

FP7 HELCATS

Heliospheric Cataloguing, Analysis and Techniques Service

Kick-off Meeting: Overview & WP1 Richard Harrison



Overview

- Congratulations we did it!
- What have we signed up to?
- What next?

Thanks, Jackie!



FP7 HELCATS
Heliospheric Cataloguing, Analysis and Techniques Service



Overview

"... a strategic programme that aims to empower the wider scientific community, in Europe and beyond, by providing access to advanced catalogues - validated and augmented through the use of techniques and models - for the analysis of solar wind transients, based on observations from European-led space instrumentation."

Coordinating studies of the transients in the heliosphere as never before!

FP7 HELCATS
Heliospheric Cataloguing, Analysis and Techniques Service



Aims of HELCATS

- Catalogue transient (CMEs) and background (SIRs/CIRs) features imaged by STEREO/HI, including
- Kinematic properties estimated using a variety of established & prototype modelling approached
 - geometrical modelling
 - forward and inverse modelling
 - automatic detection
- Verify these kinematic properties through comparison with solar source observations and in-situ
- Assess the potential for initialising MHD models with both the transient & background solar wind structures observed by HI
- Assess the complementarity of using radio obs (in particular Type II radio bursts and IPS) in combination with HI.



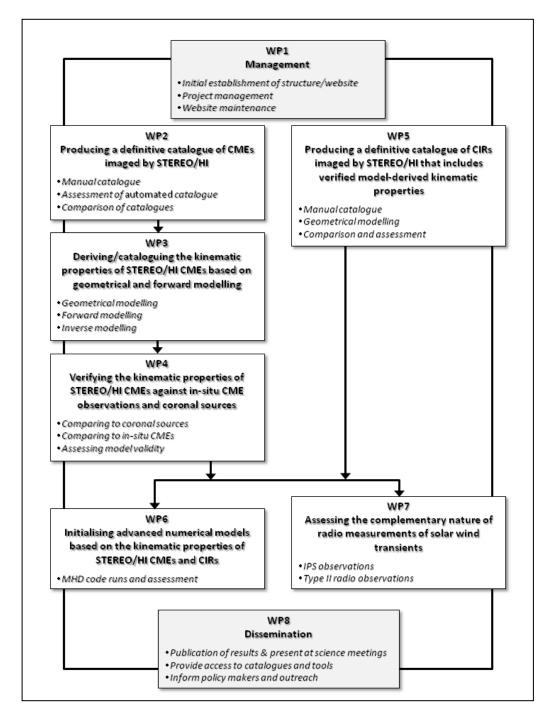
The Team

- STFC-RAL Space, UK
- University of Graz, Austria
- University Paul Sabatier/CNRS, France
- University of Göttingen, Germany
- Royal Observatory Belgium, Belgium
- Imperial College London, UK
- University of Helsinki, Finland
- Trinity College Dublin, Ireland
- George Mason University, USA

- R. Harrison/J.A. Davies
- C. Möstl
- A.P. Rouillard
- V. Bothmer
- L. Rodriguez
- J.P. Eastwood
- E.K.J. Kilpua
- P. Gallagher
- D. Odstrčil



The WP Structure





WP Structure

Work package No.	Work package title	Type of activity	Lead beneficiary No.	Lead beneficiary short name	Person months	Start month	End month	
WP1	Management	MGT	1	STFC	8.5	1	36	1
WP2	Producing a definitive catalogue of CMEs imaged by STEREO/HI	RTD	1	STFC	51.5	1	36	
WP3	Deriving/cataloguing the kinematic properties of STEREO/HI CMEs based on geometrical and forward modelling	RTD	4	UGOE	51	7	36	
WP4	Verifying the kinematic properties of STEREO/HI CMEs against in-situ CME observations and coronal sources	RTD	2	UNIGRAZ	68	10	36	
WP5	Producing a definitive catalogue of CIRs imaged by STEREO/HI that includes verified model-derived kinematic properties	RTD	3	UPS	42	1	36	
WP6	Initialising advanced numerical models based on the kinematic properties of STEREO/HI CMEs and CIRs	RTD	3	UPS	27	7	36	
WP7	Assessing the complementary nature of radio measurements of solar wind transients	RTD	6	IMPERIAL	39.5	10	36	
WP8	Dissemination	OTHER	1	STFC	21.5	1	36	١
		TOTAL 308						١

Starts now



Management

SEVENTH FRAMEWORK **PROGRAMME Project Coordinator Executive Board** [Project Coordinator, Scientific & Technical Manager] Steering Committee [Institute Leaders] WP5 WP7 WP1 WP3 WP6 WP2 WP4 WP8

EU Project Officer – Sabri Mekaoui

Includes all institute leads and WP leads



Meetings/Reviews

Month	Meeting/Review	Comments		
1 (May 14)	Kick-off meeting	2-day meeting; all institutes		
1+ Monthly telecons		EB & SC		
6 (Oct 14) Bi-annual project meeting/workshop		2-day meeting – EB & SC		
6	Intermediate technical review	Assoc. with above; attended by PO		
12 (May 15)	Bi-annual project meeting/workshop	2-day meeting – EB & SC		
12	Intermediate technical review	Assoc. with above; attended by PO		
12	Annual Open Workshop	2-day meeting open to community		
18 (Oct 15)	Bi-annual project meeting/workshop	2-day meeting – EB & SC		
18	Intermediate technical review	Assoc. with above; attended by PO		
18	Finance report & technical report	Formal reports to REA		

EB = *Exec Board; SC* = *Steering Committee; PO* = *Project Officer*

Action: We need to fix dates/locations/arrangements for first 6 months



Deliverables

First six months and on-going deliverables (WP 1, 2, 5 and 8)

No.	Deliverable	WP	Lead	Delivery date	
D1.2	Minutes of kick-off meeting		RAL	Month 2: June 2014	
D1.1	Website launch		RAL	Month 3; July 2014	
D1.3	Progress report to Commission		RAL	Month 7: Nov 2014	
D2.1	Catalogue: HI CMEs (manual)		RAL	Month 36 – on-going	
D2.5	Scientific management of project		RAL	Month 36 – on-going	
D5.1	Catalogue: Online CIR	5	UPS	Month 12 – on-going	
D8.*	* Dissemination (on-going) actions, including: posting on website, publications, science meetings, press releases		RAL	Month 36 – on-going	



Headline Actions

i.e. items to sort now...

- Make arrangements for the meetings/reports/telecons for the first six months
- WP leads to review and oversee the deliverables in their areas
- Embark on the listed actions for the WPs starting in month 1
- General discussion (tomorrow) on key issues to be addressed at the start

