

Table of Contents

Data for model evaluation.....	1
Where is the data located?.....	1
/chemie/SAT_DATA/.....	1
/chemie/tummonf/observational_data/.....	1
/chemie/revelll/SWOOSH/.....	1
/chemie/stenkea/tummonf/observational_data/ozonesonde_data/.....	1

Data for model evaluation

- You need data to look if your data coming out of the model is realistic?
- We have some observational or reanalysis data stored on hydro: from your machine, go either logon via ssh onto hydro (or access directly via /net/hydro/ to the machine)

Where is the data located?

/chemie/SAT_DATA/

- **HALOE/**: climatology (Grooss and Russell, 2005) on geographical and equivalent latitudes: CH₄, O₃, H₂O?, HF, HCl, NO_x
- **NIWA/**: homogenized TOMS/SBUV/GOME total column ozone data set 1978 - 2004 (Bodeker et al., 2001)
- **SCIAMACHY/**: CH₄, 2003 - 2009
- **MIPAS/**: CH₄, F-11, F-12, H₂O?, O₃, 200207 - 200403

/chemie/tummonf/observational_data/

- **BDBP_ozone/**:
<http://www.bodekerscientific.com/data/monthly-mean-global-vertically-resolved-ozone>
- **ENSO34index_data/**: NOAA ENSO 3.4 index 1870-2017
- **ground_observations/**
 - ◆ CO/
 - ◆ NO_x/
 - ◆ O₃/
 - ◆ PAN/
- **NAOindex_data/**
- **ozonesonde/**
 - ◆ O3sonde_Liu2013_traj-filled/
 - ◆ O3sonde_stations_dataAndyDelCloo/
 - ◆ uccle_ozonesondes/
- **satellite/**
 - ◆ AIRS_data/
 - ◆ merged_O3_datasets/
 - ◆ OMI_data/
 - ◆ SBUV_individual/
 - ◆ ESA-CCI_O3_datasets/
 - ◆ MOPITT_data/
 - ◆ OSIRIS_O3data/
 - ◆ TES_data/

/chemie/revel11/SWOOSH/

- swoosh-v02.5-198401-201512-latpress-2.5deg-L31.nc (other SWOOSH data also available here:
/chemie/tummonf/observational_data/satellite/merged_O3_datasets/SWOOSH/)

/chemie/stenkea/tummonf/observational_data/ozonesonde_data/

- **BIRA_stationdata/**

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