R_SMALL_HRES_LCAD_Fine-Scale-Structure

Proposed SOOP Coordinators

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Description

High resolution observations of ARs or other solar features to discover the finest scales. SOOP with low cadence observations as we do not aim at analysing dynamics here. Perihelion preferred.

Pointing requirements: may be run at disk centre or offpointed (without metis)

Default SOOP duration: 12 hours (TBC)

Triggers: disabled

Instrument	Mode	Comment
EUI	HRI in highest resolution, e.g. in EUV & LYA Quiet Sun modes (Q) or EUV & LYA Active Region modes (A) - LOW CADENCE: 10mins	best at perihelion. Model AR mode, 10 mins cadence
PHI	HRT in highest resolution, e.g PHI_vector_HRT1 with cadence 10mins (or PHI_nominal_FDT/HRT_0 with much lower cadence)-> best mode TBD by PHI team	PHI need depending on science goal
SPICE	one of the high res modes, depends on science goal. Model as SPICE Dynamics (highest resolution mode).	*may be needed for waves and/or temperature structure discrimination, depending on science goal*
Metis	in one of METIS standard modes, e.g. MAGTOP with 10mins cadence (=default)	*may be part of this SOOP for off-limb observations (close to perihelion only) like plumes*

SAP objective	Target	Duration	Opportunity (*e.g.*, orbital requirements, solar cycle phase, quadrature ...)	Operational constraints	Additional comments
1.2.1.6 Resolve the geometry of fine elemental loop strands					