

NEOfixer

Update

IAWN Steering Committee
at UNCOPUOS STSC 2025

Alex R. Gibbs, Carson Fuls

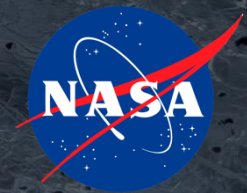
Catalina Sky Survey

Lunar & Planetary Laboratory

University of Arizona



LPL





Targets Activity Status FAQ API Contact

Targets (152)

Filters & Units: Showing 1-100 of 1,355 (click to open) ▾

Column visibility (click to open) ▾ Export ▾

100 ▾ entries per page

Object	Priority	Score	Mag. (V)	Uncert. (°)	Rate ("/min)	Last Obs.
2017 TU1	critical	9.58	20.4	0.6580	35.3	6.8y
A118vjk	critical	9.33	19.3	0.4650	5.1	4.6d
P21wRIq	very high	8.93	21.8	1.0022	0.5	3.1h
P21wPyP	very high	8.47	21.2	0.3084	5.1	6.7h
P21wR4h	very high	8.41	21.5	0.2409	0.5	6.7h
P21wRd2	high	7.88	20.9	0.1027	0.3	4.1h
2021 RU23	high	7.68	21.0	1.3816	4.4	2.9y
2024 OC2	high	7.66	21.9	0.0354	2.0	5.5d
2008 QZ	high	7.58	21.0	0.8002	2.0	16y

Make follow-up more efficient and beneficial, but also easier

PRIORITIZE OBJECTS

NEOs scored by many factors

CUSTOMIZE TARGET LISTS

Per telescope

COORDINATION

Easy sharing of telescope activity

AUTOMATION

API

EFFICIENT PURPOSE



Targets (500)

Filters & Units: Showing 1-100 of 105 filtered from 38,340

(click to open) ▾

Telescope:

500

Column visibility (click to open) ▾

Export ▾

100 ▾

entries per page

« < 1 2 > »

Search: /

Packed	Object	Priority	Score	Cost (min)	Interest	Mag. (V)	Uncert. (")	Rate ("/min)	Elong. (")	GC	Num. Obs.	Last Obs.	Arc Length	U	H	MOID (AU)	NEO	Impact
PK21N010	P/2021 M1 (ZTF)	med-high	6.47	497	-	23.1	0.1502	0.4	144	0	97	3.6y	25d	7.2	16.6	0.021	100	-
0323P	323P/SOHO	med-high	6.43	48	0.50	21.7	0.1577	5.7	100	0	104	3.9y	95d	5.0	21.3	0.022	100	-
PK21Q050	P/2021 Q5 (ATLAS)	med-low	4.84	1322	-	22.3	0.0217	0.4	58	24	286	3.0y	149d	6.2	14.3	0.247	100	-
PK19Y030	P/2019 Y3 (Catalina)	low	3.88	2	-	18.4	0.0002	2.2	77	0	97	22d	5.2y	1.9	17.3	0.055	100	-
PK19M020	P/2019 M2	low	3.55	3029	-	23.3	0.0062	1.6	41	0	352	5.3y	256d	3.9	18.9	0.077	100	-
0046P	46P/Wirtanen	very low	2.99	77	-	22.3	0.0002	0.3	90	1	7522	1.2y	69y	2.3	15.4	0.071	100	-
0073P	73P/Schwassmann-Wachmann 3	very low	2.81	2886	-	24.1	0.0006	0.1	119	1	2680	1.5y	93y	3.7	13.6	0.015	-	-
PK21P20E	P/2021 PE20 (ATLAS)	very low	2.79	4101	-	24.5	0.0015	0.4	166	0	113	3.2y	95d	4.9	16.7	0.255	100	-
0185P	185P/Petrew	none	0.68	2741	-	24.4	0.0002	0.1	109	0	1272	364d	23y	0.8	14.7	0.062	100	-
0001P	1P/Halley	none	0.00	-	-	32.1	0.0000	0.1	161	1	8310	22y	168y	-3.0	9.0	0.064	100	-
0002P	2P/Encke	none	0.00	-	-	24.5	0.0000	0.6	15	0	5023	121d	23y	-0.4	15.1	0.166	100	-
0007P	7P/Pons-Winnecke	none	0.00	-	-	24.8	0.0000	0.2	132	5	1794	2.1y	130y	-0.6	14.1	0.219	100	-
0008P	8P/Tuttle	none	0.00	-	-	28.8	0.0000	0.2	36	77	1735	2.9y	15y	2.7	14.6	0.094	100	-
0012P	12P/Pons-Brooks	none	0.00	19	-	16.0	0.0000	0.3	59	47	8267	105d	141y	-1.9	9.0	0.181	100	-

COMETS

Targets (500)

Filters & Units: Showing 1-62 of 62 filtered from 38,340

(click to open) ▾

Telescope: 500 ▾

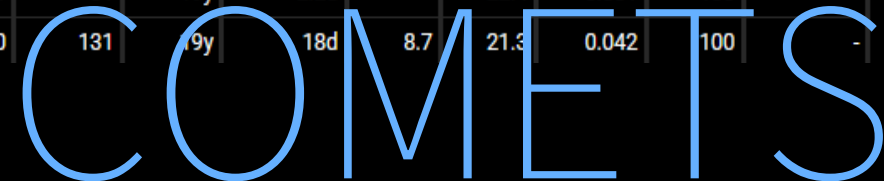
Column visibility (click to open) ▾

Export ▾

100 ▾ entries per page

Search: 73P ✕

Packed	Object	Priority	Score	Cost (min)	Interest	Mag. (V)	Uncert. (°)	Rate ("/min)	Elong. (°)	GC	Num. Obs.	Last Obs.	Arc Length	U	H	MOID (AU)	NEO	Impact
0073Pbt	0073Pbt	medium	5.04	4570	-	24.2	0.0432	0.1	118	1	368	7.3y	250d	6.4	13.7	0.012	100	-
0073P	73P/Schwassmann-Wachmann 3	very low	2.81	2886	-	24.1	0.0006	0.1	119	1	2680	1.5y	93y	3.7	13.6	0.015	-	-
0073Pa	0073Pa	very low	2.57	2784	-	21.2	36.3006	0.6	162	0	62	29y	58d	8.6	13.8	0.045	100	-
0073Pay	0073Pay	minimal	1.94	3603	-	15.9	28.2095	9916.9	19	3	28	19y	7.1d	10.6	21.0	0.037	100	-
0073Paa	0073Paa	none	0.00	-	-	32.1	10.3268	0.0	109	1	39	19y	19d	9.5	21.5	0.040	100	-
0073Pab	0073Pab	none	0.00	-	-	33.0	0.5113	0.2	126	4	45	19y	32d	7.3	22.6	0.041	100	-
0073Pac	0073Pac	none	0.00	-	-	33.5	0.4048	0.1	112	1	58	19y	32d	7.5	23.0	0.041	100	-
0073Pae	0073Pae	none	0.00	-	-	32.3	7.2371	0.1	94	0	47	19y	20d	8.7	22.5	0.041	100	-
0073Paf	0073Paf	none	0.00	-	-	31.4	37.1195	0.3	75	0	25	19y	7.2d	10.7	21.3	0.042	100	-
0073Pag	0073Pag	none	0.00	-	-	32.5	1.2172	0.1	119	2	89	19y	24d	7.7	22.1	0.041	100	-
0073Pah	0073Pah	none	0.00	-	-	31.2	71.7719	0.1	119	2	20	19y	3.3d	10.5	22.1	0.037	100	-
0073Pai	0073Pai	none	0.00	-	-	32.8	5.5557	0.1	114	1	18	19y	31d	8.8	22.3	0.041	100	-
0073Pak	0073Pak	none	0.00	-	-	40.2	12.0237	0.1	141	0	24	19y	13d	10.1	20.6	0.036	100	-
0073Pam	0073Pam	none	0.00	-	-	28.9	102.7293	0.6	75	0	12	19y	1.8d	10.5	21.7	0.039	100	-
0073Pan	0073Pan	none	0.00	-	-	32.4	2.1376	0.3	134	6	44	19y	18d	8.7	22.6	0.041	100	-
0073Pao	0073Pao	none	0.00	-	-	49.9	5.1835	0.0	20	1	31	19y	2.2d	-	22.4	0.031	100	-
0073Pap	0073Pap	none	0.00	-	-	26.5	12.8921	0.6	154	0	131	19y	18d	8.7	21.3	0.042	100	-



Activity (All)

[Column visibility \(click to open\)](#)
[Telescope visibility](#)
[Export](#)

Telescope:

entries per page

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Search:

Object	NEO	Interest	Last Activity (UT)	Last Obs.	Arc Length	Num. Obs.	Uncert. (°)	Rate ("/min)	Mag. (V)	H	q (AU)	500	204	291	691	807-100	G96	I52	Z80
C44DVA1	100	0.90	05:36	18.0h	6.7h	15	0.37	742.6	18.0	33.2	0.97	med-high	-	med-high	medium	medium	med-high	found	-
Sar2801	100	0.90	04:20	4.1h	3.4h	29	0.09	88.7	18.5	27.8	0.93	med-high	medium	medium	medium	medium	med-high	found	medium
Sar2802	100	0.90	06:21	1.9h	5.5h	20	0.01	29.3	20.2	28.2	1.00	med-high	none	none	med-low	med-low	medium	found	-
C10QEZ5	100	0.00	03:26	13d	2.1d	8	0.11	4.2	21.9	25.6	1.05	med-high	medium	med-high	med-high	med-high	high	not found	-
2016 QG44	100	0.50	05:41	8.3y	40d	29	0.37	3.7	21.8	22.2	0.89	med-high	med-high	med-high	med-high	med-high	high	will observe	-
2023 RS19	100	0.90	07:38	1.3y	32d	25	0.14	1.3	22.1	21.3	1.06	med-high	medium	med-high	med-high	med-high	high	found	-
2024 CL1	100	0.00	04:01	360d	5.9d	20	1.3	6.7	21.9	25.8	0.56	med-high	med-high	medium	med-high	med-low	very high	not found	-
323P/SOHO	100	0.50	05:41	3.9y	95d	104	0.16	5.7	21.7	21.3	0.04	med-high	medium	med-high	med-high	med-high	high	will observe	-
C11E8K5	92	0.70	07:41	2.6h	0.5h	4	0.09	0.8	22.8	19.0	0.26	medium	-	observing	-	-	med-low	-	-
CCWFE22	100	0.50	06:36	3.6h	1.6d	9	0.00	7.6	20.9	25.1	1.01	medium	none	none	med-low	medium	medium	will observe	-
2015 PL	100	0.70	01:33	9.3y	88d	52	0.15	1.3	22.3	20.1	1.09	medium	observing	medium	medium	medium	med-high	med-high	-
CCW66R2	100	0.70	07:34	1.1d	21.4h	17	0.00	1.9	22.2	26.5	0.78	med-low	none	none	med-low	medium	medium	observing	-
CCWRTK2	100	1.00	07:32	1.2h	22.1h	50	0.00	6.9	20.2	24.4	1.07	med-low	none	none	low	none	reported	med-low	-

ACTIVITY

Activity (All)

Telescope:

Column visibility (click to open) ▾
Telescope visibility ▾
Export ▾

entries per page

- All active telescopes ✓
- My authorized telescopes
- Selected telescope (upper right)

Object	NEO	In		Arc ngth	Num. Obs.	Uncert. (°)	Rate ("/min)	Mag. (V)	H	q (AU)	500	204	291	691	807-100	G96	I52	Z80	
C44DVA1	100	0.90	05:36	18.0h	6.7h	15	0.37	742.6	18.0	33.2	0.97	med-high	-	med-high	medium	medium	med-high	found	-
Sar2801	100	0.90	04:20	4.1h	3.4h	29	0.09	88.7	18.5	27.8	0.93	med-high	medium	medium	medium	medium	med-high	found	medium
Sar2802	100	0.90	06:21	1.9h	5.5h	20	0.01	29.3	20.2	28.2	1.00	med-high	none	none	med-low	med-low	medium	found	-
C10QEZ5	100	0.00	03:26	13d	2.1d	8	0.11	4.2	21.9	25.6	1.05	med-high	medium	med-high	med-high	med-high	high	not found	-
2016 QG44	100	0.50	05:41	8.3y	40d	29	0.37	3.7	21.8	22.2	0.89	med-high	med-high	med-high	med-high	med-high	high	will observe	-
2023 RS19	100	0.90	07:38	1.3y	32d	25	0.14	1.3	22.1	21.3	1.06	med-high	medium	med-high	med-high	med-high	high	found	-
2024 CL1	100	0.00	04:01	360d	5.9d	20	1.3	6.7	21.9	25.8	0.56	med-high	med-high	medium	med-high	med-low	very high	not found	-
323P/SOHO	100	0.50	05:41	3.9y	95d	104	0.16	5.7	21.7	21.3	0.04	med-high	medium	med-high	med-high	med-high	high	will observe	-
C11E8K5	92	0.70	07:41	2.6h	0.5h	4	0.09	0.8	22.8	19.0	0.26	medium	-	observing	-	-	med-low	-	-
CCWFE22	100	0.50	06:36	3.6h	1.6d	9	0.00	7.6	20.9	25.1	1.01	medium	none	none	med-low	medium	medium	will observe	-
2015 PL	100	0.70	01:33	9.3y	88d	52	0.15	1.3	22.3	20.1	1.09	medium	observing	medium	medium	medium	med-high	med-high	-
CCW66R2	100	0.70	07:34	1.1d	21.4h	17	0.00	1.9	22.2	26.5	0.78	med-low	none	none	med-low	medium	medium	observing	-
CCWRTK2	100	1.00	07:32	1.2h	22.1h	50	0.00	6.9	20.2	24.4	1.07	med-low	none	none	low	none	reported	med-low	-

ACTIVITY

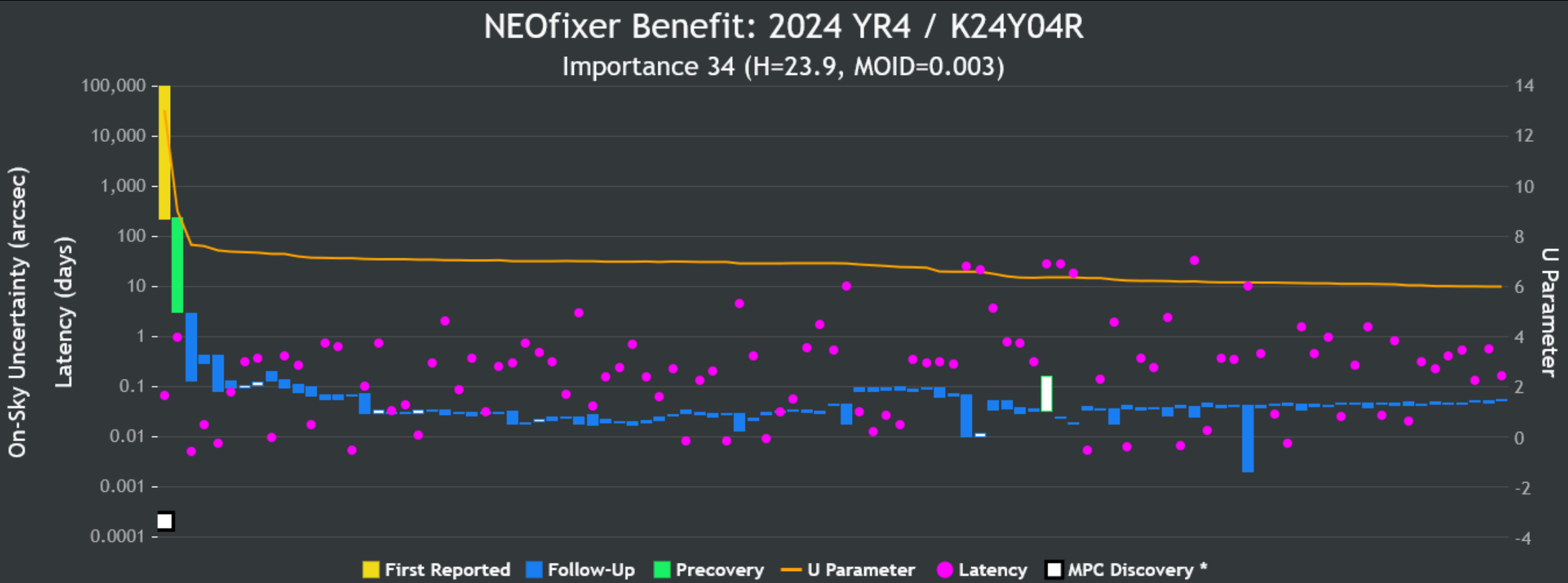
Activity API

To get activity via API:

```
curl https://neofixerapi.arizona.edu/activity/?site=all
```

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      "CCWFE22",
      "CCWRTK2",
      "Sar2802",
      "C11ECF5",
      "C10QEZ5",
      "F4807",
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      "K16CD7E",
      "K16Q44G",
      "K17C01J",
      "K18N04E",
      "K19003W",
      "U4293",
      "a4136",
      "K23R19S",
      "K24C01L",
      "K24000W",
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  }
}
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NEOfixer Benefit Plot for 2024 YR4



Near-term Plans

- Longer lookaheads
 - Improve urgency scores
 - Aid planning for large telescope time
- Improve coordination tools
- Accept observations, especially for near-Earth comets
- Load handling

160 Registered Telescopes

NEOfixer

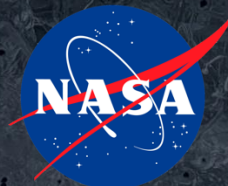


<https://neofixer.arizona.edu>

THANK YOU!



LPL



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Funded by NASA's PDCO: Thank you!