

Efficient Access to Raw Measurements and Processing Coefficients for NPOESS Preparatory Project (NPP) and Joint Polar Satellite Systems (JPSS) Sensor Data

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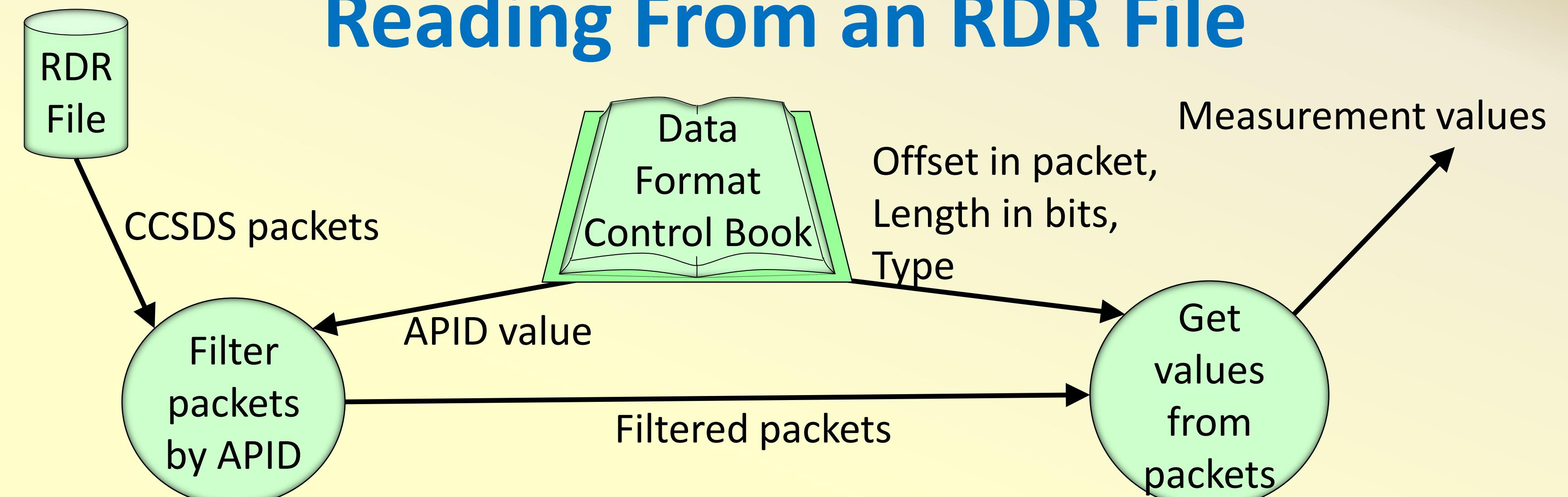
Problem

- Raw satellite sensor data are difficult to obtain and difficult to use
- Production of Climate Data Records (CDRs) using data from NPP sensors will require repeated reprocessing from raw sensor data

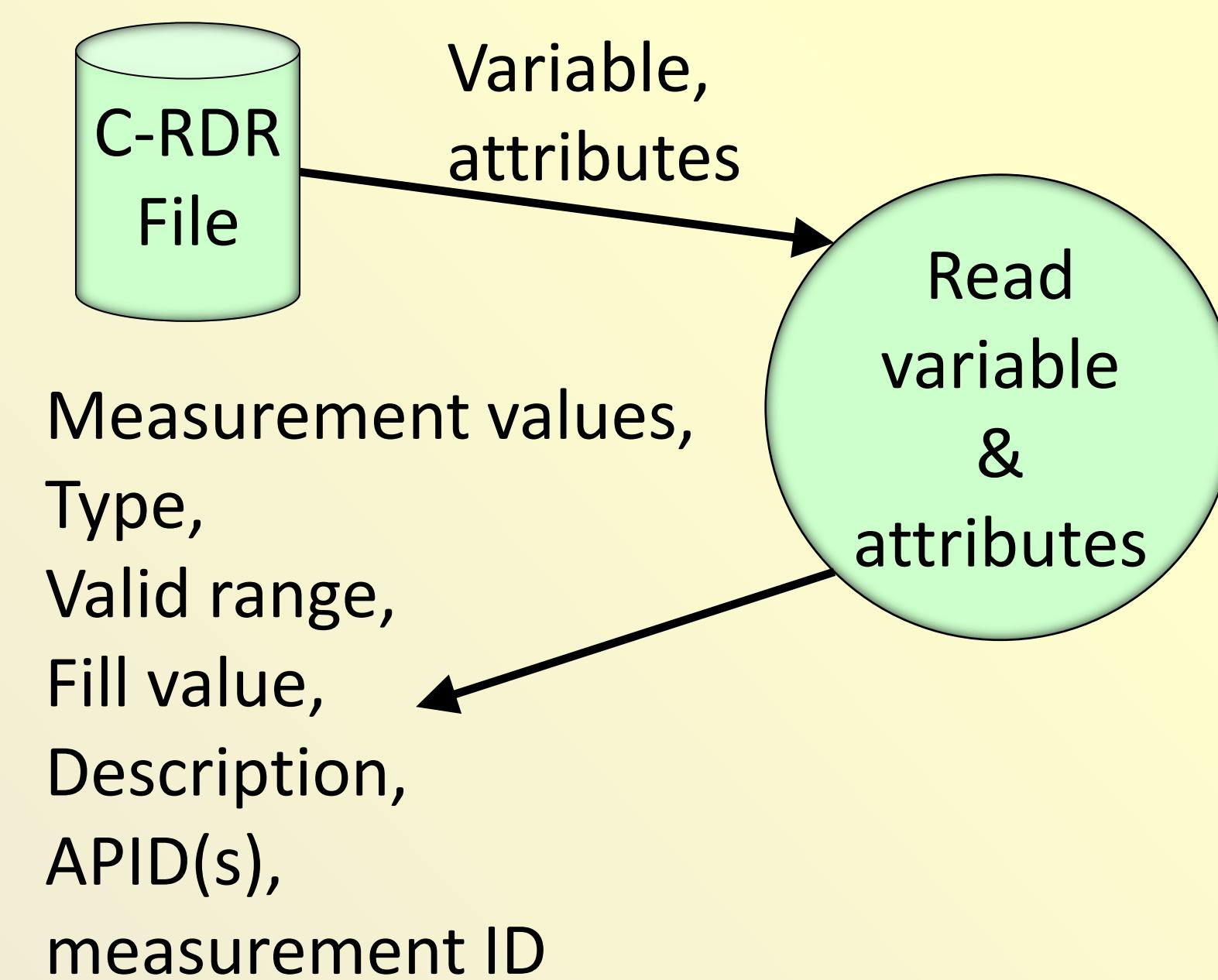
Approach

- Create NPP Climate Raw Data Record (C-RDR) products that contain uncompressed raw data values organized by measurement
- Use the netCDF-4 self-describing binary file format to make the data more accessible
- Include usage and preservation metadata to make the measurements more understandable (conforms to CF Convention and ISO 19115-2)

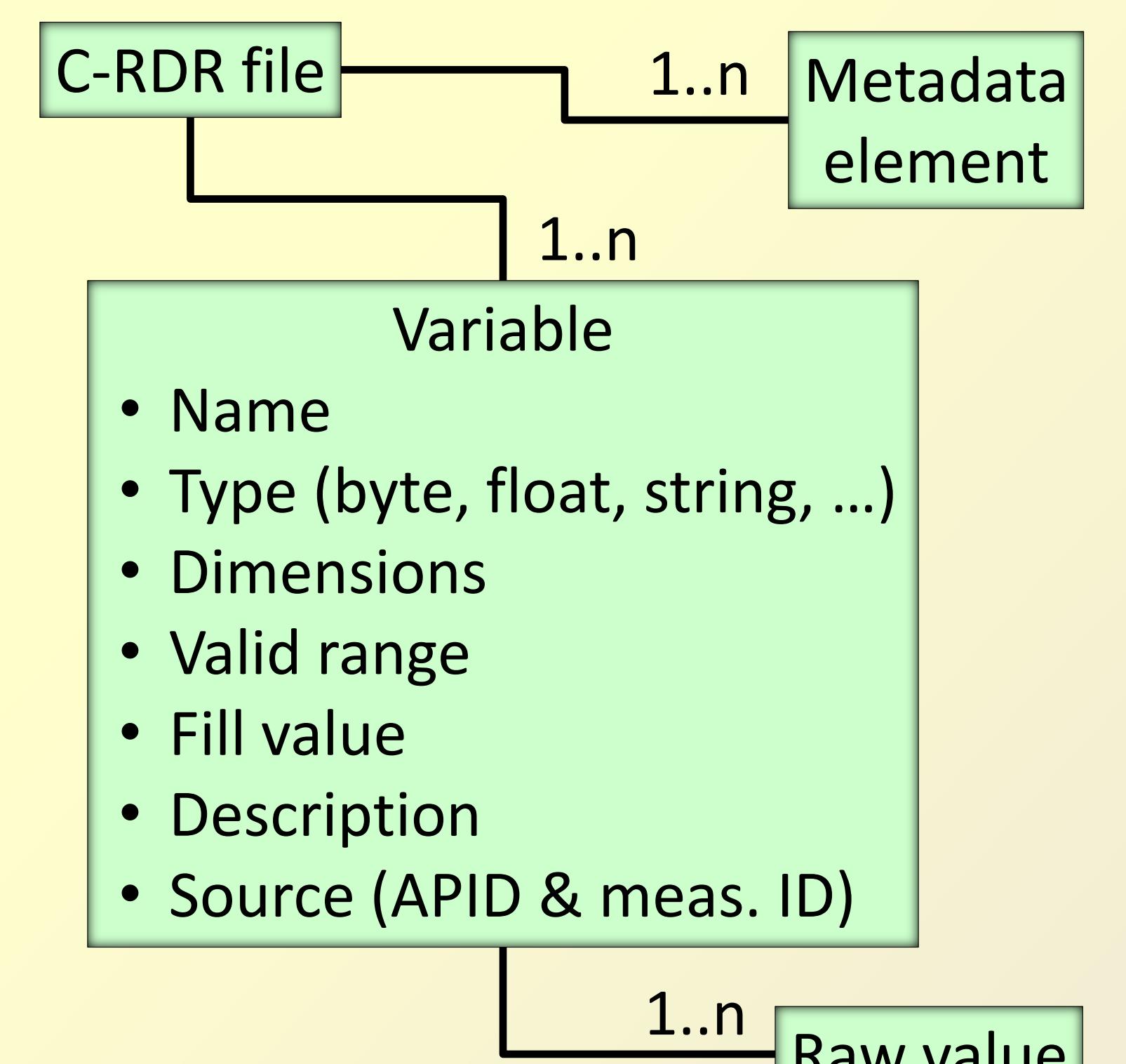
Reading From an RDR File



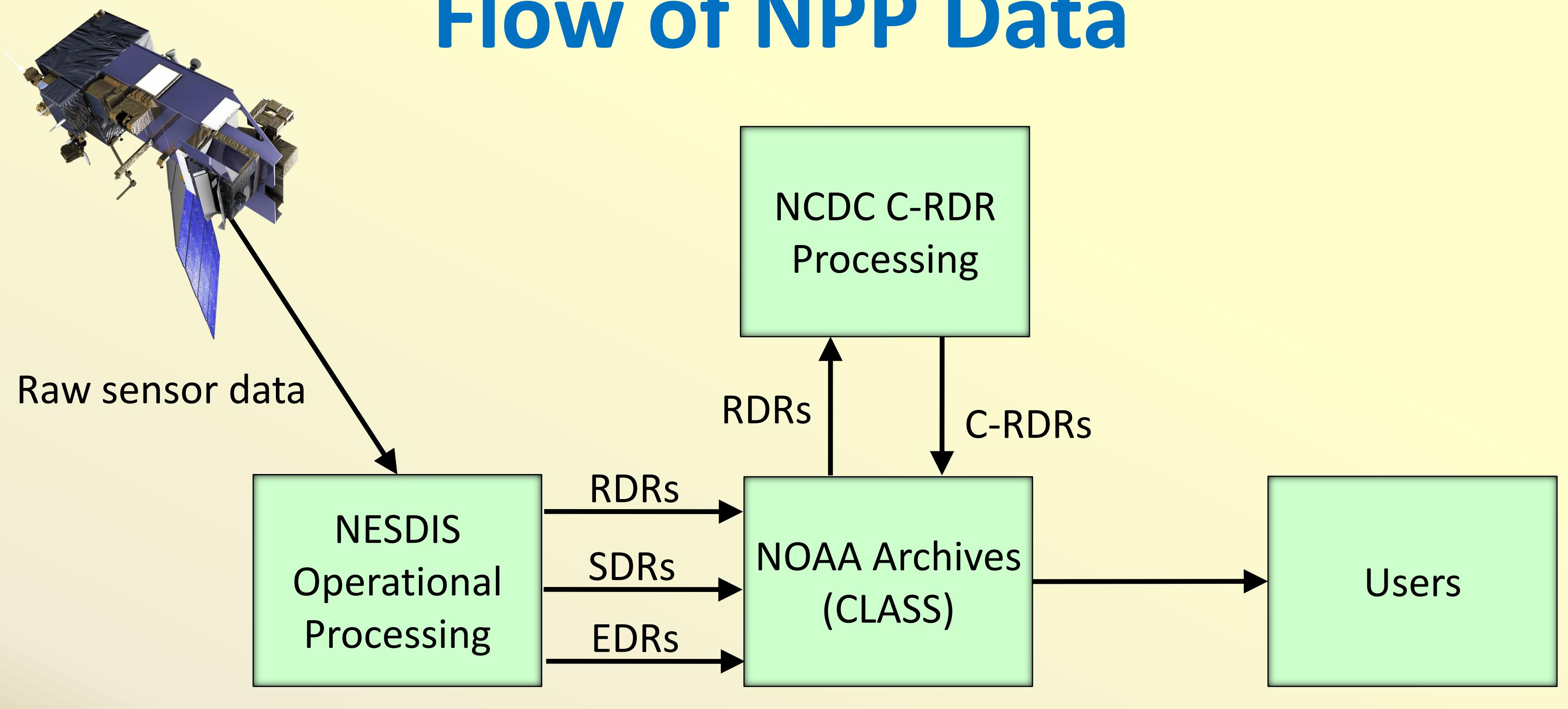
Reading From a C-RDR File



C-RDR Structure



Flow of NPP Data



Result

- C-RDRs will be produced for the ATMS, CrIS, OMPS-NP, and VIIRS instruments on the NPP satellite
- Will be available through the NOAA Archives

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