

# Quick Guide 2: Summary of data fields in NEMSR

This document provides a summary of data fields and a worked example for the National Environmental Monitoring Sites Register (NEMSR). The full version of the NEMSR information model, including vocabularies and validation rules, can be found at: [www.neii.gov.au/nemsr/documentation](http://www.neii.gov.au/nemsr/documentation).

Also refer to the various help tips and information in the Data Providers section of the NEII website. For values obtained from Vocabularies (hyperlinked in examples below) ensure you type the value exactly as contained in the Vocabulary. For example: environmentalTheme = air (not Air)

For guidance, please contact the NEII team: [environment@bom.gov.au](mailto:environment@bom.gov.au)

## Network information

This section makes up the components in: *NEMSR template\_network csv*

This information is also available online here: <http://www.neii.gov.au/nemsr/documentation/1.0/data-fields/network>

Field name	Description	Mandatory?	Vocabulary?	Example
dataProvider	Name of data custodian	Y	N	Bureau of Meteorology
networkID	The unique identifier of the network (given to you by the NEMSR team). NOT the site ID	Y	<a href="#">Y</a>	14
networkName	The name of the network	Y	N	Rainfall radars (BOM)
networkDescription	The description of the network (keep short)	Y	N	The Bureau of Meteorology operates a nationwide network of around 60 radars which are used for the detection of rainfall.
networkURL	A URL containing a resource with information about the network	Y	N	<a href="http://www.bom.gov.au/australia/radar/">www.bom.gov.au/australia/radar/</a>
environmentalTheme	The primary environmental theme of the network. Optional to include a further two themes	Y	<a href="#">Y</a>	air
contactName	The contact for the network	N	N	Data Coordinator
contactPhone	The phone number of the contact for the network	N	N	(03) 9669 4000
contactAddress	The address details of the contact of the network	N	N	GPO Box 1289, Melbourne VIC 3001
contactResource	The contact email address or a URL containing contact details	N	N	<a href="mailto:environment@bom.gov.au">environment@bom.gov.au</a>
extensionFieldName1	The name/label of the extension field	N	N	Original Height
extensionFieldName2	The name/label of the extension field	N	N	Receiver Type
extensionFieldName3	The name/label of the extension field	N	N	Band
extensionFieldName4	The name/label of the extension field	N	N	Polarisation
extensionFieldName5	The name/label of the extension field	N	N	

**Note – there are 5 extension fields available to capture additional site data. These are not mandatory but if used ensure the labels (e.g. 'Original Height' in example above) corresponds to the value (e.g. '1383.86 m' in example below), otherwise they will not display on the viewer.**

## Site information

these two sections make up the components in: *NEMSR template\_network csv*

This information is also available online here: <http://www.neii.gov.au/nemsr/documentation/1.0/data-fields/site>

Field name	Description	Mandatory?	Vocabulary?	Example
siteID	A unique identifier for the site (provided by the data provider – this is NOT the network ID)	Y	N	70341
siteName	The name of the site	Y	N	Captains Flat Cowangerong
siteDescription	A short description of the site	N	N	The primary weather radar for the ACT region.
siteURL	A URL for the site or further information	N	N	<a href="http://www.bom.gov.au/products/IDR403.loop.shtml#skip">www.bom.gov.au/products/IDR403.loop.shtml#skip</a>
siteLicence	The type of licence for the site metadata	Y	<u>Y</u>	open-agencySpecific
srsName	The EPSG code of the spatial referencing system used to locate the entity	Y	<u>Y</u>	<a href="http://www.opengis.net/def/crs/EPSSG/0/4326">http://www.opengis.net/def/crs/EPSSG/0/4326</a>
point.longitude	The longitude of the site	Y	N	149.5122
point.latitude	The latitude of the site	Y	N	-35.6614
point.ahd	The elevation of the site (Australian Height Datum)	N	N	1364.548
operatingAuthority	The organisation that is the operating authority for the site	Y	N	Bureau of Meteorology
operatingAuthorityURL	A URL for a webpage or resource with information about the operating authority	N	N	<a href="http://www.bom.gov.au">www.bom.gov.au</a>
siteStatus	The operating status of the site	Y	<u>Y</u>	active
extensionFieldValue1	The value for Extension field 1	N	N	1383.86 m
extensionFieldValue2	The value for Extension field 2	N	N	Digital receiver type
extensionFieldValue3	The value for Extension field 3	N	N	S band
extensionFieldValue4	The value for Extension field 4	N	N	Single polarisation
extensionFieldValue5	The value for Extension field 5	N	N	

## Observing capability information

Field name	Description	Mandatory?	Vocabulary?	Example
observedProperty	The environmental phenomenon (property) being measured at the site	Y	<u>Y</u>	atmosphere-Precipitation
procedure	An external link to the procedure used to make the site observations	N	N	<a href="http://www.bom.gov.au/australia/radar/about/index.shtml">www.bom.gov.au/australia/radar/about/index.shtml</a>
observationMethod	The method used to make observations	Y	<u>Y</u>	inSituLandBasedPlatforms
dataAvailabilityStatus	The availability of the observation data	Y	<u>Y</u>	available-online
samplingRegime	The frequency of site observations	Y	<u>Y</u>	oneMinuteToOneHour
firstObservationDate	The date of the first observation at the site	N	N	2002-12-01
finalObservationDate	The date of the last observation at the site	N	N	If still active, leave blank

If there are multiple Observing Properties for the site, these need to be captured correctly in the CSV template, please contact the NEII team for guidance.