



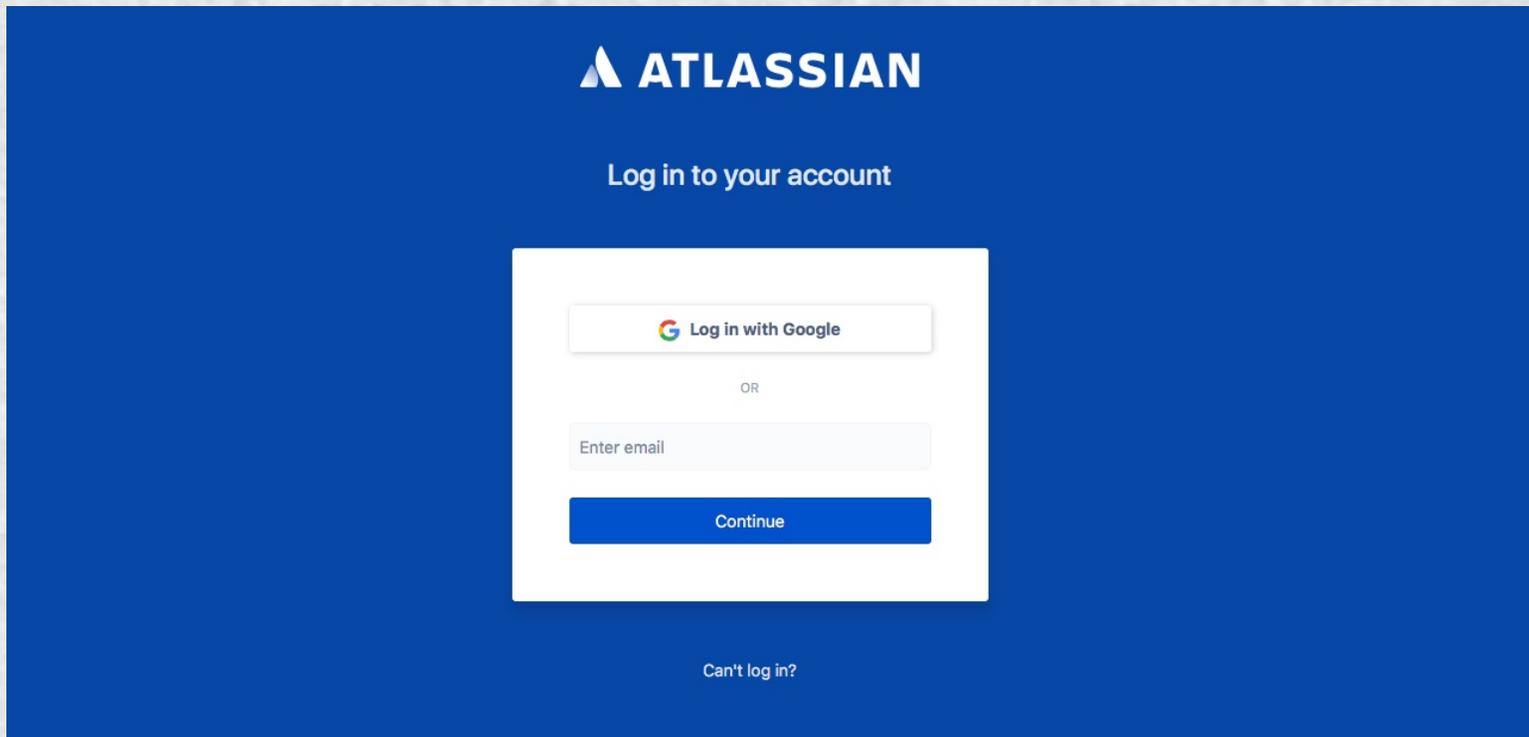
DKIST CSP: JIRA Users Guide

1. Logging in
2. The CSP Community *Dashboard*
3. Browsing existing CSP Science Use Cases
4. Viewing CSP Science Use Case content
5. Searching existing CSP Science Use Cases
6. Summary of Notifications
7. Creating a new Science Use Case
8. Editing one of your Science Use Cases (PI, Co-I)
9. *Status* and *Labels* Fields

DKIST CSP: JIRA Users Guide

1. Logging in

- Point browser to:
 - nso-atst.atlassian.net
 - Username: First.Last (or email)
 - Password: JIRA email supplied



ATLASSIAN

Log in to your account

 Log in with Google

OR

Enter email

Continue

[Can't log in?](#)

DKIST CSP: JIRA Users' Guide

2. CSP Community Dashboard



NSO

Search

- Dashboards
- Projects
- Issues
- Settings
- Tests

NEW JIRA EXPERIENCE

- What has changed?
- Turn off for now

CSP Community DB

Introduction

Welcome to the DKIST Critical Science Plan development project.

Activity Stream

December 11

Valentin Pillet created UC-91 - Physical conditions at the Current Sheet trailing CMEs

December 08

Valentin Pillet commented on UC-90 - Synoptic Coronal Observations in support of PSP and Solar Orbiter

Alexandra Tritschler commented on UC-90 - Synoptic Coronal Observations in support of PSP and Solar Orbiter

Hi Valentin, just a small correction: yes, the program asks for coordination but please choose "Synoptic" as Program Type.

Valentin Pillet created UC-90 - Synoptic Coronal Observations in support of PSP and Solar Orbiter

December 07

Heat Map

Filament Other Plage or Network Prominence Quiet Corona
 Quiet Sun Sunspots and/or Pores None

There are 8 distinct 'Type of Target(s)' values in 81 Issues

Two Dimensional Filter Statistic...

Type of Target(s)	Cryo-NIRSP (http://dkis
Filament	3
Other	2
Plage or Network	3
Prominence	3
Quiet Corona	4
Quiet Sun	6
Sunspots and/or Pores	6
None	0
Total Unique Issues:	12

Showing 8 of 8 statistics.
 Grouped by: Instrument Set Definition

Pie Chart: All CSP

Research Topic
 Total Issues: 81

- MC, M&EF: The Chromosphere-C... 11
- None 10
- MHD&DP: Small-Scale Photospher... 9
- MHD&DP: Sunspots: Umbral and P... 9
- F&EA: Coronal Magnetic Field Stru... 7
- MHD&DP: Wave Generation and Pr... 6
- F&EA: Magnetic Field Connectivity... 4
- LTS: Long-Term Studies of the Sun 4
- MC, M&EF: Spicule Physics 3
- MHD&DP: Flux Emergence and Ac... 3
- Other... 15

Bubble Chart: All CSP

DKIST CSP: JIRA Users' Guide

3. Browsing CSP Science Use Cases



Search

+ Dashboards

Projects

Issues ←

Settings

Tests

NEW JIRA EXPERIENCE

What has changed?

Turn off for now

CSP Community DB

Introduction

Welcome to the DKIST Critical Science Plan development project.

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Filament Other Plage or Network Prominence Quiet Corona
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- MHD&DP: Wave Generation and Pr... 6
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- MHD&DP: Flux Emergence and Ac... 3
- Other... 15

Activity Stream

December 11

Valentin Pillet created UC-91 - Physical conditions at the Current Sheet trailing CMEs

LLL Comment Vote Watch

December 08

Valentin Pillet commented on UC-90 - Synoptic Coronal Observations in support of PSP and Solar Orbiter

Done

LLL Comment Watch

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LLL Comment Watch

December 07

Valentin Pillet created UC-90 - Synoptic Coronal Observations in support of PSP and Solar Orbiter

LLL Comment Vote Watch

Two Dimensional Filter Statistic...

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Total Unique Issues:	12

Showing 8 of 8 statistics.
Grouped by: Instrument Set Definition

Bubble Chart: All CSP

Click "Issues"

DKIST CSP: JIRA User's Guide

3. Browsing CSP Science Use Cases

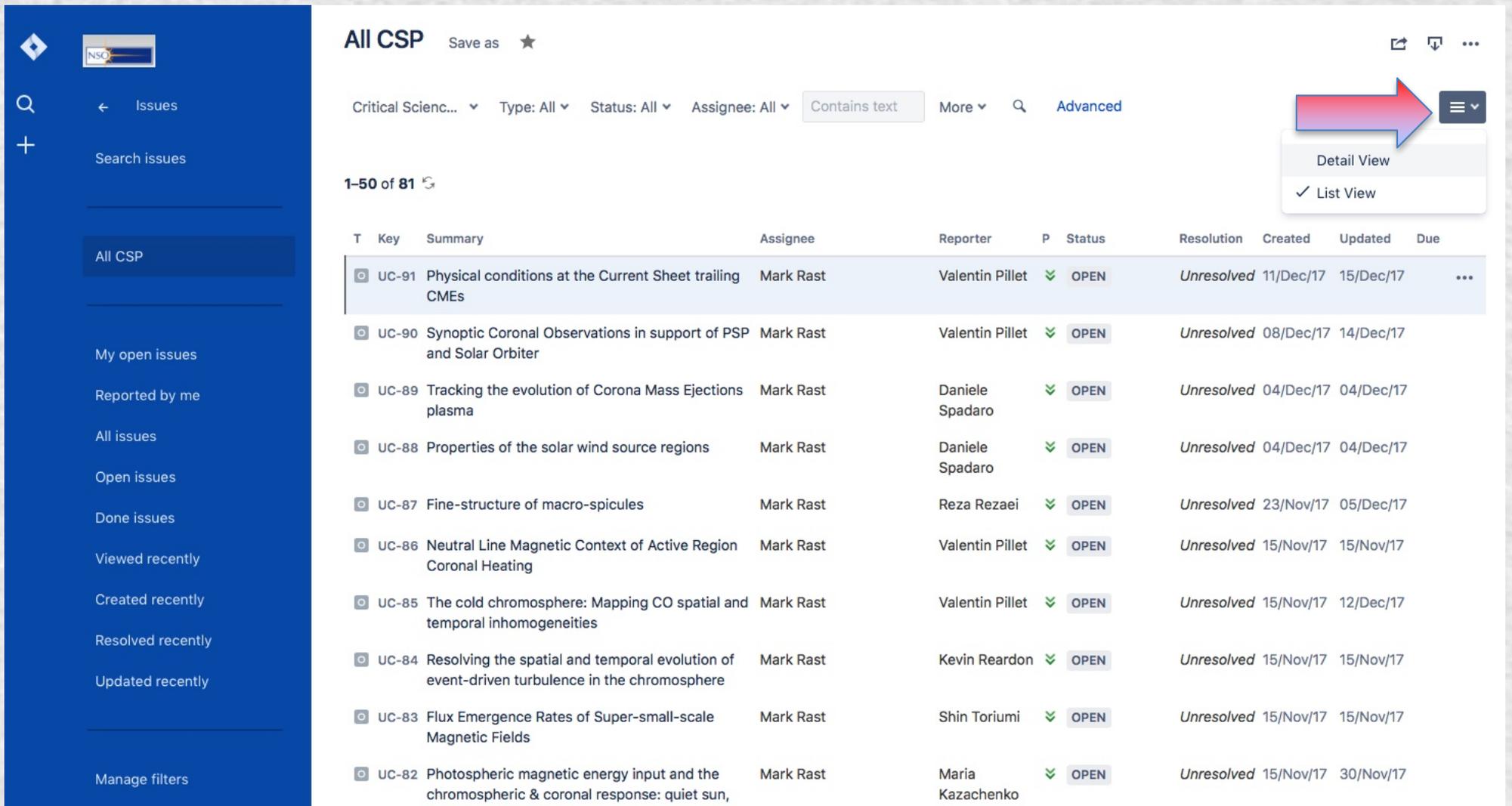
(NOTE: *Issues* == Science Use Cases)

The screenshot displays the JIRA interface for the 'All CSP' project. The left sidebar contains navigation options: Issues, Search issues, All CSP (highlighted with a red arrow and a yellow box containing the text 'Click "All CSP"'), My open issues, Reported by me, All issues, Open issues, Done issues, Viewed recently, Created recently, Resolved recently, Updated recently, and Manage filters. The main content area shows a list of 81 issues, with the first 50 displayed. The table columns are: T, Key, Summary, Assignee, Reporter, P, Status, Resolution, Created, Updated, and Due. The first row is highlighted in blue and contains the following data: UC-91, Physical conditions at the Current Sheet trailing CMEs, Mark Rast, Valentin Pillet, OPEN, Unresolved, 11/Dec/17, 15/Dec/17. A blue note '(NOTE: Summary == Title)' is overlaid on the table. The top of the page shows the project name 'All CSP', a search bar with 'Contains text', and a 'Columns' dropdown menu.

T	Key	Summary	Assignee	Reporter	P	Status	Resolution	Created	Updated	Due
	UC-91	Physical conditions at the Current Sheet trailing CMEs	Mark Rast	Valentin Pillet	✓	OPEN	Unresolved	11/Dec/17	15/Dec/17	...
	UC-90	Coronal Observations in support of PSP for Orbiter	Mark Rast	Valentin Pillet	✓	OPEN	Unresolved	08/Dec/17	14/Dec/17	
	UC-89	Tracking the evolution of Corona Mass Ejections plasma	Mark Rast	Daniele Spadaro	✓	OPEN	Unresolved	04/Dec/17	04/Dec/17	
	UC-88	Properties of the solar wind source regions	Mark Rast	Daniele Spadaro	✓	OPEN	Unresolved	04/Dec/17	04/Dec/17	
	UC-87	Fine-structure of macro-spicules	Mark Rast	Reza Rezaei	✓	OPEN	Unresolved	23/Nov/17	05/Dec/17	
	UC-86	Neutral Line Magnetic Context of Active Region Coronal Heating	Mark Rast	Valentin Pillet	✓	OPEN	Unresolved	15/Nov/17	15/Nov/17	
	UC-85	The cold chromosphere: Mapping CO spatial and temporal inhomogeneities	Mark Rast	Valentin Pillet	✓	OPEN	Unresolved	15/Nov/17	12/Dec/17	
	UC-84	Resolving the spatial and temporal evolution of event-driven turbulence in the chromosphere	Mark Rast	Kevin Reardon	✓	OPEN	Unresolved	15/Nov/17	15/Nov/17	
	UC-83	Flux Emergence Rates of Super-small-scale Magnetic Fields	Mark Rast	Shin Toriumi	✓	OPEN	Unresolved	15/Nov/17	15/Nov/17	
	UC-82	Photospheric magnetic energy input and the chromospheric & coronal response: quiet sun, coronal bright points	Mark Rast	Maria Kazachenko	✓	OPEN	Unresolved	15/Nov/17	30/Nov/17	

DKIST CSP: JIRA User's Guide

3. Browsing CSP Science Use Cases: *List View*



The screenshot displays the JIRA interface for the 'All CSP' project. The left sidebar contains navigation options such as 'Issues', 'Search issues', and various filters. The main content area shows a list of use cases with columns for Type, Key, Summary, Assignee, Reporter, Priority, Status, Resolution, Created, Updated, and Due. A dropdown menu is open, showing 'List View' as the selected view, indicated by a red arrow.

All CSP Save as ★

Critical Scienc... Type: All Status: All Assignee: All Contains text More Q Advanced

1-50 of 81

T	Key	Summary	Assignee	Reporter	P	Status	Resolution	Created	Updated	Due
○	UC-91	Physical conditions at the Current Sheet trailing CMEs	Mark Rast	Valentin Pillet	✓	OPEN	Unresolved	11/Dec/17	15/Dec/17	...
○	UC-90	Synoptic Coronal Observations in support of PSP and Solar Orbiter	Mark Rast	Valentin Pillet	✓	OPEN	Unresolved	08/Dec/17	14/Dec/17	
○	UC-89	Tracking the evolution of Corona Mass Ejections plasma	Mark Rast	Daniele Spadaro	✓	OPEN	Unresolved	04/Dec/17	04/Dec/17	
○	UC-88	Properties of the solar wind source regions	Mark Rast	Daniele Spadaro	✓	OPEN	Unresolved	04/Dec/17	04/Dec/17	
○	UC-87	Fine-structure of macro-spicules	Mark Rast	Reza Rezaei	✓	OPEN	Unresolved	23/Nov/17	05/Dec/17	
○	UC-86	Neutral Line Magnetic Context of Active Region Coronal Heating	Mark Rast	Valentin Pillet	✓	OPEN	Unresolved	15/Nov/17	15/Nov/17	
○	UC-85	The cold chromosphere: Mapping CO spatial and temporal inhomogeneities	Mark Rast	Valentin Pillet	✓	OPEN	Unresolved	15/Nov/17	12/Dec/17	
○	UC-84	Resolving the spatial and temporal evolution of event-driven turbulence in the chromosphere	Mark Rast	Kevin Reardon	✓	OPEN	Unresolved	15/Nov/17	15/Nov/17	
○	UC-83	Flux Emergence Rates of Super-small-scale Magnetic Fields	Mark Rast	Shin Toriumi	✓	OPEN	Unresolved	15/Nov/17	15/Nov/17	
○	UC-82	Photospheric magnetic energy input and the chromospheric & coronal response: quiet sun,	Mark Rast	Maria Kazachenko	✓	OPEN	Unresolved	15/Nov/17	30/Nov/17	

DKIST CSP: JIRA User's Guide

3. Browsing CSP Science Use Cases: *Detail View*

(NOTE: *Additional Users to E-mail == Co-I*)

The screenshot displays the JIRA interface for the DKIST CSP project. The left sidebar contains navigation options such as "Issues", "Search issues", "All CSP", "My open issues", "Reported by me", "All issues", "Open issues", "Done issues", "Viewed recently", "Created recently", "Resolved recently", and "Updated recently". The main content area shows the "All CSP" view with filters for "Critical Scienc...", "Type: All", "Status: All", "Assignee: All", and "Contains text". A list of use cases is displayed, including "UC-91: Physical conditions at the Current Sheet trailing...", "UC-90: Synoptic Coronal Observations in support of...", "UC-89: Tracking the evolution of Corona Mass Ejecti...", "UC-88: Properties of the solar wind source regions", "UC-87: Fine-structure of macro-spicules", "UC-86: Neutral Line Magnetic Context of Active Regi...", "UC-85: The cold chromosphere: Mapping CO spatial ...", "UC-84: Resolving the spatial and temporal evolution ...", "UC-83: Flux Emergence Rates of Super-small-scale ...", "UC-82: Photospheric magnetic energy input and the ...", and "UC-81: Chromospheric Signatures of Active Region ...". The detailed view of UC-91 is shown, with tabs for "GENERAL INFORMATION", "SCIENCE JUSTIFICATION", "OBSERVATION SPECIFICS", "TARGET SPECIFICS", and "INSTRUMENT SPECIFICS". The "SCIENCE JUSTIFICATION" tab is active, showing the title "Physical conditions at the Current Sheet trailing CMEs" and the abstract: "CMEs eruption are known to have a trailing current sheet where reconnection occurs and that likely results in the post flare loops arcades. By doing off-limb spectroscopy and polarimetry of this region we can constrain the physics of the reconnection processes". The interface also includes a view toggle menu with "Detail View" and "List View" options, and a red arrow pointing to it.

All CSP Save as ★

Critical Scienc... Type: All Status: All Assignee: All Contains text More 🔍 Advanced

Order by ▼

- UC-91 Physical conditions at the Current Sheet traili...
- UC-90 Synoptic Coronal Observations in support of ...
- UC-89 Tracking the evolution of Corona Mass Ejecti...
- UC-88 Properties of the solar wind source regions
- UC-87 Fine-structure of macro-spicules
- UC-86 Neutral Line Magnetic Context of Active Regi...
- UC-85 The cold chromosphere: Mapping CO spatial ...
- UC-84 Resolving the spatial and temporal evolution ...
- UC-83 Flux Emergence Rates of Super-small-scale ...
- UC-82 Photospheric magnetic energy input and the ...
- UC-81 Chromospheric Signatures of Active Region ...

Critical Science Plan: Use Case (UC) Development / UC-91

Physical conditions at the Current Sheet trailing CMEs

Edit Comment Assign Start Progress Admin ▼

Type: Science Use Case

Status: OPEN (View workflow)

Priority: Minor

Resolution: Unresolved

Labels: None

Assignee: Mark Rast

Reporter: Valentin Pillet

Principal Investigator: Valentin Pillet

Additional Users to E-mail: Adam Francis Kowalski, Gianna.Cauzzi, Han Uitenbroeck, kreeves@cfa.harvard.edu ...

Votes: 0 Vote for this issue

Watchers: 1 Start watching this issue

Created:

DKIST CSP: JIRA User's Guide

4. Viewing Issue (Science Use Case) content

The screenshot displays the JIRA interface for a specific issue. On the left is a blue sidebar with navigation options like 'Issues', 'Search issues', and various filters. The main content area shows the issue details for 'Spectro-polarimetric detection of propagating Alfvén waves' (UC-79) under the 'Critical Science Plan: Use Case (UC) Development' project. The issue is assigned to Mark Rast and reported by Yukio Katsukawa. A red arrow points to the 'Labels' field, which contains 'CSP-Huntsville'. Below the labels are tabs for 'GENERAL INFORMATION', 'SCIENCE JUSTIFICATION', 'OBSERVATION SPECIFICS', 'TARGET SPECIFICS', and 'INSTRUMENT SPECIFICS'. The 'Abstract' section is expanded, showing a detailed description of the science use case. On the right, there are sections for 'Assignee', 'Reporter', 'Principal Investigator', 'Additional Users to E-mail', 'Votes', 'Watchers', 'Created', and 'Updated'.

All CSP Save as ★

Critical Scienc... Type: All Status: All Assignee: All Contains text More Advanced

Order by

- UC-91 Physical conditions at the Current Sheet traili...
- UC-90 Synoptic Coronal Observations in support of ...
- UC-89 Tracking the evolution of Corona Mass Ejecti...
- UC-88 Properties of the solar wind source regions
- UC-87 Fine-structure of macro-spicules
- UC-86 Neutral Line Magnetic Context of Active Regi...
- UC-85 The cold chromosphere: Mapping CO spatial ...
- UC-84 Resolving the spatial and temporal evolution ...
- UC-83 Flux Emergence Rates of Super-small-scale ...
- UC-82 Photospheric magnetic energy input and the ...
- UC-81 Chromospheric Signatures of Active Region ...
- UC-80 Chromospheric and photospheric magnetic fi...
- UC-79 Spectro-polarimetric detection of propagatin...**
- UC-78 Reconnection events in the low solar atmsp...

Critical Science Plan: Use Case (UC) Development / UC-79 13 of 81

Spectro-polarimetric detection of propagating Alfvén waves

Edit Comment Assign Start Progress Admin

Type: Science Use Case
Status: OPEN (View workflow)
Priority: Minor
Resolution: Unresolved
Labels: CSP-Huntsville

Assignee: Mark Rast
Reporter: Yukio Katsukawa
Principal Investigator: Yukio Katsukawa
Additional Users to E-mail: Anan Tetsu, Bart De Pontieu
Votes: 0 Vote for this issue
Watchers: 2 Stop watching this issue
Created: 14/Nov/17 2:48 PM
Updated: 15/Nov/17 2:24 PM

GENERAL INFORMATION SCIENCE JUSTIFICATION
OBSERVATION SPECIFICS TARGET SPECIFICS
INSTRUMENT SPECIFICS

PI Affiliation: National Astronomical Observatory of Japan

Abstract:
Recent high resolution observations have revealed that chromospheric structures, such as fibrils, spicules and prominences, often exhibit transverse and torsional oscillation, suggesting that Alfvénic waves potentially carry significant energy flux into the corona. There have been no observations directly detecting magnetic field fluctuation associated with such Alfvénic waves, which limits our concrete knowledge on Poynting flux carried by the waves. The high polarimetric sensitivity as well as spatial resolution of DKIST allows us to detect modulation of

DKIST CSP: JIRA User's Guide

4. Viewing Content (Single Issue)

The screenshot displays the JIRA issue view for 'Spectro-polarimetric detection of propagating Alfvén waves' (UC-79). A red arrow points to the issue number 'UC-79' in the breadcrumb trail, with a yellow callout box containing the text 'Click on the Use Case number'. The interface includes a left sidebar with navigation options, a top navigation bar with filters, and a main content area with tabs for 'GENERAL INFORMATION', 'SCIENCE JUSTIFICATION', 'OBSERVATION SPECIFICS', and 'TARGET SPECIFICS'. The 'SCIENCE JUSTIFICATION' tab is active, showing a detailed scientific context.

Click on the Use Case number

Issue Details:

- Issue ID: UC-79
- Title: Spectro-polarimetric detection of propagating Alfvén waves
- Type: Science Use Case
- Status: OPEN (View workflow)
- Assignee: Mark Rast
- Priority: Minor
- Resolution: Unresolved
- Labels: CSP-Huntsville

Scientific Context:

Recent high resolution observations have revealed that thread structures in the chromosphere, such as chromospheric fibrils (e.g. Jafarzadeh et al. 2017), spicules (e.g. De Pontieu et al. 2007, Okamoto et al. 2011), and prominences (Okamoto et al. 2007, 2015), often exhibit transverse and torsional oscillation, suggesting that Alfvénic waves potentially carry significant energy flux into the corona. So far they made crude estimation of Poynting flux using velocity amplitude of the oscillation and typical chromospheric density assumed in the thread structure. If we can get modulation of magnetic fields associated with the Alfvénic waves in addition to velocity oscillation, we can directly obtain Poynting flux as $P = 1/4\pi B_l \times V_t \times B_t$ without assumption of the density, where B_l and B_t are longitudinal and transverse fields and V_t transverse velocity. Especially it is critical to get relative phase relationship between velocity and magnetic fluctuation to know the waves is propagating or not. If the relative phase is 90 or 270 deg, the wave is standing one, and it does not carry the energy. If the relative phase is 0 or 180 deg, on the other hand, the wave is propagating one, and it carries the energy. An observation of magnetic field oscillation has been done in the photosphere using Hinode

DKIST CSP: JIRA User's Guide

5. Searching CSP Science Use Cases

Search issues under Issues

The screenshot displays the JIRA interface for searching science use cases. The left sidebar contains navigation options: Issues, Search issues, All CSP, My open issues, Reported by me, All issues, Open issues, Done issues, Viewed recently, Created recently, Resolved recently, and Updated recently. The main content area shows search results for "Reconnection events in the low solar atmosphere driven by the plasmoid instability" (UC-78). The search bar at the top indicates the default sorting is "order by lastViewed DESC". A yellow box highlights the "Basic" search filter, with a red arrow pointing to it and a text box stating "Switch 'basic' to 'advanced'". The detailed view of the issue shows the title, status (OPEN), priority (Minor), resolution (Unresolved), and labels (CSP-Huntsville). The issue is assigned to Mark Rast and reported by Bart De Pontieu. The principal investigator is Bart De Pontieu. Additional users to be emailed include Ronald L. Moore, Shin Toriumi, and Yukio Katsukawa. The issue has 0 votes and 1 watcher.

Search Save as

order by lastViewed DESC

Default: last viewed

Basic

Switch "basic" to "advanced"

Order by Last Viewed ↓

- UC-78
Reconnection events in the low s...
- UC-82
Photospheric magnetic energy in...
- UC-17
Explorations of ubiquitous, high f...
- UC-77
Explorations of ubiquitous, high frequency MHD waves in the solar chromosphere
- UC-91
Quasi-periodic oscillations with r...
- UC-85
Physical conditions at the Curren...
- UC-34
The cold chromosphere: Mappin...
- UC-62
Chromospheric and Coronal Obs...
- UC-74
Are quiet-Sun internetwork field...
- UC-22
Emerging Flux: Current (de)Neut...
- UC-25
Chromosphere-Corona Mass Cy...

Critical Science Plan: Use Case (UC) Development / UC-78

Reconnection events in the low solar atmosphere driven by the plasmoid instability

Edit Comment

Type: Science Use Case

Status: OPEN (View workflow)

Priority: Minor

Resolution: Unresolved

Labels: CSP-Huntsville

Assignee: Mark Rast

Reporter: Bart De Pontieu

Principal Investigator: Bart De Pontieu

Additional Users to E-mail: Ronald L. Moore, Shin Toriumi, Yukio Katsukawa ...

Votes: 0 Vote for this issue

Watchers: 1 Start watching this issue

Created:

GENERAL INFORMATION

SCIENCE JUSTIFICATION

OBSERVATION SPECIFICS

TARGET SPECIFICS

INSTRUMENT SPECIFICS

PI Affiliation: LMSAL

Abstract:

▼ Magnetic reconnection is thought to drive a wide variety of dynamic

1 2 >

https://nso-atst.atlassian.net/browse/UC-17

DKIST CSP: JIRA User's Guide

5. Searching CSP Science Use Cases (example: All Use Cases needing Coordinated obs)

Search Save as

Project: All ▾ Type: All ▾ Status: All ▾ Assignee: All ▾ Contains text More ▾

Program Type: Coordinated ▾ ×

Search

Coordinated

Regular (None of the below)

Synoptic

Target of Opportunity

Please select from the above.

Target of Opportunity: Can be something that is infrequent but predictable (e.g., Planetary Transit) or unpredictable (e.g., a flare).

Synoptic: Observations extending over multiple proposal cycles.

UC-88	Properties of the solar wind source regions	Daniele Spadaro	A detailed physical characterization of the solar wind source regions can be performed from near surface to about 2 solar radii above the limb, using several spectral bands (visible light, Ly α of H I and He II, Fe XIV, lines suitable for magnetic field determination). The magnetic field topology detected by DKIST can be related to the solar wind properties (plasma density, helium abundance, plasma outflow velocity) measured by the Solar Orbiter instruments Metis and EUI (FSI) in the inner heliosphere. The influence of the magnetic flux divergence (directly determined by DKIST and indirectly by Metis) on the wind expansion velocity in the source regions can be investigated. This science case can be categorized under the DKIST Research Area: Magnetic Connectivity, Mass and Energy Flows in the Solar Atmosphere. The corresponding Solar Orbiter science objective is Q1: What drives the solar wind and where does the heliospheric magnetic field originate. On the Solar Orbiter side, the following SOOPs can be used to address this science investigation: L_BOTH_HRES_LCAD_CH_Boundary_Expansion, L_FULL_HRES_LCAD_MagnFieldConfig
UC-81	Chromospheric Signatures of Active Region Microflares	David Mckenzie	Small-scale transient brightenings in active regions have been identified from coronal imagers (Yohkoh/SXT, Hinode/XRT, TRACE, Hi-C, e.g) as microflares. High-cadence, high-resolution observations imply unresolved structure within the brightening loops on sub-arcsecond length scales, and time scales as short as 10s (Kobelski+2014). The microflares are found to be distributed throughout active regions, occurring as frequently as 50 per hour. This study investigates the chromospheric signatures of the energetic release in the microflares, and the relationship to magnetic footpoints in the photosphere.
UC-78	Reconnection events in the low solar atmosphere driven by the plasmoid instability	Bart De Pontieu	Magnetic reconnection is thought to drive a wide variety of dynamic phenomena in the solar atmosphere. Yet the detailed physical mechanisms driving reconnection in the solar atmosphere are not well known, in part because of the small spatial scales on which this process occurs. Here we propose to build on preliminary

Browse "More" for criteria, e.g. "Program Type"

DKIST CSP: JIRA User's Guide

6. Notifications

- Group: DKIST Community
 - Creation of CSP Science Use Case
 - Approval of CSP Science Use Case
- Role: Principal Investigator/Co-Investigators/Watchers
 - Creation of CSP Science Use Case
 - Edit of CSP Science Use Case
 - Comment on CSP Science Use Case
- Role: Project Lead
 - Notifications for edit/comment/create/delete
 - Notifications for workflow actions (moves to In Progress, Under Review, Rejected, Approved)

DKIST CSP: JIRA User's Guide

6. Notifications

- Be careful in responding to e-mail notifications from JIRA; these will automatically be posted as a Comment to the relevant ticket (and are therefore viewable by all allowed users).

(NOTE: *Additional Users to E-mail* == Co-I)

- To add yourself to a Use Case for PI, Co-I level notifications:
 - Become a Watcher, or
 - Request to be a Co-I from PI, or Project Lead (use Comment to make the request)
- To remove yourself from too many notifications:
 - Edit Use Case and remove your name as Co-I (See Editing your Science Use Case);
 - if you are the PI, you must re-Assign the Use Case.

8 of 81 ^ v

turbulence in the

Assignee: Mark Rast

Reporter: Kevin Reardon

Principal Investigator: Kevin Reardon

Additional Users to E-mail: Bart De Pontieu, Mark Rast ...

Votes: 0 Vote for this issue

Watchers: 1 Start watching this issue

Created: 15/Nov/17 10:00 AM

Critical Science Plan: Use Case (UC) Development / UC-84

Resolving the spatial and temporal evolution of event-driven turbulence in the chromosphere

Edit Comment Assign Start Progress Admin v

Type: Science Use Case Status: OPEN (View workflow)

Priority: Minor Resolution: Unresolved

Labels: CSP-Huntsville

GENERAL INFORMATION TARGET SPECIFICS INSTRUMENT SPECIFICS

PI Affiliation: National Solar Observatory

Abstract: v The passage of acoustic waves in the chromosphere is known to result in the creation of shocks and rapid deposition of energy into the coronal plasma. There is evidence that these shocks results in the onset of turbulent cascades that propagate that energy in space and frequency. This process may be important for chromospheric heating and mode conversion that might allow transmission of energy to higher layers of the solar atmosphere. With DKIST we can obtain observations of these events at sufficient spatial and temporal resolution to probe the details of this process in both individual

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7. Create a new Science Use Case

All CSP Save as ★

Issues

All CSP

My open issues

Reported by me

All issues

Open issues

Done issues

Viewed recently

Created recently

Resolved recently

Updated recently

Manage filters

Issue

Project

Create issue

Project*

Critical Science Plan: Use C...

Issue Type*

Science Use Case

Some issue types are unavailable due to incompatible field configuration and/or workflow associations.

Summary*

(NOTE: Summary == Title)

Principal Investigator

Start typing to get a list of possible matches.

<p>Note: Must have CSP Account setup</p>

PI Affiliation

Abstract

Please provide a short summary of your Science Use Case.

Additional Users to E-mail

Start typing to get a list of possible matches.

Program Type

None

Regular (None of the below)

Target of Opportunity

Synoptic

Coordinated

Please select from the above.

Target of Opportunity: Can be something that is infrequent but predictable (e.g., Planetary Transit) or unpredictable (e.g., a flare).
Synoptic: Observations extending over multiple proposal cycles.
Coordinated: Requires active coordination with another facility.

Create another

DKIST CSP: JIRA User's Guide

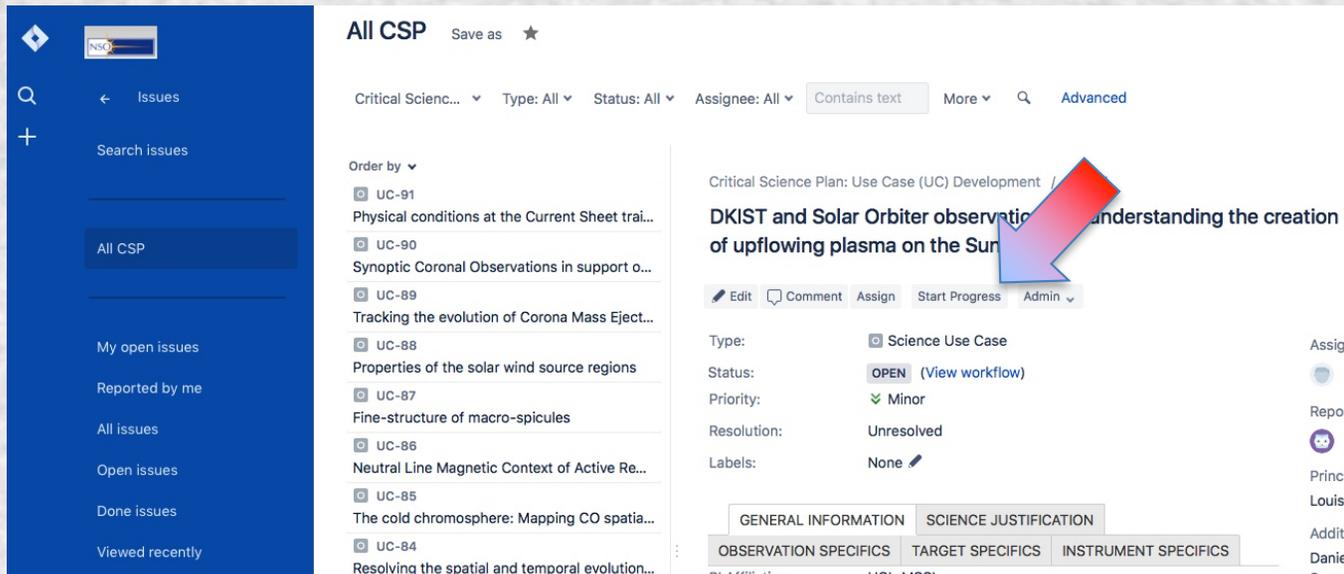
8. Editing your Science Use Case (PI, Co-I)

The screenshot displays the JIRA interface for editing a Science Use Case (UC-91). The interface is organized into three main sections:

- Left Sidebar:** Contains navigation options such as 'Issues', 'Search issues', 'All CSP', 'My open issues', 'Reported by me', 'All issues', 'Open issues', 'Done issues', 'Viewed recently', 'Created recently', 'Resolved recently', 'Updated recently', and 'Manage filters'.
- Central Issue Details:** Shows the issue title 'Physical conditions at the Current Sheet trailing CMEs' and its status 'OPEN (View workflow)'. It also displays the resolution 'Unresolved' and labels 'None'. A red arrow points to the 'Edit' button.
- Right-hand 'Edit issue' Form:** Contains several tabs for editing the issue: 'GENERAL INFORMATION', 'SCIENCE JUSTIFICATION', 'OBSERVATION SPECIFICS', 'TARGET SPECIFICS', and 'INSTRUMENT SPECIFICS'. The 'GENERAL INFORMATION' tab is active, showing fields for 'Principal Investigator' (vmpillet), 'PI Affiliation' (National Solar Observatory), 'Abstract' (CMEs eruption are known to have a trailing current sheet where reconnection occurs...), 'Additional Users to E-mail' (Adam.Kowalski, Gianna.Cauzzi, han.huitenbroek, katharine.reeves), 'Program Type' (Target of Opportunity), and 'Observing Coordination' (We will need to make sure a CME is occurring and understand where the current sheet behind the CME is located...).

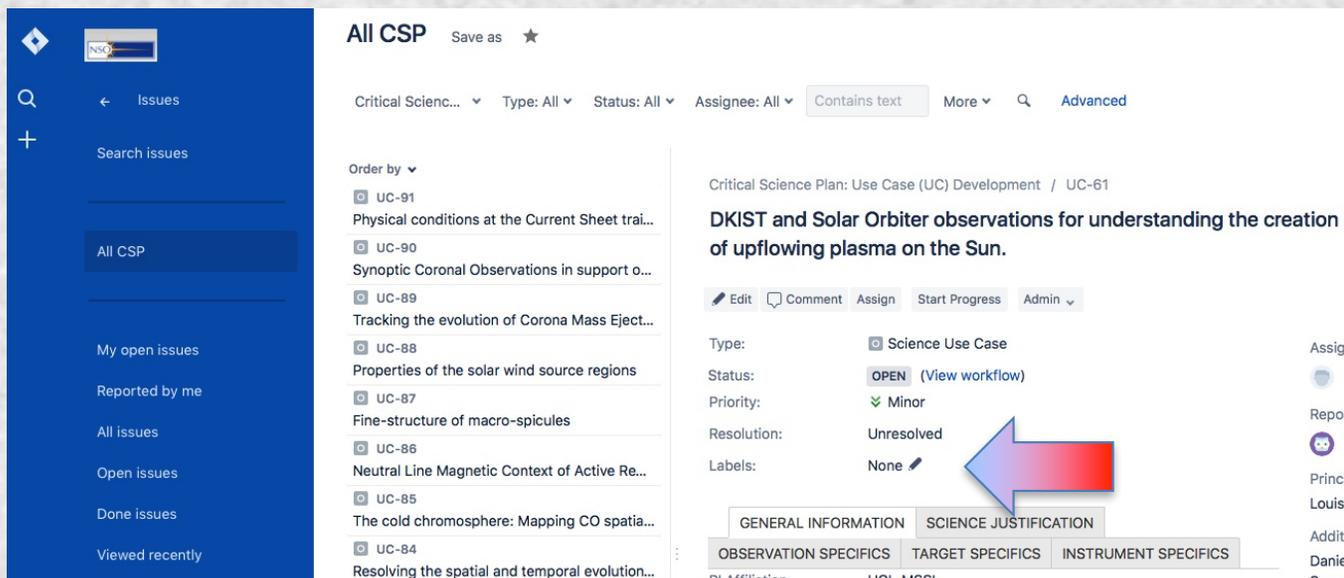
DKIST CSP: JIRA User's Guide

9. Status and Labels Fields



This screenshot shows a JIRA issue page for UC-89. The issue title is "DKIST and Solar Orbiter observations for understanding the creation of upflowing plasma on the Sun". The status is "OPEN" and the priority is "Minor". The "Labels" field is currently set to "None". A red arrow points to the "Labels" field.

- For now please leave *Start Progress* (which changes the *Status* field) alone



This screenshot shows a JIRA issue page for UC-61. The issue title is "DKIST and Solar Orbiter observations for understanding the creation of upflowing plasma on the Sun". The status is "OPEN" and the priority is "Minor". The "Labels" field is currently set to "None". A red arrow points to the "Labels" field.

- If you worked on your Science Use Case as part of the DKIST CSP workshop series, please edit *Labels* as:
 - CSPW-SPD2016
 - CSPW-Huntsville
 - CSPW-Newcastle
 - CSPW-DC
 - CSPW-Freiburg
 - CSPW-Nagoya
 - CSPW-JHU/APL
 - CSPW-NMSU
 - CSPW-Rice
 - CSPW-Bozeman
 - CSPW-Synopticas appropriate.