

# S-22をとりまく国際的な研究動向

国立環境研究所地球システム領域  
Global Carbon Project つくばオフィス  
丹羽洋介



# 世界の炭素(二酸化炭素)収支報告書

GLOBAL CARBON project  
Tsukuba Int'l Office

GCP キャンペラ  
日本語 Powered by Google 翻訳

ニュースとイベント プロジェクト 出版物 私たちについて GCP メーリング リストに参加する

グローバルカーボンプロジェクト  
つくば国際オフィス

日本語版資料 公開を始めました

- ハイライト -

https://www.cger.nies.go.jp/gcp/index.html



COP29 (2024)



英国・エクスター大学を中心として「世界の炭素(二酸化炭素)収支報告書」を毎年、COPにて発表

ページ下部に動画のリンクがあります

# 大規模な国際共同研究

## Earth System Science Data

ARTICLES & PREPRINTS ▾ SUBMISSION POLICIES ▾ PEER REVIEW ▾ LIVING DATA PROCESS EDITORIAL BOARD ABOUT ▾ ↗

### Preprint

Preprints / Preprint essd-2024-519

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<https://doi.org/10.5194/essd-2024-519>  
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Abstract Assets Discussion Metrics

13 Nov 2024



Status: this preprint is currently under review for the journal ESSD.

## Global Carbon Budget 2024

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#### Short summary

The Global Carbon Budget 2024 describes the methodology, main results, and data sets used to...  
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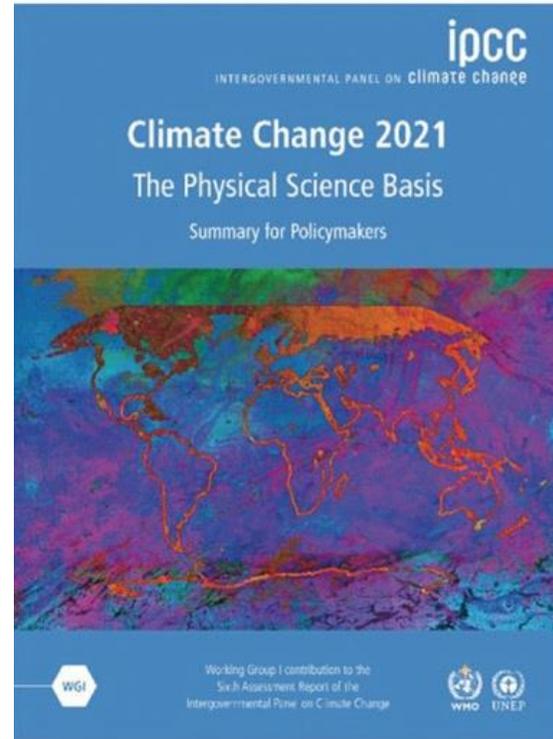
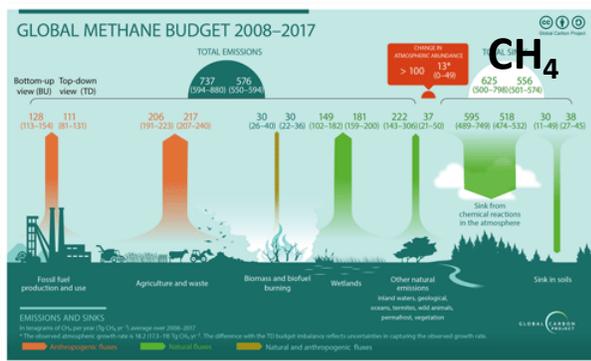
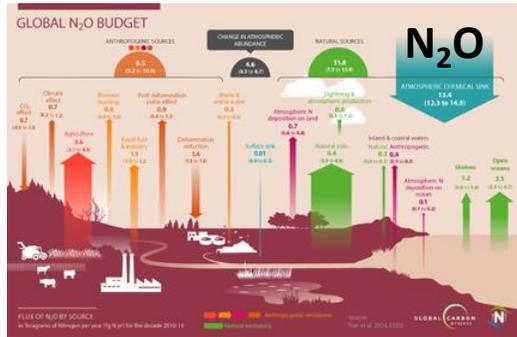
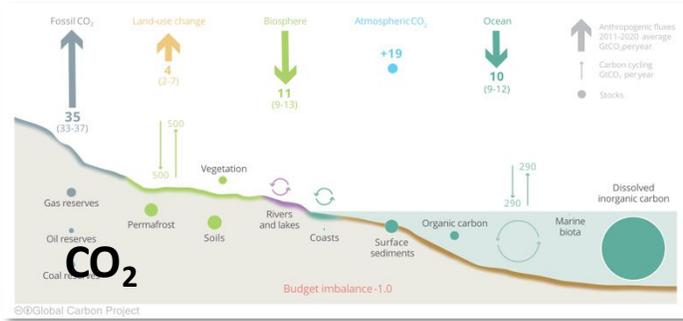


#### Altmetrics

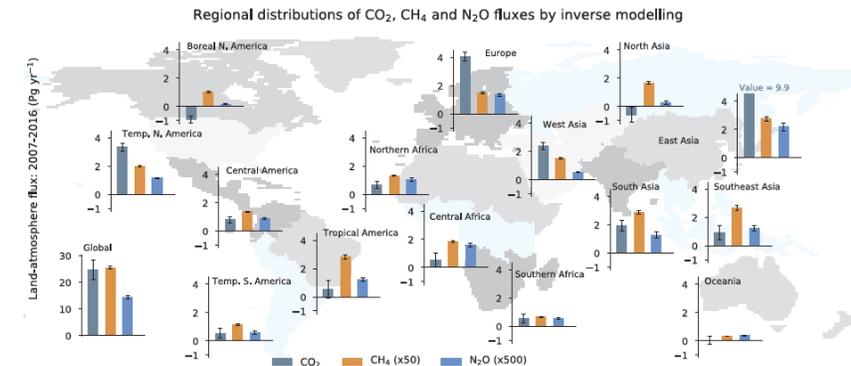


数多くのS-22のメンバーが参画

# GCPの研究成果はIPCCに大きく貢献



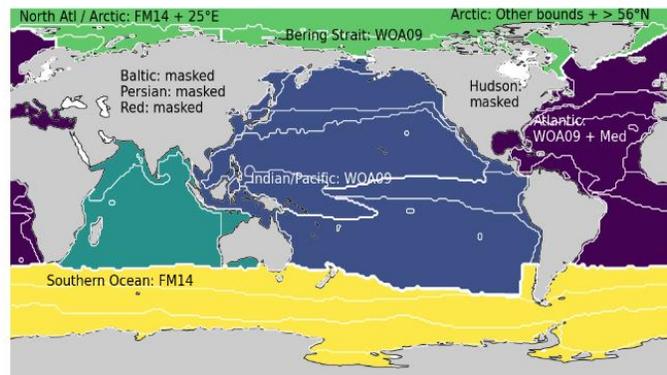
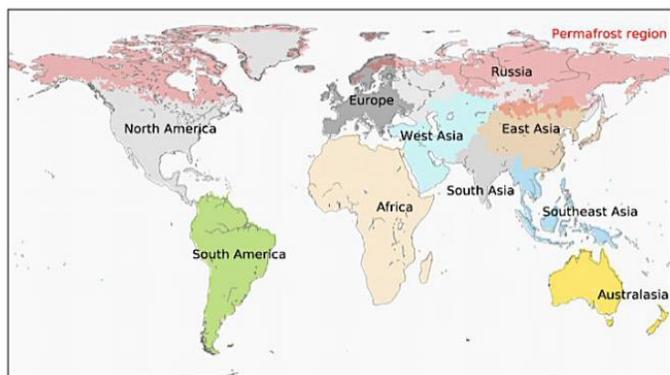
S-22のメンバーであるPrabir Patraさんや石井雅男さんがIPCCAR6第1作業部会報告書第5章のLead Authorとして参加



# GCP-RECCAP



## REgional Carbon Cycle Assessment and Processes2 (RECCAP2) - Overview -



RECCAP3では**国別評価**に

### RECCAP-2 Steering Committee



Ben Ana Pep Prabir Rob Hanqin Judith Niki Philippe Masao

Patraさん

石井さん

# 世界気象機関 (WMO) の新たなプロジェクト



Global Greenhouse Gas  
Watch (G3W)

About G3W

G3W Components

Resources

Events & News

Contact Us

GHG解析のリアルタイム化を目指す  
1ヶ月遅れでフラックス評価を

## Global Greenhouse Gas Watch (G3W)

The **Global Greenhouse Gas Watch (G3W)** initiative is crucial for supporting the objectives of the **Paris Agreement** by improving the monitoring of greenhouse gas (GHG) net fluxes globally. Through enhanced observational networks and advanced data integration, G3W aims to coordinate a **global technical framework** to provide precise, actionable data on GHG net fluxes, **helping countries track progress and make informed decisions in their climate actions.**

The G3W will provide **global monthly net fluxes** of carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), and nitrous oxide (N<sub>2</sub>O) with **1° × 1° geographic latitude-longitude grid resolution** (about 100x100 km spatial resolution), aiming to reduce uncertainties and improve the reliability of GHG monitoring.

This initiative is also instrumental in **addressing data gaps** in critical regions, thereby enabling a more **accurate assessment of global GHG net flux.**

[Read more about G3W](#)



G3Wワークショップ@ジュネーブ (2023年1月)

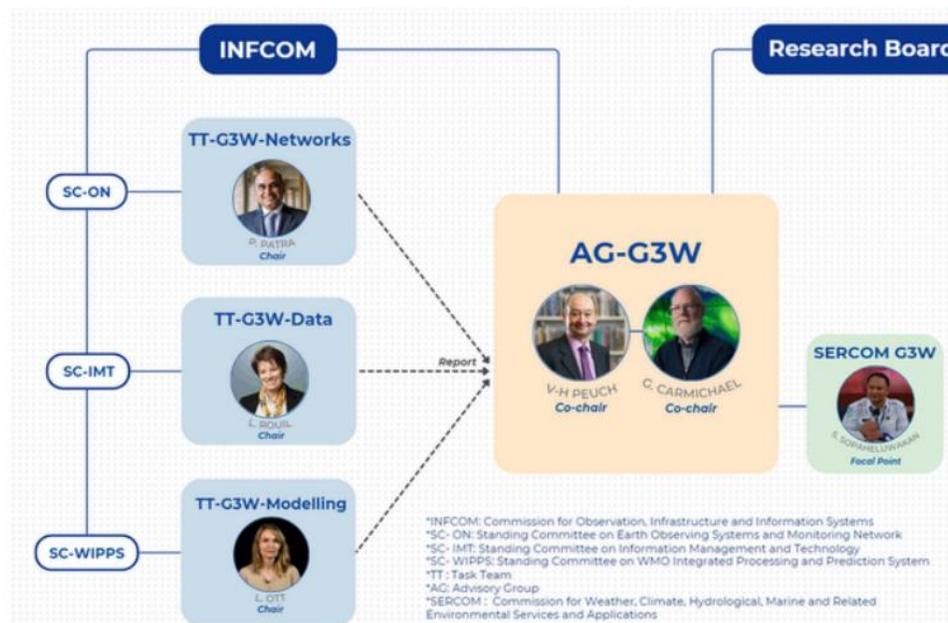
# 計画実現に向けた活動



## G3W IS MOVING FORWARD

Looking to the future, G3W has made significant progress in establishing 3 Task Teams (TT) focusing on critical areas of GHG monitoring: the TT-G3W-Networks, chaired by Dr. Prabir Patra; the TT-G3W Data, chaired by Dr. Laurence Rouil; and the TT-G3W-Modelling, chaired by Dr. Lesley Ott. The Task Teams will be developing basic technical regulatory framework to ensure the successful implementation of the G3W plans with the leadership support of the newly formed Advisory Group (AG-G3W), co-chaired by Prof. Greg Carmichael and Dr. Vincent-Henri Peuch.

ネットワークタスクチーム (TT) の代表はPatraさん。データTT、モデルTTなど含め、気象庁、S-22メンバーが複数参加



G3W is set to integrate its GHG observation infrastructure with WMO systems like the WMO Integrated Global Observing System (WIGOS), WMO Information System (WIS), and WMO Integrated Processing and Prediction System (WIPPS). This integration will enhance the representation of GHGs in global modeling systems, making the data more accessible and actionable for policymakers and stakeholders alike.

# 米国の新たな“センター”

まだ試行段階



# 考えていることは皆同じ？

- グローバル・ストックテイク、待ったなしの排出削減に向けて、  
有用な情報をタイムリーに
- 包括的な情報・データ提供
- 観測データのさらなる充実に向けて