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## References:

You also might want to reference this paper which describes the global CO<sub>2</sub> CAMS data in more detail:

- A. Agustí-Panareda, S. Massart, F. Chevallier, S. Boussetta, G. Balsamo, A. Beljaars, P. Ciais, N. M. Deutscher, R. Engelen, L. Jones, R. Kivi, J.-D. Paris, V.-H. Peuch, V. Sherlock, A. T. Vermeulen, P. O. Wennberg, and D. Wunch (2016), Forecasting global atmospheric CO<sub>2</sub>, *Atmos. Chem. Phys.*, 14, 11959-11983, <https://doi.org/10.5194/acp-14-11959-2014>
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- Agustí-Panareda, A, Massart, S, Chevallier, F, Balsamo, G, Boussetta, S, Dutra, E, Beljaars, A (2016): A biogenic CO<sub>2</sub> flux adjustment scheme for the mitigation of large-scale biases in global atmospheric CO<sub>2</sub> analyses and forecasts, *ECMWF Technical Memorandum 773*, <http://www.ecmwf.int/en/elibrary/15374-biogenic-co2-flux-adjustment-scheme-mitigation-large-scale-biases-global>
- Anna Agustí-Panareda, Michail Diamantakis, Victor Bayona, Friedrich Klappenbach, and Andre Butz (2017), Improving the inter-hemispheric gradient of total column atmospheric CO<sub>2</sub> and CH<sub>4</sub> in simulations with the ECMWF semi-Lagrangian atmospheric global model, *Geosci. Model Dev.*, 10, 1-18, <https://doi.org/10.5194/gmd-10-1-2017>

For CAMS CH<sub>4</sub> data please refer to:

- S. Massart, A. Agustí-Panareda, I. Aben, A. Butz, F. Chevallier, C. Crevoisier, R. Engelen, C. Frankenberg, and O. Hasekamp (2014), Assimilation of atmospheric methane products into the MACC-II system: from SCIAMACHY to TANSO and IASI, *Atmos. Chem. Phys.*, 14, 6139-6158, 2014, <https://doi.org/10.5194/acp-14-6139-2014>
- Anna Agustí-Panareda, Michail Diamantakis, Victor Bayona, Friedrich Klappenbach, and Andre Butz (2017), Improving the inter-hemispheric gradient of total column atmospheric CO<sub>2</sub> and CH<sub>4</sub> in simulations with the ECMWF semi-Lagrangian atmospheric global model, *Geosci. Model Dev.*, 10, 1-18, <https://doi.org/10.5194/gmd-10-1-2017>

For CO you can also refer to:

- Inness, A., Blechschmidt, A.-M., Bouarar, I., Chabrilat, S., Crepulja, M., Engelen, R. J., Eskes, H., Flemming, J., Gaudel, A., Hendrick, F., Huijnen, V., Jones, L., Kapsomenakis, J., Katragkou, E., Keppens, A., Langerock, B., de Mazière, M., Melas, D., Parrington, M., Peuch, V. H., Razinger, M., Richter, A., Schultz, M. G., Suttie, M., Thouret, V., Vrekoussis, M., Wagner, A., and Zerefos, C. (2015): Data assimilation of satellite-retrieved ozone, carbon monoxide and nitrogen dioxide with ECMWF's Composition-IFS, *Atmos. Chem. Phys.*, 15, 5275-5303, doi:[10.5194/acp-15-5275-2015](https://doi.org/10.5194/acp-15-5275-2015).

For CO<sub>2</sub> and CH<sub>4</sub> concentrations from the MACC flux inversion systems, please acknowledge Bergamaschi et al. (2007, 2009) and Chevallier et al. (2010). See the list of the publications documenting the two products below.

- Bergamaschi, P., C. Frankenberg, J. F. Meirink, M. Krol, F. Dentener, T. Wagner, U. Platt, J. O. Kaplan, S. Koerner, M. Heimann, E.J. Dlugokencky and A. Goede (2007), Satellite cartography of atmospheric methane from SCIAMACHY on board ENVISAT: 2. Evaluation based on inverse model simulations, *J. Geophys. Res.*, 112, D02304, [10.1029/2006JD007268](https://doi.org/10.1029/2006JD007268).
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For AOD, please refer to:

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- Kaiser, J. W., Heil, A., Andreae, M. O., Benedetti, A., Chubarova, N., Jones, L., Morcrette, J.-J., Razinger, M., Schultz, M. G., Suttie, M., and van der Werf, G. R.: Biomass burning emissions estimated with a global fire assimilation system based on observed fire radiative power, *Biogeosciences*, 9, 527-554, doi:[10.5194/bg-9-527-2012](https://doi.org/10.5194/bg-9-527-2012), 2012.

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