

Guidelines for JSOC-SDP Status Review of Science Product Pipeline

Review date 5 November 2007, location TBD.

The purpose of this review is to develop an understanding of the status of development of the code that will run in the initial HMI level-2 science data product pipeline. A result should be a clear plan for the remaining work including names of those who will be doing the work, a schedule for prototypes if any, final code, testing, and documentation.

A suggested organization is to start with the pipeline diagrams presented as backup material for the SDO-MOR. (http://hmi.stanford.edu/development/Phase-BCD/SDO_MOR/MOR_JSOC_4_SDP_Scherrer.ppt_slides_16_and_30-38.) A page should be prepared for each green box from those slides. A common format would be useful. It could be:

Pipeline: e.g. title from slide

Lead: Name of lead person for this task.

Task: e.g. entry after “Code:” in green box

Summary: a paragraph describing what is involved, what the processing is in words and what the output product is. Include info about the cadence of the output product. I.e. is it made for each image, each observable, each day, each rotation, etc.

Input: a paragraph or list of input dataserries if known.

Output: a paragraph or list of output series if known. Include estimate of data volume produced per time step, will it be archived or only temp, or will it actually be only in memory with several steps concatenated.

Code: List the code modules that will be involved. Names of programs if known. Include the name of person responsible for development and testing if different from Lead name above.

Processors: An estimate of the number of processors needed to produce the product at the planned cadence, if known.

Status: describe present status of development

Issues: describe any known issues. Algorithms not yet final, code too slow, poor definition of task, etc.

Plan: describe schedule for development ending with 1 March 2009 at the latest.

Except for some words in the summary, this does not need to describe the science to be done. This document is a development status and management tool, not a justification of why we are doing the task.