

2021. 01. 20@NIES-Symp.

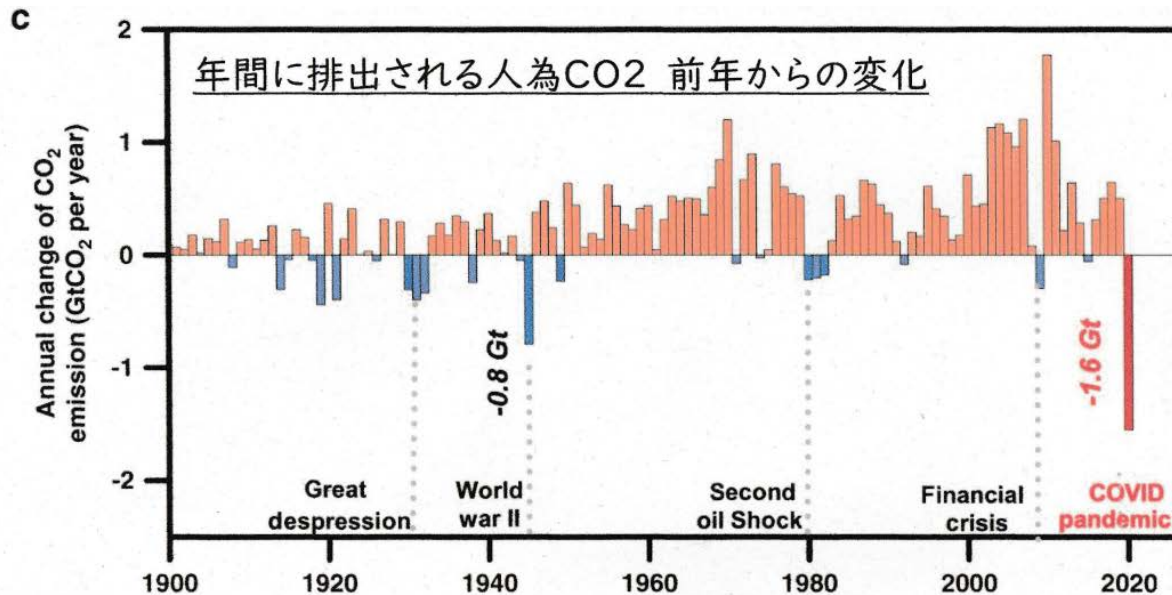


Action for Climate Crisis after COVID-19

Akimasa Sumi

Project Professor, Institute for Future Initiatives
The University of Tokyo
Japan

COVID-19 Impact on Emission



Liu et al. 2020

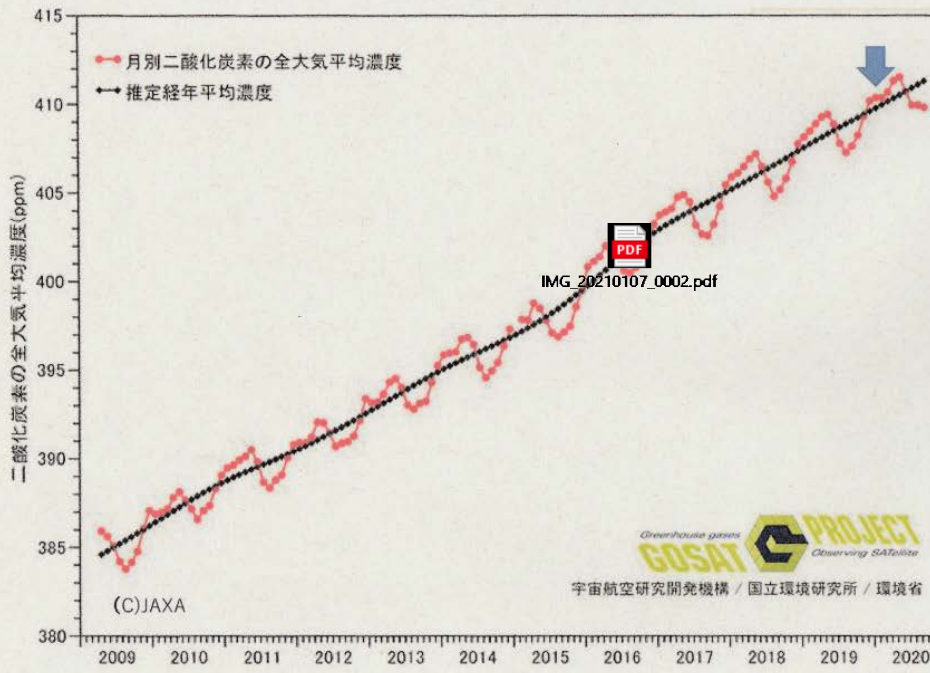
一日に排出される人為CO₂



Change of CO2 in the Atmosphere

1. COVID-19による経済停滞と観測された現象

全大気平均CO2濃度 (ppm)



人工衛星GOSAT:
CO2増加率減少
わずかに観測

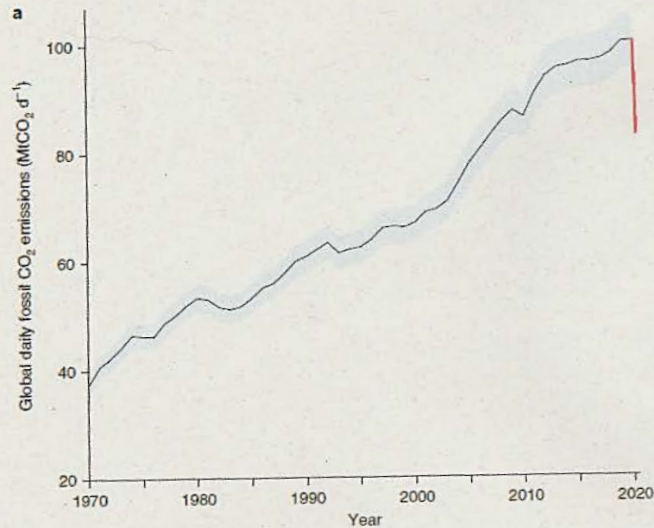
Slightly Decrease



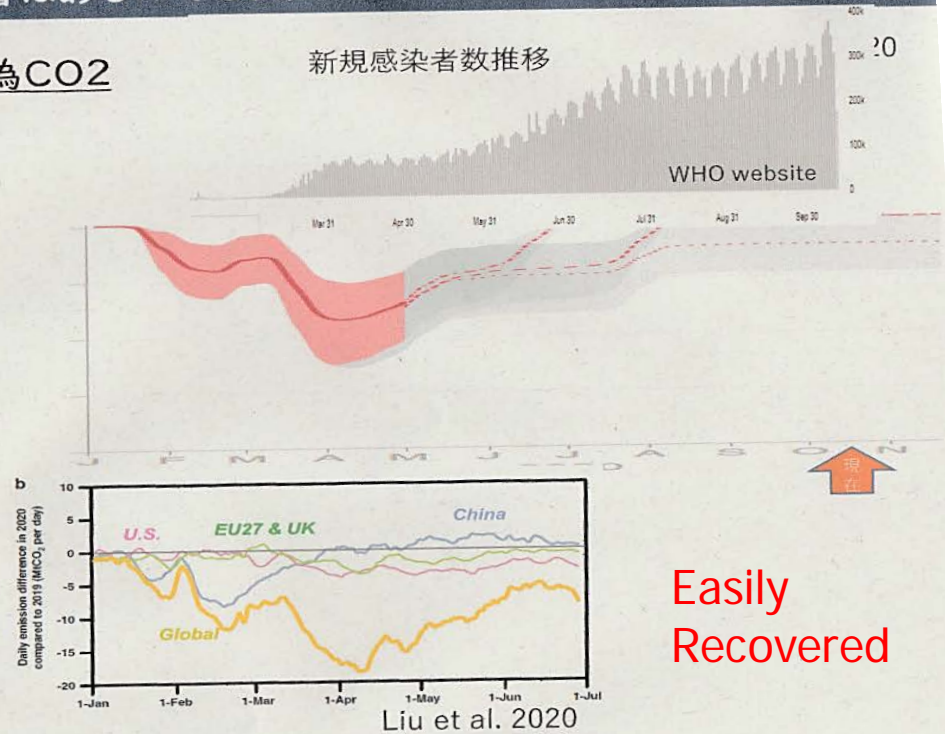
Difficult to maintain

2. ポストコロナ時代、地球温暖化に影響はあるのでしょうか？

一日に排出される人為CO2



新規感染者数推移



Easily Recovered



Lessons

- Emission decreases when economy is **down**.
- It is difficult to continue.
- Back to the past economy, back to CO2 increase.
- Continuous commitment is critical.
- **Low-Carbon society**



After COVID-19(1)

- New Society
- Economically efficiency should be reconsidered!
 - Cost and Benefit → Based on a certain assumption
 - What is “value”?
- Compact or close relation with people
- From goods to entertainment!

- Reconsider an image of Green Society
- Low-Carbon→Energy Efficiency
- Circulate Society→ Less National Resource
- Harmony with the Nature→ A new life-style. We live in the natural Environment!



After COVID-19

- Direct action medicine & Vaccine
- Society Change
- Avoid 3Cs
- Remote work, Tele-meeting
- Mass assembly → appropriate size of meeting
- Quality of Life(QOL)

3 — Cs

- Closed Space
- Crowded Space
- Close-contacted
- Entertainment
- Quality of Life





System Change

- Closed Space → Open Space
- Compact → loosely distributed
- Close distance → appropriate distance

- Avoid high density society mega-city and country town
- Optimal combination between virtual and real
- A network of small and moderate cities
- Logistics
- Information(IT), materials(logistics) and people(transportation)

