

## ECCO Version 4: Fourth Release (1992-2017) ECCO V4r4

<https://podaac.jpl.nasa.gov/ECCO>

This dataset contains ECCO V4r4 ancillary data. The tar file ancillary\_data\_data\_constraints\_ECCO\_V4r4.tar contains V4r4 observation input in the directory data\_constraints:

FILE/DIRECTORY	DESCRIPTION
README	README file
data_error	data errors and smoothing scale files
input_bp	ocean bottom pressure
input_insitu	in situ data
input_seaice_conc	sea-ice concentration
input_other	other observations
input_sla	altimetry data
input_sss	Aquarius sea surface salinity
input_sst	sea surface temperature

### - References:

ECCO Consortium, Fukumori, I., Wang, O., Fenty, I., Forget, G., Heimbach, P., & Ponte, R. M. (2021, February 10). Synopsis of the ECCO Central Production Global Ocean and Sea-Ice State Estimate (Version 4 Release 4). <https://doi.org/10.5281/zenodo.4533349>

Fukumori, I., O. Wang, I. Fenty, G. Forget, P. Heimbach, and R. M. Ponte, 2017: ECCO Version 4 Release 3, <http://hdl.handle.net/1721.1/110380>. <https://doi.org/1721.1/110380>

Forget, G., J.-M. Campin, P. Heimbach, C. N. Hill, R. M. Ponte, and C. Wunsch, 2015: ECCO version 4: an integrated framework for non-linear inverse modeling and global ocean state estimation. *Geoscientific Model Development*, 8, 3071-3104. <https://doi.org/10.5194/gmd-8-3071-2015>

**- Software:**

The ECCO V4r4 files were produced using the 'checkpoint66g' versions of the general circulation model (MITgcm and ECCO v4 settings), Python analysis package (ECCOv4-py), and Matlab analysis toolboxes (gcmfaces and MITprof). These software versions are available at [http://mitgcm.org/download/other\\_checkpoints/](http://mitgcm.org/download/other_checkpoints/), <https://github.com/ECCO-GROUP/ECCOv4-py>, and <https://github.com/MITgcm/gcmfaces>.

**- Contact Us:**

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README file revision history:  
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- README file creation [Ou Wang and Ian Fenty] [2021/06/28]