

CEOS Recommendations on a GHG Constellation



http://ceos.org/document_management/Publications/WGClimate_CEOS-Strategy-for-Carbon-Observations-from-Space_Apr2014.pdf:

Carbon-Action-16:

CEOS Member Agencies with interests in CO2- and CH4-measuring LEO missions will sponsor or co-sponsor one or more workshops (and require a written report) to refine the scientific and policy requirements for quantitative data on atmospheric CO2 and CH4 from low Earth orbit. These meetings should involve the key international science and applications communities in specifying the technical foundation and scientific requirements for as well as the societal benefits of future missions to quantify atmospheric CO2 and CH4 from low earth orbit.

Carbon-Action-17:

The CEOS Atmospheric Composition VC will coordinate the detailed planning and preparation for a constellation of passive and active remote sensing instruments to measure CO2 and CH4 from low Earth orbit with the higher spatial and temporal resolution and accuracy needed to monitor carbon sources and sinks.



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Carbon-Action-18:

CEOS Member Agencies with interests in CO2- and CH4-measuring GEO missions will sponsor or co-sponsor one or more workshops (and require a written report) to refine the scientific and policy requirements for quantitative data on atmospheric CO2 and CH4 from geostationary Earth orbit. These meetings should involve the involve the broad, international science and applications communities in advancing the technical foundation and scientific requirements for as well as the societal benefits of future missions to quantify atmospheric CO2 and CH4 from geostationary orbit.

Carbon-Action-19:

The CEOS Atmospheric Composition VC will coordinate the detailed planning and preparation for a constellation of passive remote sensing instruments to measure CO2 and CH4 from geostationary orbit covering all longitudes with the spatial and temporal resolution and accuracy needed to monitor carbon sources and sinks.

Carbon-Action-20:

The CEOS Atmospheric Composition VC, in cooperation with the CEOS WGCV Atmospheric Composition Subgroup, will provide coordination and support for the cross calibration of all satellite CO2- and CH4-measuring sensors, coordinate their observations, and cross validate their CO2 and CH4 products against accepted international standards, so that they can be integrated into single continuous global climate record.