README for the Afrialliance Triple Sensor Demonstration Package and Toolbox version 1.0

This Demonstration Package and Toolbox was developed in the framework of the EU H2020 funded Afrialliance project, more specifically Work Package 4 on Monitoring & Forecasting of Water Resources & Climate Challenges in Africa. (see Project Info for more details).

This tool aims to give users an initial hands-on experience on Exploring selected water and climate monitoring and forecasting data for Africa, acquired by three sensor types i.e. satellites, conventional in-situ stations and citizen observations. The "Triple Sensor Collocation" demo application routine also included, can be used to validate 3 independent observations at a location, when the error-free true value is not known. With this you can judge, which water or climate observation, i.e. your citizen observation, conventional station data or a remotely sensed satellite look-up is more reliable for that location. A link to the web-based Triple Sensor collocation demo is also provided.

Pls. note that his toolbox imports, processes and works with real geospatial in-situ, satellite and citizen observations and data and is more than a "picture view" software application. For your info, also two other Earth Observation satellite and in-situ data import libraries or Toolboxes are available for this software version (i.e. the GEONETCast and ISOD Toolboxes), and can readily be plugged-in.

For more info, pls. contact the development team: Chris Mannaerts, Vasilios (Bas) Retsios, Ben Maathuis and/or Rob Lemmens. c.m.m.mannaerts@utwente.nl - v.retsios@utwente.nl - b.h.p.maathuis@utwente.nl

The latest releases of the Triple-Sensor-Toolbox can be downloaded from the www.afrialliance.org project website (for the duration of project; Mar-2021) and/or from the 52North.org download website (see below).

Generic ILWIS Toolbox Information and Download location

The ILWIS toolbox plug-ins, together with the existing processing utilities of ILWIS 3.8.5.1 (or higher) facilitates the user to easily integrate large amounts of environmental data, which is freely available from the internet on a global scale, into various applications related to weather, atmosphere, oceans, land, vegetation, water and environment. Several toolboxes are available.

Further details at: http://52north.org/communities/earth-observation/
Release date: October 2018

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   * download 52n-eo-triple-sensor-toolbox-1.0.zip and copy the zip-file within the ILWIS \Extensions sub-directory. Start ILWIS and the plugin can be used.
   * The installation is licensed under the GNU General Public License Version 2 (June 1991) and user guide documentation provided are licensed under the Creative Commons Attribution-NonCommercial 3.0 License. You can find copies of both licenses within this release bundle (GPL-v2.txt, CC-BY-NC-3.0.txt) in the root of the toolbox directory or at http://52north.org/communities/earth-observation/
   * InstallationGuide.pdf : A printer-friendly version of the online installation and user guide available at http://52north.org/communities/earth-observation/triple-sensor-toolbox/getting-started
   * ..\Extensions\Triple-Sensor-Toolbox\toolbox_startscript: The source ILWIS script files of the Triple-Sensor-Toolbox.
   * ..\Extensions\Triple-Sensor-Toolbox\toolbox_batchroutines: The source batch executables of the Triple-Sensor-Toolbox.

Installation
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Installation instructions are provided in the Installation and User Guide, this guide can also be downloaded from http://52north.org/downloads/earth-observation/Triple-Sensor-Toolbox
Make sure that Java, Irfanview, Notepad++, etc. are locally available on your system. The link to these resources is also provided in the Installation and User Manual.

Some 'golden' rules when using the toolbox under ILWIS
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   * Don't use spaces in (sub-) directory or file names, instead use underscores;
   * Do not only use numbers to start file names;
   * Do not work in multiple output directories;
   * Start ILWIS, navigate to your working directory and close ILWIS. Open ILWIS again to
    ensure that your current working directory is also the actual ILWIS working directory.

Download, Support and Contact
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The latest release of Triple-Sensor-Toolbox can be downloaded from the www.afrialliance.org project website (for the duration of project) and/or from this website:

   http://52north.org/downloads/earth-observation/Triple-Sensor-Toolbox

You can get support in the community mailing list and forums:

http://52north.org/resources/mailing-list-and-forums/

If you encounter any issues with the software or if you would like to see certain functionality added, let us know at:

http://52north.org/communities/earth-observation/community-contact

The Earth Observation Community
52°North Inititative for Geospatial Open Source Software GmbH, Germany