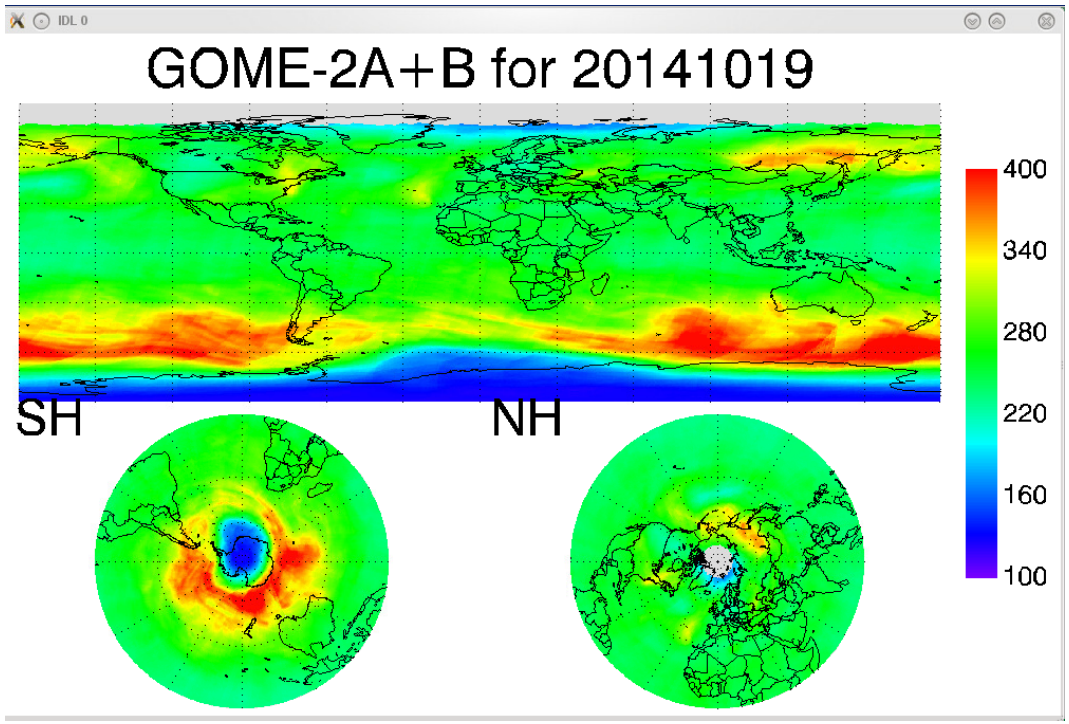


Practical on retrieval (DOAS)

Michel Van Roozendael, BIRA-IASB

ATC14, 27-31 October, Jülich, Germany

Mapping this year ozone hole using GOME-2

Step 1:

Setting-up QDOAS for GOME-2 instrument and ozone slant column fitting

- Set-up wavelength calibration
- Set-up analysis window
- Run test analysis and visualize fitting results using the QDOAS GUI

Mapping this year ozone hole using GOME-2

Step 2:

Process one full orbit of recent GOME-2 Lv1 data using doas_cl (approx. 3 min), and visualise results using IDL plotting facilities:

- O_3 slant columns
- Effective temperatures
- AMF (geometrical approximation)
- Ring effect
- O_3 vertical columns…

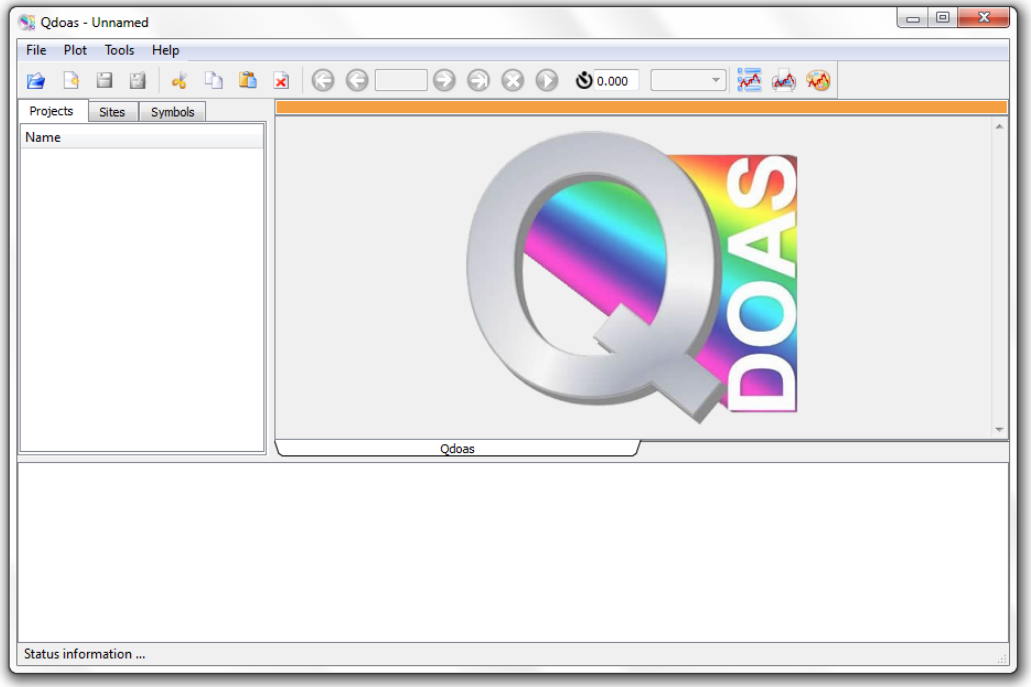
Mapping this year ozone hole using GOME-2

Step 3:

Map one full day of O_3 VCDs (slant columns pre-processed off-line), and compare with operational data sets:

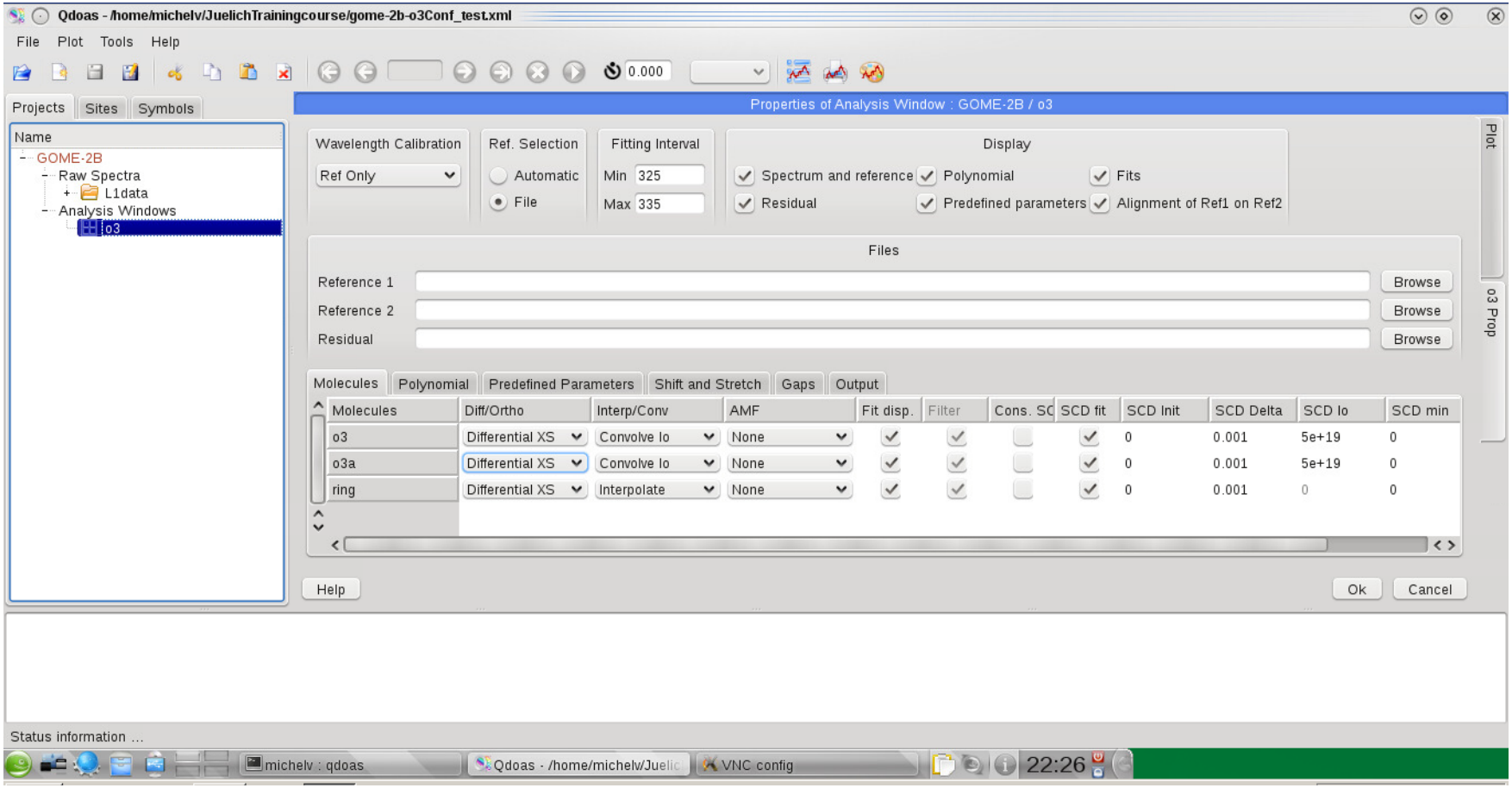
- GOME-2B
- GOME-2A
- GOME-2A + GOME-2B
- How different are the products? Discuss possible causes for differences.

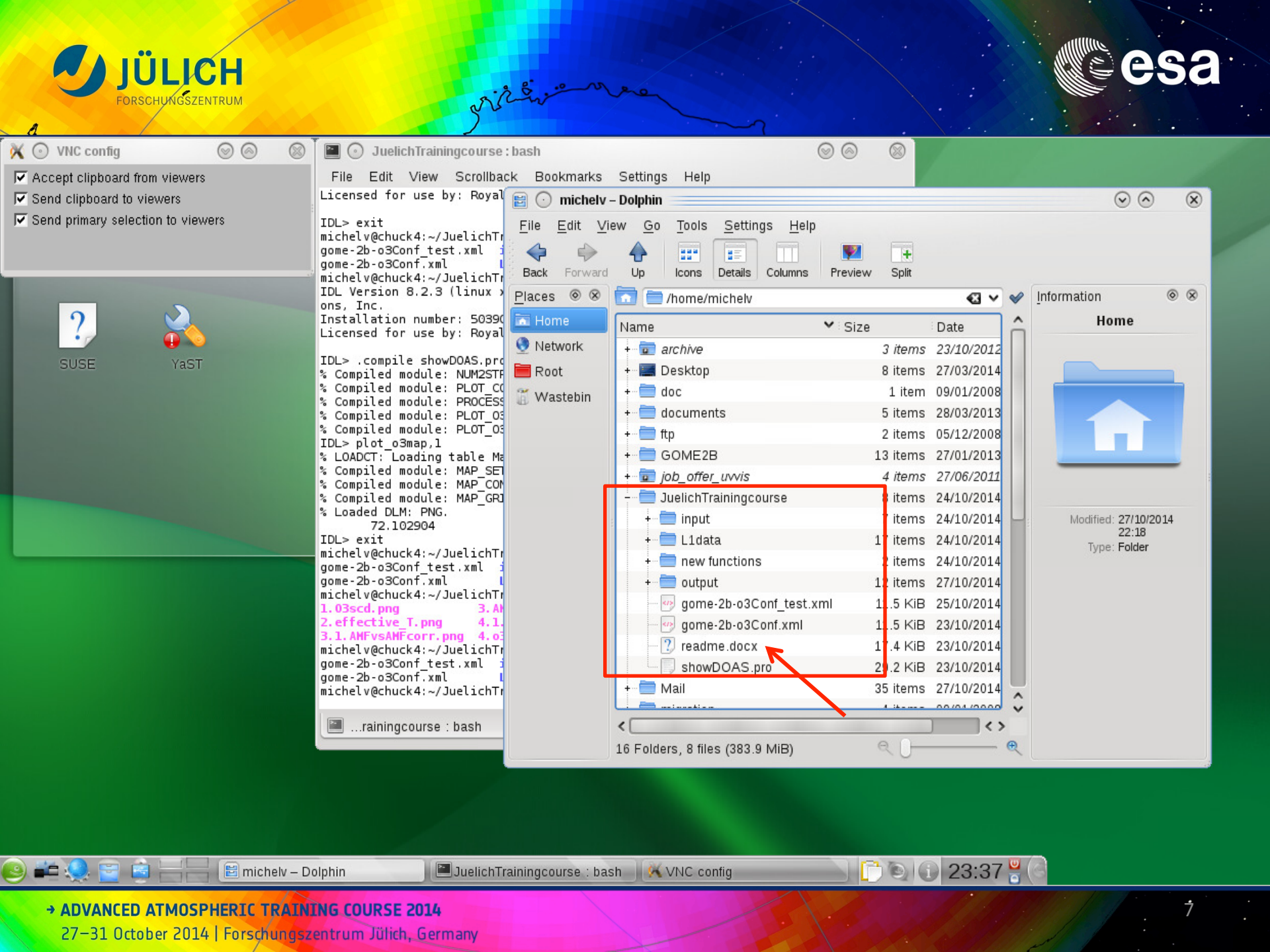
Playing with the QDOAS software



- Load project
- Edit project
- Navigate through the GUI and understand the basic functionalities
- Edit analysis window, play with different options
- Run test analysis and visualise fitting results

Example: the analysis window




JÜLICH
FORSCHUNGSZENTRUM
esa
VNC config
Accept clipboard from viewers
Send clipboard to viewers
Send primary selection to viewers
SUSE
YaST
JuelichTrainingcourse : bash
File Edit View Scrollback Bookmarks Settings Help
michelv – Dolphin
File Edit View Go Tools Settings Help
Back Forward Up Icons Details Columns Preview Split
Places
Home
Network
Root
Wastebin
/home/michelv
Name Size Date
archive 3 items 23/10/2012
Desktop 8 items 27/03/2014
doc 1 item 09/01/2008
documents 5 items 28/03/2013
ftp 2 items 05/12/2008
GOME2B 13 items 27/01/2013
job_offer_uvvis 4 items 27/06/2011
JuelichTrainingcourse
input
L1data
new functions
output
gome-2b-o3Conf_test.xml
gome-2b-o3Conf.xml
readme.docx
showDOAS.pro
Mail 35 items 27/10/2014
Information
Home
Modified: 27/10/2014 22:18
Type: Folder
16 Folders, 8 files (383.9 MiB)
michelv – Dolphin
JuelichTrainingcourse : bash
VNC config
23:37
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