

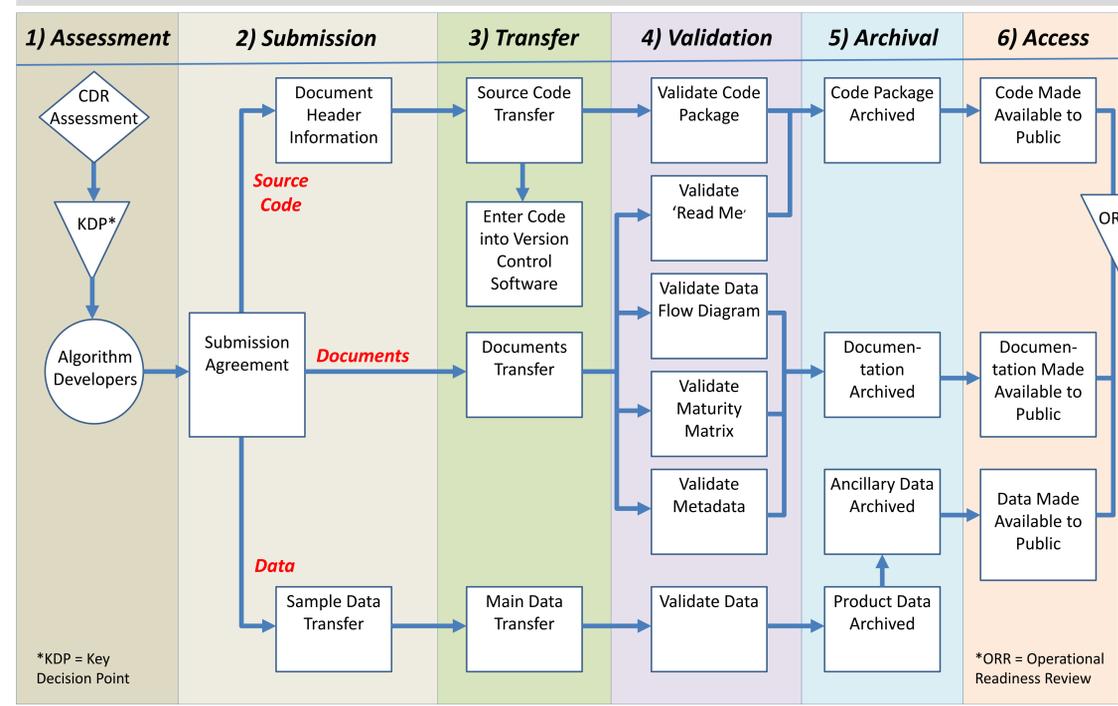
# A Systematic Approach to Building and Maintaining NOAA's Climate Data Records (CDRs)

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NOAA's Climate Data Record Program has transitioned 25 CDRs from research to initial operational capability (IOC), a major milestone characterized by the archiving and public release of the CDR data, source code, and documentation and a commitment to sustained product generation. This poster outlines the core processes (Research-to-Operations, Operations and Maintenance, and Climate Applications) involved in CDR life-cycle management.

## Steps → CDR Research to Operations



**Step 1: Assessment**  
Determine if a candidate research CDR is sufficiently mature for transition to IOC.

**Step 2: Submission**  
Identify the CDR package (code, documents, and data) in a formal Submission Agreement, such that NOAA can plan for archive and access of the materials.

**Step 3: Transfer**  
Transfer the complete dataset, source code, and documentation materials to NCDC for Validation.

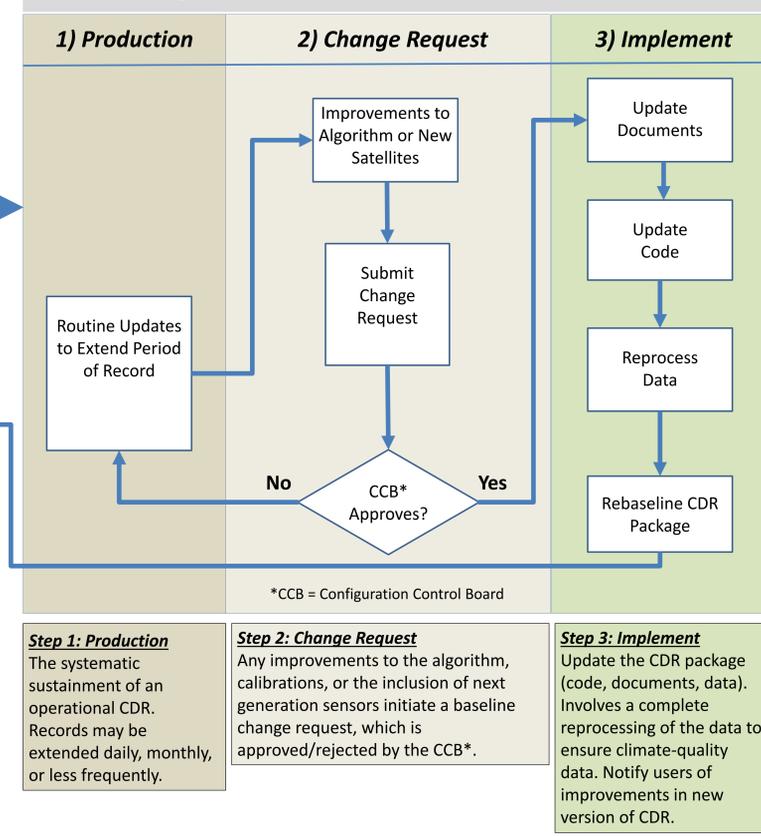
**Step 4: Validation**  
NOAA ensures the CDR source code, documentation, and data are consistent with the CDR Program's coding and metadata standards.

**Step 5: Archival**  
The complete CDR package (data, code, and documentation) is put under version control and submitted to NCDC's archive system. This initiates NCDC stewardship for a minimum of 20 years.

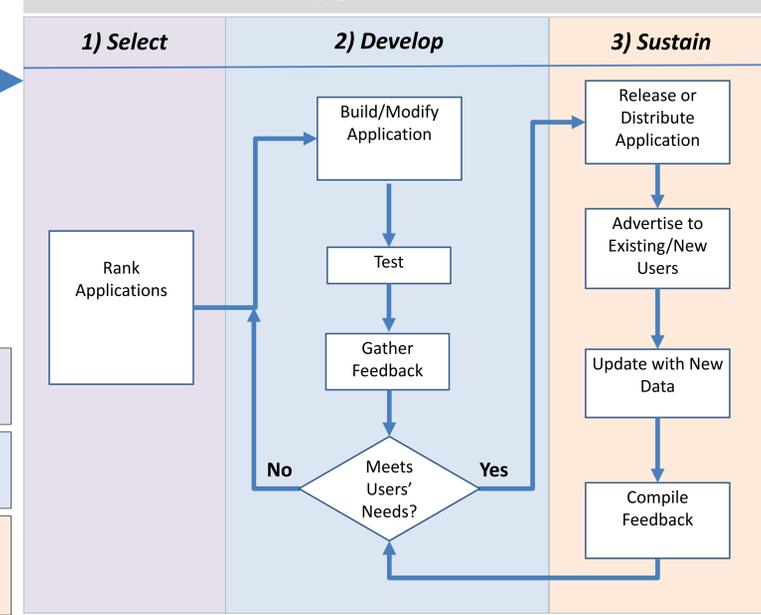
**Step 6: Access**  
Conduct an ORR\*, then provide a fully transparent and scientifically defensible CDR to the public. Available at: [www.ncdc.noaa.gov/cdr/operationalcdrs.html](http://www.ncdc.noaa.gov/cdr/operationalcdrs.html)



## Operations and Maintenance



## Applications



## Example CDR Products and Applications

