

# Description

This document describes a standard format for R2R data products. The format was designed for use with the geophysical data products, but can be expanded for use with other data types. The current format is based on "**GeoWS Well Structured Text FormatVersion: 20150318**". (<http://get.rvdata.us/data/r2r/format/100130/GeoWSWellStructuredTextFormat1.0.pdf>.)

An extra header line has been inserted at the top of the file for reading into GeoMapApp. Eventually, GeoMapApp will allow the reading of GeoWS files directly and this line will be removed.

Basic format follows as:

- Data, header, units and description records are comma delimited
- First row in the file contains R2R column headers without # (allows for reading into GMA and spreadsheets easily)
- All other comments and flagged data rows begin with a # and follow the GeoWS text Format

## GeoWS R2R custom Header Fields

The GeoWS header rows are in the format "#field: value". Fields that are already accepted as standards are described in the attached document. The URL of the data processing report should be included with the attribution field.

Several fields were added to well describe the R2R files. Additional fields can be created as necessary.

R2R Field	Description
cruise_id	unique cruise identifier from R2R vocabulary
device_information	free format text description for this device, ex: "magnetometer (make: my_make model: my_model)"
creation_date	ISO_8601 date/time when this file was created
input_data_doi	comma separated list of data DOI for the input files used
names_NERCP02	data column headers from NERC P02
field_name_cv	location of reference for controlled vocabulary, ex: " <a href="http://www.rvdata.us/voc/fieldname">http://www.rvdata.us/voc/fieldname</a> "

## R2R Column Headers

Each R2R GeoWS data files document the data columns internally as described above. All current column headers may be viewed at <http://www.rvdata.us/voc/fieldname>.