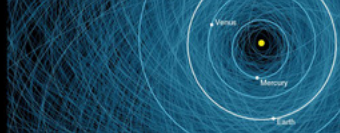


IAWN Status Report

Tim Spahr, NEO Sciences, LLC & University of Maryland Small Bodies
Node

IAWN Steering Committee Meeting, Vienna, 5 February 2020



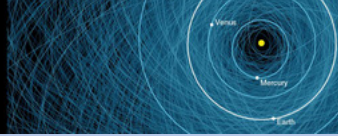
Short IAWN report

--NEO Discoveries

--accumulating new members

--web site articles & features

--discussion of press items



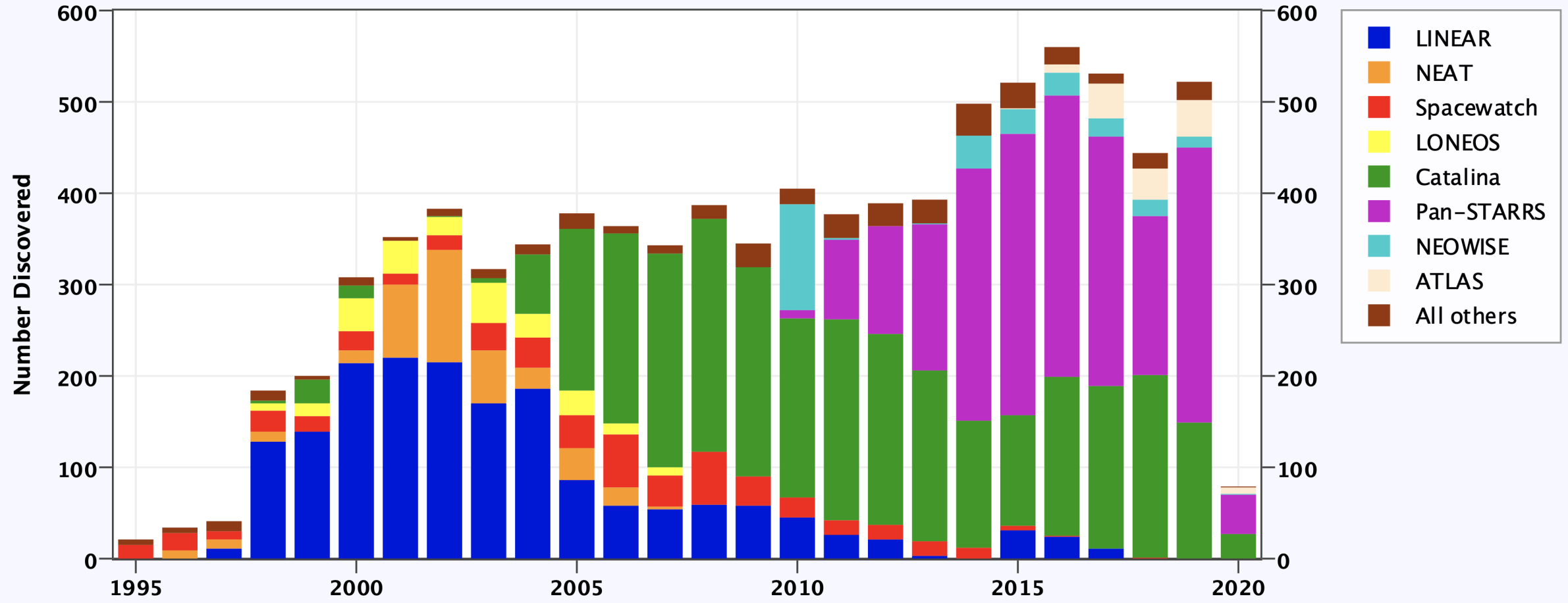
2019 a record year for NEO discoveries

2019													
Code	# PHA	# NEA			#Atens			#Apollos			#Amors		
		All	1km	H<22	All	1km	H<22	All	1km	H<22	All	1km	H<22
F51	37	930/	1/	256	47/	0/	4	416/	0/	120	467/	1/	132
G96	24	901/	0/	124	80/	0/	1	498/	0/	57	323/	0/	66
T08	11	92/	0/	20	9/	0/	1	65/	0/	14	18/	0/	5
F52	5	168/	1/	45	9/	0/	1	82/	0/	20	77/	1/	24
703	5	161/	0/	24	21/	0/	0	101/	0/	15	39/	0/	9
T05	5	62/	1/	19	10/	0/	4	33/	0/	7	19/	1/	8
I41	3	76/	2/	16	13/	2/	4	43/	0/	4	20/	0/	8
C51	1	15/	0/	12	0/	0/	0	9/	0/	7	6/	0/	5
X74	0	3/	0/	2	1/	0/	1	1/	0/	0	1/	0/	1
D29	0	2/	0/	1	0/	0/	0	0/	0/	0	2/	0/	1
W93	0	3/	0/	1	0/	0/	0	0/	0/	0	3/	0/	1
W84	0	1/	0/	0	0/	0/	0	0/	0/	0	1/	0/	0
V00	0	5/	0/	0	0/	0/	0	3/	0/	0	2/	0/	0
568	0	2/	0/	0	1/	0/	0	1/	0/	0	0/	0/	0
381	0	6/	0/	0	2/	0/	0	4/	0/	0	0/	0/	0
Q66	0	3/	0/	0	1/	0/	0	2/	0/	0	0/	0/	0
Y00	0	1/	0/	0	0/	0/	0	1/	0/	0	0/	0/	0
U68	0	1/	0/	0	0/	0/	0	1/	0/	0	0/	0/	0
L96	0	1/	0/	0	0/	0/	0	1/	0/	0	0/	0/	0
Total	91	2433/	5/	520	194/	2/	16	1261/	0/	244	978/	3/	260



NEO Discoveries 2019

Near-Earth Asteroid Discoveries by Survey
 ~140m and larger NEAs (as of 2020-Feb-03)



<https://cneos.jpl.nasa.gov/stats/>

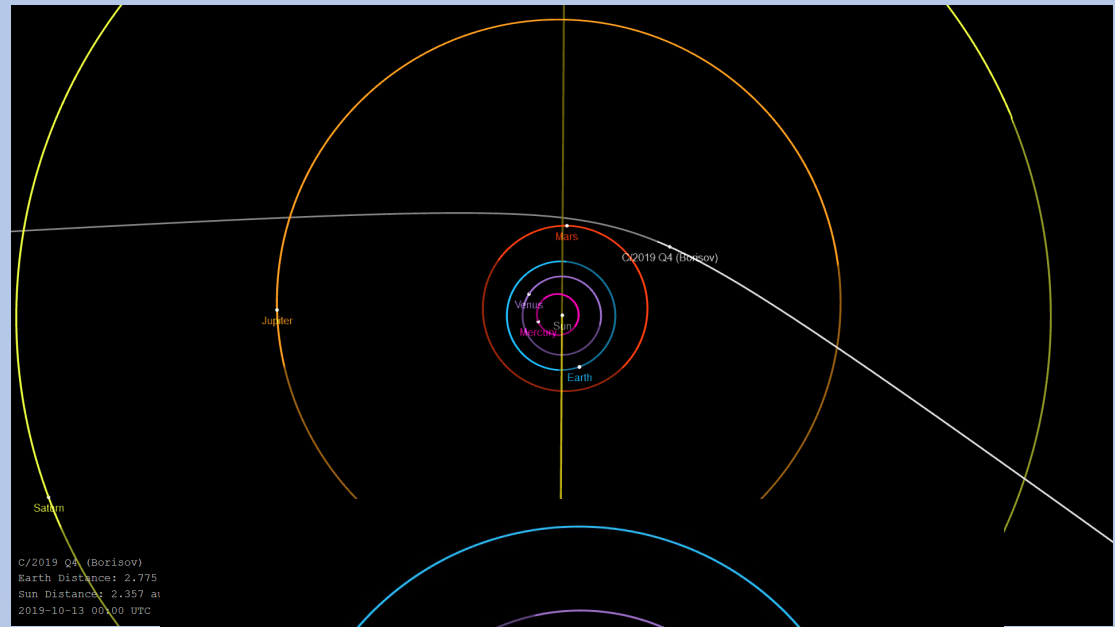
Alan Chamberlin (JPL/Caltech)



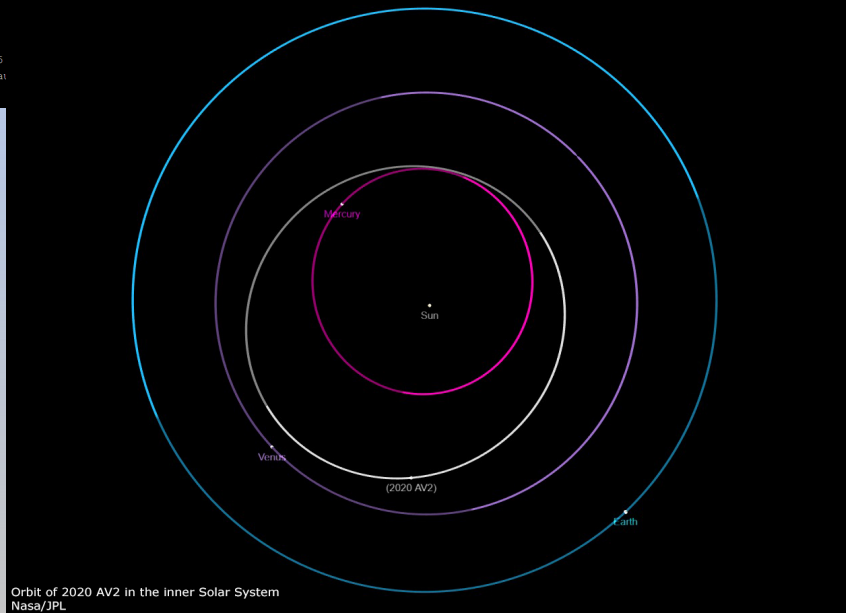
2I\Borisov; 2020 AV₂

--Interstellar comet found by Borisov

--2020 AV₂ orbit entirely interior to Venus (!)



JPL images

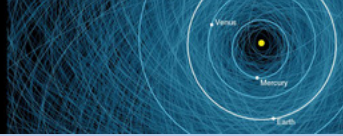




Curious/positive (and negative) press pieces

--when new Members are accepted, I often get phone calls / emails from local press folks (eg, Višnjan)

--usual bad articles where there's no real story









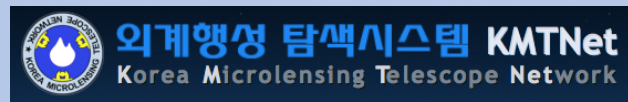






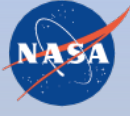






Potential Member Discussion

- IAC (Instituto de Astrofísica de Canarias)
- B49 (Jordi Camarasa, Spain)
- Deep Space Communications Radar (Kruzins, Australia)
- ISA (Israel Space Agency)

Signatories to the International Asteroid Warning Network (IAWN)

iawn.net

 <p>National Institute of Astrophysics, Optics & Electronics (México)</p> 	<p>European Southern Observatory</p> 	<p>China National Space Administration</p> 	<p>Northolt Branch Observatories (UK)</p> 	<p>Zwicky Transient Facility (US)</p> 	<p>Višnjan Observatory (Croatia)</p> 
 <p>Korean Astronomy Space Science Institute (KASI)</p>  <p>외계행성 탐색시스템 KMTNet Korea Microlensing Telescope Network</p>		<p>University of Nariño Colombia</p> 	<p>Inst. of Solar-Terrestrial Physics (Siberian Branch, Russian Academy of Sciences)</p>		<p>Sormano Astronomical Observatory (Italy)</p> 
 <p>Institute of Astronomy, Russian Academy of Sciences (IHACAH)</p>	<p>Crimean Astrophysical Observatory (Russian Academy of Sciences)</p>	<p>European Space Agency</p> 	<p>National Aeronautics and Space Administration</p> 		<p>SONEAR Observatory (Brazil)</p>
 <p>Follow-up Observers Peter Birtwhistle (UK) David Balam (Canada) Patrick Wiggins (USA)</p>		<p>Special Astrophysical Observatory (Russian Academy of Sciences)</p>		<p>Kourvka Astronomical Observatory (UrFU)</p>	

Currently 20 signatories