

CORSnet-NSW RINEX DATA

PRODUCT AND SERVICE DEFINITION

EXTERNAL	Product / Service Title	Global Navigation Satellite System (GNSS) Continuously Operating Reference Station (CORS) Receiver INdependent EXchange (RINEX) Data at user selected epoch rate (maximum One Second epochs).
	Product Category	GNSS Data A data set of measurements to GNSS satellites which has been logged at CORS receivers along with related satellite orbit and site data such as the GDA94(2010) coordinates, trigonometrical station details and antenna height and type.
	Purpose	Many GNSS users require greater accuracy than is available by using GNSS only (typically 5 metres). Users download the CORS RINEX data and process it with their rover data, using their own software to enable the field position to be improved to sub-metre or up to centimetre level accuracy.
	Customer-centric Features and Benefits	Data Formats: RINEX V2.11 (International Format) http://igsceb.jpl.nasa.gov/igsceb/data/format/rinex211.txt A RINEX data set includes: <ul style="list-style-type: none"> • Observation file (O-file) • Broadcast GPS ephemerides (satellite orbit) (N-file) • Broadcast GLONASS ephemerides (satellite orbit) (G-file) Alternative RINEX and proprietary formats are also available. Files are compressed using ZIP Maximum file extent for per download: 24 hours Maximum Epoch Rate: 1 Second Maximum Measurement Types: Global Positioning System (GPS) and GLONASS Dual Frequency Times available: All times excluding disruptions Data is held on line for a period of 30 days Note: File size when selecting all and maximum options may exceed 100Mb
	Search words	RINEX, GPS, GNSS, CORS, Post Processing, Static
	Access and Access Constraints	CORSnet-NSW Web portal: http://corsnet.nsw.gov.au By accessing CORSnet-NSW RINEX Data, users agree to abide by the CORSnet-NSW terms and conditions available at: http://corsnet.nsw.gov.au/terms.aspx

Products and Pricing	Product listing available at www.corsnet.com.au . Pricing available upon request.
Performance standards	<p>Accuracy</p> <p>Accuracy is a measure referring to the difference between a measured coordinate or height and its true value.</p> <p>All final CORS station coordinates are determined through Regulation 13 certification.</p> <p>A user's positional accuracy depends on user equipment, software, length of observation time, observation technique, distance from CORS, satellite geometry and local site conditions (eg multipath, tree cover, local subsidence etc).</p> <p>A general guide to achieving horizontal accuracies of $\pm(5\text{mm} + 1 \text{ ppm})$ (millimetres per kilometre) is an observing period of 10 minutes + 2 minutes per km.</p> <p>Availability</p> <p>The RINEX download service will be available while CORSnet-NSW Portal is on-line.</p> <p>Reliability</p> <p>Registered users will be notified of planned outage for any CORS.</p>
Contacts	<p>CORSnet-NSW Customer Support</p> <p>Phone: (02) 8258 7521</p> <p>Fax: (02) 92334454</p> <p>Email: CORSnetCustomerSupport@lpi.nsw.gov.au</p>
Data Custodian Details	LPI NSW