EDGAR-HTAPv3 Emissions Mosaic

Overview of development plan

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TF-HTAP Overview

- How do emissions in one part of the world affect air quality in other parts of the world?

- Coordination of global multi-model assessments
EDGAR-HTAPv2

• Published 2015

• Basis for HTAP phase 2 global assessments

• Widespread use beyond the LRTAP Convention
  – ~250 citations
EDGAR-HTAPv2

- Global, 0.1 x 0.1 degree resolution “Emissions Mosaic”
EDGAR-HTAPv2: limitations

- Only 2008 and 2010
  - No trend analysis possible

- Only 7 sectors
  - AIR; SHIPS; ENERGY; INDUSTRY; TRANSPORT; RESIDENTIAL; AGRICULTURE
  - Difficult to assess specific policy interventions

- Outdated
  - Newer information is available
EDGAR-HTAPv3: aspirations

• Longer time series
  – Trend analysis

• Improved sectoral resolution
  – More detailed source-receptor relationships
  – Better basis for emission scenarios

• Additional regional inventories
EDGAR-HTAPv3: timeline

- 2020 Q1: initial scoping
- 2020 Q2-3: data collection and harmonisation
  - Emission sectors
  - Spatial resolution
  - Time period
- 2020 Q3-4: mosaic development and assessment
  - Tool development
  - Consistency checks
- 2021 Q1: initial release
- 2021 Q4: publication
- From 2022: use for TF-HTAP workplan items
EDGAR-HTAPv3: partners

- Global inventory
  - EDGARv5
- Europe
  - CAMS-REG-AP
- North America
  - EPA and Environment Canada
- Asia
  - REASv3: (India, China, Japan, Koreas, South East Asia, Indonesia)
  - MIX: mosaic of regional Asian inventories, under development
- Other regions
  - Australia, Argentina, and Chile
EDGAR-HTAPv3: next steps

• Determine the largest possible set of sectors
  – Discussions ongoing

• Extrapolate beyond 2015
  – CEDS?

• Additional reginoal partners?

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