

Practicals:

FinGoods data analysis, retrieval, and validation

Note: The software supplied is only a subset of FinGoods

Instructions:

1. Move (cd) to the **fingoodsesa** directory after launching Matlab.
Leopard/Local/LocalApp/matlab-R2007b
Leopard/Users/shared/practicals/fingoodsesa
2. In Matlab issue a command `myfingoodspaths` to set paths.
3. GUI programs are activated by commands `plotggom`, `plotgosi`,
`osigomval`, `rungomlab`, `runlimblab`.
4. There are data only from 2006!

- GOMOS data: Use **plotggom** to find the three ozone maxima. Try to do the same with Osiris data using **plotgosi**.
- Compare GOMOS and OSIRIS O3, NO2. aerosol profiles using **osigomval**.
- Use **runlimblab** to make simulation, retrieval and analysis of limb scatter measurements. Change signal noise, initial values and prior values. Compare with the simulation. Use `show iter(ations)` to follow LM in action.
- Use **rungomlab** to experiment with the GOMOS retrieval. Retrieve first by not using DOAS or air a priori. Then compare these alternatives to the default version.

To get latest version of the software, contact me (erkki.kyrola@fmi.fi)

Note: You are not allowed to use my programs as examples of bad programming!