SBN/MPC Annex:

PDS Small bodies node Users Group (SmUG) meeting

$\leftarrow \rightarrow C$ \triangleq sbnmpc.astro.umd.edu

Q @ ☆ 🗯 🔲 🕕 😸 Inbox (23,537) - g... 📀 The Anomalous M... 📀 Reload @ UMCP 🔲 SBN-MPC General... 🌍 RADAR LDD 📀 Search Results - S... 📀 https://newton.sp... 🦻 IAU Minor Planet... 资 Goldstone Asteroi... 💍 IAWN_2019xs - O...

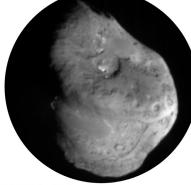


Minor Planet Center Annex @ SBN



The Minor Planet Center (MPC) is the world's (International Astronomical Union designated) nerve center for asteroid and comet observations, and has become a functional sub-node of the Small Bodies Node of the NASA Planetary Data System. The MPC collects, processes, and distributes all positional measurements, orbits, and discovery information for all minor planets and comets (and some natural satellites too). The MPC also alerts the NASA Planetary Defense Coordination Office and elements of the International Asteroid Warning Network (IAWN) of any potential for impact by newly discovered Near Earth Objects (NEOs), helping to coordinate worldwide observers.

The Minor Planet Center Annex at the SBN (SBN-MPC -- this site) provides ancillary products and support regarding the MPC.



9P/Tempel 1, Deep Impact



SBN-MPC DB Reports ▼ MPEC Watch ▼ MUG









SBN Beta Distribution of the MPC PG database – OBSTABLE:

- MPC OBSTable Schema MUG reviewed March, Lien corrections in April, internal distribution testing May, now distributed.
- OBSTable is the largest augmentation to the new PG database in terms of data volume, and is exported to the publicly distributed DB live copy.
- Presently being distributed to several (>6) volunteer institutions/users.

Table Name	obs_external										
Table Commen	The fields in this table describe the "obs" table that is/will-be replicated externally.										
		Column	Туре	Field Type (Approx)	Description / Comment						
	1	disc	Character(1)	ADES_Observations	Discovery flag. An asterisk marks a new discovery record						
	2	obstime	timestamp	ADES_Observations	UTC time of the observation in ISO 8601 format, i.e., {\em yyyy-mm-ddThh:mm:ss.ssZ}.						
	3	id	integer	MPC_ops	db-assigned unique ID						
	4	obsid	text	MPC_ops	Unique MPC-Assigned Observation ID						
	5	submission_id	text	MPC_ops	Unique MPC-Assigned Submission ID						
	6	submission_bloc	text	MPC_ops	Unique MPC-Assigned Submission-Block ID						
	7	obs80	text	MPC_ops	80-Character observation string						
	8	status	character(1)	MPC_ops	processing status: to be tied to obs_status table						
	9	healpix	bigint	MPC_ops	Convenience calculation; (RA,Dec) -> 63arc-sec healpix (nside = 32768 nested = True)						
	10	prev_desig	text	MPC_ops	Previous designation for a redesignated observation: Can also track via "obs_alterations_redesignation"						
	11	prev_ref	text	MPC_ops	Previous publication references for data						
	12	created_at	timestamp	MPC_ops	database record of row creation						
	13	updated_at	timestamp	MPC_ops	database record of row update						
	14	trksub	text	ADES_Observation	Observer-assigned tracklet identifier, unique within submission batch.						
	15	trkid	text	ADES_Observation	Globally Unique alphnumeric tracklet ID assigned by MPC						
	16	ref	text	ADES_Observation	Reference field used for citations						
	17	permid	text	ADES_Observation	IAU permanent designation, i.e., IAU number						
	18	provid	text	ADES_Observation	MPC provisional designation (unpacked format)						









SBN Distribution of the MPC PG database – Status Pages:

MPC IAWN SBN

SBN-MPC DB Reports - MUG

Minor Planet Center Annex

@ SBN

Database Status: GREEN

24 Jan 2022

1. Nominal

KEY

Please report concerns!

Latest update of every table in MPC MariaDB and Postgres

2022-01-25 15:10:01 (GMT)

Status of all major tables from MariaDB (mpc_development) and PostgresDB (mpcbeta). It includes list of all major tables, number of records in each tables, the latest updated record in each table. A color code corresponds to records updated less than 1 day, from 1 to 3 days and older than 3 days. Updated every 5 min. GMT timestamp of update is at the top left of the page.

MariaDB mpc_development:

Source file of data: statusDB.csv

Table	Count	Created_at	Updated_at
close_approaches	223366	2019-05-23 19:22:13	2019-05-23 19:22:13
comet_names	4586	2017-03-15 16:46:33	2017-03-15 16:46:33
comet_orbit_uncertainties	1015	2019-06-04 12:15:27	2019-06-04 12:15:27
comet_orbits	11435	2014-02-10 15:54:04	2022-01-12 00:31:05
identifications	593069	2022-01-12 12:07:06	2022-01-12 12:07:06
isolated tracklets	35324851	2022-01-25 15:07:40	2022-01-25 15:07:40

<u> Next Step – failover</u>..

- Hardware design (To be Deployed at SBN-PSI)
- Cloud design





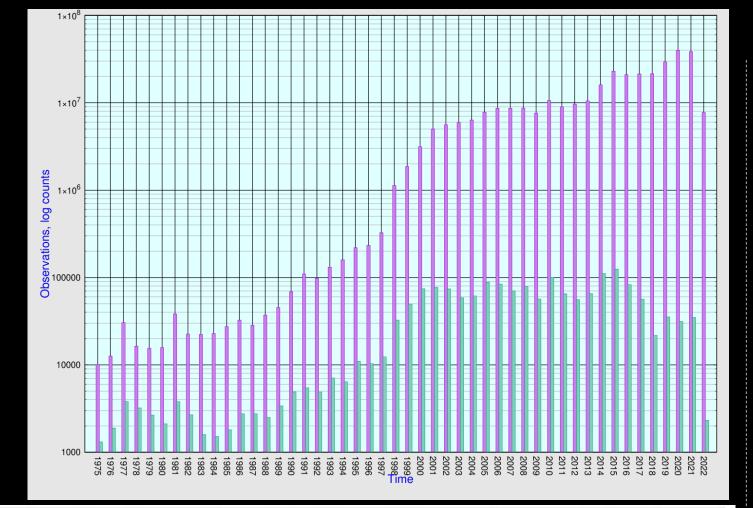






SBN MPC Annex :

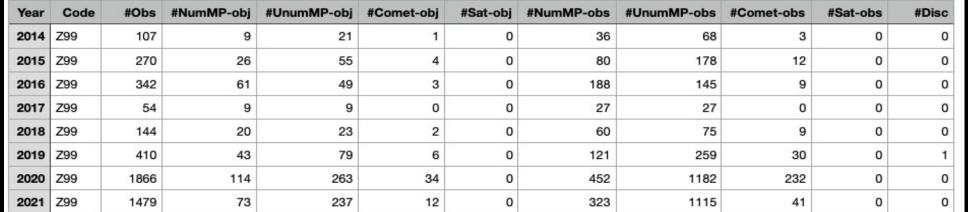
- New semester summary statistics compiled from MPC DB (Andrei Mamoutkine)
- https://sbnmpc.astro. umd.edu/













MPEC WATCH:

MPEC Watch Home

Observatory Browser Statistics by Object Type (under development) MPC Stuff Issue Tracker SBN-MPC Annex



- Developed by Quanzhi Ye
- Lists total MPECs by year and by obscode.
- Also provides Tables for:
- Top MPEC Contributors
- Top MPEC-ed Discoverers
- Top MPEC-ed Follow-up Observatories
- Top MPEC-ed First Follow-up Observatories
- Top MPEC-ed Precoverers
- .. Based on last year, last 5 years, and all time.

Welcome to MPEC Watch!

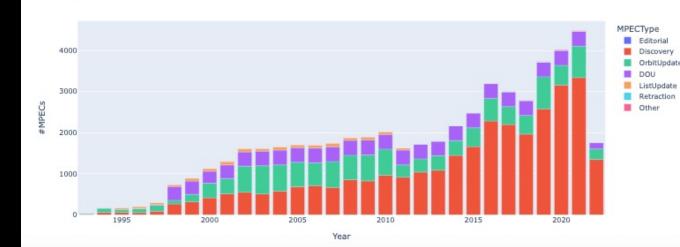
Note: This site is still under active development. Some links do not work.

MPEC Watch provides various statistical metrics and plots derived from Minor Planet Center's Minor Planet Electronic Circular service. This website is created and maintained by Quanzhi Ye. Tables and plots are automatically updated at midnight US Eastern Time.

Last update: UTC 2022-06-07 04:02:15

At a glance

Number and type of MPECs by year









MPEC WATCH 2:

MPEC Watch Home Observatory Browser Various Statistics MPC Stuff Issue Tracker SBN-MPC Annex

OBSCOD data (Quanzhi Ye and undergraduate intern, Taegon Hibbitts)

- OBSCOD Table summary.
- Observatory-specific breakdown.

The pages here are still under active development and testing. Comments, suggestions and bug reports are welcome (via Issue Tracker or by email). Quanzhi 09/02/22

Statistics by Observatory - All time

All time | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022

Last update: UTC 2022-10-05 05:21:30

III -	Search									
Code	Observatory	City 🕴	County \$	State 🔶	Country 🕴	MPECs 🍦	Disc. 🝦	F/U \Rightarrow	1st F/U 🕴	Prec.
000	Greenwich	London		England	United Kingdom	0	0	0	0	0
001	Crowborough	Wealden District	East Sussex	England	United Kingdom	0	0	0	0	0
002	Rayleigh	Chelmsford	Essex	England	United Kingdom	0	0	0	0	0
003	Montpellier		Hérault	Occitania	France	0	0	0	0	0
004	Toulouse	Toulouse	Haute-Garonne	Occitania	France	0	0	0	0	0
005	Meudon		Hauts-de-Seine	lle-de-France	France	0	0	0	0	0
006	Fabra Observatory, Barcelona	Barcelona	Barcelonès	Catalonia	Spain	319	0	0	0	0
007	Paris	Paris		lle-de-France	France	0	0	0	0	0
008	Algiers-Bouzareah		Bab El Oued District	Algiers	Algeria	0	0	0	0	0
009	Berne-Uecht	Bern	Bern-Mittelland administrative district	Bern	Switzerland	0	0	0	0	0
010	Caussols		Maritime Alps	Provence-Alpes- Côte d'Azur	France	6	2	1	0	0
011	Wetzikon		Bezirk Hinwil	Zurich	Switzerland	0	0	0	0	0
012	Uccle		Brussels-Capital		Belgium	116	0	27	2	0
013	Leiden	Leiden		South Holland	Netherlands	0	0	0	0	0
014	Marseilles	Marseille	Bouches-du-Rhône	Provence-Alpes-	France	0	0	0	0	0

Côte d'Azu





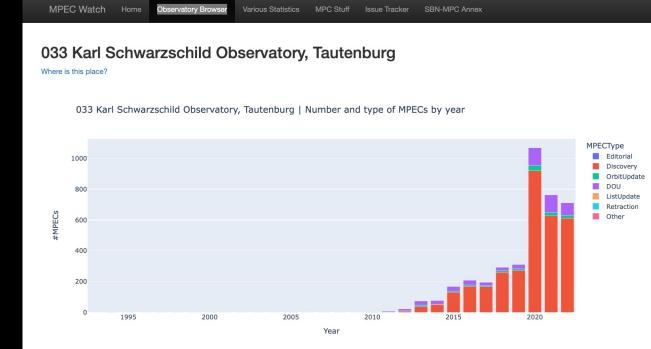




MPEC WATCH 2:



 Observatory-specific breakdown.



033 Karl Schwarzschild Observatory, Tautenburg | Top 10 Observers

