

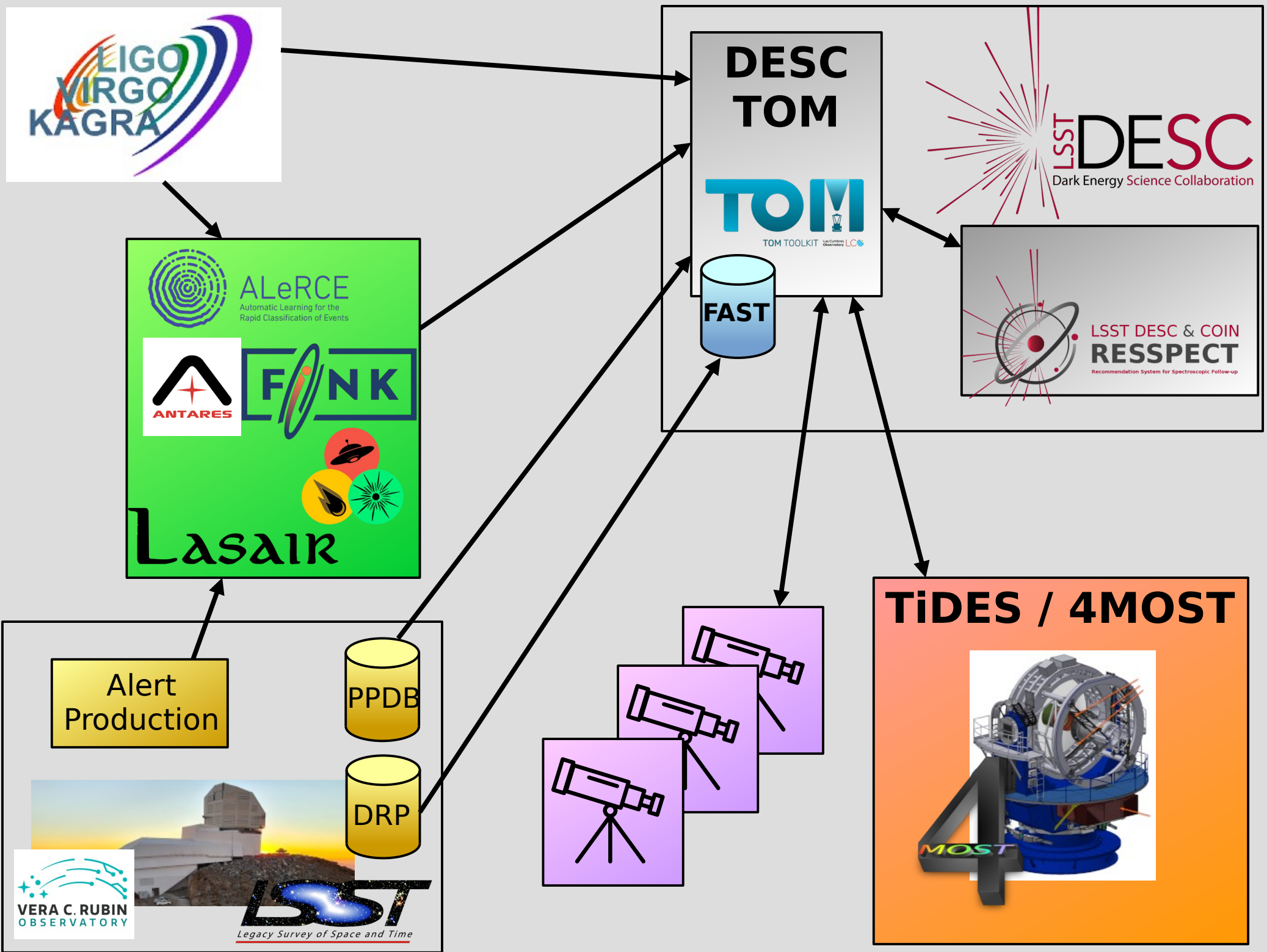
Transient and Variable Classification Alerts for ELAsTiCC

Rob Knop, LBNL & the ELAsTiCC Team
The Transient and Variable Universe 2023
2023-06-20

https://portal.nersc.gov/cfs/lsst/DESC_TD_PUBLIC/ELASTICC/

<https://desc-tom.lbl.gov>

<https://desc-tom-2.lbl.gov> (temporary)



LASAIR

ALeRCE
Automatic Learning for the Rapid Classification of Events

ANTAIRE

FINK

DESC TOM

TOM
TOM TOOLKIT
Las Cumbres Observatory LCO

FAST

LSST DESC
Dark Energy Science Collaboration

LSST DESC & COIN RESPECT
Recommendation System for Spectroscopic Follow-up

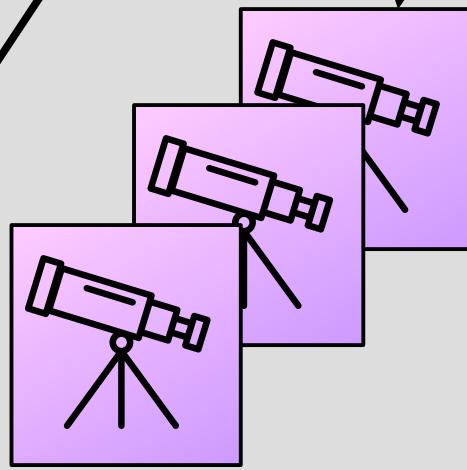
Alert Production

PPDB

DRP

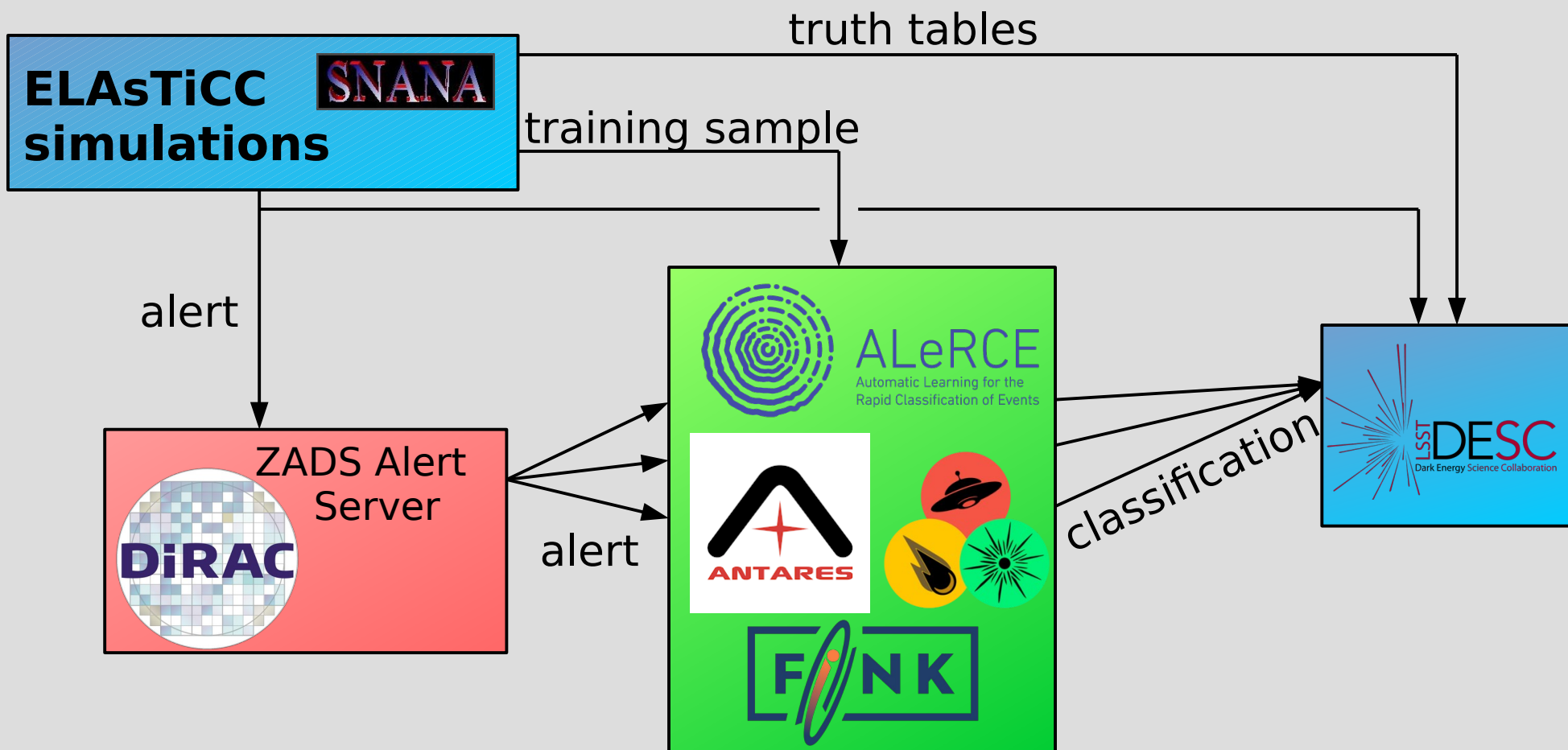
VERA C. RUBIN OBSERVATORY

LSST
Legacy Survey of Space and Time



TIDES / 4MOST

4MOST



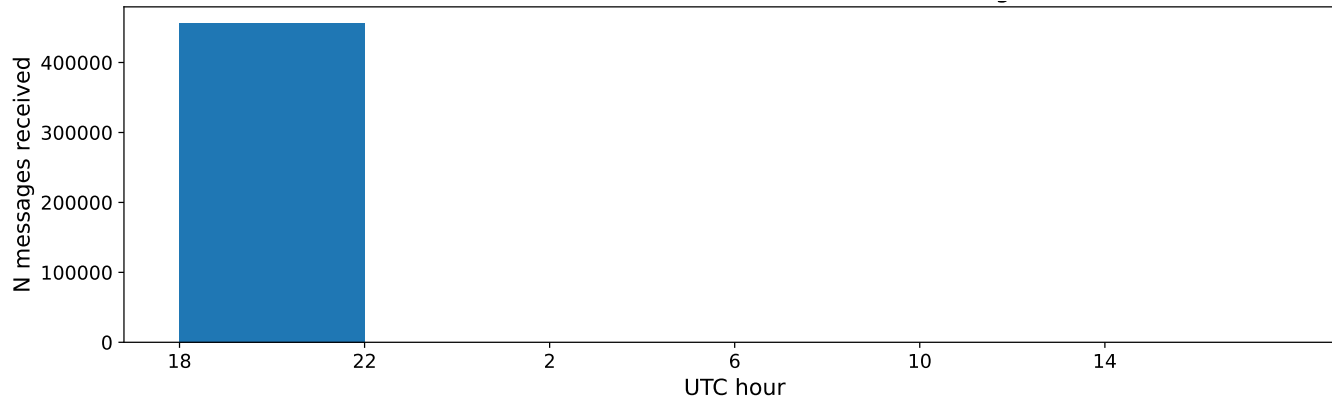
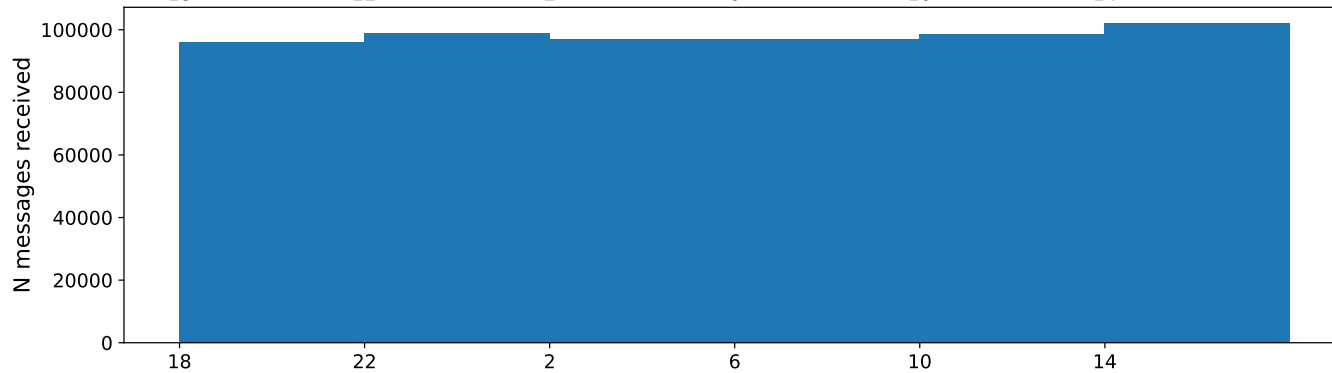
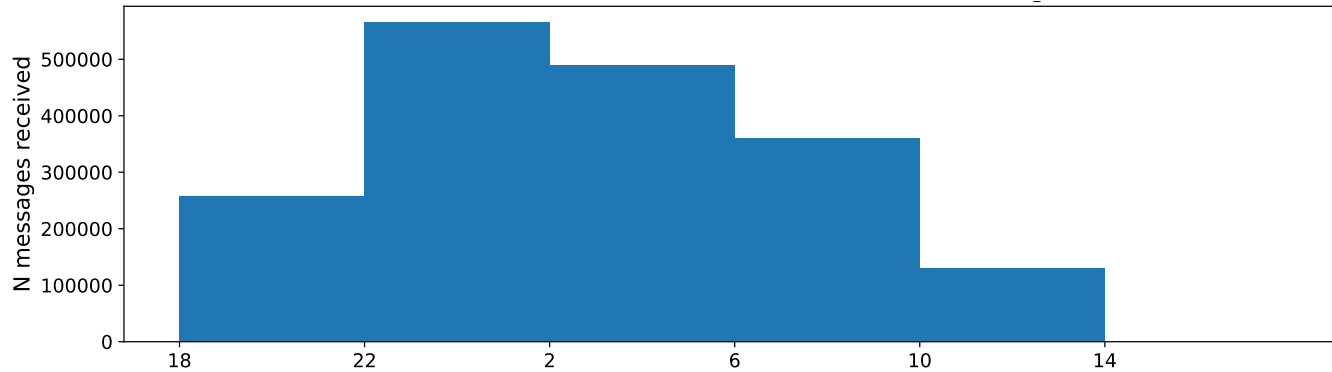
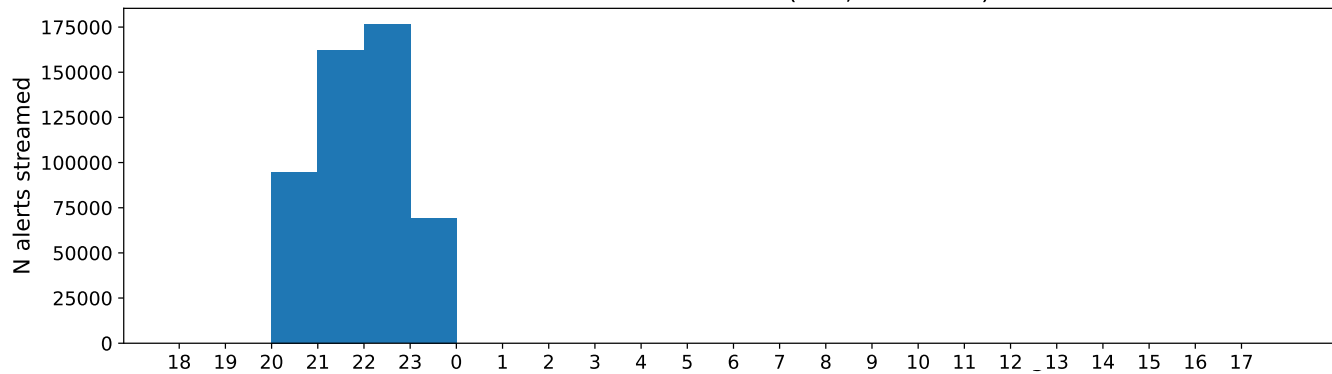
Outgoing alerts (ingested by brokers):

- One alert for each detection ($S/N > 5$).
- Includes all previous detections and all previous forced photometry*.
- May include photo-z information on one or two possible host galaxies.

Incoming alerts (produced by brokers):

- DiaSourceId
- Classifier identification
- Array of object class & probability

2023-1-13 to 2023-1-14 (502,922 alerts)



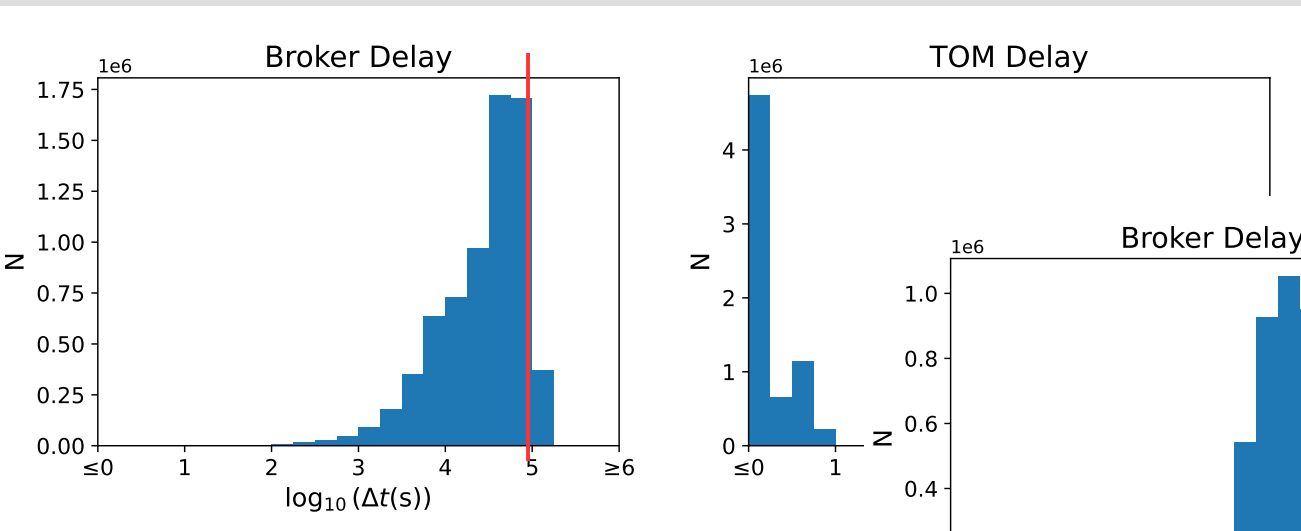
Alerts Sent
(One day in the last week of ELAsTiCC)

Received — ALeRCE

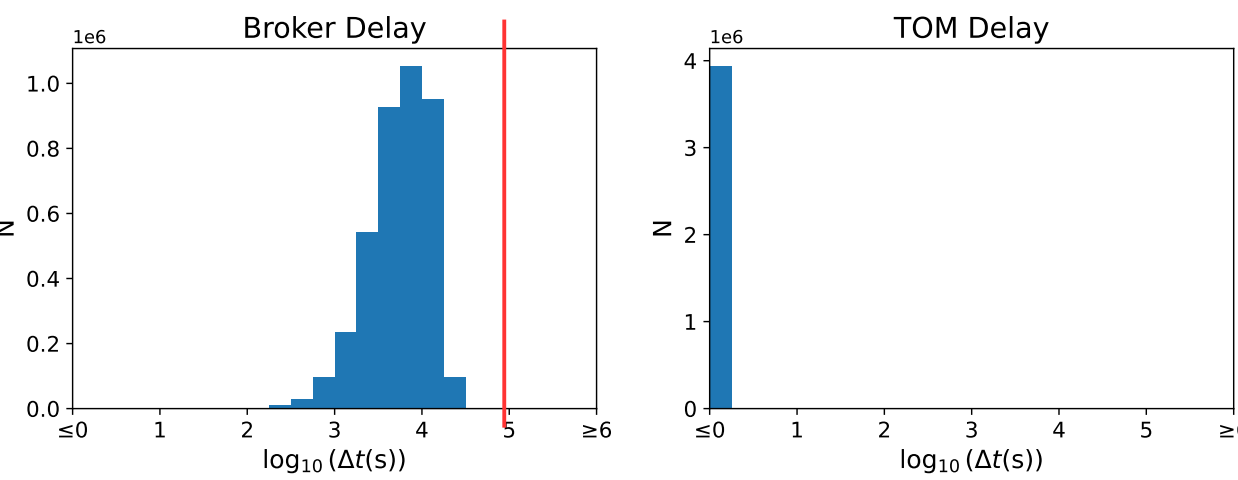
Received — ANTARES

Received — Fink

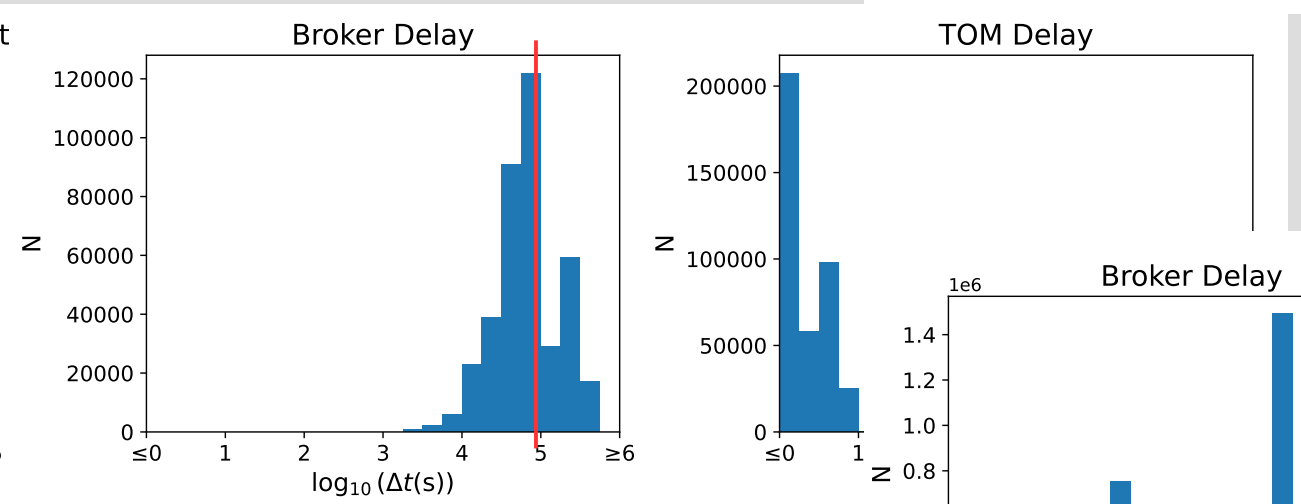
Turnaround time — first week of ELAsTiCC



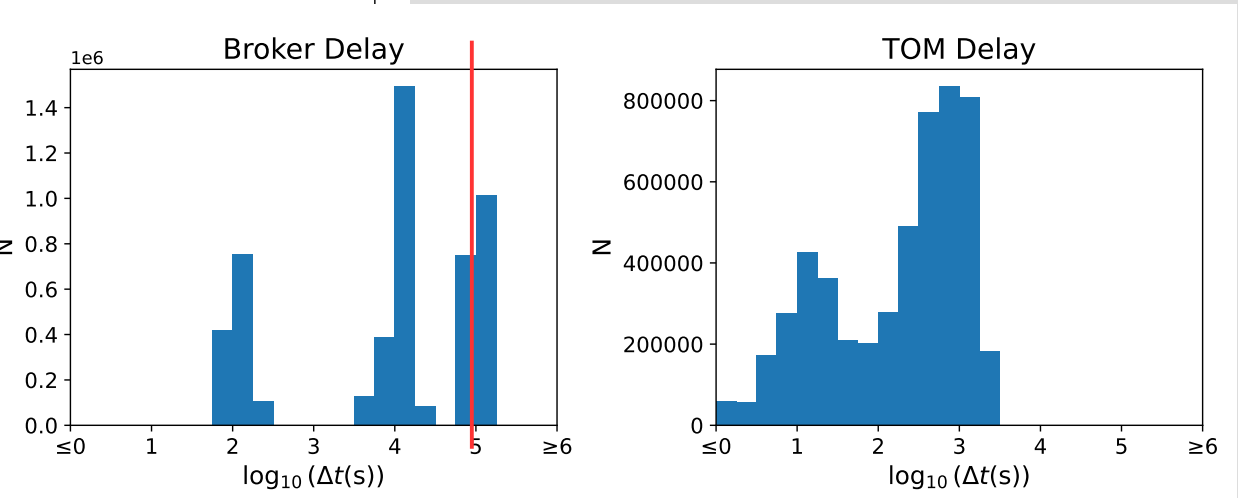
AMPEL



ALeRCE



Fink



ANTARES

True Class

Sample confusion matrix – looking at last classification

True Class	SN-like/Other	Ia	Ib/c	II	Iax	g1bg	KN	M-dwarf Flare	Dwarf Nova	uLens	SLSN	TDE	ILOT	CART	PISN	Cepheid	RR Lyrae	Delta Scuti	EB	AGN
Ia	1.0% 13393	29.0% 490432	10.0% 165706	27.0% 455702	2.0% 28356	0.0% 702	0.0% 50	0.0% 86	0.0% 71	0.0% 55	14.0% 231881	3.0% 52497	0.0% 7253	0.0% 4498	13.0% 219322	0.0% 9	0.0% 13	0.0% 25	0.0% 10	2.0% 40621
Ib/c	2.0% 6228	12.0% 42022	32.0% 112642	14.0% 50171	3.0% 10295	0.0% 780	0.0% 53	0.0% 34	0.0% 12	0.0% 30	12.0% 43826	3.0% 12091	1.0% 2077	2.0% 7175	13.0% 44901	0.0% 1	0.0% 7	0.0% 5	0.0% 6	6.0% 22281
II	2.0% 32592	5.0% 97607	6.0% 108315	40.0% 720939	2.0% 35617	0.0% 1205	0.0% 161	0.0% 92	0.0% 34	0.0% 87	14.0% 250882	17.0% 295909	1.0% 13508	1.0% 15763	6.0% 104631	0.0% 7	0.0% 9	0.0% 32	0.0% 34	6.0% 104174
Iax	1.0% 684	14.0% 6716	5.0% 2250	20.0% 9461	12.0% 5691	0.0% 60	0.0% 8	0.0% 1	0.0% 0	0.0% 5	12.0% 5664	13.0% 6445	0.0% 232	1.0% 629	1.0% 8237	0.0% 0	0.0% 1	0.0% 0	0.0% 0	1.0% 1995
g1bg	3.0% 1059	4.0% 1488	35.0% 13811	6.0% 2326	5.0% 1852	8.0% 2989	0.0% 50	0.0% 6	0.0% 2	0.0% 3	7.0% 2927	3.0% 1192	1.0% 207	2.0% 653	18.0% 6902	0.0% 0	0.0% 0	0.0% 2	0.0% 0	9.0% 3676
KN	2.0% 1	0.0% 0	10.0% 5	10.0% 5	4.0% 2	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	12.0% 6	12.0% 6	6.0% 3	0.0% 0	10.0% 5	0.0% 0	0.0% 0	0.0% 0	0.0% 0	31.0% 15
M-dwarf Flare	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	39.0% 514	5.0% 68	23.0% 303	0.0% 6	0.0% 0	0.0% 0	0.0% 0	0.0% 0	5.0% 66	5.0% 72	11.0% 141	11.0% 151	0.0% 0
Dwarf Nova	0.0% 1	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 9	81.0% 2330	9.0% 262	0.0% 1	0.0% 1	0.0% 0	0.0% 0	0.0% 0	2.0% 55	4.0% 107	2.0% 65	1.0% 35	0.0% 0
uLens	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 1	2.0% 43	94.0% 1690	0.0% 3	0.0% 0	0.0% 0	0.0% 0	0.0% 0	1.0% 11	2.0% 27	1.0% 15	0.0% 8	0.0% 0
SLSN	0.0% 53	0.0% 155	2.0% 542	8.0% 2628	1.0% 400	0.0% 10	0.0% 1	0.0% 0	0.0% 7	1.0% 292	67.0% 22835	2.0% 686	0.0% 87	6.0% 1971	13.0% 4341	0.0% 0	0.0% 0	0.0% 5	0.0% 26	1.0% 184
TDE	0.0% 12	0.0% 50	0.0% 16	4.0% 638	1.0% 91	0.0% 9	0.0% 0	0.0% 0	0.0% 0	0.0% 0	6.0% 862	80.0% 11658	0.0% 20	0.0% 8	2.0% 359	0.0% 0	0.0% 0	0.0% 0	0.0% 0	5.0% 768
ILOT	0.0% 5	1.0% 8	1.0% 15	9.0% 106	3.0% 31	1.0% 6	0.0% 1	0.0% 0	0.0% 0	0.0% 1	21.0% 242	16.0% 186	8.0% 97	0.0% 5	30.0% 352	0.0% 0	0.0% 0	0.0% 0	0.0% 0	10.0% 122
CART	1.0% 114	3.0% 291	5.0% 428	20.0% 1810	6.0% 514	0.0% 23	0.0% 3	0.0% 0	0.0% 1	0.0% 0	20.0% 1800	19.0% 1716	1.0% 54	5.0% 445	13.0% 1160	0.0% 0	0.0% 0	0.0% 1	0.0% 0	7.0% 586
PISN	0.0% 0	0.0% 0	1.0% 2	1.0% 3	0.0% 0	0.0% 1	0.0% 0	0.0% 0	0.0% 0	0.0% 0	17.0% 60	1.0% 3	1.0% 4	0.0% 1	79.0% 275	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 1
Cepheid	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	1.0% 9	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	97.0% 1226	0.0% 3	2.0% 28	0.0% 2	0.0% 0
RR Lyrae	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 1	0.0% 5	0.0% 115	0.0% 1	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 106	92.0% 43070	6.0% 2983	1.0% 408	0.0% 0
Delta Scuti	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 2	0.0% 19	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	2.0% 203	2.0% 140	95.0% 8401	1.0% 48	0.0% 0
EB	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 6	0.0% 10	1.0% 1299	0.0% 97	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 85	2.0% 1749	3.0% 3003	94.0% 102389	0.0% 0
AGN	0.0% 54	0.0% 188	0.0% 146	0.0% 193	1.0% 574	1.0% 600	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 79	4.0% 3806	0.0% 192	0.0% 6	0.0% 2	0.0% 0	0.0% 1	0.0% 7	0.0% 22	94.0% 90370

Predicted Class

True Class

Sample confusion matrix – looking at last classification

SNe

KN

m-dwarf flare
dwarf nova
microlens

TDE
ILOT

Variable Stars

AGN

la	1.0% 13393	29.0% 490432	10.0% 165706	27.0% 455702	2.0% 28356	0.0% 702	0.0% 50	0.0% 86	0.0% 71	0.0% 55	14.0% 231881	3.0% 52497	0.0% 7253	0.0% 4498	13.0% 219322	0.0% 9	0.0% 13	0.0% 25	0.0% 10	2.0% 40621
Ib/c	2.0% 6228	1.0% 42922	32.0% 112642	14.0% 50171	3.0% 10295	0.0% 78	0.0% 53	0.0% 34	0.0% 12	0.0% 30	12.0% 43826	3.0% 12091	1.0% 2077	2.0% 7175	13.0% 44901	0.0% 1	0.0% 7	0.0% 5	0.0% 6	6.0% 22281
II	2.0% 32592	5.0% 97607	5.0% 106815	40.0% 720939	2.0% 35617	0.0% 1205	0.0% 161	0.0% 92	0.0% 34	0.0% 87	14.0% 250882	17.0% 295909	1.0% 13508	1.0% 15763	6.0% 104631	0.0% 7	0.0% 9	0.0% 32	0.0% 34	6.0% 104174
Iax	1.0% 684	14.0% 6716	5.0% 2250	20.0% 9451	12.0% 5691	0.0% 60	0.0% 8	0.0% 1	0.0% 0	0.0% 5	12.0% 5664	13.0% 6445	0.0% 232	1.0% 629	1.0% 8237	0.0% 0	0.0% 1	0.0% 0	0.0% 0	1.0% 1995
91bg	3.0% 1059	4.0% 1488	35.0% 13811	6.0% 2326	5.0% 185	8.0% 2989	0.0% 50	0.0% 0	0.0% 0	0.0% 3	7.0% 2927	3.0% 1192	1.0% 207	2.0% 653	18.0% 6902	0.0% 0	0.0% 0	0.0% 2	0.0% 0	9.0% 3676
KN	2.0% 1	0.0% 0	10.0% 5	10.0% 5	4.0% 2	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	12.0% 6	12.0% 6	6.0% 3	0.0% 0	10.0% 5	0.0% 0	0.0% 0	0.0% 0	0.0% 0	31.0% 15
M-dwarf Flare	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	39.0% 514	5.0% 68	23.0% 303	0.0% 6	0.0% 0	0.0% 0	0.0% 0	0.0% 0	5.0% 66	5.0% 72	11.0% 141	11.0% 151	0.0% 0
Dwarf Nova	0.0% 1	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 9	81.0% 2330	9.0% 262	0.0% 1	0.0% 1	0.0% 0	0.0% 0	0.0% 0	2.0% 55	4.0% 107	2.0% 65	1.0% 35	0.0% 0
uLens	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 1	2.0% 43	94.0% 1690	0.0% 3	0.0% 0	0.0% 0	0.0% 0	0.0% 0	1.0% 11	2.0% 27	1.0% 15	0.0% 8	0.0% 0
SLSN	0.0% 53	0.0% 155	2.0% 542	8.0% 2628	1.0% 400	0.0% 10	0.0% 1	0.0% 0	0.0% 7	1.0% 292	67.0% 22835	1.0% 386	0.0% 87	6.0% 1971	13.0% 4341	0.0% 0	0.0% 0	0.0% 5	0.0% 26	1.0% 184
TDE	0.0% 12	0.0% 50	0.0% 16	4.0% 638	1.0% 91	0.0% 9	0.0% 0	0.0% 0	0.0% 0	0.0% 0	6.0% 862	80.0% 11658	0.0% 20	0.0% 8	2.0% 359	0.0% 0	0.0% 0	0.0% 0	0.0% 0	5.0% 768
ILOT	0.0% 5	1.0% 8	1.0% 15	9.0% 106	3.0% 31	1.0% 6	0.0% 1	0.0% 0	0.0% 0	0.0% 1	21.0% 242	16.0% 186	8.0% 97	0.0% 5	30.0% 352	0.0% 0	0.0% 0	0.0% 0	0.0% 0	10.0% 122
CART	1.0% 114	3.0% 291	5.0% 428	20.0% 1810	6.0% 514	0.0% 23	0.0% 3	0.0% 0	0.0% 1	0.0% 0	20.0% 1800	19.0% 1716	1.0% 54	5.0% 445	11.0% 116	0.0% 0	0.0% 0	0.0% 1	0.0% 0	7.0% 586
PISN	0.0% 0	0.0% 0	1.0% 2	1.0% 3	0.0% 0	0.0% 1	0.0% 0	0.0% 0	0.0% 0	0.0% 0	17.0% 60	1.0% 3	1.0% 4	0.0% 0	79.0% 275	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 1
Cepheid	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	1.0% 9	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	97.0% 1226	0.0% 3	2.0% 28	0.0% 2	0.0% 0
RR Lyrae	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 1	0.0% 5	0.0% 115	0.0% 1	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 106	92.0% 43070	6.0% 2983	1.0% 408	0.0% 0
Delta Scuti	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 2	0.0% 19	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	2.0% 203	2.0% 140	95.0% 8401	1.0% 48	0.0% 0
EB	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 6	0.0% 10	1.0% 1299	0.0% 97	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 85	2.0% 1749	3.0% 3003	94.0% 102389	0.0% 0
AGN	0.0% 54	0.0% 188	0.0% 146	0.0% 193	1.0% 574	1.0% 600	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 79	4.0% 3806	0.0% 192	0.0% 6	0.0% 2	0.0% 0	0.0% 1	0.0% 7	0.0% 22	94.0% 90370

Predicted Class

SN-like/Other
la
Ib/c
II
Iax
91bg
KN
M-dwarf flare
Dwarf Nova
uLens
SLSN
TDE
ILOT
CART
PISN
Cepheid
RR Lyrae
Delta Scuti
EB
AGN

True Class

Sample confusion matrix — after three detections

SNe

KN

m-dwarf flare
dwarf nova
microlens

TDE
ILOT

Variable Stars

AGN

True Class	SN-like/Other	Ia	Ib/c	II	Iax	91bg	KN	M-dwarf flare	Dwarf Nova	uLens	SLSN	TDE	ILOT	CART	PISN	Cepheid	RR Lyrae	Delta Scuti	EB	AGN
SN-like/Other	2.0% 17770	22.0% 206217	12.0% 117435	25.0% 235572	2.0% 17605	4.0% 626	0.0% 150	0.0% 73	0.0% 206	0.0% 136	18.0% 173583	4.0% 42156	0.0% 2569	1.0% 6058	10.0% 91019	0.0% 4	0.0% 21	0.0% 21	0.0% 14	5.0% 44585
Ia	2.0% 4196	1.0% 23309	25.0% 48888	17.0% 34302	2.0% 3382	0.0% 85	0.0% 77	0.0% 32	0.0% 65	0.0% 67	15.0% 29027	2.0% 4788	0.0% 958	1.0% 1868	15.0% 28563	0.0% 3	0.0% 9	0.0% 4	0.0% 2	8.0% 16569
Ib/c	1.0% 11373	6.0% 48323	1.0% 52333	40.0% 342451	2.0% 16380	0.0% 716	0.0% 232	0.0% 187	0.0% 135	0.0% 122	17.0% 148376	11.0% 89452	1.0% 6492	1.0% 6558	7.0% 58134	0.0% 7	0.0% 16	0.0% 14	0.0% 16	8.0% 66719
Iax	2.0% 448	13.0% 3097	4.0% 1052	2.0% 5317	9.0% 2119	0.0% 52	0.0% 7	0.0% 1	0.0% 2	0.0% 12	19.0% 4723	10.0% 2525	0.0% 87	1.0% 312	4.0% 3343	0.0% 0	0.0% 3	0.0% 1	0.0% 2	5.0% 1301
91bg	2.0% 507	5.0% 969	34.0% 7112	10.0% 2132	2.0% 488	4.0% 806	0.0% 64	0.0% 3	0.0% 13	0.0% 13	11.0% 2211	1.0% 283	0.0% 101	2.0% 385	14.0% 2827	0.0% 0	0.0% 0	0.0% 0	0.0% 0	13.0% 2732
KN	0.0% 0	0.0% 0	25.0% 2	25.0% 2	0.0% 0	0.0% 0	12.0% 1	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	12.0% 1	0.0% 0	0.0% 0	0.0% 0	0.0% 0	25.0% 2
M-dwarf Flare	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	13.0% 7	19.0% 10	23.0% 12	2.0% 1	0.0% 0	0.0% 0	0.0% 0	0.0% 0	2.0% 1	4.0% 2	25.0% 13	12.0% 6	0.0% 0
Dwarf Nova	0.0% 1	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	2.0% 36	79.0% 1455	10.0% 189	0.0% 3	0.0% 1	0.0% 0	0.0% 0	0.0% 0	1.0% 21	4.0% 82	1.0% 24	2.0% 29	0.0% 0
uLens	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 3	7.0% 91	84.0% 1149	0.0% 6	0.0% 0	0.0% 0	0.0% 0	0.0% 0	1.0% 20	2.0% 33	2.0% 26	3.0% 35	0.0% 0
SLSN	0.0% 90	1.0% 175	2.0% 621	15.0% 3695	5.0% 1255	0.0% 19	0.0% 1	0.0% 0	0.0% 3	1.0% 241	53.0% 13295	1.0% 95	0.0% 74	3.0% 754	15.0% 3679	0.0% 0	0.0% 2	0.0% 1	0.0% 25	1.0% 177
TDE	0.0% 10	1.0% 89	0.0% 33	14.0% 1272	2.0% 186	0.0% 11	0.0% 1	0.0% 0	0.0% 1	0.0% 0	12.0% 1121	61.0% 5510	0.0% 29	0.0% 29	2.0% 170	0.0% 0	0.0% 0	0.0% 0	0.0% 0	6.0% 557
ILOT	0.0% 2	1.0% 10	3.0% 21	16.0% 108	3.0% 20	0.0% 1	0.0% 2	0.0% 0	0.0% 0	0.0% 0	20.0% 135	15.0% 105	4.0% 29	1.0% 10	26.0% 176	0.0% 0	0.0% 0	0.0% 0	0.0% 0	10.0% 69
CART	1.0% 47	4.0% 186	5.0% 224	24.0% 1072	6.0% 254	0.0% 21	0.0% 5	0.0% 0	0.0% 3	0.0% 4	24.0% 1069	12.0% 513	1.0% 31	2.0% 108	13.0% 583	0.0% 0	0.0% 0	0.0% 0	0.0% 0	7.0% 332
PISN	0.0% 1	1.0% 3	1.0% 3	3.0% 8	2.0% 5	1.0% 2	0.0% 0	0.0% 0	0.0% 0	0.0% 0	29.0% 74	1.0% 3	1.0% 2	4.0% 10	58.0% 146	0.0% 0	0.0% 0	0.0% 0	0.0% 0	1.0% 2
Cepheid	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 1	7.0% 48	8.0% 58	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	62.0% 442	8.0% 60	12.0% 87	2.0% 16	0.0% 0
RR Lyrae	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 62	6.0% 1855	12.0% 4043	0.0% 2	0.0% 0	0.0% 0	0.0% 0	0.0% 1	4.0% 1381	33.0% 11164	39.0% 13138	6.0% 1964	0.0% 0
Delta Scuti	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 10	2.0% 145	6.0% 399	0.0% 1	0.0% 0	0.0% 0	0.0% 0	0.0% 0	6.0% 393	21.0% 1383	59.0% 3820	5.0% 315	0.0% 0
EB	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 0	0.0% 77	1.0% 1000	3.0% 2640	0.0% 21	0.0% 12	0.0% 0	0.0% 0	0.0% 0	0.0% 152	5.0% 3793	10.0% 7429	80.0% 62208	0.0% 0
AGN	0.0% 218	1.0% 581	2.0% 1392	0.0% 259	0.0% 289	1.0% 496	0.0% 0	0.0% 0	0.0% 1	0.0% 9	0.0% 70	5.0% 3531	3.0% 1772	0.0% 11	0.0% 10	0.0% 0	0.0% 2	0.0% 2	0.0% 45	87.0% 58172

Predicted Class

SN-like/Other

Ia

Ib/c

II

Iax

91bg

KN

M-dwarf flare

Dwarf Nova

uLens

SLSN

TDE

ILOT

CART

PISN

Cepheid

RR Lyrae

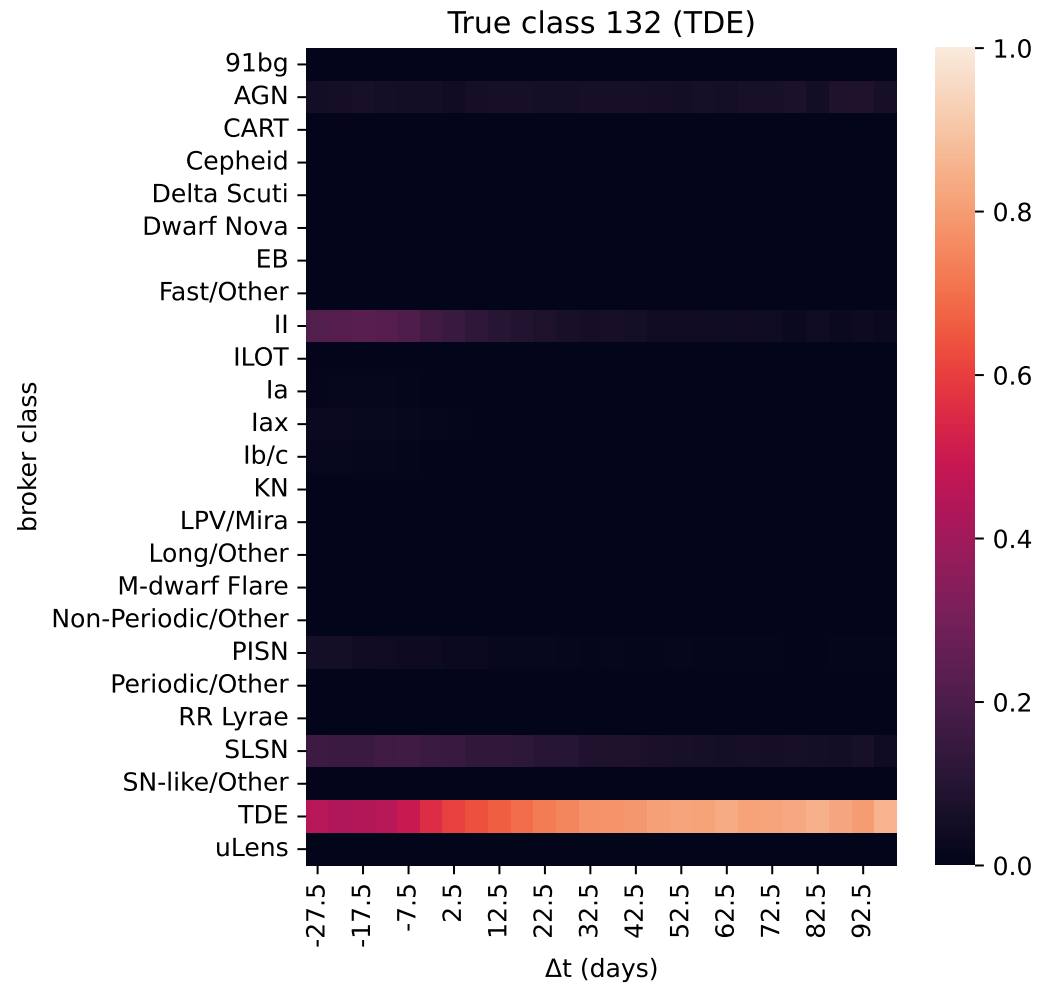
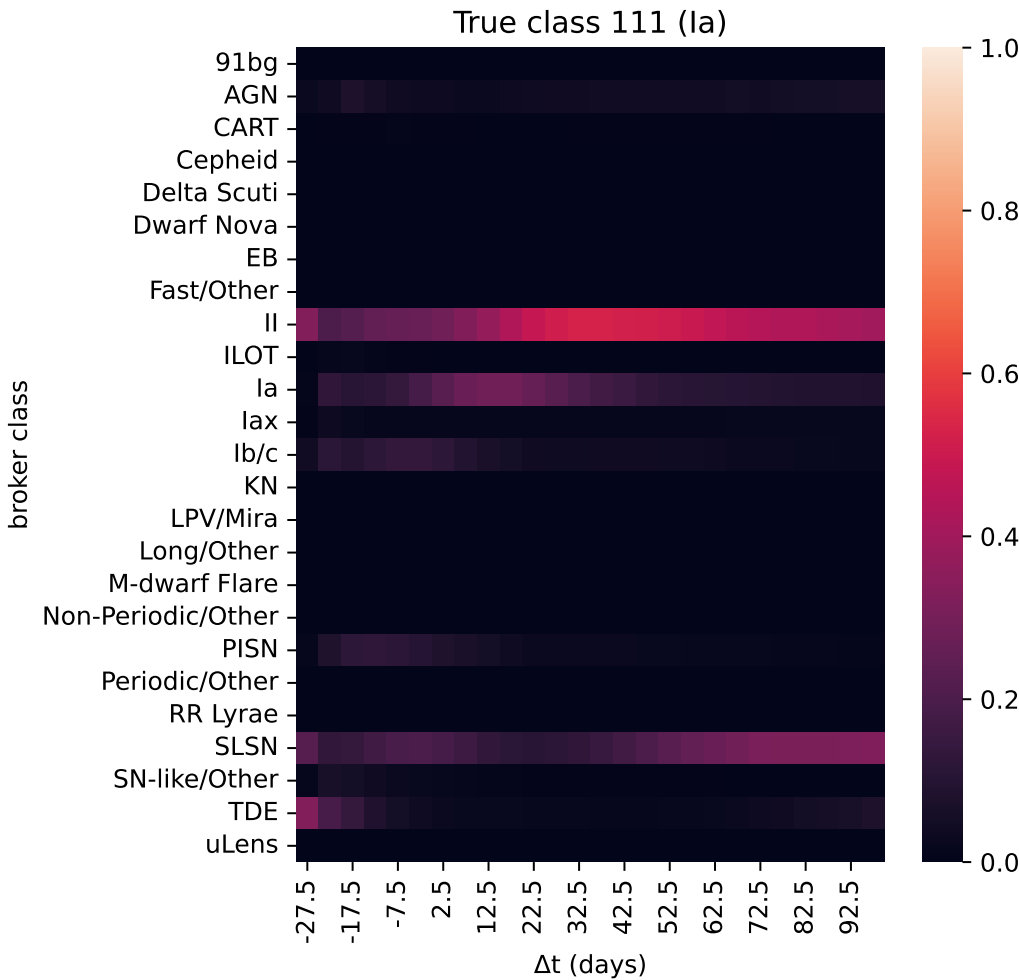
Delta Scuti

EB

AGN

Predicted class

Classification as a function of time relative to lightcurve peak



Lots more at <https://desc-tom.lbl.gov>

Targets classified by brokers listening to the ELAsTiCC2 “plumbing test stream”

598944 Targets

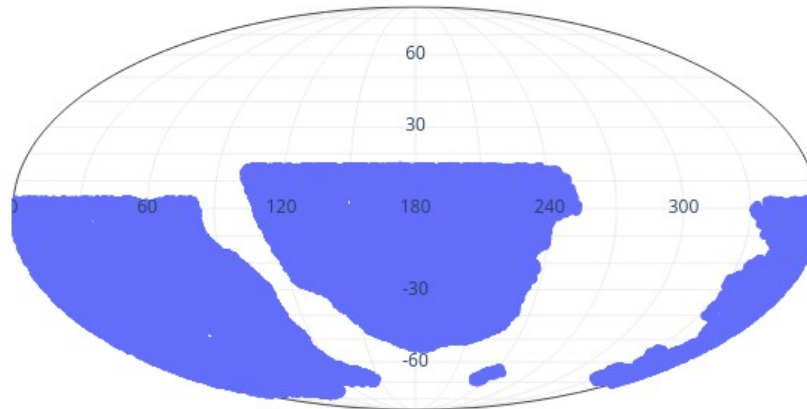
Create Targets

Update Broker Data

Export Filtered Targets



Target Distribution (sidereal)



- « 1 2 3 4 5 6 7 8 9 10 11 12 ... »

Add/Remove from grouping

Add

Move

Remove

<input type="checkbox"/>	Name	Type	Observations	Saved Data
<input type="checkbox"/>	ELAsTiCC2 150451504	Sidereal	0	0

Target Type

Name

Key

Value

Cone Search

RA, Dec, Search Radius (degrees)

Target Grouping

Cone Search (Target)

Target Name, Search Radius (degrees)

TOM Photometry view of a (simulated) $z=0.16$ SN Ia

ELAsTiCC2 150467992

There are 0 observations with unknown status.

Update Target

Delete Target

Names ELAsTiCC2
150467992

Target Type SIDEREAL

Right Ascension 79.0253
05:16:06.075

Declination -4.1546
-04:09:16.72

Epoch 2000.0000

Recent Photometry

Timestamp	Magnitude
-----------	-----------

No recent photometry.

Publish Data for ELAsTiCC2 150467992:

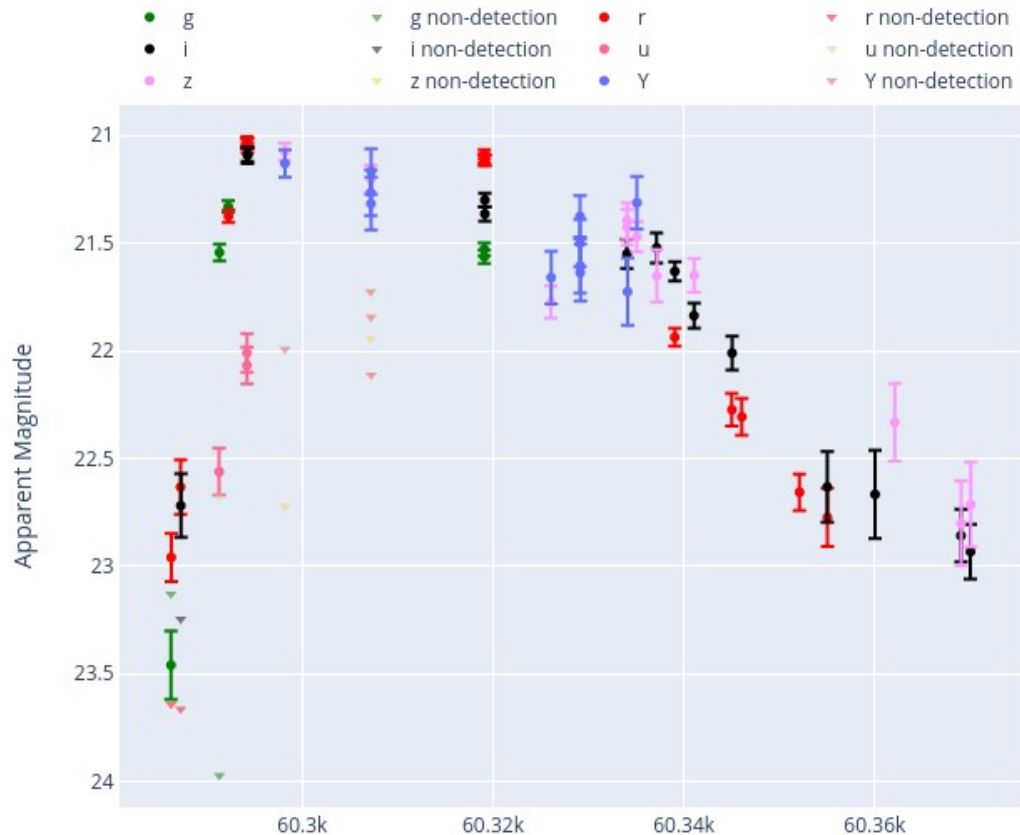
Not Configured

Observe Observations Manage Data Manage Groups Photometry

Spectroscopy

Photometry

Check for new data



ELAsTiCC2

Streaming to brokers near you, July 2023

Next Steps

- Hook up to LSST prompt products database (PPDB) to pull photometry of objects we learn from brokers (simulated, sort of, in ELAsTiCC2).
- Process broker classifications to produce followup priority lists (for both hot transients and host galaxies). (RESSPECT workshop pre-DESC meeting, July 2023.)
- Define telescope communication (API/observation request) for follow-up (using TOM facilities et al.).
- Define telescope communication to pull information about what has been observed (and where available, data).
- Evolve from the current DESC TOM database structure to the DESC-FAST database.