmospheric concentration data to target mitigation opportunities, improve emission estimates and track progress
- Consensus on a coherent set of good-practice methods and guidelines
- Quality control (benchmarking)

## Range of objectives across scales



**Report of the Subsidiary Body for Scientific and  
Technological Advice on its fiftieth session, held in Bonn  
from 17 to 27 June 2019**

59. The SBSTA welcomed the adoption by the WMO Executive Council at its seventieth session of the science implementation plan for a new IG<sup>3</sup>IS.<sup>33</sup> The SBSTA recognized that IG<sup>3</sup>IS is an innovative science-based framework that supports the needs of a broad range of users by combining atmospheric observations with other sources of information to enhance understanding of GHG concentrations and fluxes at multiple spatial scales, and encouraged the use of the framework.<sup>34</sup>

**IPCC Task Force on National Greenhouse Gas Inventories (TFI)**  
***“2019 Refinement to the 2006 IPCC Guidelines for  
National Greenhouse Gas Inventories”***

**Volume 1 - Chapter 6.10.2 – Comparison with atmospheric measurements**