

Results of Template Matching

9th April 2024

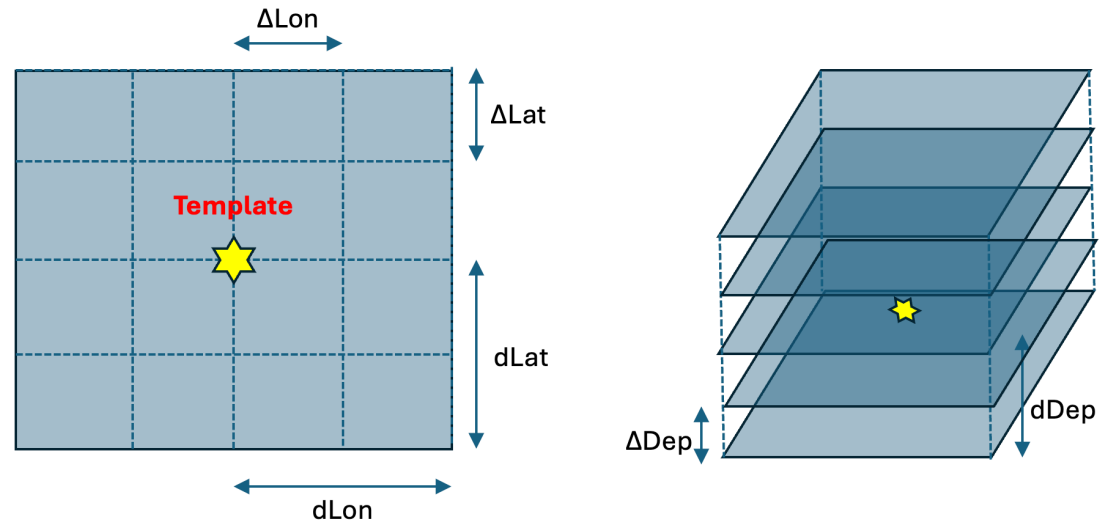
Catalogs

Templates: 22 from double difference catalog.

	dlat[m]	dlon[m]	dDepth[m]	Δ Lat[m]	Δ Lon[m]	Δ Depth[m]	Win[s]	<i>MAD</i>	<i>CC</i>	Total	Detections $MAD \geq 9.0$	Detections $MAD \geq 9.5^*$
Catalog - 01	333.3	333.3	100	166.7	166.7	50	2	9.57	0.29	105	85	18
Catalog - 02	555.5	555.5	100	277.775	277.775	50	2	9.49	0.28	129	109	20
Catalog - 03**	0	0	0	0	0	0	2	10.92	0.34	30	10	8
Catalog - 04	444.4	444.4	100	222.2	222.2	50	2	9.54	0.29	115	95	22
Catalog - 05	444.4	444.4	100	222.2	222.2	50	3	9.55	0.24	177	157	31

* Excluding templates

** Template Matching - 'classic'



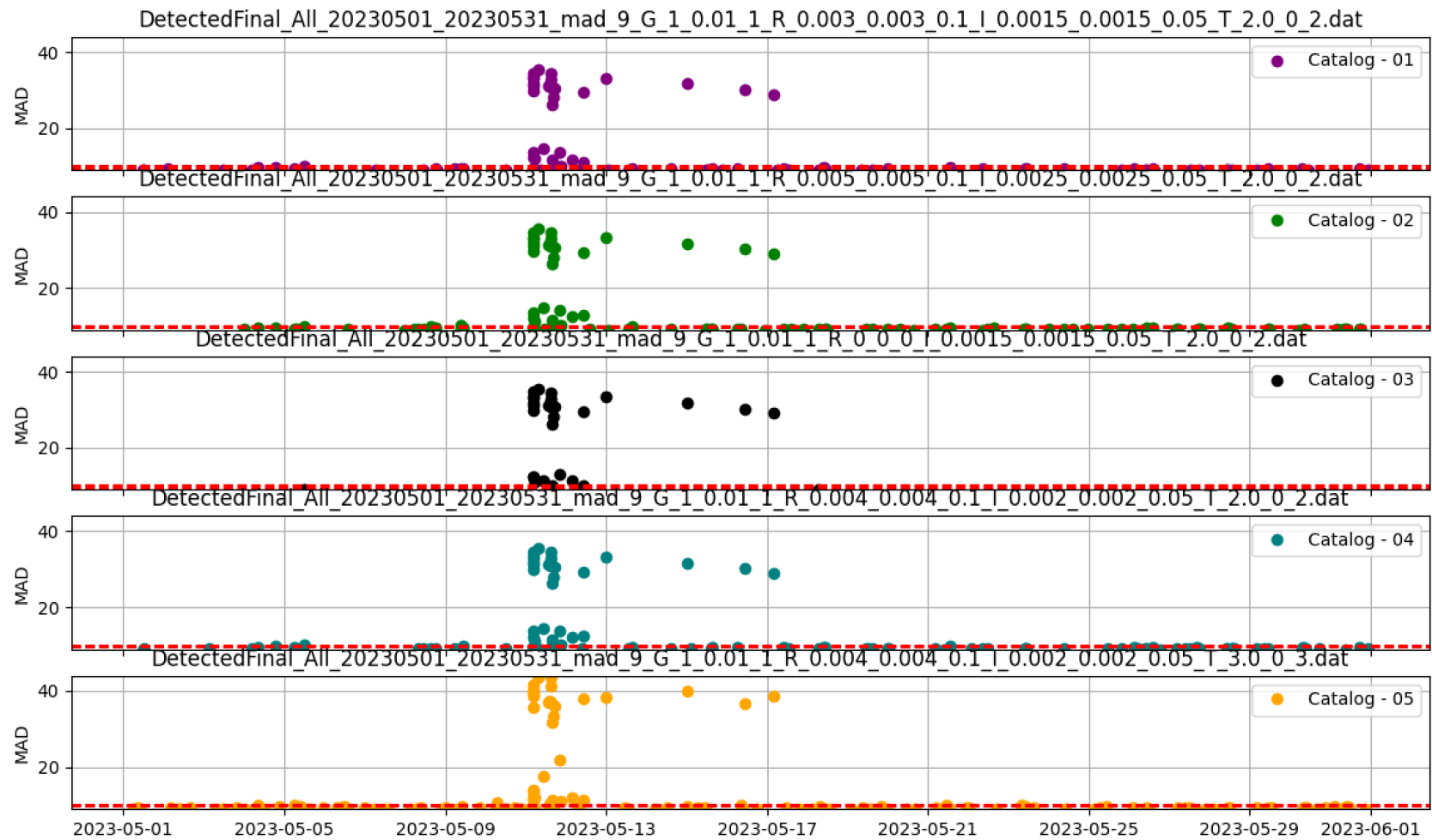


Figure 1. Analysis if the detections for different parameter configuration (see table). Dotted lines show MAD=9.5 and MAD=10. See next figure for close up.

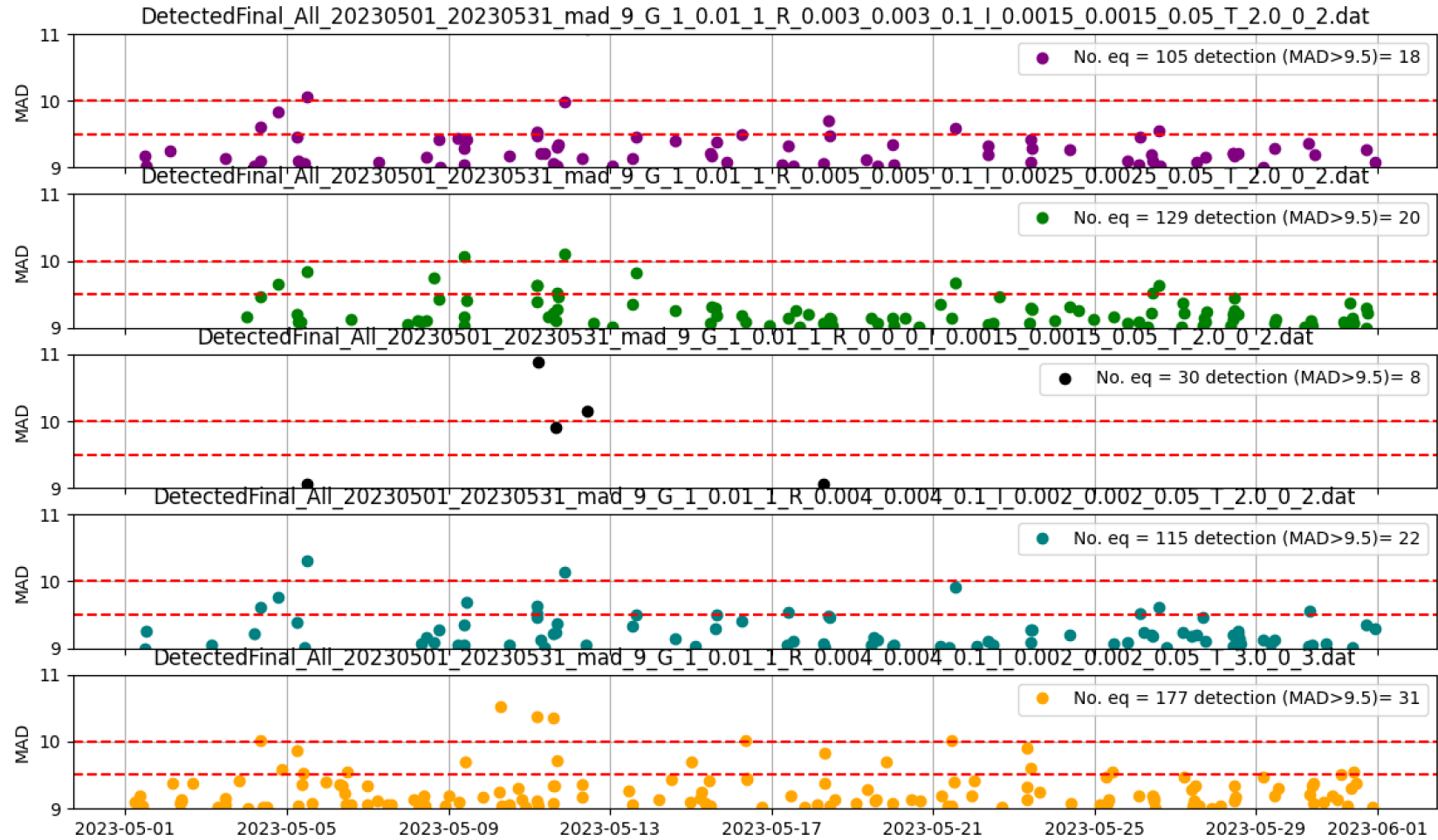


Figure 2. Detections between $9.0 \leq \text{MAD} \leq 11$. Dotted lines shows the threshold limits for $\text{MAD}=9.5$ and $\text{MAD}=10$.

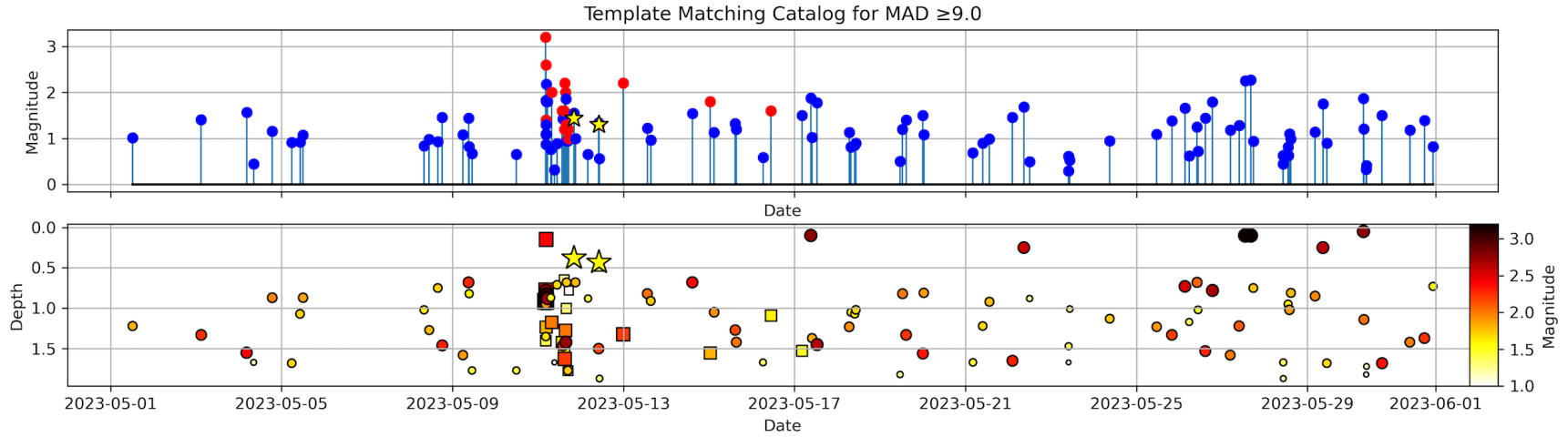


Figure 3. Detections versus time. (Top) Red dots indicate templates, blue dots detections. (Bottom) Squares templates, circles detections. For MAD values larger than 9.0.

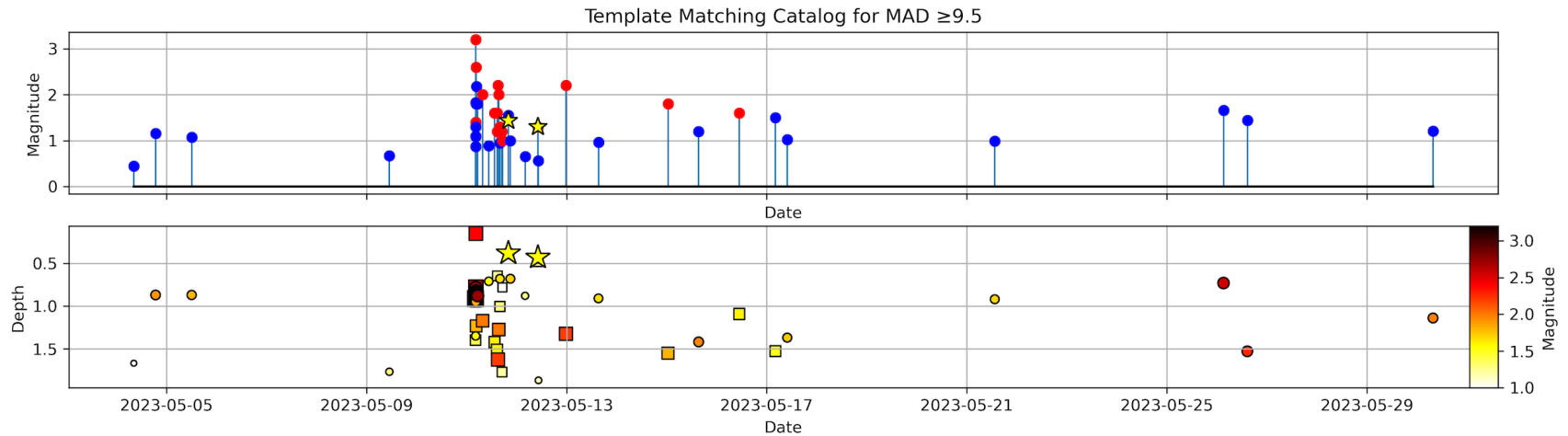


Figure 4. Detections versus time. (Top) Red dots indicate templates, blue dots detections. (Bottom) Squares templates, circles detections. For MAD values larger than 9.5.