

PDR RID Report

Date Last Modified 7/17/95

Originator D. Collins

Phone No 818-354-3473

Organization JPL DAAC

E Mail Address djc@seaanchor.jpl.nasa.gov

Document

RID ID	PDR	402
Review	SDPS	
Originator Ref		
Priority	2	

Section Data Ingest

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Figure Table

Category Name Requirements

Actionee HAIS

Sub Category

Subject Data Ingest: Level 0- Processing

Description of Problem or Suggestion:

The SeaWinds data may arrive at the DAAC in unprocessed raw form from multiple sources. Such data may require Level 0 processing on ingest to test for and correct time-order errors, bit errors, etc. This data will also require processing to provide orbit resolution files as input to the higher level processing.

Originator's Recommendation

Level 0, data set specific, processing is often required, and should be permitted within the Ingest subsystem. Because such processing is data set specific, this activity should be performed at the DAAC using ECS resources. The resulting algorithms will be embedded in the Ingest Subsystem.

GSFC Response by:

GSFC Response Date

HAIS Response by: Suhrstedt

HAIS Schedule 4/21/95

HAIS R. E. N. Prasad

HAIS Response Date 6/30/95

ECS assumes that SeaWinds L0 data provided by Japan are time ordered with no duplicates in a file or between files. It is also assumed that the L0 file header contains quality information (including identification of missing packets). As part of Ingest Preprocessing, a minimal quality check will be performed on the orbit/attitude data contained in the L0 data (detecting spikes/dropouts based on specifications provided by Instrument Team/FDF) and updating appropriate metadata. If bit errors are part of the engineering data, it will be flagged and metadata updated. If it is in the science data, it will not be flagged because it is beyond the scope of ECS Preprocessing to open science packets to detect bit errors. Regarding checking time ordering - if the time data are in the header, then ECS could check time ordering (to be evaluated). Correcting time ordering or bit errors is beyond the scope.

Processing or Preprocessing to provide files in the time resolution (matching the time extents of the Level 0 granules with the Level 1 granules) required for higher level processing is also called "regranularization". Creating data sets as "scenes" require knowledge of the contents of each packet. Regranularization is data set specific, and is beyond the scope of ECS Preprocessing/Processing. However, software provided by Instrument Teams for reganularization can be embedded into the Ingest Subsystem at the DAACs. But this is discouraged since use of SDP Toolkit Level 0 read functionality together with Planning subsystem functionality will allow the Level 1 programs to operate and produce granules independently of the time extents of Level 0 granules.

Status **Closed**

Date Closed **7/17/95**

Sponsor **Marinelli**

***** Attachment if any *****