HAO was interested in how to share their instrument assets. We discovered DataCite metadata for one project/instrument, KCOR. We attempted to identify the concepts in the DataCite and ISO-1 for data Discovery in the documentation for Hinode. We utilized GCMD keywords for instruments and platforms and talked about creating granule metadata automatically from the database for each of the FITS files that their community utilizes to share images and metadata. The following are two attempts by HAO to improve their metadata concerning their intrests on Hinode and at Mauna Loa.

Mandatory fields:

RESOURCE IDENTIFIER: DOI (TBD)

NAMING AUTHORITY: UCAR/NCAR-HAO/CSAC (Community Spectropolarimetric Analysis Center)

AUTHOR ORIGINATOR: Community Spectropolarimetric Analysis Center (CSAC)

RESOURCE TITLE: Level 2 Hinode SP data (MERLIN spectral line inversions)

PUBLISHER: UCAR/NCAR-HAO/CSAC

RESOURCE CREATION/REVISION DATE: 2006

Recommended fields:

THEME KEYWORD: Platforms:"Solar/Space Observation Satellites","","HINODE","Hinode (Solar-B)","c5799ec3-693e-4ee7-ad8e-376b2e515a44”

KEYWORD VOCABULARY: "Keyword Version: 8.1","Revision: 2015-09-23 19:55:42","Timestamp: 2015-10-23 06:36:58","Terms Of Use: See <http://gcmd.nasa.gov/r/l/TermsOfUse>","The most up to date XML representations can be found here: <http://gcmdservices.gsfc.nasa.gov/kms/concepts/concept_scheme/platforms/?format=xml>"

THEME KEYWORD: Instruments: "Solar/Space Observing Instruments","Photon/Optical Detectors","Telescopes","","SOT","SOLAR OPTICAL TELESCOPE (HINODE)","406d1bc6-8488-4691-a35e-f7e61b8aa268"

KEYWORD VOCABULARY: "Keyword Version: 8.1","Revision: 2015-10-02 14:15:41","Timestamp: 2015-10-22 12:36:55","Terms Of Use: See <http://gcmd.nasa.gov/r/l/TermsOfUse>","The most up to date XML representations can be found here: <http://gcmdservices.gsfc.nasa.gov/kms/concepts/concept_scheme/instruments/?format=xml>"

THEME KEYWORD: Locations: "SPACE","SOLAR REGION","PHOTOSPHERE","","","260436f2-f80a-4e2a-9a8a-1c8780e33d13”

KEYWORD VOCABULARY: "Keyword Version: 8.1","Revision: 2015-04-07 14:37:24","Timestamp: 2015-10-23 06:36:57","Terms Of Use: See <http://gcmd.nasa.gov/r/l/TermsOfUse>","The most up to date XML representations can be found here: <http://gcmdservices.gsfc.nasa.gov/kms/concepts/concept_scheme/locations/?format=xml>"

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RESPONSIBLE PARTY IDENTIFIER TYPE:  N/A

RESPONSIBLE PARTY IDENTIFIER:  N/A

RESOURCE CREATION/REVISION DATE: 2006

RESOURCE TYPE: collection

RELATED RESOURCE IDENTIFIER: DOI for Level 1 Hinode Sp data (TBD)

RELATED RESOURCE IDENTIFIER: 10.1007/s11207-012-0206-3

RELATED RESOURCE IDENTIFIER: 10.1007/s11207-012-0205-4

RELATED RESOURCE IDENTIFIER: <https://www2.hao.ucar.edu/csac/csac-data/sp-data-description>

SPATIAL EXTENT:  N/A

ABSTRACT: Level 2 data products from the SpectroPolarimeter (SP) instrument on board the Hinode spacecraft. The Level 2 product is obtained from a Milne-Eddington spectral line inversion of the calibrated full Stokes vector (Level 1 data) using the MERLIN code (<https://www2.hao.ucar.edu/csac/csac-spectral-line-inversions>). The Level 2 data are stored in FITS files, with one file (and multiple FITS extensions) per SP map.

The second (an expansion of the actual K-COR DOI.

Resource Identifier: DOI (doi:10.5065/D69G5JV8)

Naming Authority:

Author / Originator: K-Cor Team

Author / Originator Identifier:

Author / Originator Identifier Type:

Resource Title: COSMO K-Coronagraph (K-Cor) White Light Polarization Brightness Images

Publisher: UCAR/NCAR - HAO/Mauna Loa Solar Observatory

Resource Creation/Revision Date: 2013

Theme Keyword: science: "EARTH SCIENCE","SUN-EARTH INTERACTIONS","SOLAR ACTIVITY","CORONA","","","","1ef327e1-6139-49ff-87c3-f959ea75a511”

Keyword Vocabulary: "Keyword Version: 8.1","Revision: 2015-10-02 14:15:41","Timestamp: 2015-10-22 12:36:55","Terms Of Use: See <http://gcmd.nasa.gov/r/l/TermsOfUse>","The most up to date XML representations can be found here: <http://gcmdservices.gsfc.nasa.gov/kms/concepts/concept_scheme/instruments/?format=xml>"

Theme Keyword: platforms: "In Situ Land-based Platforms","","SOLAR OBSERVATORY STATIONS","","5d5dddb9-ba89-49c4-bf06-d9abbe56b329"

Keyword Vocabulary: "Keyword Version: 8.1","Revision: 2015-10-02 14:15:41","Timestamp: 2015-10-22 12:36:55","Terms Of Use: See <http://gcmd.nasa.gov/r/l/TermsOfUse>","The most up to date XML representations can be found here: <http://gcmdservices.gsfc.nasa.gov/kms/concepts/concept_scheme/instruments/?format=xml>"

Theme Keyword:: instruments: "Solar/Space Observing Instruments","Photon/Optical Detectors","","","CORONAGRAPHS","","e8e62902-f8e3-41a4-b9e5-28f99508c330"

Keyword Vocabulary: "Keyword Version: 8.1","Revision: 2015-10-02 14:15:41","Timestamp: 2015-10-22 12:36:55","Terms Of Use: See <http://gcmd.nasa.gov/r/l/TermsOfUse>","The most up to date XML representations can be found here: <http://gcmdservices.gsfc.nasa.gov/kms/concepts/concept_scheme/instruments/?format=xml>"

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Responsible Party Identifier Type:

Responsible Party Identifier:

Resource Type: Collection

Related identifiers: 10.1117/12.926511 [DOI] [IsDocumentedBy]

Abstract: K-Cor provides polarization brightness (pB) images of the Sun's white light corona over a full field-of-view from 1.05 to 3 solar radii. Images are 16-bit 1024x1024, with 5.6 arcsec pixels at a 15 second time cadence. Data are available on the MLSO web page ~15 minutes after acquisition and can be used to identify coronal mass ejections (CMEs) in near realtime.

Spatial Extent: N/A