

Previous Presentations

CME velocities

- advanced GCS fitting (adding LASCO C3 images)
- timeseries fitting to derive the apex velocity
 defining standards for the initial velocities
- non-linear ht-fits

CME masses

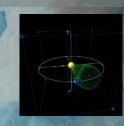
- creation of mass images
- mass detection with GCS
- mass-height function

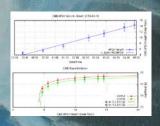
Catalogue

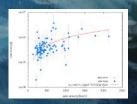
- Kincat 2007-2011 (109 events)

Results

- statitical analyses and intercomparison to HI results









The KiNCAT Catalogue - Recommendation

HELCAIS project meeting, 7 June 2016, Albena

Extention of the catalogue(2007-2011)

KINCAT - Catalogue

KINCAT - small

Your search returned 122 results.

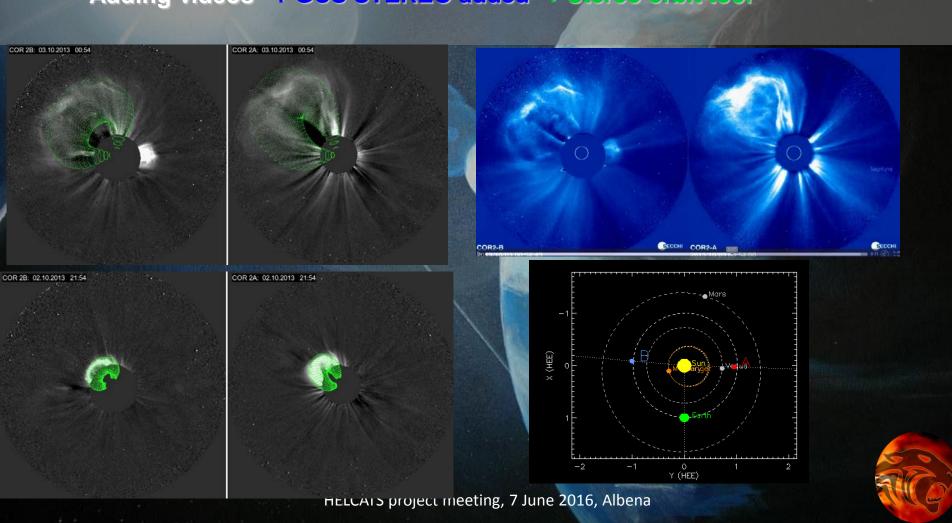
HEL no CME no Preevent date Preevent time Last COR2 date Last COR2 time GCS carlon GCS stony lon GCS stony lat GCS tilt GCS Asp. Ratio GCS h_angle

HEL no	CME no	Preevent date	Preevent time	Last COR dat		GCS carlon	GCS stony Ion	GCS stony lat	GCS tilt	GCS Asp. Ratio	GCS h_angle
[-]	[-]	[yyyymmdd]	[hh:mm:ss]	[yyyymmde	d] [hh:mm:ss]	[deg]	[lon]	[deg]	[deg]	[-]	[deg]
110	1069	9 2012-03	-08 16	:17:00	2012-03-08	20:39:00	191		-113	9	-53.
111	1070	2012-07	-12 15	:37:00	2012-07-12	18:39:00	88		8	-12	90
112	1071	1 2012-07	-17 12	:03:00	2012-07-17	16:55:00	78		63	-28	34,6
113	1072	2012-10	-05 02	:45:00	2012-10-05	07:24:00	55		11	-19	54
114	1073	3 2012-11	-09 18	:02:00	2012-11-09	17:49:00	289		-6	-13	22
115	1074	2012-11	-11 02	:11:00	2012-11-11	05:45:00	334		58	-41	41
116	1075	2012-11	-20 12	:36:00	2012-11-20	13:51:00	170		17	19	-65
117	1076	2013-05	-17 08	:43:00	2013-05-17	10:39:00	298		-29	12	-52
118	1077	7 2013-06	-20 11	:34:00	2013-06-20	15:39:00	186		-52	-34	-41
119	1078	3 2013-07	-18 19	:57:00	2013-07-18	23:45:00	121		-99	10	90
120	1079	2013-09	-29 22	:40:00	2013-09-29	23:24:00	9		33	43	-67
121	1080	2013-10	-02 19	:54:00	2013-10-03	00:54:00	21		85	35	-90
122	1081	1 2013-10	-25 14	:51:00	2013-10-25	17:20:00	281		-74	13	68
											~

+ earth-directed events (2012-2013)

The KiNCAT Catalogue - Recommendation

Adding videos + GCS STEREO added + Stereo orbit tool

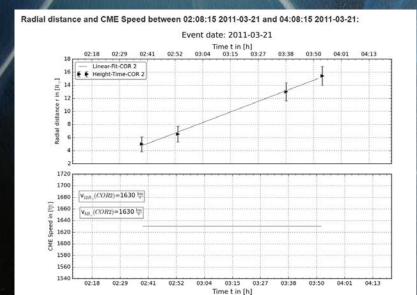


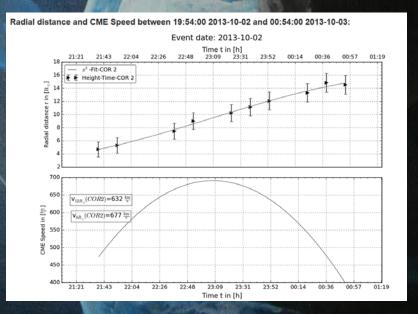
The KiNCAT Catalogue - Recommendation

Adding ht-plots + Voilà

linear ht-plots

non linear ht-plots







Additional Outcome Helcats paper – 3D GCS arrival time analyses (in progress)

Topics:

Best-Pratice GCS Fitting strategies

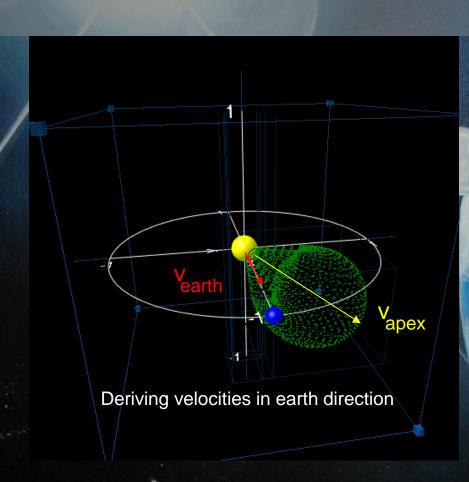
Deriving earth directed velocities

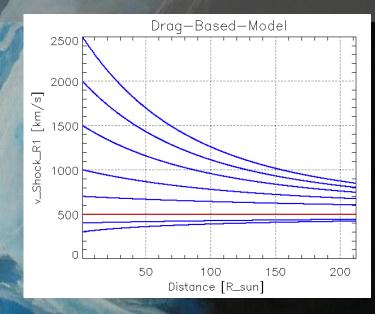
Connecting GCS – DBM parameters



Additional Outcome

Further developing of the DoomDayCalculator (DDC) + Poster





$$\frac{\mathrm{d}^2 r}{\mathrm{d}t^2} = -\gamma(r) \left(\frac{\mathrm{d}r}{\mathrm{d}t} - w(r) \right) \left| \frac{\mathrm{d}r}{\mathrm{d}t} - w(r) \right|$$

DBM developed by Vršnak (2001)



