



Validation server in Test Phase

Deliverable title	Validation server in test phase
Deliverable number	D8.3
Revision	01
Status	Final
Planned delivery date	01/08/2013
Date of issue	August 01, 2013
Nature of deliverable	Other
Lead partner	Belgian Institute for Space Aeronomy
Dissemination level	Restricted

This work has received research funding from the European Community's Seventh Framework Programme ([FP7/2007-2013]) under grant agreement n°284421.



DOCUMENT PROPERTIES

	FUNCTION	NAME	DATE	SIGNATURE
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1. The NORS Validation server in Test Phase

This document describes the release of Deliverable D8.3 (*Validation server in test phase*) of Work Package 8 (*Web-based server for validation of GAS products using NORS data products*) in the NORS project.

The NORS validation server is a web application running in a client's browser window. The server is currently hosted at Science and Technology (S&T), and requires secure authenticated access.

The test validation server is lacking some of the functionality that will be present in the final deliverable D8.4 (*Ready-to-use Validation Server*). The functionality that is currently implemented in the test server backend is:

- A daily process for obtaining, storing and preprocessing MACC and NORS source data files from their respective source archives as they become available.
- A command-line processing chain consisting of data processing tools for performing collocated intercomparisons between incoming MACC and NORS data sets.
- A command-line reporting tool for generating NORS validation reports for specific combinations of physical parameters, MACC Models, NORS instrument types, time periods, locations, and affiliations.
- A daily process for invoking the NORS tool chain and reporting component in order to generate a variety of periodic reports containing total column plots, vertical profile plots, and statistics tables (as per the NORS User Requirements Document).

This functionality can be tested by the NORS community by accessing the output results through the NORS validation web server interface. Available functionality for testing at the moment of writing consists of:

- User authentication module and personal information page.
- Test server status/NEWS page.
- Guest account for the 'UALL' user group.
- Browsing and navigating through the entire set of generated reports: monthly, 3-month window, and custom.
- Viewing individual reports and downloading them as ZIP data archives.
- Browsing and navigating through the metadata catalogue storing information about the MACC and NORS source data files.
- Downloading individual MACC and NORS source data files.

Reports are generated for all the NORS data stations currently uploading rapid delivery data, and for all the intercomparisons for which the algorithms are fully implemented (currently FTIR and MWR).

Some of the test server functionality is only available (as per the NORS URD) to authenticated 'UINT' or 'UVIP' users. An account on the NORS validation server can be requested by sending email to the developers at nors@stcorp.nl.

The test server remains under continuous development and will be regularly updated with new functionality and improvements based on user feedback as they become available.