



AUSTRALIAN COASTAL ECOSYSTEMS FACILITY (AUSTRALIAN COASTAL ECOSYSTEMS FACILITY)

Upper Logan River Continuous Water Quality Station

[Metadata](#) | [Metadata \(XML\)](#)
| [Visualization service URL \(WMS\) \(\)](#) |

Title	Upper Logan River Continuous Water Quality Station
Date	2014-01-21T00:00:00
Date type	Publication
Abstract	<p>SEQ Peri-urban Supersite Upper Logan River. The SEQ Peri-urban Supersite was established under TERN in 2010. It provides extensive new research infrastructure for scientists to determine if key ecosystem services such as high-quality water can be maintained in a rapidly urbanising environment. The supersite comprises one node north of Brisbane City and two nodes to the south. At the northern site, in the Samford Valley, the focus is on the study of terrestrial biogeochemistry managed by the Queensland University of Technology (QUT) through the Samford Ecological Research Facility (SERF). The southern-most site, in the catchments of the Logan and Albert Rivers, has a strong aquatic biogeochemistry focus; it is managed by CSIRO. The third node, Karawatha Forest, has a biodiversity focus and is managed by Griffith University.</p> <p>In the SEQ Peri-urban Supersites located on the Logan and Albert River, high-frequency biogeochemical and ecological studies are under way to help scientists understand why they contribute such high loads of nitrogen and sediment into Moreton Bay. Permanent measurement stations have been established at both nodes to provide continuous water quality and flow data. The stations consist of physico-chemical sensors to measure temperature, pH (degree of acidity or alkalinity), Eh (the redox, or reduction-oxidation, character of the water), conductivity, dissolved oxygen, turbidity, chlorophyll, blue green algae, CDOM and nitrate; and a velocity Doppler to measure river flow and height. These measurements will help researchers to quantify land-use change.</p>

Character set	UTF8
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OnLine resource

Linkage	http://dx.doi.org/10.4225/08/5333C188BFE6F
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Linkage	http://acef.tern.org.au/geoserver/wms
Protocol	OGC:WMS-1.1.1-http-get-map
Linkage	http://dx.doi.org/10.4225/08/552F4A84629B7
Protocol	WWW:LINK-1.0-http--link

Point of contact

Individual name	Chris Moeseneder
Organisation name	CSIRO CMAR
Position name	Data manager
Role	Point of contact
Topic category	Boundaries

Keyword

Keyword	supersites
Keyword	peri-urban
Keyword	water quality monitoring
Keyword	ecosystem services
Keyword	catchment
Keyword	aquatic biogeochemistry
Keyword	high-frequency biogeochemical
Keyword	ecology
Keyword	sediment
Keyword	albert river
Keyword	logan river
Type	Theme
Keyword	Albert River, South-east Queensland
Type	Place

Extent

Description	Logan, South-east Queensland, Australia
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Geographic bounding box

West bound	152.9
East bound	153.25
South bound	-28.15
North bound	-27.66

Spatial resolution

Denominator	5000
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Lineage

Statement	
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Resource constraints

Use limitation	Copyright 2013 CSIRO. Rights owned by the Commonwealth Scientific and Industrial Research Organisation (CSIRO). Rights licensed subject to Creative Commons Attribution (CC BY 4.0), http://creativecommons.org/licenses/by/4.0
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Metadata author

Individual name	Chris Moeseneder
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Role

Point of contact

Date stamp

2015-07-24T15:48:00