



FP7 HELCATS – Helsinki Meeting WP8 Dissemination

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Overview

- Aim of the dissemination activity WP8 is to support the other work packages and the project as a whole in getting the results of the HELCATS work to broader heliospheric community and other interested parties outside the project.
- Runs from month 1 to month 36
 - Five tasks
 - Eight formal deliverables
- The consortium web site and wiki are key resources for the dissemination activities.

Tasks

T8.1: To publish the results of the studies in the professional literature, and present them at major international science meetings.

Work Package 4:

VERIFYING THE KINEMATIC PROPERTIES OF STEREO/HI CMES AGAINST IN-SITU CME OBSERVATIONS AND CORONAL SOURCES

| Authors | title | Reference | doi: |
|---|---|---|---|
| Good, S. W., R.J. Forsyth, J.M. Raines, D.J. Gershman, J.A. Slavin & T.H. Zurbuchen | Radial Evolution of a Magnetic Cloud: MESSENGER, STEREO, and Venus Express Observations | S.W. Good et al. 2015 ApJ 807, 177 | doi:10.1088/0004-637X/807/2/177 |
| Good, S. W. et al, | Interplanetary Coronal Mass Ejections observed by MESSENGER and Venus Express | Solar Physics, submitted, 2015 | |
| Mays, M. L., Thompson, B. J., Jian, L. K., Colaninno, R. C., Odstrcil, D., Mostl, C., Temmer, M., Savani, N. P., Taktakishvili, A., MacNeice, P. J., & Zheng, Y. | Propagation of the 7 January 2014 CME and Resulting Geomagnetic Non-Event | The Astrophysical Journal, in press, 2015 | |
| Mostl, C., Rollett, T., Vrsnak, B. | Strong coronal channelling and interplanetary evolution of a solar storm up to Earth and Mars | Nature Communications 6, 7135 (2015) | doi: 10.1038/ncomms8135 |
| Rollett T., C. Mostl, M. Temmer, R. A. Frahm, J. A. Davies, A. M. Veronig, B. Vrsnak, U. V. Amerstorfer, C. J. Farrugia, T. Zic, and T. L. Zhang | Combined multipoint remote and in situ observations of the asymmetric evolution of a fast solar coronal mass ejection | T. Rollett et al. 2014 ApJ 790 L6 | doi:10.1088/2041-8205/790/1/L6 |
| Ruffenach A., B. Lavraud, C. J. Farrugia, P. Demoulin, S. Dasso, M. J. Owens, J.-A. Sauvaud, A. P. Rouillard, A. Lynnyk, C. Foullon, N. P. Savani, J. G. Luhmann and A. B. Galvin | Statistical study of magnetic cloud erosion by magnetic reconnection | A. Ruffenach et al. 2015 J. Geophys. Res. Space Physics, 120, 43-60 | doi:10.1002/2014JA020628 |

Tasks

Work Package 5:

PRODUCING A DEFINITIVE CATALOGUE OF CIRs IMAGED BY STEREO/HI THAT INCLUDES VERIFIED MODEL-DERIVED KINEMATIC PROPERTIES

| Authors | title | Reference | doi: |
|---|---|--|------|
| Sanchez-Diaz E., K. Segura, A. P. Rouillard, B. Lavraud, and T. Chihiro | The very slow solar wind: origin, variability and properties | to be submitted to GRL, 2015 | - |
| Plotnikov I., A. P. Rouillard, and R. Pinto | Using heliospheric imaging to predict the arrival time of CIRs at various points in the inner heliosphere | to be submitted to Space Weather Journal, 2015 | - |

Work Package 6:

INITIALISING ADVANCED NUMERICAL MODELS BASED ON THE KINETIC PROPERTIES OF STEREO/HI CMES AND CIRs

| Authors | title | Reference | doi: |
|--|--|--|------|
| Pinto R., A.P. Rouillard, Y.-M. Wang, R. Grappin | The acceleration of the solar wind along magnetic flux tubes of varying geometries | to be submitted to Astrophys. J | - |
| Rouillard A.P., R. Pinto, I. Plotnikov | The expansion of coronal pressure waves in 3-D during Coronal Mass Ejections | to be submitted to Astrophysical Journal | - |

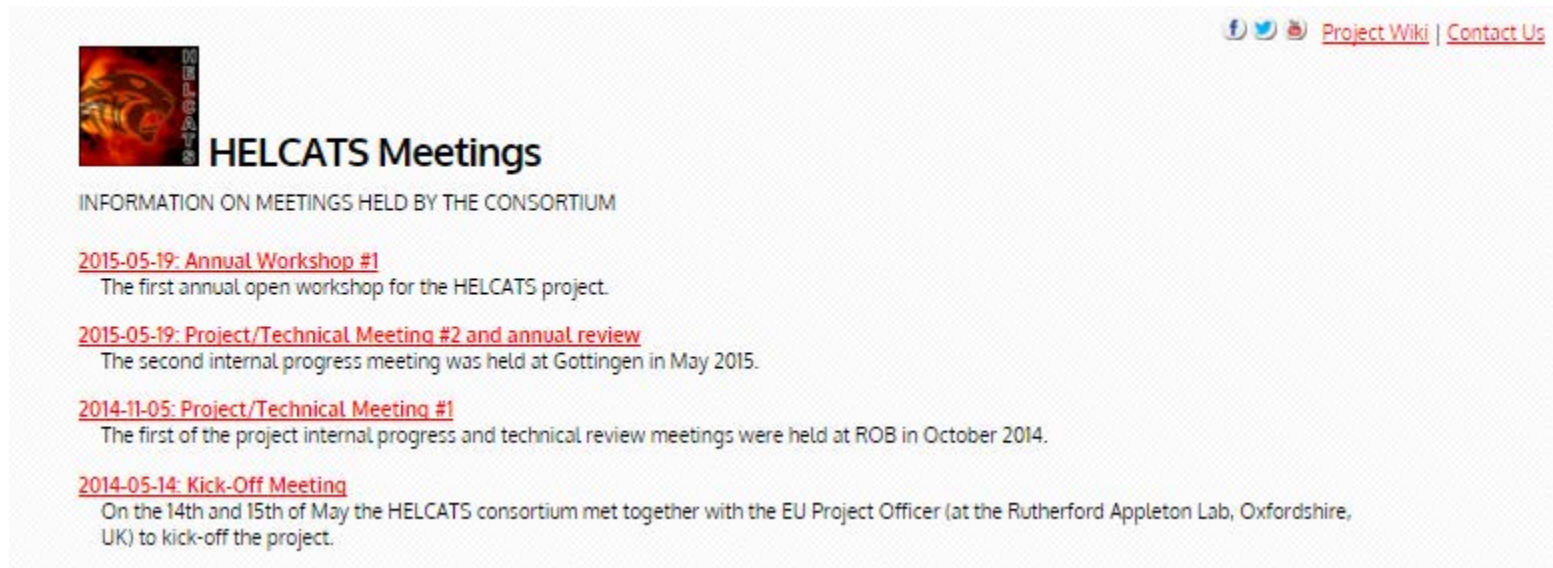
- Please let us know papers in preparation, submitted or in print so we can keep the online list up-to-date.
- Project funds available for publication and open access charges.

Tasks

T8.2: To arrange annual, open meetings for the scientific community during the lifetime of the project.

Status:

- Very successful first open workshop hosted Georg-August-University of Göttingen
- Presentations of both consortium and open meetings are on the web site




The screenshot shows a webpage titled "HELCATS Meetings" with a sub-header "INFORMATION ON MEETINGS HELD BY THE CONSORTIUM". The page lists four meetings:

- 2015-05-19: Annual Workshop #1**
The first annual open workshop for the HELCATS project.
- 2015-05-19: Project/Technical Meeting #2 and annual review**
The second internal progress meeting was held at Gottingen in May 2015.
- 2014-11-05: Project/Technical Meeting #1**
The first of the project internal progress and technical review meetings were held at ROB in October 2014.
- 2014-05-14: Kick-Off Meeting**
On the 14th and 15th of May the HELCATS consortium met together with the EU Project Officer (at the Rutherford Appleton Lab, Oxfordshire, UK) to kick-off the project.

Navigation links at the top right include [Project Wiki](#) and [Contact Us](#). A small image of a galaxy is visible on the left side of the page.

D8.2 Annual Workshop


Home Important Dates Registration Program Venue Accommodation Contact



HELCATS First Annual Open Workshop:

Heliospheric Imaging –
A new era of space science and space weather observations
Göttingen, May 19-22, 2015


The first Annual Open Workshop of the EU FP7 project HELCATS (HELIOSPHERIC CATALOGUING, ANALYSIS & TECHNIQUES SERVICE) will take place on May 19-22, 2015 at the Georg-August-University of Göttingen, Germany. It takes place directly after the second HELCATS bi-annual project meeting/technical review to be held on May 18-19. **The Annual Open Workshop is open to anyone who wishes to attend.** The meeting organisers are Volker Bothmer (Göttingen), Richard Harrison and Jackie Davies (both of the Rutherford Appleton Laboratory), the HELCATS Team, and the EU office at the University of Göttingen.



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HELCATS Annual Open Workshop – Program



| Tuesday 19 th May | |
|--|--|
| Session 1: Heliospheric Imaging observations of solar wind structure (e.g. CMEs, CIRs, turbulence): Introductory and review talks | |
| 14:00 | Welcome address V. Bothmer |
| 14:10 | HELCATS – Heliospheric Cataloguing, Analysis and Techniques Service <i>(invited)</i> R. Harrison, J. Davies & the HELCATS Steering Committee |
| 14:40 | Dynamic evolution of coronal mass ejections <i>(invited)</i> M. Temmer |
| 15:20 | ENLIL modelling support to the HELCATS project D. Odstrčil |
| 15:40 | Coffee/tea |
| 16:00 | Heliospheric Imaging: the status quo and the future <i>(invited)</i> T. Howard & C. DeForest |
| 16:40 | Thomson scattering revisited <i>(invited)</i> B. Inhester |
| 17:20 | Comprehensive analysis of CME propagation speeds in STEREO COR2 and HI1 instruments A. Pluta, V. Bothmer, E. Bosman, J. Davies, L. Volpes, M. Venzmer, N. Mroczek, R. Harrison, C. Möstl & P. Boakes |
| 17:40 | Comparing HELCATS CIR catalogues derived from white-light images and in-situ measurements I. Plotnikov & A. Rouillard |
| 18:00 | End of session (followed by reception until 20:00) |
| Wednesday 20 th May | |
| Session 2: Debating standards for making CME associations | |
| 09:00 | Linking CMEs to associated solar phenomena <i>(invited)</i> P. Gallagher, P. Zucca & E. Carley |
| 09:40 | A review of the use of event associations in CME onset studies from SMM, SOHO and STEREO, leading to suggested standards for the future R. Harrison |
| 10:00 | Discussion (including coffee from 10:20 to 10:40) Chair: P. Gallagher |
| 12:00 | Lunch (followed by excursion at 14:00) |
| Thursday 21 st May | |
| Session 3: Remote-sensing/in-situ observations of heliospheric phenomena and their sources and impacts | |
| 09:00 | The most generic shape of interplanetary CMEs: A comparison of models and interplanetary event catalogues <i>(invited)</i> M. Janvier, P. Demoulin & S. Dasso |
| 09:40 | Three-dimensional evolution of fast and slow CMEs from the Sun to 1 AU A. Isavnin, S. Kiki & E. Kilpua |
| 10:00 | Visualizations of the HI CME catalogue and solar wind magnetic field data C. Möstl, P. Boakes, A. Isavnin, E. Kilpua & J. Davies |
| 10:20 | Coffee/tea |

Download Programme as PDF File: [HELCATS Annual Open Workshop – Program](#)

Download the abstract booklet as PDF File: [HELCATS Annual Open Workshop – Abstract Booklet](#)

Download all presentations as ZIP File: [HELCATS Annual Open Workshop – Presentations \(~193 MB\)](#)

Tuesday 19th May
[1400_s1_vbothmer](#)
[1410_s1_rharrison](#)
[1440_s1_mtemmer](#)
[1520_s1_dodstrcil](#)
[1600_s1_thoward](#)
[1640_s1_binhester](#)
[1720_s1_apluta](#)
[1740_s1_plotnikov](#)

Wednesday 20th May
[0900_s2_pgallagher](#)
[0940_s2_rharrison](#)

Thursday 21st May
[0900_s3_mjanvier](#)



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- [Agenda](#)
- [Actions/Announcements](#)

Second bi-annual HELcats project Meeting

THE CONSORTIUM AND EU MEET TO DISCUSS PROGRESS ON THE HELCATS PROJECT



The second bi-annual project meeting was held May 2015 at Georg-August-Universität, Göttingen just prior to HELCATs first annual meeting at the same location. This was also the first review meeting for the project and was attended by the EU project officer and external reviewer.

Each of the work package leaders presented the current status of activities and good progress was seen to have been made with all workpackages now having been kicked-off.

[Minutes of Meeting PDF](#)

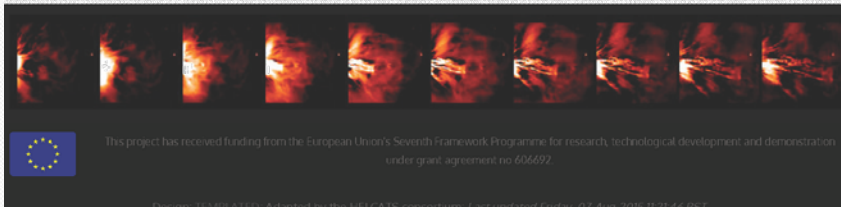
Agenda

The meeting agenda is shown below. Follow the links to download copies of the individual presentations.

| Monday 18th May 2015 | | |
|--|---|--------------------------|
| Time | Presentation | Presenter |
| 14:00 – 14:10 | Welcome and Introduction | V.Bothmer |
| 14:10 – 14:20 | EC perspective | S.Mekouci |
| WP1: management | | |
| 14:20 – 14:40 | Overview including general HELCATS status PDF | R.Harrison (WP1 lead) |
| WP2: producing a definitive catalogue of CMEs imaged by STEREO/HI | | |
| 14:40 – 14:50 | Overview PDF | J.Davies (WP2 lead) |
| 14:50 – 15:00 | Manual CME identification PDF | J.Byrne |
| 15:00 – 15:10 | Automatic CME identification PDF | L.Rodriguez |
| 15:10 – 15:20 | HI – COR2 catalogue comparison PDF | V.Bothmer |
| WP3: deriving/cataloguing the kinetic properties of STEREO/HI CMEs based on geometrical and forward modelling | | |
| 15:20 – 15:30 | Overview PDF | V.Bothmer |
| 15:30 – 15:40 | Forward modelling and CME kinematics PDF | A.Pluta |
| 15:40 – 16:10 | Coffee/tea | |
| 16:10 – 16:20 | Geometrical modelling PDF | D.Barnes |
| 16:20 – 16:30 | inverse modelling | P. Gallagher - cancelled |
| WP4: verifying the kinematic properties of STEREO/HI CMEs against in-situ CME observations and coronal sources | | |
| 16:30 – 16:40 | Overview PDF | C.Möstl (WP4 lead) |

| | | |
|---|--|------------------------|
| 16:40 – 16:50 | Lowcat - the low coronal event catalogue PDF | V.Bothmer |
| 16:50 – 17:00 | In-situ comparison PDF | E.Klupa |
| WP5: producing a definitive catalogue of CIRs imaged by STEREO/HI that includes verified model-derived kinematic properties | | |
| 17:00 – 17:15 | Overview PDF | A.Rouillard (WP5 lead) |
| 17:15 – 17:30 | Update on the CIR catalogue PDF | I.Plotnikov |

| Tuesday 19th May 2015 | | |
|--|---|------------------------|
| Time | Presentation | Presenter |
| WP6: initialising advanced numerical models based on the kinetic properties of STEREO/HI CMEs and CIRs | | |
| 09:00 – 09:15 | Overview PDF | A.Rouillard (WP6 lead) |
| 09:15 – 09:30 | Preparing boundary conditions for ENLIL PDF | R.Pinto |
| WP7: assessing the complementary nature of radio measurements of solar wind transients | | |
| 09:30 – 09:40 | Overview PDF | J.Eastwood* (WP7 lead) |
| 09:40 – 09:50 | Type 1 PDF | J.Eastwood* |
| 09:50 – 10:00 | Type 2 PDF | M.Bis |
| WP8: dissemination | | |
| 10:00 – 10:10 | Overview PDF | C. Perry (WP8 lead) |
| 10:10 – 10:20 | Stic PDF | C. Perry |
| 10:20 – 10:50 | Coffee/tea | |
| 10:50 – 11:00 | IPS/CNES PDF | A.Rouillard |
| Final comments | | |
| 11:00 – 11:15 | Reviewer impressions | B.Schieder |
| 11:15 – 12:00 | General discussions | Chair: R. Harrison |



This project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement no 606692.

Image: J. M. A. U. - Adapted by the HELCATS consortium. Last received from: 07 July 2015 11:21:05 BST

Tasks

T8.3: To install all relevant documents, catalogues, publications on the project website.

Status: (updates since last workshop)

- Formal release of V02 (2015-07-22) of the WP2 catalogue
 - DOI: [10.6084/m9.figshare.1492351](https://doi.org/10.6084/m9.figshare.1492351)
- WP3 kinematic properties catalogue has been added.
 - Based on V02 WP2 catalogue
 - Currently in draft (2015-09-30), some minor tweaks to VOT header needed
 - 2014 data complete -> next release of WP2 & WP3 (V03) almost ready
- Images, J-maps & Time elongation profiles created but update to datatables library needed to make them accessible by clicking on table rows.
- WP3 KINCAT – catalogue from UGOE translated (pre-release)
- Update to WP4 catalogue based on WP3 V02 expected soon
- WP5 CIR catalogue in propagation tool will be added to HELCATS web site ASAP
- Investigating a web “map” of catalogues prompted by Emila’s example

Tasks

Catalogues released in several formats (ASCII, JSON and VOTable)
Done for WP2, WP3 HI kinematics and KINCAT to be done for WP4 and WP5

Note: Display on web site automatically removes 'bad' quality events but these are included in the full file downloads

Fixed format ASCII

```
HCME_B__20070415_01 2007-04-15T04:10Z B 285 245 poor  
HCME_A__20070417_01 2007-04-17T16:50Z A 105 125 poor  
HCME_A__20070419_01 2007-04-19T13:30Z A 40 140 good
```

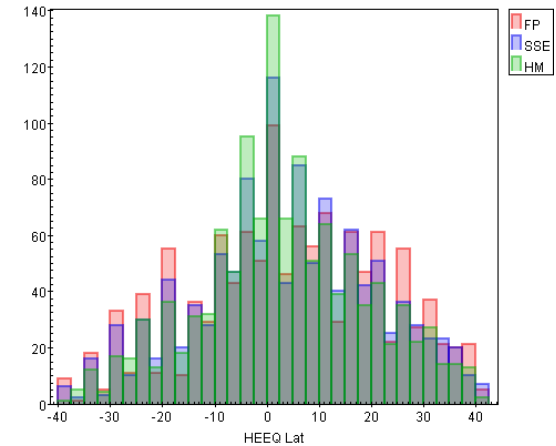
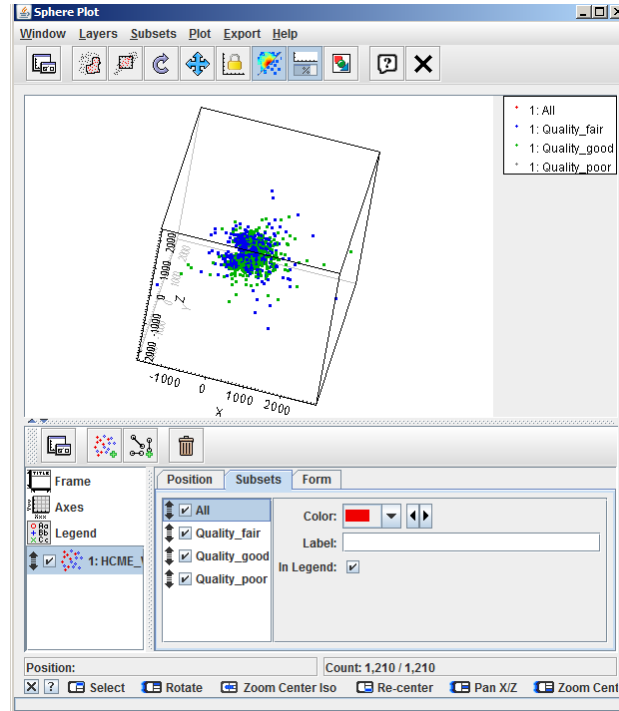
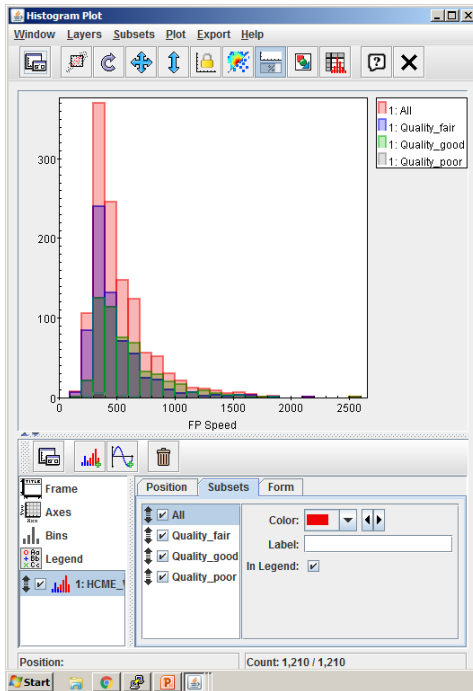
JSON (useful for web client access)

```
{ "columns" : [ "ID", "Date [UTC]", "SC", "L:N", "PA-N [deg]", "L:S", "PA-S [deg]", "Quality"  
], "data" : [ [ "HCME_B__20070415_01", "2007-04-15 04:10", "B", "", "285", "", "245",  
"poor" ], [ "HCME_A__20070417_01", "2007-04-17 16:50", "A", "", "105", "", "125",  
"poor" ], [ "HCME_A__20070419_01", "2007-04-19 13:30", "A", "", "40", "", "140",  
"good" ]
```

VOTable (XML, IVOA standard)

```
<VOTABLE xmlns="http://www.ivoa.net/xml/VOTable/v1.2" version="1.2">
  <RESOURCE name="HONE_IP2_V01">
    <TABLE name="HONE_IP2_V01">
      <DESCRIPTION>
        HELCATS STEREO Manual CME Detection Catalogue (IP2)
      </DESCRIPTION>
      <FIELD name="ID" ID="col1" ucd="meta.record" datatype="char" arraysize="10">
        <DESCRIPTION>The unique identifier for the observed CME</DESCRIPTION>
      </FIELD>
      <FIELD name="Date" ID="col2" ucd="time.crossing" datatype="char" arraysize="17" xtype="iso8601">
        <DESCRIPTION>
          The date and time of the first observation of the CME in HI1 camera
        </DESCRIPTION>
      </FIELD>
      <FIELD name="SC" ID="col3" ucd="instr" datatype="char" arraysize="1">
        <DESCRIPTION>
          The observing STEREO spacecraft, (A=Ahead or B=Behind)
        </DESCRIPTION>
      </FIELD>
      <FIELD name="LIN" ID="col4" ucd="meta.code" datatype="char" arraysize="1">
        <DESCRIPTION>
          Indicator that CME extends beyond the northern edge of the field-of-view
        </DESCRIPTION>
      </FIELD>
      <FIELD name="RA-N" ID="col5" ucd="pos.posAng" datatype="int" width="3" units="deg">
        <DESCRIPTION>The most northern position angle of the CME span</DESCRIPTION>
      </FIELD>
      <FIELD name="LS" ID="col6" ucd="meta.code" datatype="char" arraysize="1">
        <DESCRIPTION>The most northern position angle of the CME span</DESCRIPTION>
      </FIELD>
      <FIELD name="RA-S" ID="col7" ucd="pos.posAng" datatype="int" width="3" units="deg">
        <DESCRIPTION>The most southern position angle of the CME span</DESCRIPTION>
      </FIELD>
      <FIELD name="Quality" ID="col8" ucd="meta.note" datatype="char" arraysize="4">
        <DESCRIPTION>
          A measure of Good, Fair or Poor, that indicates the quality of the CME observation and confidence that the eruption is by definition a CME
        </DESCRIPTION>
      </FIELD>
      <DATA>
        <TABLEDATA>
          <TR>
            <TD>HONE_B_20070415_01</TD>
            <TD>2007-04-15T04:10Z</TD>
            <TD>B</TD>
            <TD/>
            <TD>285</TD>
            <TD/>
            <TD>245</TD>
            <TD>poor</TD>
          </TR>
          <TR>
            <TD>HONE_A_20070417_01</TD>
            <TD>2007-04-17T16:50Z</TD>
            <TD/>
            <TD/>
            <TD/>
            <TD/>
            <TD/>
            <TD/>
          </TR>
        </TABLEDATA>
      </DATA>
    </TABLE>
  </RESOURCE>
</VOTABLE>
```

TOPCAT



TOPCAT

File Views Graphics Joins Windows VO Interop Help

Table List:
1: HCME_WP3_V02

Current Table Properties

Label: HCME_WP3_V02
Location: HCME_WP3_V02
Name:
Rows: 1,210
Columns: 33
Sort Order:
Row Subset: All
Activation Action: (no action) Broadcast Row

SAMP
Messages: Clients:

49 / 248 M

TOPCAT(1): Row Subsets

Window Subsets Display Interop Help

Row Subsets for 1: HCME_WP3_V02

| ID | Name | Size | Fraction |
|----|--------------|------|----------|
| _1 | All | 1210 | 100% |
| _2 | Quality_fair | 670 | 55% |
| _3 | Quality_good | 531 | 44% |
| _4 | Quality_poor | 9 | 1% |

PYTHON Example

Examples provided in the release notes demonstrating accessing catalogues directly from the web site (for example in Python).

```
>>> import urllib2, json
>>> url='http://www.helcats-fp7.eu/catalogues/data/HCME_WP2_V02.json'
>>> stream=urllib2.build_opener().open(urllib2.Request(url))
>>> cat2=json.load(stream)
>>> stream.close()
>>>
>>> cat2['data'][0]
[ "HCME_B__20070415_01", "2007-04-15 04:10", "B", "", "285", "", "245", "poor" ]
```

Additional Q & A and tools will be added as time permits

Tasks

T8.4: To integrate into relevant, established community facilities and websites, including the IRAP propagation tool, the AMDA data-mining tool, HELIO and the UKSSDC.

Status:

- Activity ongoing as stable versions of catalogues are now starting to be released
- See next presentation for status of IRAP tools

Tasks

T8.5: To disseminate information and results to the public and policy makers.

Status:

- Presentations promoting HELCATS are being made at various external meetings (including ESWW, AGU etc)
- Visibility of project made (e.g. in context of ESA SSA)
- Use of social media (twitter, facebook etc)

Deliverables


Work Package 8:

DISSEMINATION

| Deliverable Number | Deliverable Title | Leader | Delivery Month |
|--------------------|---|--------|----------------|
| D8.1 | <u>Publication in the professional scientific literature</u> | STFC | 36 |
| D8.2 | <u>Annual open meetings</u> | STFC | 36 |
| D8.3 | <u>Attendance/presentations at major science meetings</u> | STFC | 36 |
| D8.4 | <u>Posting information on the website</u> | STFC | 36 |
| D8.5 | Integration with community facilities and websites | STFC | 36 |
| D8.6 | <u>Production of press releases, public talks</u> | STFC | 36 |
| D8.7 | Integrate the J-map associated catalogues produced in HELCATS to the propagation tool | UPS | 36 |
| D8.8 | Integrate Carrington Map associated catalogues in the propagation tool | UPS | 36 |

Deliverables

Web site summary document



Heliospheric Cataloguing, Analysis and Techniques Service


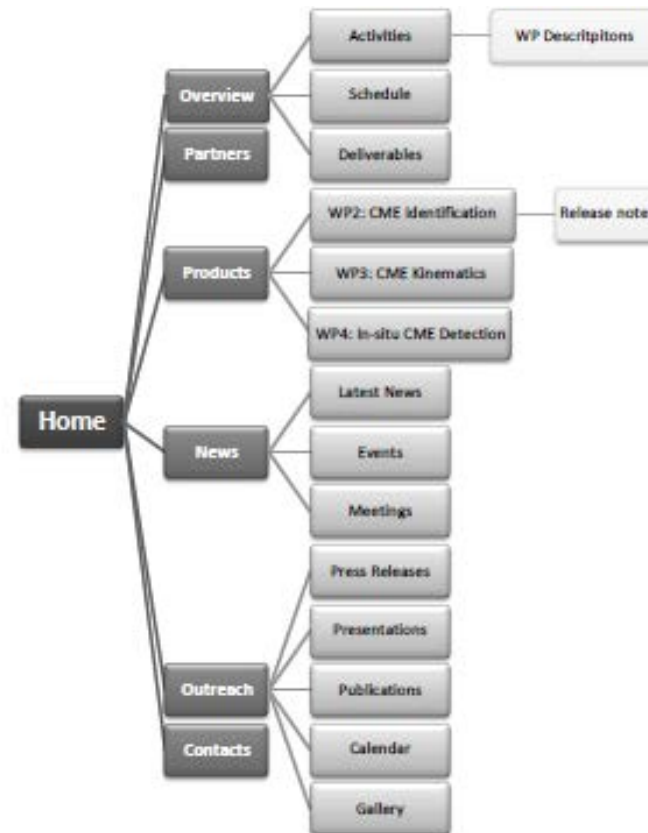
EU Project #: 606692
FP7-SPACE-2013-1

HELcats Website
Issue: 1.1

| | |
|----------------------|-----------------------|
| Title: | HELcats Website |
| Document Number: | HELcats_STFC_D1_1 |
| Project Deliverable: | D1.1 |
| Release/Date: | Issue: 1.1 2015-10-15 |

| | |
|---------------|--------------|
| Editor: | Chris Perry |
| Contributors: | HELcats Team |

| | |
|---------------|---------|
| Reviewed By: | - |
| Distribution: | PROJECT |

Configuration control

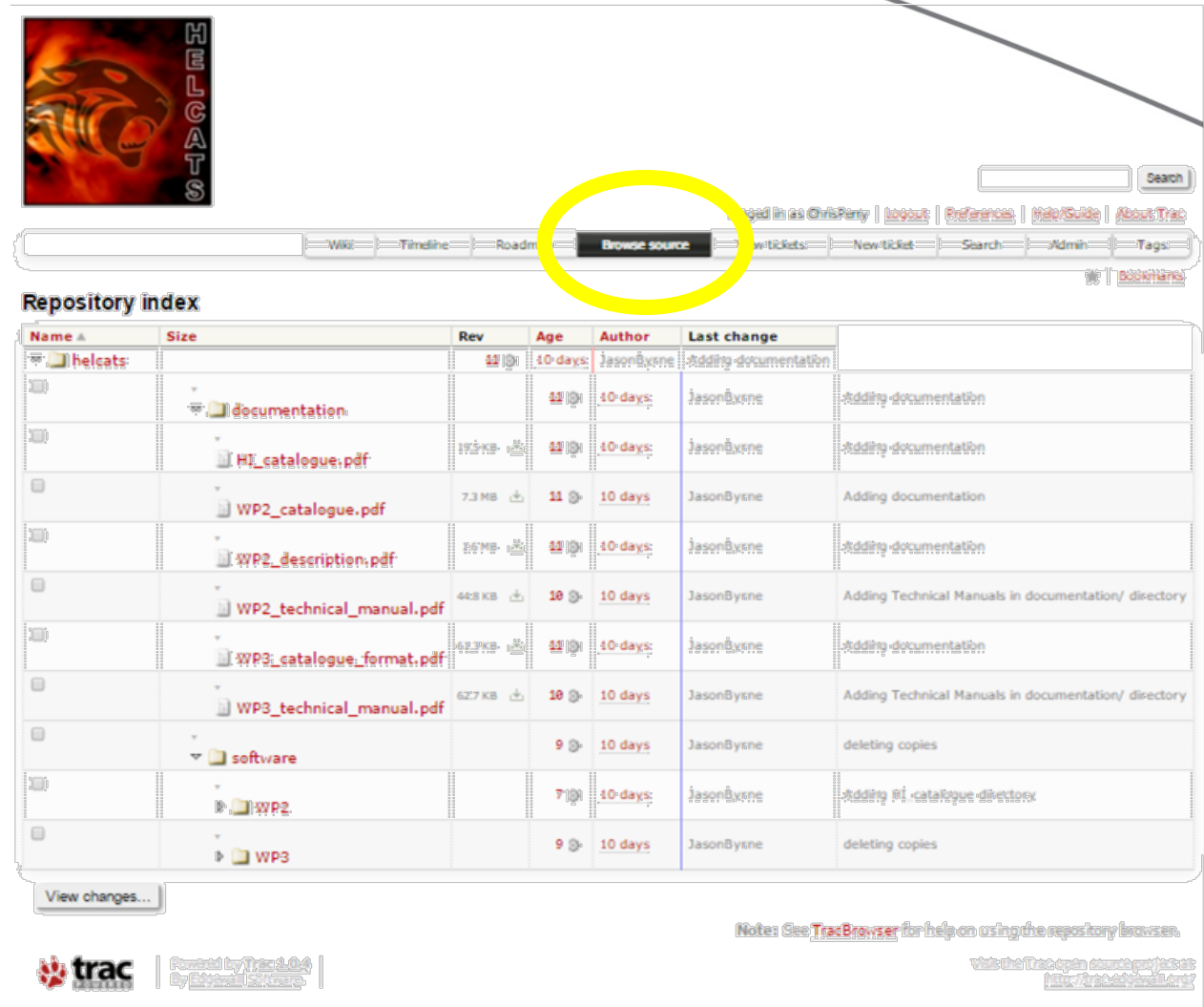
The HELCATS wiki has code/documentation configuration control (via SVN) and ticketing system (via Trac).

- Teams are encouraged to put their codes and internal documentation onto the wiki
 - Good practice for keeping a record of what has been done
 - Encourages re-use of software modules
 - Provides a consistent way to handle issues, updates and testing.
- Jason has set-up and populated the software tree for the WP2 and WP3 catalogue activities undertaken at RAL
- If you need any support uploading your code or documents please contact Jason, Matthew or Chris.

- Login to wiki to get access to the configuration control system

The screenshot shows the Trac wiki interface for HELCATS. At the top left is the HELCATS logo. A search bar is located at the top right. The navigation bar includes links for 'Wiki', 'Timeline', 'Roadmap', 'Browse source' (highlighted with a yellow circle), 'View tickets', 'New ticket', 'Search', and 'Admin'. Below the navigation bar, there are links for 'PrivateProjectPages', 'Start page', 'Index', 'History', and 'Bookmarks'. The main content area is titled 'HELCATS Project Pages' and contains a bulleted list of links: 'Project Meetings', 'Documentation', 'Press Releases', 'HELCATS-GENERAL Newsletters', 'Steering Committee Minutes & Quarterly Reports', 'Annual Reports', and 'Work Packages'. At the bottom of the page, there are buttons for 'Edit this page', 'Attach file', 'Rename page', 'Delete this version', and 'Delete page'. A note indicates the page was 'last modified 5 months ago'.

- Access via the browse source option on the wiki pages



The screenshot shows a Trac repository interface. At the top left is a logo for 'HEL CATS' featuring a stylized orange and red cat face. The main navigation bar includes links for 'Wiki', 'Timeline', 'Roadmap', 'Browse source' (highlighted with a yellow circle), 'New tickets', 'New ticket', 'Search', 'Admin', and 'Tags'. Below the navigation bar is a 'Repository index' table with columns for Name, Size, Rev, Age, Author, and Last change. The table lists various files and directories under the 'helcats' repository, including 'documentation', 'WP1_catalogue.pdf', 'WP2_catalogue.pdf', 'WP2_description.pdf', 'WP2_technical_manual.pdf', 'WP3_catalogue_format.pdf', 'WP3_technical_manual.pdf', 'software', 'WP2', and 'WP3'. At the bottom of the page, there is a 'View changes...' button and a note: 'Note: See [TracBrowser](#) for help on using the repository browser. Visit the Trac open source projects at [http://trac.edina.ac.uk](#)'.

| Name | Size | Rev | Age | Author | Last change |
|--------------------------|---------|-----|---------|------------|--|
| helcats | | 11 | 10 days | JasonByrne | Adding documentation |
| documentation | | 11 | 10 days | JasonByrne | Adding documentation |
| WP1_catalogue.pdf | 19.5 KB | 11 | 10 days | JasonByrne | Adding documentation |
| WP2_catalogue.pdf | 7.3 MB | 11 | 10 days | JasonByrne | Adding documentation |
| WP2_description.pdf | 267 MB | 11 | 10 days | JasonByrne | Adding documentation |
| WP2_technical_manual.pdf | 448 KB | 10 | 10 days | JasonByrne | Adding Technical Manuals in documentation/ directory |
| WP3_catalogue_format.pdf | 62.3 KB | 11 | 10 days | JasonByrne | Adding documentation |
| WP3_technical_manual.pdf | 627 KB | 10 | 10 days | JasonByrne | Adding Technical Manuals in documentation/ directory |
| software | | 9 | 10 days | JasonByrne | deleting copies |
| WP2 | | 7 | 10 days | JasonByrne | Adding WP1_catalogue directory |
| WP3 | | 9 | 10 days | JasonByrne | deleting copies |

- Currently includes the codes used by STFC in selection, creation and fitting HI related CMEs
- Areas for documentation and for software
- Some tidying up required but already a useful resource

| | | | | | | |
|--|-----------------------------|-----------|---|---------|------------|--------------------------------------|
| | ▶ HI_catalogue | | 7 | 10 days | JasonByrne | Adding HI_catalogue directory |
| | ▶ add_cor_occ.pro | 1.6 KB | 6 | 10 days | JasonByrne | initial commits of WP2 and WP3 codes |
| | ▶ add_secchi_grid.pro | 4.7 KB | 6 | 10 days | JasonByrne | initial commits of WP2 and WP3 codes |
| | ▶ combine_wp2_lists.pro | 4.7 KB | 6 | 10 days | JasonByrne | initial commits of WP2 and WP3 codes |
| | ▶ convert.pro~ | 3.8 KB | 6 | 10 days | JasonByrne | initial commits of WP2 and WP3 codes |
| | ▶ create_wp2_catalogue.pro | 1.6 KB | 6 | 10 days | JasonByrne | initial commits of WP2 and WP3 codes |
| | ▶ diff_secchi_data.pro | 3.0 KB | 6 | 10 days | JasonByrne | initial commits of WP2 and WP3 codes |
| | ▶ display_secchi_frame.pro | 0 bytes | 6 | 10 days | JasonByrne | initial commits of WP2 and WP3 codes |
| | ▶ do_prep.pro | 0 bytes | 6 | 10 days | JasonByrne | initial commits of WP2 and WP3 codes |
| | ▶ eh_tilt.pro | 0 bytes | 6 | 10 days | JasonByrne | initial commits of WP2 and WP3 codes |
| | ▶ final2.pro | 12.8 KB | 6 | 10 days | JasonByrne | initial commits of WP2 and WP3 codes |
| | ▶ final2.pro~ | 12.7 KB | 6 | 10 days | JasonByrne | initial commits of WP2 and WP3 codes |
| | ▶ frame_find.pro | 493 bytes | 6 | 10 days | JasonByrne | initial commits of WP2 and WP3 codes |
| | ▶ get_secchi_coords.pro | 0 bytes | 6 | 10 days | JasonByrne | initial commits of WP2 and WP3 codes |
| | ▶ handle_draw_event.pro | 2.1 KB | 6 | 10 days | JasonByrne | initial commits of WP2 and WP3 codes |
| | ▶ idl_setup.bash | 54 bytes | 6 | 10 days | JasonByrne | initial commits of WP2 and WP3 codes |
| | ▶ init_routines.pro | 5.3 KB | 6 | 10 days | JasonByrne | initial commits of WP2 and WP3 codes |
| | ▶ jmap_widget_pa_final.pro | 16.0 KB | 6 | 10 days | JasonByrne | initial commits of WP2 and WP3 codes |
| | ▶ jmap_widget_pa_final.pro~ | 15.9 KB | 6 | 10 days | JasonByrne | initial commits of WP2 and WP3 codes |
| | ▶ | 0 bytes | 6 | 10 days | JasonByrne | initial commits of WP2 and WP3 codes |

- Trac ticket system
- Can be used to keep track of action items and change requests

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| | | |
|--|----------------------|------------------------|
| {1} Active Tickets | Edit | Delete |
| {2} Active Tickets by Version | Edit | Delete |
| {3} Active Tickets by Milestone | Edit | Delete |
| {4} Accepted, Active Tickets by Owner | Edit | Delete |
| {5} Accepted, Active Tickets by Owner (Full Description) | Edit | Delete |
| {6} All Tickets By Milestone (Including closed) | Edit | Delete |
| {7} My Tickets | Edit | Delete |
| {8} Active Tickets, Mine first | Edit | Delete |

Note: See [TracReports](#) for help on using and creating reports.

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Future Work

- Focus on getting catalogues and documentation onto main HELCATS web site
 - Update of WP2 & WP3 catalogues for 2014 data (V03)
 - HI images, J-maps and time elongation for each events
 - Finalise current delivery of WP3 (COR2/GCS) KINCAT
 - Updated WP4 catalogue -> HELCATS web site
 - WP5 CIR catalogue -> HELCATS web site
 - WP2 (automated catalogue) -> HELCATS web site