

Title : Atmospheric Data Archive System

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ABSTRACT

This cooperative education project focuses on developing the Atmospheric Data Archive System, which is a system of computer programs and command. The system was developed with tools and programming language that are standard within institute at the time. System processes involve extracting new data files from data collections equipment or instruments under institute jurisdiction to central storage unit, processing files according to their relevant metadata, and storing relevant metadata in NoSQL databases for use in further processes or systems. The system was developed with the aim of automated manual and tedious tasks that are prone to subjected to human errors and inconsistency and partial measures against unexpected occurrences or accidents which may cause loss of data on equipment or instruments' local data storage

In conclusion, the resulting system was successfully developed to meet and satisfy outlined requirements of developing system to automated previously manual file extraction, processing, and archiving system with existing tools available to institute at the time. The system successfully processes data from three authorized devices with cumulative daily data file output of approximately 2.5 Gigabytes

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