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www.occultations.ch

## Gaia Occultations on the Ecliptic (GOcEcl)

Instruction for use:

- Install the software Occult4 by visiting the following link:  
<http://www.lunar-occultations.com/iota/occult4.htm>
- Install all updates as well as the most important catalogues (allows to make a coffee break ☺)
- Start Occult4 => Main Menu: Click "Asteroid predictions",  
Click "List & Display occultations"
- File... > Open : Load the latest xml-File
- Adjust filter settings according your requirements
- Click the button "List events"

Now you should see the following screen information:

The screenshot shows the 'List & Display' window of the Occult4 software. The window title is 'List & Display C:\Users\Stefan\Documents\Occult 4\Predictions\OcElmnt20201011\_SthDECH\_Oct11to17\_pm.xml'. The interface includes a menu bar (File, Sort events, Generate predictions for all listed events, Selection filters, Help, Exit) and several filter panels. The 'Selection filters' panel is active, showing options for 'Visible from' (E. Long: 8.57065, Latitude: 47.5195), 'Distance of site from path' (150 km), 'Distance of asteroid from star' (0.30"), 'Local altitude' (5°), 'Magnitude drop' (0.2), 'Star mag' (12), 'Maximum dum' (1.0), 'Diameter' (25), and 'Solar elongation' (20). There are also options for 'Path crosses' (NW/SW, NE/SE), 'Major planets' (Jupiter), 'Asteroid number', 'Name contains', 'Taxonomic class', and 'Date is between' (2020-10-10 to 2020-10-14). The main display area shows an 'Event Summary for Longitude 8.57065°, Latitude 47.51956° - sorted by Date' with a table of occultation events.

Date	U.T.	Diameter	Durn	Star	Mag-Drop	Elon	%	Star	d	Planet	Alt	Dist	Sun	Proba-	Moon	\$	R.A. (J2000)	Dec.
y m d	h m	km "	sec/m	mag	V R	o Ill		No.		No Name	o	km	Alt bility	Elon ill	o	h m s	o ' "	
2020	Oct 12	19 40.9	21 0.014	1.3s 14.4	1.5 1.5	94		G194317.6-222711	2407	Haug	19	77	12%	150	22		19 43 17.626	-22 27 10.88
2020	Oct 12	21 30.9	7 0.005	0.6s 15.9	2.2 2.2	156		G235345.2-055957	14498	Bernini	36	25	6%	150	21		23 53 45.180	- 5 59 57.08
2020	Oct 13	22 40.9	16 0.008	1.0s 15.6	2.4 2.3	167		G002715.3+032030	4419	Allancook	46	69	7%	153	12		0 27 15.337	3 20 29.90
2020	Oct 14	18 47.3	8 0.003	0.5s 16.1	4.4 4.6	85		G191222.4-225536	45171	1999 XB134	16	26	3%	114	6		19 12 22.409	-22 55 36.90
2020	Oct 14	19 14.2	15 0.007	0.5s 15.2	3.6 3.7	70		G180832.8-222322	9293	Kamogata	8	126	6%	99	6		18 8 32.805	-22 23 22.18
2020	Oct 15	18 35.6	13 0.006	0.6s 15.1	3.5 4.0	77		G184103.3-222410	5658	Clausbader	15	146	4%	91	2	\$	18 41 3.273	-22 24 9.83
2020	Oct 15	18 47.9	15 0.007	0.8s 16.0	1.5 1.6	86		G192224.6-231955	1913	Sekanina	16	35	10%	101	2		19 22 24.596	-23 19 55.06
2020	Oct 15	21 26.6	15 0.008	2.2s 15.9	2.3 2.4	112		G211140.1-172903	3274	Maillet	17	108	4%	125	2	\$	21 11 40.124	-17 29 3.41
2020	Oct 16	23 2.3	18 0.015	1.9s 15.0	1.2 1.3	166		G004031.3+011947	4153	Salanave	44	122	3%	164	0		0 40 31.315	1 19 47.16

The program offers many options. For example:

- Marking a certain row/event shows the corresponding map
- The window of the map allows to generate a finding chart using C2A
- ...
- ...

Try it out!