

## **Change Detection STAC Metadata**

A complete description of Capella's STAC metadata is in the <u>SAR Imagery Products Format Specification</u>. The following table presents a subset of fields specific to the ACD STAC metadata.

Element Name	Description	Data Type	Unit
			-
collection	The id of the STAC Collection this ltem references to. ACD products are referenced to the "capella-acd" collection.	String	-
geometry	Contains two polygons that denote the footprints of the two source scenes.	Number	
bbox	Bounding box encapsulating the common area described by the polygon contained in the "geometry" key.	Number	
properties	A dictionary of additional metadata for the item.		
instruments	The name of the SAR instrument		
0	The name of the SAR instrument that acquired the first collect in the ACD pair	String	
1	The name of the SAR instrument that acquired the second collect in the ACD pair	String	
datetime	Date and time of the second acquisition of the ACD pair	String	
start_datetime	Date and time of the first acquisition of the ACD pair	String	
end_datetime	Date and time of the second acquisition of the ACD pair	String	
sar: product_type	"ACD" is the	String	
processing:software	Describes the Capella ACD processing software version number, e.g. "0.2.2"	number	
capella:collect_id	the Collect ID of the second image of the ACD pair	String	
capella:look_angles	Instrument mode. E.g., "stripmap", "spotlight", "sliding_spotlight"		
0	The look angle of the first image of the ACD pair	Number	[degree]
1	The look angle of the second image of the ACD pair	Number	[degree]
capella:look_angle_delta	The difference in look angle between the ACD pair	Number	
capella:orbital_plane	The orbital plane of the instruments that acquired the ACD pair E.g. "97", "45", "53"	Number	
sar:observation_direction	The observation direction of the instruments that acquired the ACD pair. E.g., "left", "right"	String	



assets		Dictionary of asset objects that can	String
433013		be downloaded, each with a unique	Striig
		key. These are further defined and	
		described in the article "ACD File	
		Descriptions".	
	changemap	The primary ACD file for use. Raster	GeoTIFF
		with values with the range [-1,1]	
	preview	The preview image used on Console	GeoTIFF
		and colorized according to the "Red is	
		Fled, Blue is New" pneumonic	
	thumbnail	Thumbnail image used on Console for	
		ACD	
	log	Log file for Capella Space internal use	
links			
	0	Link to the STAC ID of the first image	
		that the ACD pair was derived from	
	1	Link to the STAC ID of the second	
		image that the ACD pair was derived	
		from	