

**Integrating real time weather radar data into the Cloud-Hosted Real-time
Data Services for the Geosciences (CHORDS) project
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Cloud-Hosted Real-Time Data Services for the Geosciences (CHORDS) addresses the ever-increasing importance of real-time scientific data, particularly in mission critical scenarios, where informed decisions must be made rapidly. Many of the phenomena occurring within the geosciences, ranging from hurricanes and severe weather, to earthquakes, volcanoes and floods, can benefit from better handling of real-time data. Currently, the recently developed CHORDS portal features tools and processing systems for the ingest, display, and download of one-dimensional time series data. In this paper, we present the next step in CHORDS development and describe the incorporation of real-time radar data into the portal using streaming data from the CSU-CHILL dual-frequency, dual-polarization radar. Incorporating radar data adds a critical dimension to the CHORDS dimension by further enhancing the data infrastructure to allow more informed decisions for severe weather. This will aid researchers by providing a one-stop web presence for viewing data from weather stations, disdrometers, rain gauges, and radar, and will facilitate research into early warning systems for flash floods, as well as nowcasting purposes.