

Heliophysics Knowledge Base  
Parameters for AR obtained with SPoCA algorithm  
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Keyword already in the HEK:

feature name	type	description
Event_Type		AR
KB_ArchivDate		leave blank
KB_ArchivID		"
KB_Archivist		"
KB_ArchivURL		"
FRM_Name	string	SPoCA
FRM_URL	string	<a href="http://sdoatsidc.oma.be/web/sidcsdossoftware/SpocA/">http://sdoatsidc.oma.be/web/sidcsdossoftware/SpocA/</a>
FRM_ParamSet	string	list of parameters (nb_class=3, ...)
FRM_VersionNumber	float	Version number of automated FRM
OBS_Observatory	string	SOHO
OBS_ChannelID	string	195,171'
OBS_Instrument	string	EIT
OBS_MeanWavel	float	195,171'
OBS_WavelUnit	string	Angstroems
Event_CoordSys	string	Helioprojective Cartesian (HPC)'
Event_CoordUnit	string	deg,deg'
Event_EndTime	string	YYYY-MM-DDTHH:MM:SS
Event_StartTime	string	YYYY-MM-DDTHH:MM:SS
Event_Coord1	float	Coordinate 1 of mean location of event
Event_Coord2	float	Coordinate 2 of mean location of event
Event_C1Error	float	Uncertainty in Coord1 of the mean location of the event.
Event_C2Error	float	Uncertainty in Coord2 of the mean location of the event
BoundingBox_C1LL	float	Coord1 of lower-left corner of bounding box

BoundingBox_C2LL	float	Coord2 of lower-left corner of bounding box
BoundingBox_C1UR	float	Coord1 of upper-right corner of bounding box
BoundingBox_C2UR	float	Coord2 of upper-right corner of bounding box
Event_Npixels	long	nb of pixel within AR
Event_PixelUnit	string	DN/S'
Area_AtDiskCenter	float	Area of event at disk center
Area_AtDiskCenterUncert	float	Uncertainty of area at disk center
Area_Raw	float	Area of event in sky palance
Area_Uncert	float	Uncertainty of area in sky plane
Area_Unit	string	Mm <sup>2</sup>
AR_NOAANum	long	NOAA designated Active Region Number

New keywords requested to be added to the HEK

AR_ID	float or string	unique ID of an AR obtained by tracking
AR_MinIntensity	float	min intensity of AR pixels
AR_MaxIntensity	float	max intensity of AR pixels
AR_MeanIntensity	float	mean intensity of AR pixels
AR_VarIntensity	float	variance of intensity of AR pixels;
AR_SkewIntensity	float	skewness of intensity of AR pixels
AR_KurtIntensity	float	kurtosis of intensity of AR pixels
AR_TotalIntensity	float	sum of intensities of AR pixels
AR_Intensity_Unit	string	DN/s'