

# Working with data for water in FBFS

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# Discovery and Access

- WASCAL: [WASCAL:](https://icg4wascal.icg.kfa-juelich.de/wascal_searchportal2/index.jsp)
- [https://icg4wascal.icg.kfa-juelich.de/wascal\\_searchportal2/index.jsp](https://icg4wascal.icg.kfa-juelich.de/wascal_searchportal2/index.jsp) ;
- DivaGIS: <http://www.diva-gis.org/> ;
- ILRI web site: <https://data.ilri.org/> ;  
<https://data.ilri.org/portal/>
- NASA: <http://climate.nasa.gov/> ; <http://data.giss.nasa.gov/> ;
- NOAA: <https://www.climate.gov/maps-data> ;  
<http://w2.weather.gov/climate/>
- GoogleEarth/googleMap: <https://www.google.com/earth/> ;  
<https://www.google.fr/maps>
- USGS glovis/Earth Explorer: <http://glovis.usgs.gov/> ;  
<http://earthexplorer.usgs.gov/>

# Farming/Cropping Systems

- DSSAT: <http://dssat.net/>
- Apsim: <https://www.apsim.info/>
- AquaCrop: <http://www.fao.org/nr/water/aquacrop.html>
- Cropwat: <http://cropwat.software.informer.com/>
- NewLocClim:  
<http://www.fao.org/gtos/news50.html>

# Programing with data

- Python: <https://www.python.org/>
- R programing language: <https://cran.r-project.org/>
- Matlab:  
<http://www.mathworks.com/products/matlab/?requestedDomain=fr.mathworks.com>
- Netlogo: <https://ccl.northwestern.edu/netlogo/>
- GAMS: <https://www.gams.com/>

# Graphical User Interface (GUI)

- Data entry and Analysis
  - MS EXCEL
  - SPSS
- GIS and RS
  - ArcGIS
  - QGIS
  - Erdas imagine
  - Envi
- Hydrological Modelling
  - STREAM
  - SWAT

# Information, Troubles, and debugging

- Google
- Stackoverflow: <http://stackoverflow.com/>
- GeoNet Community:  
<https://geonet.esri.com/welcome>
- Rblogger: <http://www.r-bloggers.com/how-to-write-and-debug-an-r-function/>