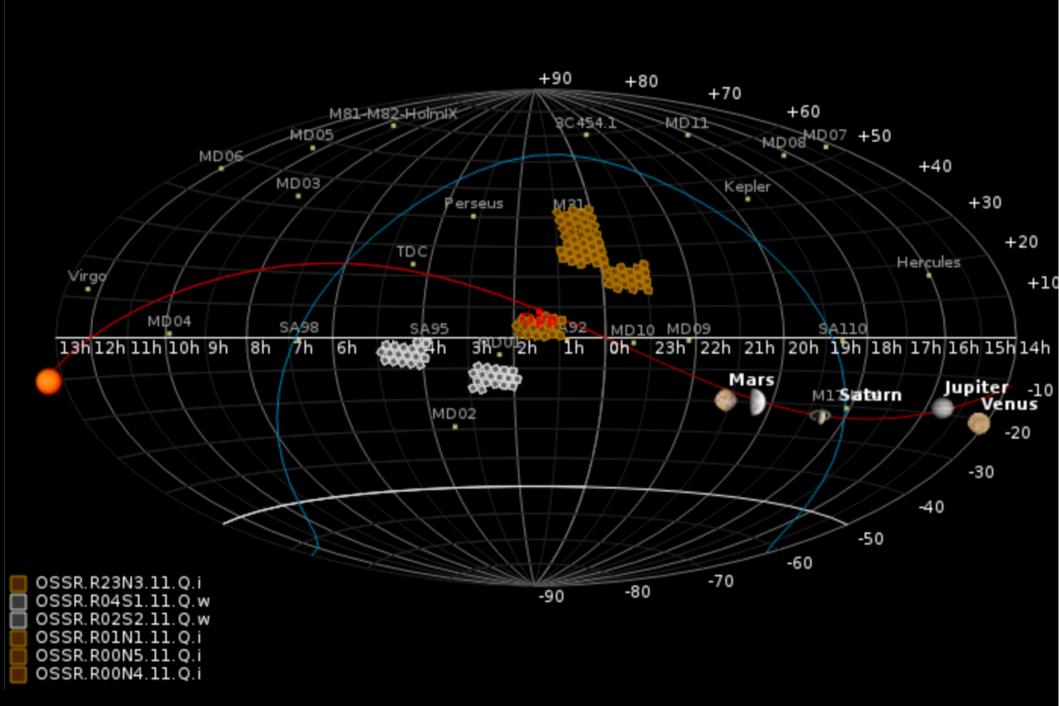


Pan-STARRS

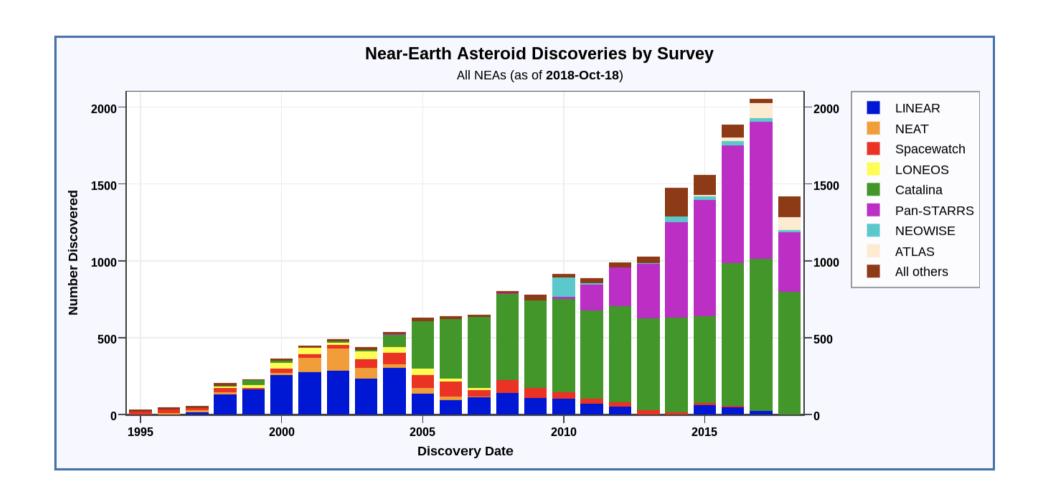
- Twin 1.8 metre telescopes on Haleakalā, Maui
- 3 degree field-of-view, 22.5 magnitude limit
- 1.4 billion pixel cameras, 0".25 pixels
- w-band or i-band depending on the moon
- 90% funded for NEO surveying
 - Still very dependent on follow-up telescopes
- Also finds comets, and one interstellar object



Discove	Discovery Counts																							
	R23	R22	R21	R20	R19	R18	R17	R16	R15	R14	R13	R12	R11	R10	R09	R08	R07	R06	R05	R04	R03	R02	R01	R00
N7	0	0	2	2	1	2	2	2	1	2	0	1	1	1	4	2	1	6	2	2	1	0	1	0
N6	1	0	0	0	2	2	4	3	2	0	1	4	1	3	7	3	3	13	0	0	0	1	3	0
N5	1	5	0	0	0	4	5	0	3	0	0	2	5	4	10	26	17	8	0	0	7	5	6	1
N4	5	10	1	0	0	2	5	9	2	2	9	5	25	19	10	21	13	1	2	4	15	11	10	4
N3	6	3	2	0	0	0	7	8	8	3	12	9	37	20	27	41	20	4	6	35	28	21	10	15
N2	17	15	7	1	0	0	17	12	9	3	19	18	25	35	29	21	5	0	4	32	31	19	21	18
N1	33	25	24	29	0	0	20	27	18	23	20	30	22	12	41	27	0	0	30	12	52	29	41	55
S1	63	48	32	44	0	1	14	43	30	27	34	26	24	26	24	23	0	1	25	27	17	25	26	27
52	46	32	63	33	1	0	3	52	25	40	11	25	19	9	11	3	0	0	13	16	8	10	24	24
53	17	37	50	47	18	0	1	25	20	28	5	13	10	9	10	0	1	4	6	12	6	7	14	21
S4	7	34	21	31	17	1	0	6	8	13	3	8	1	4	2	0	0	3	6	5	7	5	10	9
S 5	4	8	9	15	13	0	0	0	6	7	7	2	3	3	1	0	0	2	1	2	3	5	3	1
S6	1	0	0	6	4	1	0	0	0	0	1	0	2	1	0	0	0	2	0	1	1	0	1	1

_	R23	D00					Visit Counts																	
NIZ		R22	R21	R20	R19	R18	R17	R16	R15	R14	R13	R12	R11	R10	R09	R08	R07	R06	R05	R04	R03	R02	R01	R00
N7	2	5	11	21	38	36	34	31	24	24	22	21	19	21	21	25	25	24	17	11	10	6	7	6
N6	5	3	3	2	29	43	37	32	30	26	22	26	28	21	18	23	24	21	5	1	0	6	7	7
N5 3	33	36	0	0	8	54	46	37	27	37	28	27	22	20	31	46	41	12	2	3	17	22	27	33
N4 2	26	33	8	0	1	43	38	36	30	24	23	21	26	29	28	36	27	7	4	16	23	19	20	25
N3 2	23	27	17	0	0	2	34	25	29	20	22	24	31	29	35	34	25	6	13	38	35	27	18	18
N2 2	27	22	26	5	0	0	28	32	27	21	27	31	39	35	31	29	15	0	10	39	36	34	33	28
N1 5	55	45	44	53	0	1	67	53	42	38	38	44	32	40	43	44	2	0	47	43	52	48	55	56
S1 5	57	46	43	43	1	2	27	58	44	40	42	42	34	35	38	31	1	2	39	39	36	28	40	44
S2 📑	35	51	49	51	3	0	10	62	38	42	32	30	28	25	22	11	0	2	29	24	23	22	24	28
S3 2	27	41	47	63	42	0	4	52	34	39	22	21	23	16	20	1	1	14	26	28	24	26	20	26
S4 2	27	32	23	42	42	2	0	14	23	30	18	18	15	16	19	9	6	25	26	29	27	20	18	17
S5 📑	15	23	23	26	26	5	3	5	19	15	19	16	14	14	9	6	9	21	21	22	20	16	22	14
S6 1	12	11	11	14	15	4	1	2	4	11	17	13	12	8	6	6	13	20	14	16	15	12	12	13

Yearly Statistics ... uh oh



Pan-STARRS1 (F51) status

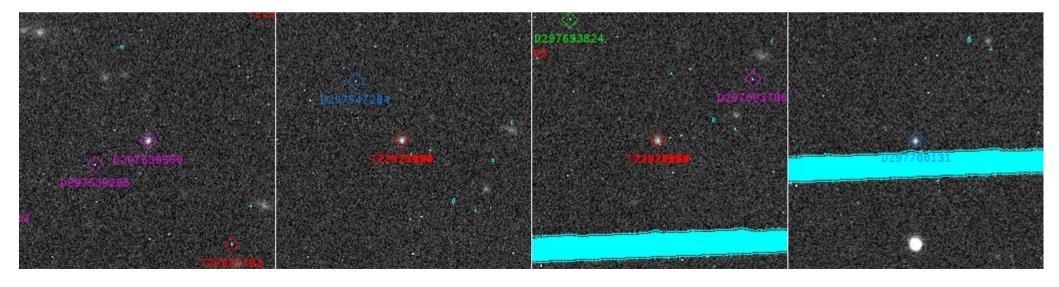
- a large part of this year had poor weather
 - Lower number of new NEOs
- Shut down Aug 22 for Hurricane Lane
 - upon restarting, problems with mirror support
 - original telescope manufacturer no longer exists
 - Now issues with the dome shutters
 - Also used for moon shielding
 - No current ETA for resuming operations ...

Pan-STARRS2 (F52) status

- Had some problems, but ...
- Began survey operations in Sept 2018
 - Already 45 MPECs in October
 - But still very much in the commissioning phase
 - On sky engineering time to fully characterise it
 - Not going as faint as we could → baffles
 - Tolerances on a wide-field telescope is difficult
 - Different detectors than F51 → software changes
 - Will have a press release when fully ready

Missed Tracklets – 2015 TL₁₇₈

K15TH8L	C2018 10	10.51712902	33	22.418-05	42	56.32	20.1	GVEU016F52
K15TH8L	C2018 10	10.53033102	33	22.328-05	43	14.96	20.2	GVEU016F52
K15TH8L	C2018 10	10.54352102	33	22.237-05	43	33.51	20.1	GVEU016F52
K15TH8L	C2018 10	10.55669902	33	22.149-05	43	52.11	20.3	GVEU016F52
K15TH8L	C2018 10	18.46802 02	32	18.460-09	45	08.19	19.4	wUEU016F52
K15TH8L	C2018 10	18.48065 02	32	18.015-09	45	38.13	19.5	wUEU016F52
K15TH8L	C2018 10	18.49322 02	32	17.563-09	46	07.95	19.5	wUEU016F52



DPS Presentations

- 304.03 Wed 10:20 AM Weryk
 - On-going work to link the Isolated Tracklet File
- 304.08 Wed 11:10 AM Ramanjooloo
 - The Pan-STARRS search for Near-Earth Objects
- 310.P Wed 4:10 PM Chambers
 - The Pan-STARRS2 facility and the Wide Area Survey for NEOs with Pan-STARRS