Table 2.1: Confirmed Eruptive YSOs (**bonafide FUor**). Main parameters. (The .fits version of this table is available at http://starformation.synology.me:5002/OYCAT/download.html)

ID	α (J2000)	δ (J2000)	Class	Distance (pc)	A_V (mag)	M ($M_\odot$ yr^{-1})	M_* ($M_\odot$)	L ($L_\odot$)	Year of outburst(s)‡	ΔV	ΔR	ΔG	ΔK	$\Delta W1$	$\Delta W2$	Spectroscopy(λ)	LC	Class	P (d)	reference
RNO1B	00:36:45.99	+63:28:52.96	0/II	930	14.5	8.0×10^{-6}	0.2	1652.0	1978-1990	3.0	–	–	–	–	–	Absorption (O+IR)	FUor	bona fide FUor	–	25,116,166,259
PGIR20dci	00:52:20.21	+56:34:03.90	I	2800	20.0	–	–	11.0	2019	–	–	–	–	4.0	3.8	Absorption (IR)	FUor	bona fide FUor	–	217
LDN1415IRS	04:41:35.94	+54:19:16.87	I	170	–	–	–	–	2001-2006	3.6	–	–	1.5	–	–	Absorption (O)	FUor	bona fide FUor	–	63,257,259
V582 Aur	05:25:52.00	+34:52:30.00	II	1300	5.6	1.4×10^{-4}	1.0	168.0	1984	3.5	3.5	–	–	–	–	Absorption (O+IR)	FUor	bona fide FUor	–	73,109,166,259,276
V883 Ori	05:38:18.10	−07:02:26.00	I	388	22.5	1.1×10^{-4}	1.3	212.0	1883	–	–	–	–	–	–	Absorption (O+IR)	FUor	bona fide FUor	–	28,166,259,276
V2775 Ori	05:42:48.50	−08:16:35.00	FS	428	27.5	1.5×10^{-5}	0.2	29.0	2007	–	–	–	3.8	2.0	2.0	Absorption (IR)	FUor	bona fide FUor	–	83,93,166,170,259,276
FUOr−Aur0544+3330	05:44:52.25	+33:30:09.69	I	1500	1.8	3.3×10^{-6}	0.2	8.4	2020	–	5.1	–	3.5	2.7	2.5	Absorption (O+IR)	FUor	bona fide FUor	–	284
FU Ori	05:45:22.40	+09:04:12.00	II	400	1.5	3.0×10^{-5}	0.6	66.0	1937	5.5	–	–	–	–	–	Absorption (O+IR)	FUor	bona fide FUor	–	1,2,15,29,166,259,276
V900 Mon	06:57:22.20	−08:23:18.00	I	1100	13.5	4.0×10^{-5}	1.0	99.0	1971?	–	4.0	–	–	–	–	Absorption (O+IR)	FUor	bona fide FUor	–	91,98,166,228,259,276
V960 Mon	06:59:31.60	−04:05:28.00	II	1100	1.5	2.5×10^{-5}	0.6	48.0	2013	–	2.6	–	2.0	–	–	Absorption (O+IR)	FUor	bona fide FUor	–	121,128,140,166,221,248,259,276
Gaia20bdk	07:10:14.92	−18:27:01.04	I	3300	5.7	1.0×10^{-5}	2.7	100.0	2018	–	–	2.9	2.1	1.3	1.0	Absorption (O+IR)	FUor	bona fide FUor	–	289
Gaia21elv	08:41:06.75	−40:52:17.44	II	910	5.7	1.0×10^{-5}	1.0	106.0	1993	–	4.0	1.2	–	0.6	0.6	Absorption (O+IR)	FUor	bona fide FUor	–	175,254
WTF10aaauow	10:26:15.99	−58:20:37.67	II	4000	6.0	–	–	260.0	2015	–	–	5.0	–	4.2	3.8	Absorption (O+IR)	FUor	bona fide FUor	–	278
G286.2032+0.1740	10:38:31.44	−58:18:48.20	–	2500	–	–	0.1	–	2015	–	–	–	3.5	–	–	Absorption (IR)	FUor	bona fide FUor	–	188,190
L222_1	11:43:09.47	−62:21:13.21	I	10200	9.3	–	–	–	2015	–	–	–	3.9	–	2.1	Absorption (IR)	FUor	bona fide FUor	–	268,273
VVVv16	12:13:29.76	−62:41:07.70	FS	8200	1.5	–	–	69.2	2010	–	–	–	1.7	1.0	0.7	Absorption (IR)	FUor	bona fide FUor	–	148,149,215
L222_4	12:20:54.04	−62:38:21.91	I	6600	–	–	–	–	2015	–	–	–	6.2	–	4.8	Absorption (IR)	FUor	bona fide FUor	–	268,273
L222_10	13:25:50.28	−62:47:47.00	II	3700	12.7	–	–	–	2013	–	–	–	4.0	–	–	Absorption (IR)	FUor	bona fide FUor	–	268,273
L222_13	13:32:09.69	−62:43:48.18	–	8400	5.9	–	–	–	2016	–	–	–	4.1	–	2.5	Absorption (IR)	FUor	bona fide FUor	–	268,273
L222_15	13:38:11.35	−62:28:57.61	–	1200	5.9	–	–	–	2013	–	–	–	4.8	–	4.0	Absorption (IR)	FUor	bona fide FUor	–	268,273
L222_18	14:16:17.97	−61:22:23.02	FS	2000	14.4	–	–	–	2013	–	–	–	4.0	–	3.8	Absorption (IR)	FUor	bona fide FUor	–	268,273
L222_25	15:21:33.88	−57:53:20.00	–	800	7.6	–	–	–	2014	–	–	–	3.3	–	–	Absorption (IR)	FUor	bona fide FUor	–	268,273
DR4_v20	15:44:26.03	−54:01:38.40	I	4700	5.1	–	–	10.5	2011	–	–	–	3.3	0.7	0.5	Absorption (IR)	FUor	bona fide FUor	–	215
L222_33	15:59:26.28	−51:57:11.81	I	4200	16.1	–	–	–	2012	–	–	–	4.2	–	3.5	Absorption (IR)	FUor	bona fide FUor	–	268,273
VVVv237	16:10:48.22	−51:42:45.00	I	5000	7.7	–	–	81.3	2010?	–	–	–	1.9	0.6	0.4	Absorption (IR)	FUor	bona fide FUor	–	148,149,215
VVVv717	16:36:05.56	−46:40:40.61	FS	6100	13.8	–	–	145.0	2010?	–	–	–	4.2	2.1	0.8	Absorption (IR)	FUor	bona fide FUor	–	148,215
VVVv721	16:39:48.77	−45:48:47.96	I	4900	7.2	–	–	95.0	2010	–	–	–	3.0	2.5	1.8	Absorption (IR)	FUor	bona fide FUor	–	148,215
VVV1640−4846	16:40:11.76	−48:46:53.40	I	2800	16.9	–	–	–	2016	–	–	–	3.2	–	1.9	Absorption (IR)	FUor	bona fide FUor	–	268,273
L222_73	17:14:38.28	−38:29:29.04	I	3800	–	–	–	–	2010	–	–	–	3.9	–	3.4	Absorption (IR)	FUor	bona fide FUor	–	268,273
L222_78	17:18:19.65	−32:22:53.11	–	4200	1.0	1.1×10^{-5}	0.2	16.0	2014	–	–	–	4.6	–	3.3	Absorption (IR)	FUor	bona fide FUor	–	268,269,273
L222_93	17:26:55.26	−34:08:47.80	–	7800	8.5	–	–	–	2013	–	–	–	4.5	–	3.2	Absorption (IR)	FUor	bona fide FUor	–	268,273
L222_95	17:29:08.68	−33:31:46.88	I	6900	15.2	–	–	–	2016	–	–	–	5.3	–	3.3	Absorption (IR)	FUor	bona fide FUor	–	268,273
L222_165	17:49:39.09	−28:26:55.10	–	1600	3.4	–	–	–	2016	–	–	–	4.3	–	3.3	Absorption (IR)	FUor	bona fide FUor	–	268,273
L222_192	17:57:44.46	−24:20:32.78	I	3000	7.6	–	–	–	2017	–	–	–	4.8	–	2.8	Absorption (IR)	FUor	bona fide FUor	–	268,273
UKIDSSJ183421.85−055951.0	18:34:21.85	−05:59:51.01	I/II	2080	8.8	–	–	–	2010	–	–	–	3.2	2.8	–	Absorption (IR)	FUor	bona fide FUor	–	255
WNTR24−egv	18:58:03.51	+01:38:49.07	I	2520	19.0	3.0×10^{-5}	0.6	222.1	2016	–	–	–	–	3.7	2.7	Absorption (IR)	FUor	bona fide FUor	–	222,282,283
SPICY99341	19:11:38.79	+09:02:59.11	II	3000	–	–	–	–	2011	–	–	–	4.0	3.0	2.8	Absorption (IR)	FUor	bona fide FUor	–	249,250
SPICY100587	19:17:17.93	+11:16:32.29	II	–	–	–	–	–	2000-2004	–	–	–	2.6	1.5	1.7	Absorption (IR)	FUor	bona fide FUor	–	249,250
Gaia17bpi	19:31:05.59	+18:27:52.23	II?	1270	3.0	2.0×10^{-7}	0.6	7.5	2015	–	–	3.5	–	3.0	3.0	Absorption (O+IR)	FUor	bona fide FUor	–	168,276
Gaia18dvy	20:05:06.03	+36:29:13.59	II	1880	3.0	7.0×10^{-6}	1.0	175.0	2018	4.3	4.2	4.0	3.7	2.0	1.5	Absorption (O+IR)	FUor	bona fide FUor	–	207,259,276
V1515 Cyg	20:23:48.00	+42:12:26.00	I	1050	3.5	1.2×10^{-5}	0.3	103.0	1950	4.0	–	–	–	–	–	Absorption (O+IR)	FUor	bona fide FUor	–	7,37,116,166,243,276
SPICY111892	20:32:05.28	+42:48:47.88	I	1400	–	–	–	–	2000-2006	–	–	–	4.0	–	–	Absorption (IR)	FUor	bona fide FUor	–	126,156,285
HBC722	20:58:17.00	+43:53:43.00	II	550	3.7	1.3×10^{-5}	0.7	17.0	2010	4.0	4.2	–	3.6	2.5	2.0	Absorption (O+IR)	FUor	bona fide FUor	–	78,79,81,85,86,90,141,166,259,276
V2494 Cyg	20:58:21.40	+52:29:27.00	I	600	17.5	–	–	187.0	1952-1983	–	2.6	–	–	2.0	2.0	Absorption (O+IR)	FUor	bona fide FUor	–	32,77,104,166
V1057 Cyg	20:58:53.70	+44:15:29.00	FS	550	3.9	1.0×10^{-4}	1.0	100.0	1969	6.0	–	–	–	–	–	Absorption (O+IR)	FUor	bona fide FUor	–	3,4,166,175,230,276
V2495 Cyg	21:00:25.40	+52:30:16.00	FS	600	49.5	–	–	21.0	2000	–	6.0	–	4.5	–	–	Absorption (O+IR)	FUor	bona fide FUor	–	52,166,259
SSTgbs J21470601+4739394	21:47:06.02	+47:39:39.24	I	783	50.0	7.0×10^{-7}	0.2	0.9	2014	–	–	–	1.9	1.8	1.8	Absorption (IR)	FUor	bona fide FUor	–	263
V1735 Cyg	21:47:20.70	+47:32:04.00	II	950	12.5	5.0×10^{-5}	1.0	166.0	1952-1965	–	5.0	–	–	–	–	Absorption (O+IR)	FUor	bona fide FUor	–	9,37,72,166,259,276
V733 Cep	22:53:33.30	+62:32:24.00	II	800	11.5	4.4×10^{-6}	0.5	43.0	1953-1984	–	4.5	–	–	–	–	Absorption (O+IR)	FUor	bona fide FUor	–	47,62,80,166,259,276

‡ **Year1,Year2,Year3**: Outbursts in Year1, Year2 and Year3; **Year1-Year2**: Outburst ocurred somewhere between Year1 and Year2; **Year1?**: The exact year of outburst is uncertain; **¡Year1**: The outburst happened at some time earlier than Year1; **?**: No outburst recorded; **mYear1,Year2,Year3**: Many outbursts have been observed, some of them occurred in Year1, Year2 and Year3; **Year1p**: The source shows periodic outbursts, one of them was observed in Year1

Table 2.2: Confirmed Eruptive YSOs (**FUor-like**). Main parameters. (The .fits version of this table is available at http://starformation.synology.me:5002/OYCAT/download.html)

ID	α (J2000)	δ (J2000)	Class	Distance (pc)	A_V (mag)	M ($M_\odot$ yr^{-1})	M_* ($M_\odot$)	L ($L_\odot$)	Year of outburst(s)‡	ΔV	ΔR	ΔG	ΔK	$\Delta W1$	$\Delta W2$	Spectroscopy(λ)	LC	Class	P (d)	reference
RNO1C	00:36:46.60	+63:28:57.60	II	930	19.5	8.0×10^{-6}	0.2	1652.0	?	–	–	–	–	–	–	Absorption (IR)	No outburst recorded	FUor-like	–	27,92,116,166,259
PP13S	04:10:41.10	+38:07:53.00	I	450	56.5	8.0×10^{-5}	0.6	51.0	?	–	–	–	–	–	–	Absorption (IR)	No outburst recorded	FUor-like	–	33,36,116,166,259
L1551IRS5	04:31:34.20	+18:08:05.00	I	147	25.5	3.0×10^{-7}	1.5	29.0	?	–	–	–	–	–	–	Absorption (O+IR)	No outburst recorded	FUor-like	–	16,116,166,259
Haro5a/6a	05:35:26.60	−05:03:56.00	0/I	388	57.5	–	–	18.0	?	–	–	–	–	–	–	Absorption (IR)	No outburst recorded	FUor-like	–	32,166,259
RNO54	05:42:21.24	+22:36:47.30	I	1400	4.2	3.0×10^{-4}	0.2	137.0	?	–	–	–	–	–	–	Absorption (O+IR)	No outburst recorded	FUor-like	–	20,252,253,276
IRAS05450+0019	05:47:36.60	+00:20:06.00	I	388	31.5	–	–	35.0	?	–	–	–	–	–	–	Absorption (IR)	No outburst recorded	FUor-like	–	77,97,166
V565 Mon	06:58:02.70	−07:56:43.60	II	1150	3.0	–	–	130.0	?	–	–	–	–	–	0.4	Absorption (O+IR)	No outburst recorded	FUor-like	–	209,249
Z CMa(SE)	07:03:43.20	−11:33:06.00	I	990	7.1	–	–	3548.0	?	–	–	–	–	–	–	Absorption (O+IR)	No outburst recorded	FUor-like	–	22,146,166,259
BBW76	07:50:35.60	−33:06:24.00	II	1800	1.6	4.0×10^{-5}	0.8	114.0	?	–	–	–	–	–	–	Absorption (O+IR)	No outburst recorded	FUor-like	–	17,39,166,205,276
SPICY15470	13:01:20.71	−62:20:01.61	II	3060	–	–	–	–	?	–	–	–	–	–	–	Absorption (IR)	No outburst recorded	FUor-like	–	222,282
SPICY35235	16:18:24.82	−48:54:32.13	II	–	–	–	–	–	?	–	–	–	–	–	–	Absorption (IR)	No outburst recorded	FUor-like	–	222,282
IRAS16316−1540	16:34:29.29	−15:47:00.96	I	125	3.1	–	0.3	2.5	?	–	–	–	–	–	–	Absorption (IR)	No outburst recorded	FUor-like	–	95,117,231
SPICY57130	17:34:23.08	−30:52:23.33	II	–	–	–	–	–	?	–	–	–	–	–	–	Absorption (IR)	No outburst recorded	FUor-like	–	222,282
SPICY65417	17:48:26.32	−24:07:33.22	II	7390	–	–	–	–	?	–	–	–	–	–	–	Absorption (IR)	No outburst recorded	FUor-like	–	222,282
SPICY68600	17:55:01.01	−28:01:27.37	II	4290	–	–	–	–	?	–	–	–	–	–	–	Absorption (IR)	No outburst recorded	FUor-like	–	222,282
SPICY68696	17:55:15.33	−28:52:58.28	II	6960	–	–	–	–	?	–	–	–	–	–	–	Absorption (IR)	No outburst recorded	FUor-like	–	222,282
Parsamian21	19:29:00.80	+09:38:43.00	FS	500	2.5	–	–	16.0	?	–	–	–	–	–	–	Absorption (O+IR)	No outburst recorded	FUor-like	–	26,81,166,221,259
SPICY109102	20:23:57.09	+38:51:39.72	FS	–	–	–	–	–	?	–	–	–	–	–	–	Absorption (IR)	No outburst recorded	FUor-like	–	222,282
CB230	21:17:38.62	+68:17:33.97	0/I	300	26.5	–	0.6	6.6	?	–	–	–	–	–	–	Absorption (IR)	No outburst recorded	FUor-like	–	67,166,259
HH354IRS	22:06:50.20	+59:02:45.00	0/I	300	31.5	–	–	16.0	?	–	–	–	–	–	–	Absorption (IR)	No outburst recorded	FUor-like	–	32,166,259

‡ **Year1,Year2,Year3**: Outbursts in Year1, Year2 and Year3; **Year1-Year2**: Outburst ocurred somewhere between Year1 and Year2; **Year1?**: The exact year of outburst is uncertain; **¡Year1**: The outburst happened at some time earlier than Year1; **?**: No outburst recorded; **mYear1,Year2,Year3**: Many outbursts have been observed, some of them occurred in Year1, Year2 and Year3; **Year1p**: The source shows periodic outbursts, one of them was observed in Year1

Table 2.3: Confirmed Eruptive YSOs (**EX Lupi-type**). Main parameters. (The .fits version of this table is available at http://starformation.synology.me:5002/OYCAT/download.html)

ID	α (J2000)	δ (J2000)	Class	Distance (pc)	A_V (mag)	M ($M_\odot$ yr^{-1})	M_* ($M_\odot$)	L ($L_\odot$)	Year of outburst(s)‡	ΔV	ΔR	ΔG	ΔK	$\Delta W1$	$\Delta W2$	Spectroscopy(λ)	LC	Class	P (d)	reference
XZ Tau†	04:31:40.07	+18:13:57.20	II	150	3.0	1.0×10^{-6}	0.4	10.7	m1930?,1990,2014	6.2	–	–	–	–	–	Emission (O+IR)	EXLupi	EX Lupi-type	–	42,44,60,71,236,259
UZ Tau E†	04:32:43.07	+25:52:31.00	II	140	1.0	3.0×10^{-7}	0.3	1.7	m2006,2022	3.3	–	–	–	–	–	Emission (O+IR)	EXLupi	EX Lupi-type	–	7,38,96,236,259
VY Tau†	04:39:17.41	+22:47:53.40	II	153	0.9	–	0.4	–	m1960,2013,2014	6.3	–	–	–	–	–	Emission (O+IR)	EXLupi	EX Lupi-type	–	7,96,138,236,259
DR Tau†	04:47:06.21	+16:58:42.80	II	193	1.2	9.0×10^{-7}	0.9	5.0	1978	5.5	2.0	–	–	–	–	Emission (O+IR)	EXLupi	EX Lupi-type	–	11,96,236,259,276,277
V1118 Ori†	05:34:44.74	−05:33:42.18	II	414	2.4	1.1×10^{-6}	0.3	25.4	m1982,1990	4.7	4.3	–	2.1	–	–	Emission (O+IR)	EXLupi	EX Lupi-type	–	23,60,76,152,155,259
NY Ori†	05:35:36.01	−05:12:25.30	II	404	0.3	–	1.0	–	m2001	3.0	–	–	–	–	–	Emission (O+IR)	EXLupi	EX Lupi-type	–	23,96,97,236
V1143 Ori†	05:38:03.90	−04:16:42.83	II	395	–	–	0.5	–	m1981,1991	3.2	–	–	–	–	–	Emission (O+IR)	EXLupi	EX Lupi-type	–	23,96,155,236,259
V557 Mon	06:33:31.31	+04:52:37.24	II	1440	2.5	–	–	–	2024	–	–	3.3	–	–	–	Emission (IR)	EXLupi?	EX Lupi-type	–	281
GM Cha	11:09:28.50	−76:33:28.00	I	191	13.0	1.0×10^{-7}	0.6	1.6	1998,2019	–	–	–	2.0	2.9	3.9	Emission (IR)	EXLupi	EX Lupi-type	–	61,249
EX Lupi	16:03:05.49	−40:18:25.43	II	155	0.1	5.0×10^{-7}	0.8	2.0	1945,1955,2008	5.0	–	–	–	–	–	Emission (O+IR)	EXLupi	EX Lupi-type	–	7,75,86,261,276
VVVv309	16:40:58.19	−47:06:31.93	I	2800	12.0	–	–	224.0	2010?,2012	–	–	–	2.6	1.0	0.8	Emission (IR)	EXLupi	EX Lupi-type	–	148,149,215
V1741 Sgr	18:02:14.27	−24:03:46.84	II	1260	1.4	6.0×10^{-7}	0.8	5.0	2022	–	2.7	2.8	1.8	0.8	1.0	Emission (O+IR)	EXLupi	EX Lupi-type	–	240,271
Gaia23bab	19:04:26.68	+04:23:57.00	II	900	3.2	2.7×10^{-7}	0.4	1.4	2017,2023	2.8	2.7	2.3	–	1.6	1.7	Emission (O+IR)	EXLupi	EX Lupi-type	–	267,276,286
Gaia20eae	19:25:40.62	+15:07:46.56	II	2830	4.7	1.6×10^{-5}	1.1	204.0	2013,2020	–	4.0	4.0	–	1.5	1.5	Emission (O+IR)	EXLupi	EX Lupi-type	–	196,233,235,276
PV Cep†	20:45:53.94	+67:57:38.70	I	356	11.4	5.0×10^{-6}	3.2	100.0	1977,1979,2008	3.4	3.0	–	–	–	–	Emission (O+IR)	EXLupi?	EX Lupi-type	–	23,89,96,100,236
GM Cep	21:38:17.33	+57:31:22.01	II	900	3.0	3.0×10^{-7}	2.1	40.0	1986,2003,2007	2.1	2.0	–	–	–	–	Emission (O)	EXLupi	EX Lupi-type	–	68,96

† Objects in the EX-Lupi type class that are defined as "historical" (see main text).
‡ **Year1,Year2,Year3**: Outbursts in Year1, Year2 and Year3; **Year1-Year2**: Outburst ocurred somewhere between Year1 and Year2; **Year1?**: The exact year of outburst is uncertain; **¡Year1**: The outburst happened at some time earlier than Year1; ?: No outburst recorded; **mYear1,Year2,Year3**: Many outbursts have been observed, some of them occurred in Year1, Year2 and Year3; **Year1p**: The source shows periodic outbursts, one of them was observed in Year1

Table 2.4: Confirmed Eruptive YSOs (**PVM**). Main parameters. (The .fits version of this table is available at http://starformation.synology.me:5002/OYCAT/download.html)

ID	α (J2000)	δ (J2000)	Class	Distance (pc)	A_V (mag)	M ($M_\odot$ yr^{-1})	M_* ($M_\odot$)	L ($L_\odot$)	Year of outburst(s)‡	ΔV	ΔR	ΔG	ΔK	$\Delta W1$	$\Delta W2$	Spectroscopy(λ)	LC	Class	P (d)	reference
V1180 Cas	02:33:01.54	+72:43:26.81	I	600	3.3	3.0×10^{-8}	0.8	–	2000,2004,2011,2020	5.3	4.0	–	1.0	–	–	Emission (O+IR)	Intermediate	PVM	–	88,111,112,241,259
LDN1455IRS3	03:28:00.30	+30:08:01.00	I	300	5.9	–	–	–	2014,2016,2022	–	–	–	–	2.7	2.2	Absorption (IR)	Intermediate	PVM	–	102,226,249
SVS13	03:29:03.75	+31:16:03.90	I	275	10.0	–	0.6	–	1988-1992	–	3.0	–	1.5	1.3	1.3	Emission (O+IR)	FUor	PVM	–	5,13,24,96,234,259
[LAL96] 213	03:29:07.70	+31:21:57.00	I	300	5.9	–	1.7	25.9	¡2004	–	–	–	1.8	2.9	3.5	Featureless+Outflow/HI (IR)	Intermediate	PVM	–	31,102,192,244,249
ASASSN−13db	05:10:11.08	−03:28:26.30	II	387	–	2.0×10^{-7}	0.2	0.6	2013,2014	4.0	3.0	–	–	4.0	4.3	Emission (O)	Intermediate	PVM	–	118,160,236,276
HOPS154	05:38:20.10	−06:59:04.90	I	389	0.1	–	–	–	2014,2016,2020	–	–	–	–	2.5	2.1	Absorption (IR)	EXLupi	PVM	–	139,226,249
HBC494	05:40:27.45	−07:27:30.06	I	460	30.0	3.0×10^{-5}	1.0	250.0	?	–	–	–	–	–	–	Absorption/Featureless? (O+IR)	Nooutburstrecorded	PVM	–	19,28,113,116,125,159,259
HOPS267	05:41:19.70	−07:50:41.00	I	429	16.4	–	–	–	2020	–	–	–	–	5.0	5.0	Emission (IR)	FUor?	PVM	–	139,226,249
HOPS315	05:46:03.60	−00:14:49.20	I	427	9.3	–	–	–	2021	–	–	–	–	1.5	1.2	Emission (IR)	Intermediate?	PVM	–	139,226,249
V1647 Ori	05:46:13.10	−00:06:05.00	FS	388	22.5	1.0×10^{-5}	0.5	21.0	1966,2003,2008	–	–	–	2.3	3.1	3.0	Emission/Absorption (O+IR)	Intermediate	PVM	–	43,45,48,49,50,51,53,56,57,82,99,166,208,259,276
HOPS373	05:46:30.65	−00:02:34.97	0	428	70.0	–	0.3	–	2019,2020	–	–	–	0.4	1.1	0.5	Featureless+Outflow (IR)	Intermediate	PVM	–	245
V899 Mon	06:09:19.24	−06:41:55.89	II	809	2.6	5.0×10^{-7}	2.7	150.0	2010,2012	4.0	3.7	–	2.0	2.0	2.0	Emission (O+IR)	FUor	PVM	–	74,226,227,259,275,276
IRAS06297+1021W	06:32:26.10	+10:19:18.00	I	738	10.3	–	–	31.0	?	–	–	–	–	–	–	Emission (IR)	Nooutburstrecorded	PVM	–	77,166,259
Gaia18cjb	06:39:07.54	+00:08:54.49	I	1030	0.9	1.0×10^{-7}	1.5	2.2	2014	–	–	4.6	0.7	0.6	0.4	Featureless+Outflow/HI (O+IR)	FUor	PVM	–	266
AR6b	06:40:59.30	+09:35:52.00	II	738	28.5	1.0×10^{-6}	0.9	310.0	?	–	–	–	–	–	–	Absorption? (IR)	Nooutburstrecorded	PVM	–	40,116,166,259
AR6a	06:40:59.30	+09:35:52.00	II	738	20.5	4.3×10^{-6}	0.8	310.0	?	–	–	–	–	–	–	Absorption/Featureless (IR)	Nooutburstrecorded	PVM	–	40,116,166,259
J064722.95+031644.6	06:47:22.95	+03:16:44.56	I	3500	–	1.0×10^{-5}	1.0	400.0	2016	–	–	–	–	6.7	6.7	Featureless+Outflow (IR)	FUor	PVM	–	261,262
Z CMa(NW)	07:03:43.20	−11:33:06.00	I	990	7.1	1.0×10^{-4}	7.0	3548.0	2003,2004,2005,2008,2022	–	–	–	–	–	–	Emission (O+IR)	EXLupi	PVM	–	22,146,166,204,259
Gaia19fct	07:09:21.40	−10:29:34.49	I	1316	8.0	2.6×10^{-7}	0.4	5.7	2015,2016,2018,2019,2021	5.0	4.0	–	3.5	3.5	3.1	Emission/Absorption (0+IR)	EXLupi	PVM	–	130,236,242,259,276
ESOHalpha99	08:38:55.17	−40:41:17.34	FS	1010	–	–	–	–	2018	–	–	3.0	1.8	1.8	2.0	Emission (O+IR)	Intermediate	PVM	–	177
VVVv20	12:28:27.97	−62:57:13.97	I	2500	11.9	–	–	93.3	2010,2012,2013	–	–	–	1.7	1.0	0.6	Emission (IR)	Intermediate	PVM	–	148,215
VVVv452	12:41:58.06	−62:13:42.90	FS	2800	6.9	–	–	13.2	2010,2020	–	–	–	3.5	3.2	2.6	Emission (IR)	Intermediate	PVM	–	148,215
L222.6	12:54:57.41	−61:02:39.01	I	3200	20.3	–	–	–	2016	–	–	–	4.0	–	0.6	Featureless+Outflow/HI? (IR)	FUor	PVM	–	268,273
Stim1	12:57:44.23	−62:15:06.40	I	10500	3.4	–	–	295.0	2011	–	–	–	2.5	2.3	1.7	Emission (IR)	Intermediate	PVM	–	215
VVVv473	13:10:57.49	−62:35:22.34	I	3700	18.7	–	–	49.0	2010,2011,2013,2015	–	–	–	1.5	1.0	0.6	Featureless+Outflow (IR)	EXLupi	PVM	–	148,195,215
DR4_v5	13:29:26.28	−62:23:26.50	I	1800	9.7	–	–	17.0	2010,2012	–	–	–	4.0	1.0	0.5	Emission (IR)	Intermediate	PVM	–	215
SPICY21349	14:12:48.75	−61:22:50.60	II	3540	–	–	–	–	?	–	–	–	–	–	–	Emission (IR)	Nooutburstrecorded	PVM	–	222,282
WISEAJ142238.82−611553	14:22:38.83	−61:15:53.71	I	2720	21.0	1.0×10^{-4}	0.6	178.0	2006-2010	–	–	–	6.0	8.0	8.0	Featureless+Outflow (IR)	FUor	PVM	–	203
VVVv94	14:22:57.76	−61:05:47.03	FS	3500	–	–	–	36.3	2011	–	–	–	1.3	1.5	1.6	Emission (IR)	Intermediate	PVM	–	148,215
DR4_v10	14:25:13.98	−60:20:20.00	I	4200	9.0	–	–	7.4	2011	–	–	–	3.6	2.1	1.8	Emission (IR)	Intermediate	PVM	–	215
VVVv815	14:26:04.95	−60:41:16.81	I	3100	4.1	–	–	19.1	2010	–	–	–	1.2	0.9	0.7	Featureless+Outflow (IR)	Intermediate	PVM	–	148,195,215
VVVv562	14:53:33.59	−59:10:21.73	FS	2900	8.1	–	–	9.3	2005-2010,2023	–	–	–	2.7	2.0	2.3	Featureless+Outflow/HI (IR)	Intermediate	PVM	–	148,215
VVVv128	14:58:29.67	−59:09:40.29	I	2600	8.4	–	–	20.0	¡1999,2010	–	–	–	1.8	1.4	1.1	Featureless+Outflow/HI (IR)	Intermediate	PVM	–	148,149,215
DR4_v15	15:07:11.11	−58:50:32.90	I	4300	28.0	–	–	162.0	2011,2016?	–	–	–	3.6	2.2	2.3	Featureless+Outflow (IR)	Intermediate	PVM	–	215
L222_28	15:30:17.93	−55:34:55.31	FS	900	4.6	–	–	–	¡1999,2015	–	–	–	4.5	3.4	2.2	Featureless+HI? (IR)	Intermediate	PVM	–	215,268,273
VVVv618	15:42:54.67	−55:00:52.84	FS	–	6.5	–	–	–	m2010,2012,2018	–	–	–	1.3	0.7	0.8	Featureless+Outflow (IR)	EXLupi	PVM	–	148,149,215
VVVv621	15:43:12.04	−54:23:08.80	FS	–	10.7	–	–	–	2012	–	–	–	1.9	–	0.5	Featureless+HI (IR)	Intermediate	PVM	–	148,149,215
VVVv631	15:45:18.36	−54:10:36.87	I	2300	6.2	–	–	40.7	2010	–	–	–	2.8	1.9	1.9	Emission/Absorption (IR)	Intermediate	PVM	–	148,195,215,290
L222_32	15:57:50.37	−53:57:34.70	I	2800	12.7	–	–	–	2013,2016	–	–	–	4.2	–	0.4	Featureless+Outflow (IR)	FUor	PVM	–	268,273
L222_37	16:07:07.04	−49:24:09.40	I	–	–	–	–	–	2011	–	–	–	4.3	–	2.6	Featureless+Outflow (IR)	FUor	PVM	–	268,273
VVVv665	16:09:57.70	−50:48:09.42	I	4300	11.9	–	–	85.1	2011,2014	–	–	–	1.6	1.0	0.7	Emission (IR)	Intermediate	PVM	–	148,195,215
VVVv662	16:10:26.82	−51:22:34.13	I	3100	–	–	–	12.9	2011,2014	–	–	–	1.6	1.3	0.9	Featureless+Outflow/HI (IR)	Intermediate	PVM	–	148,195,215
Stim5	16:12:14.38	−51:56:24.60	I	5100	7.8	–	–	25.7	2010	–	–	–	3.8	1.3	1.7	Emission (IR)	Intermediate	PVM	–	215
Stim13	16:19:10.80	−51:03:53.00	I	2700	10.3	–	–	537.0	2012	–	–	–	1.5	0.3	0.2	Featureless+Outflow/HI (IR)	Intermediate	PVM	–	215
VVVv270	16:23:27.14	−49:44:43.96	I	4600	13.1	–	–	61.7	2012	–	–	–	3.7	2.7	1.1	Emission (IR)	Intermediate	PVM	–	148,215
VVVv699	16:23:44.34	−48:54:55.29	I	4900	8.9	–	–	74.1	2011,2018	–	–	–	1.9	0.5	0.6	Emission (IR)	Intermediate	PVM	–	148,195,215
DR4_v34	16:29:06.99	−48:51:16.90	FS	4000	11.0	–	–	87.1	2012	–	–	–	3.6	0.5	0.6	Emission (IR)	Intermediate	PVM	–	215
V346 Nor	16:32:32.10	−44:55:31.00	I	700	46.5	4.5×10^{-5}	1.0	176.0	1980,2012	–	–	–	5.0	3.4	3.0	Featureless+Outflow (O+IR)	FUor	PVM	–	14,17,18,116,166,199,276
VVVv713	16:33:52.79	−46:52:18.51	FS	3500	1.6	–	–	38.0	¡2004,2017	–	–	–	2.0	0.4	0.6	Emission (IR)	Intermediate	PVM	–	148,149,215
VVV1636−4744	16:36:37.94	−47:44:44.09	I	2600	–	–	–	–	2011,2016	–	–	–	3.7	–	–	Featureless+HI? (IR)	Intermediate	PVM	–	268,273
VVVv322	16:46:24.57	−45:59:21.04	I	3800	3.8	–	–	–	2012	–	–	–	3.0	2.0	1.5	Absorption (IR)	Intermediate	PVM	–	148,195,215
DR4_v39	16:46:30.13	−46:04:39.70	I	4600	7.6	–	–	35.5	2010?,2013	–	–	–	2.3	2.4	1.3	Emission (IR)	Intermediate	PVM	–	215
DR4_v42	16:50:14.77	−44:03:30.70	I	6000	9.4	–	–	69.2	2011,2016	–	–	–	3.4	2.9	2.0	Emission (IR)	Intermediate	PVM	–	215
SPICY42901	16:51:57.75	−45:42:39.29	FS	2330	–	–	–	–	?	–	–	–	–	–	–	Emission (IR)	Nooutburstrecorded	PVM	–	222,282
DR4_v44	16:52:04.42	−43:33:26.00	I	3900	8.9	–	–	12.9	2010,2012	–	–	–	3.6	2.0	1.0	Emission (IR)	Intermediate	PVM	–	215
VVVv374	16:58:33.99	−42:49:55.25	I	2900	8.8	–	–	295.0	¡1999,2011	–	–	–	3.0	0.8	0.9	Emission (IR)	Intermediate	PVM	–	148,195,215
VVVv376	16:58:44.44	−42:47:36.58	II	1200	7.6	–	–	0.9	¡1999	–	–	–	1.7	1.3	1.1	Featureless+HI (IR)	Intermediate	PVM	–	148,149,215
VVVv389	17:03:17.18	−42:25:49.88	I	4300	7.7	–	–	63.0	¡1999,2015,2018	–	–	–	1.4	0.9	0.7	Featureless+Outflow/HI (IR)	Intermediate	PVM	–	148,149,215
VVVv800	17:12:46.04	−38:25:24.63	I	1400	10.0	–	–	282.0	2011,2017	–	–	–	3.2	2.0	1.9	Featureless+Outflow/HI (IR)	Intermediate	PVM	–	148,195,215
Gaia21hty	17:25:14.19	−37:08:14.17	II	1700	8.0	2.5×10^{-5}	0.2	43.0	2020	1.3	–	2.9	2.2	1.7	1.6	Absorption (O+IR)	EXLupi	PVM	–	218,258
DR4_v67	17:41:31.14	−31:26:12.10	I	4500	10.2	–	–	102.0	2012	–	–	–	5.3	2.5	1.5	Featureless+Outflow (IR)	Intermediate	PVM	–	215
L222_148	17:46:33.83	−29:22:45.19	I	8300	11.9	–	–	–	2016	–	–	–	4.5	–	0.7	Emission (IR)	FUor	PVM	–	268,273
L222_167	17:50:26.25	−28:52:30.68	I	7800	4.2	–	–	–	2015	–	–	–	5.7	–	1.7	Emission (IR)	FUor	PVM	–	268,273
DR4_v89	17:53:15.66	−27:03:05.54	I	2300	20.2	–	–	30.9	2011,2018	–	–	–	3.0	–	0.2	Featureless+Outflow (IR)	Intermediate	PVM	–	215
L222_210	18:07:38.48	−21:46:09.59	I	5000	0.8	–	–	–	2014	–	–	–	3.6	–	1.0	Featureless+Outflow (IR)	FUor	PVM	–	268,273
GPSV5	18:15:56.91	−11:41:13.82	FS	2000	–	–	2.2	–	¡1999	–	–	–	1.2	1.9	2.4	Absorption (IR)	Intermediate	PVM	–	114,156
IRAS18270−0153W	18:29:38.95	−01:51:06.00	I	436	41.5	–	–	30.0	?	–	–	–	–	–	–	Absorption/Featureless (IR)	Nooutburstrecorded	PVM	–	77,166,259
OO Ser	18:29:49.13	+01:16:20.65	I	311	42.0	5.0×10^{-5}	0.7	32.0	1995	–	–	–	5.0	0.5	0.5	Featureless (IR)	FUor	PVM	–	30,58,94,116,221,259
IRAS18341−0113S	18:36:46.50	−01:10:42.00	I	259	31.5	–	–	0.8	?	–	–	–	–	–	–	Absorption/Featureless (IR)	Nooutburstrecorded	PVM	–	77,166,259
UKIDSSJ185318.36+012454	18:53:18.36	+01:24:54.53	I	2500	30.0	2.6×10^{-4}	3.9	111.0	2003-2006	–	–	–	5.0	–	–	Emission (IR)	Intermediate	PVM	–	158
SPICY97855	19:05:26.31	+05:57:34.87	FS	–	–	–	–	–	2021	–	–	–	–	3.2	2.8	Absorption (IR)	FUor?	PVM	–	249,250
GPSV16	20:13:10.31	+33:31:28.17	I	–	–	–	1.2	–	2005-2008,2023	–	–	–	2.2	1.8	1.5	Emission (IR)	Intermediate	PVM	–	114,156
V1686 Cyg	20:20:29.36	+41:21:28.50	FS	1253	2.5	–	2.2	22.0	1980?,2016	2.5	2.5	–	–	–	–	Absorption? (O)	EXLupi	PVM	–	12,70,172,184,216,260
V1318 Cyg	20:20:30.59	+41:21:26.37	I	900	8.0	1.0×10^{-4}	6.0	880.0	2006-2010	–	5.0	–	–	1.3	1.2	Emission (O+IR)	Intermediate	PVM	–	34,65,179,238
SPICY109331	20:24:32.55	+37:49:49.22	I	3840	–	–	–	–	2017	–	–	–	–	3.3	2.4	Emission (IR)	Intermediate?	PVM	–	249,250
Gaia19bey	20:40:44.39	+46:53:21.34	I	1400	12.0	1.6×10^{-5}	–	182.0	2016	–	4.0	5.0	2.0	1.5	0.8	Emission (O+IR)	Intermediate	PVM	–	198,276
V2492 Cyg	20:51:26.23	+44:05:23.80	I	520	9.0	3.7×10^{-7}	0.7	2.5	2006-2010	–	10.0	–	3.0	1.1	1.2	Emission (O+IR)	Periodic?	PVM	220.0	84,103,276
2MASSJ21013280+6811204	21:01:32.80	+68:11:20.00	I	341	5.4	–	–	–	2019	–	–	–	–	2.2	2.6	Absorption (IR)	Intermediate	PVM	–	102,226,249
NWISE−F213723.5+665145	21:37:23.5	+66:51:45	I	–	50.0	–	–	–	2010-2014	–	–	–	–	1.0	2.0	Featureless/Absorption? (O+IR)	FUor	PVM	–	186,191,197,206
V350 Cep	21:43:00.01	+66:11:28.0	I	872	2.0	–	–	3.3	1978	4.5	–	–	–	–	–	Emission (O+IR)	FUor	PVM	–	6,46,119,209,210,236
2MASSJ2352345+7517076	22:35:23.46	+75:17:07.60	I	350	9.4	1.1×10^{-4}	1.8	165.0	1993-1998	–	–	–	5.0	4.0	3.5	Featureless+Outflow/HI (O+IR)	FUor	PVM	–	132,178

† **Year1,Year2,Year3**: Outbursts in Year1, Year2 and Year3; **Year1-Year2**: Outburst ocurred somewhere between Year1 and Year2; **Year1?**: The exact year of outburst is uncertain; **¡Year1**: The outburst happened at some time earlier than Year1; ?: No outburst recorded; **mYear1,Year2,Year3**: Many outbursts have been observed, some of them occurred in Year1, Year2 and Year3; **Year1p**: The source shows periodic outbursts, one of them was observed in Year1

Table 2.5: Confirmed Eruptive YSOs (**Periodic**). Main parameters. (The .fits version of this table is available at http://starformation.synology.me:5002/OYCAT/download.html)

ID	α (J2000)	δ (J2000)	Class	Distance (pc)	A_V (mag)	M ($M_\odot$ yr^{-1})	M_* ($M_\odot$)	L ($L_\odot$)	Year of outburst(s)‡	ΔV	ΔR	ΔG	ΔK	$\Delta W1$	$\Delta W2$	Spectroscopy(λ)	LC	Class	P (d)	reference
LRLL54631	03:43:51.02	+32:03:08.1	0	294	5.9	1.0×10^{-6}	0.2	2.7	2004p	–	–	–	–	3.0	2.8	Emission (IR)	Periodic	Periodic	25.3	102,106,183,272
V347 Aur	04:56:57.02	+51:30:50.88	FS	200	3.0	1.1×10^{-6}	0.3	4.3	1953p	4.0	4.0	–	–	–	–	Emission (O)	Periodic	Periodic	160.0	8,10,193,276
L1634IRS7	05:19:51.80	−05:52:08.98	I	404	–	–	0.5	–	2011p	–	–	–	2.0	1.2	1.1	Emission (IR)	Periodic	Periodic	37.1	129,176
VVVv32	12:43:57.15	−62:54:45.09	FS	1900	4.2	–	–	5.6	2010p	–	–	–	2.5	1.2	1.2	Emission (IR)	Periodic	Periodic	1437.0	148,215,237
VVV_PB_5	12:54:19.18	−61:38:38.55	I	–	–	–	–	–	2011p	–	–	–	3.1	1.9	1.6	Emission (IR)	Periodic	Periodic	885.3	237
DR4_v55	17:29:02.42	−34:00:36.20	I	3400	32.1	–	–	1096.0	2010p	–	–	–	3.6	2.4	2.6	Outflow (IR)	Periodic	Periodic	978.0	215,237
VVV_PB_52	17:56:31.31	−25:35:36.55	FS	–	–	–	–	–	2010p	–	–	–	2.4	3.2	2.7	Emission (IR)	Periodic	Periodic	421.7	237
V371 Ser	18:29:51.20	+01:16:39.00	I	429	47.5	8.0×10^{-6}	0.3	1.6	1994p	–	–	–	1.5	1.7	1.9	Absorption (IR)	Periodic	Periodic	530.0	35,161,166,185,200,201

‡ **Year1,Year2,Year3**: Outbursts in Year1, Year2 and Year3; **Year1-Year2**: Outburst ocurred somewhere between Year1 and Year2; **Year1?**: The exact year of outburst is uncertain; **¡Year1**: The outburst happened at some time earlier than Year1; **?**: No outburst recorded; **mYear1,Year2,Year3**: Many outbursts have been observed, some of them occurred in Year1, Year2 and Year3; **Year1p**: The source shows periodic outbursts, one of them was observed in Year1

Table 3.1: Confirmed Eruptive YSOs (**bonafide FUors**). Latest available photometry. (The .fits version of this table is available at http://starformation.synology.me:5002/OYCAT/download.html)

		Optical				Near-IR				Mid-IR				Far-IR/Sub-mm				
ID	in outburst?	MJD	Mag	Band	state	MJD	Mag	Band	state	MJD	Mag	Band	state	MJD	Flux (Jy)	Band (μm)	state	References
RNO1B	Y	60488.3	19.1	ZTF r	Out.	57262.0	8.3	K	Out.	60161.8	4.7	WISE W2	Out.	50934.0	6.6	850	Out.	37,122,163,166
PGIR20dci	Y	59907.2	19.8	ZTF i	Out.	59481.0	11.6	K	Out.	60158.2	8.9	WISE W2	Out.	55411.0	0.4	22	Quiesc.	122,163,213,239
LDN1415IRS	Y	59578.0	17.7	R	Out.	59580.0	12.0	K	Out.	60198.4	9.5	WISE W2	Out.	45517.0	1.4	60	Quiesc.	21,122,257
V582 Aur	Y	60403.2	14.7	ZTF r	Out.	58432.7	8.6	K	Out.	60203.0	7.2	WISE W2	Out.	55250.0	3.6	70	Out.	122,163,182,275
V883 Ori	Y	57873.0	17.0	Gaia G	Out.	56960.0	5.5	K	Out.	60204.0	0.7	WISE W2	Out.	57637.0	0.4	1300	Out.	122,166,208,251
V2775 Ori	Y	57003.4	21.9	Pan-STARRS i	Out.	57325.0	8.4	K	Out.	60205.9	5.2	WISE W2	Out.	55828.0	0.6	870	Out.	93,122,137,166
FUOr−Aur0544+3330	Y	60526.5	14.6	ZTF r	Out.	n/a	n/a	n/a	n/a	60365.2	8.3	WISE W2	Out.	55267.0	0.047	22	Quiesc.	122,163,213
FU Ori	Y	57783.6	9.3	Gaia G	Out.	57347.0	5.8	K	Out.	60206.0	4.4	WISE W2	Out.	57783.0	0.018	1300	Out.	122,166,170,251
V900 Mon	Y	60404.2	15.4	ZTF r	Out.	57347.0	7.5	K	Out.	60228.6	4.9	WISE W2	Out.	57873.0	0.0084	1300	Out.	122,163,166,221
V960 Mon	Y	60403.1	13.5	ZTF g	Out.	59679.2	9.4	J	Out.	60228.6	6.5	WISE W2	Out.	57873.0	0.0007	1300	Out.	122,163,221,248
Gaia20bdk	Y	60403.2	16.3	ZTF r	Out.	60362.3	9.8	Ks	Out.	60390.3	8.2	WISE W2	Out.	55250.0	0.3	22	Quiesc.	122,213,289
Gaia21elv	Y	60332.9	14.1	Gaia G	Out.	59906.9	9.7	J	Out.	60271.8	6.0	WISE W2	Out.	55250.0	4.5	22	Out.	122,213,219,254
WTP10aaauow	Y	59965.3	15.2	i	Out.	59795.0	9.2	Ks	Out.	59747.2	7.8	WISE W2	Out.	55250.0	0.033	22	Quiesc.	122,213,278
G286.2032+0.1740	?	n/a	n/a	n/a	n/a	58832.0	15.0	Ks	Out.	59018.4	10.5	WISE W1	Out.	n/a	n/a	n/a	n/a	122,188,190
L222_1	Y	n/a	n/a	n/a	n/a	58653.1	12.4	Ks	Out.	60131.1	10.7	WISE W2	Out.	53829.0	0.021	24	Quiesc.	122,127,273
VVVv16	N	57885.2	19.5	Gaia G	Quiesc.	58704.0	13.9	Ks	Quiesc.	60135.5	10.9	WISE W2	Quiesc.	53829.0	0.024	24	Quiesc.	122,127,251,264
L222_4	Y	n/a	n/a	n/a	n/a	58704.0	11.9	Ks	Out.	60136.7	8.0	WISE W2	Out.	55077.0	0.4	160	Quiesc.	122,273,275
L222_10	?	n/a	n/a	n/a	n/a	58703.0	11.8	Ks	Out.	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	273
L222_13	Y	57887.9	19.2	Gaia G	Out.	58702.0	13.5	Ks	Out.	60146.9	11.9	WISE W2	Out.	55200.0	0.2	22	Quiesc.	122,213,251,273
L222_15	?	57888.4	19.6	Gaia G	Out.	58702.0	13.3	Ks	Out.	58889.8	10.8	WISE W2	Out.	n/a	n/a	n/a	n/a	122,251,273
L222_18	Y	n/a	n/a	n/a	n/a	58702.1	13.0	Ks	Out.	60152.9	11.7	WISE W2	Out.	53833.0	0.0042	24	Quiesc.	122,127,273
L222_25	Y	n/a	n/a	n/a	n/a	58704.0	13.5	Ks	Out.	60363.4	9.5	WISE W2	Out.	55250.0	0.2	22	Quiesc.	122,213,273
DR4_v20	Y	n/a	n/a	n/a	n/a	58719.1	14.9	Ks	Out.	60164.3	10.8	WISE W2	Out.	54832.0	0.9	870	Quiesc.	115,122,264
L222_33	Y	n/a	n/a	n/a	n/a	58726.0	12.2	Ks	Out.	60165.8	9.8	WISE W2	Out.	53838.0	0.006	24	Quiesc.	122,127,273
VVVv237	Y	n/a	n/a	n/a	n/a	58703.2	13.5	Ks	Out.	60168.0	8.9	WISE W2	Out.	55443.0	1.7	70	Out.	122,264,275
VVVv717	Y	n/a	n/a	n/a	n/a	58710.2	15.8	Ks	Quiesc.	60171.3	8.7	WISE W2	Out.	55444.0	0.8	160	Quiesc.	122,144,264
VVVv721	Y	n/a	n/a	n/a	n/a	58726.1	11.1	Ks	Out.	60171.8	8.4	WISE W2	Out.	53253.0	0.1	24	Quiesc.	122,127,264
VVV1640−4846	Y	n/a	n/a	n/a	n/a	58727.1	13.6	Ks	Out.	60173.8	9.4	WISE W2	Out.	55444.0	0.4	70	Quiesc.	122,144,273
L222_73	Y	n/a	n/a	n/a	n/a	58708.2	13.0	Ks	Out.	60177.9	7.2	WISE W2	Out.	55612.0	0.9	160	Quiesc.	122,144,273
L222_78	Y	60134.1	13.5	ZTF r	Out.	60134.1	9.8	H	Out.	60178.1	7.9	WISE W2	Out.	55267.0	0.008	22	Quiesc.	122,213,268,269
L222_93	Y	n/a	n/a	n/a	n/a	58710.2	12.8	Ks	Out.	60179.6	10.7	WISE W2	Out.	n/a	n/a	n/a	n/a	122,273
L222_95	Y	n/a	n/a	n/a	n/a	58710.2	11.4	Ks	Out.	60181.6	8.4	WISE W2	Out.	55457.0	6.4	350	Quiesc.	122,144,273
L222_165	?	n/a	n/a	n/a	n/a	58577.4	12.8	Ks	Out.	57829.1	10.4	WISE W2	Out.	53954.0	0.004	24	Quiesc.	122,127,273
L222_192	Y	60203.0	19.9	Gaia G	Out.	58367.0	12.1	Ks	Out.	60188.2	10.7	WISE W2	Out.	n/a	n/a	n/a	n/a	122,219,273
UKIDSSJ183421.85−055951.0	?	56463.5	20.5	Pan-STARRS i	Out.	56853.0	13.9	K	Out.	57035.0	11.2	IRAC2	Out.	58787.0	0.015	3400	Quiesc.	137,255
WNTR24−egv	Y	n/a	n/a	n/a	n/a	60494.0	12.5	H	Out.	60204.2	8.4	WISE W2	Out.	53646.0	0.032	24	Quiesc.	122,127,283
SPICY99341	Y	60117.4	21.9	ZTF r	Out.	55768.0	10.9	K	Out.	60208.5	8.9	WISE W2	Out.	53617.0	0.01	24	Quiesc.	122,127,163,249,250
SPICY100587	Y	n/a	n/a	n/a	n/a	55768.0	12.3	K	Out.	60211.6	11.5	WISE W2	Out.	53647.0	0.003	24	Quiesc.	122,127,249,250
Gaia17bpi	Y	60268.3	17.2	Gaia G	Out.	57933.1	13.5	H	Out.	60218.0	11.2	WISE W2	Out.	53340.0	7.5×10^{-6}	8	Quiesc.	122,168,219
Gaia18dvy	Y	60490.4	15.4	ZTF r	Out.	53653.3	13.6	K	Quiesc.	60235.2	8.6	WISE W2	Out.	55321.0	0.02	22	Quiesc.	66,122,163,213
V1515 Cyg	Y	60488.3	13.4	ZTF r	Out.	59329.2	7.9	Ks	Out.	60246.9	6.6	WISE W2	Out.	50873.0	0.1	850	Out.	37,122,163,243
SPICY111892	Y	56516.3	17.4	Pan-STARRS g	Out.	55012.0	12.0	K	Out.	60450.2	10.4	WISE W2	Out.	56101.0	0.7	160	Out.	122,137,156,275
HBC722	Y	60490.4	13.2	ZTF r	Out.	56214.4	8.2	Ks	Out.	60257.7	6.2	WISE W2	Out.	55537.0	0.4	70	Out.	85,122,141,163
V2494 Cyg	Y	56825.6	14.3	Pan-STARRS y	Out.	57325.0	8.4	K	Out.	60267.5	5.2	WISE W2	Out.	56889.0	0.1	1300	Out.	122,137,166,170
V1057 Cyg	Y	60490.3	13.4	ZTF g	Out.	59090.9	6.4	K	Out.	60258.1	4.9	WISE W2	Out.	56853.0	0.019	1300	Out.	122,163,170,230
V2495 Cyg	Y	n/a	n/a	n/a	n/a	57366.0	11.8	K	Out.	60267.9	6.9	WISE W2	Out.	56853.0	0.1	1300	Out.	122,166,170
SSTgbsJ21470601+4739394	Y	n/a	n/a	n/a	n/a	59782.0	16.2	K	Out.	60275.1	10.8	WISE W2	Out.	56177.0	0.1	850	Quiesc.	122,263
V1735 Cyg	Y	60490.4	17.2	ZTF r	Out.	51698.0	9.9	Ks	Out.	60275.2	5.3	WISE W2	Out.	50873.0	0.5	850	Out.	37,54,122,163
V733 Cep	Y	60490.4	18.0	ZTF r	Out.	57199.0	8.3	K	Out.	60146.5	6.9	WISE W2	Out.	56316.0	7.5	160	Out.	122,163,166,275

Table 3.2: Confirmed Eruptive YSOs (**FUor-like**). Latest available photometry. (The .fits version of this table is available at http://starformation.synology.me:5002/OYCAT/download.html)

		Optical				Near-IR				Mid-IR				Far-IR/Sub-mm				
ID	in outburst?	MJD	Mag	Band	state	MJD	Mag	Band	state	MJD	Mag	Band	state	MJD	Flux (Jy)	Band (μm)	state	References
RNO1C	Y	60488.4	19.5	ZTF r	Out.	57262.0	7.7	K	Out.	60323.2	4.7	WISE W2	Out.	50934.0	6.6	850	Out.	37,121,162,165
PP13S	Y	n/a	n/a	n/a	n/a	57347.0	10.8	K	Out.	60187.5	4.7	WISE W2	Out.	50880.0	1.2	850	Out.	37,121,165
L1551IRS5	Y	57028.4	19.7	Pan-STARRS i	Out.	57347.0	11.2	K	Out.	60189.7	5.3	WISE W2	Out.	57958.0	2.5	1300	Out.	121,136,165,220
Haro5a/6a	Y	n/a	n/a	n/a	n/a	57325.0	9.9	K	Out.	60204.1	7.1	WISE W2	Out.	57637.0	0.4	870	Out.	121,165,207
RNO54	Y	60403.2	13.6	ZTF g	Out.	50759.0	7.0	Ks	Out.	60206.6	5.4	WISE W2	Out.	48721.0	11.3	100	Out.	21,54,121,162
IRAS05450+0019	Y	57030.4	20.9	Pan-STARRS i	Out.	57347.0	8.8	K	Out.	60207.4	5.6	WISE W2	Out.	55700.0	0.1	870	Out.	121,136,138,165
V565 Mon	Y	60628.3	15.2	ASAS-SN g	Out.	51148.0	7.5	Ks	Out.	60228.8	5.6	WISE W2	Out.	48722.0	19.1	100	Out.	21,54,121,168
Z CMa(SE)	Y	60622.2	10.1	ASAS-SN g	Out.	57347.0	3.8	K	Out.	n/a	n/a	n/a	n/a	56591.0	0.027	1300	Out.	165,168,169
BBW76	Y	60630.4	13.4	ASAS-SN g	Out.	57347.0	8.6	K	Out.	60250.2	7.5	WISE W2	Out.	56247.0	0.7	500	Out.	121,165,168,179
IRAS16316−1540	Y	60489.3	14.8	ZTF r	Out.	54295.0	8.3	K	Out.	60166.7	5.3	WISE W2	Out.	51544.0	3.5	850	Out.	64,76,121,162
Parsamian21	Y	60489.4	14.3	ZTF r	Out.	57535.0	9.6	K	Out.	60215.8	7.4	WISE W2	Out.	57873.0	0.031	1300	Out.	121,162,165,220
CB230	Y	56934.3	19.5	Pan-STARRS i	Out.	57262.0	10.3	Ks	Out.	60511.1	7.9	WISE W2	Out.	49153.0	0.2	1300	Out.	66,121,136,165
HH354IRS	Y	55735.0	19.4	Pan-STARRS y	Out.	57325.0	10.8	K	Out.	60131.2	8.5	WISE W2	Out.	56299.0	8.5	500	Out.	121,136,165,179

Table 3.3: Confirmed Eruptive YSOs (**EX Lupi-type**). Latest available photometry. (The .fits version of this table is available at http://starformation.synology.me:5002/OYCAT/download.html)

		Optical				Near-IR				Mid-IR				Far-IR/Sub-mm				
ID	in outburst?	MJD	Mag	Band	state	MJD	Mag	Band	state	MJD	Mag	Band	state	MJD	Flux (Jy)	Band (μm)	state	References
XZ Tau†	N	60623.4	14.8	ASAS-SN g	Quiesc.	51493.0	7.3	Ks	Quiesc.	60187.9	4.9	WISE W2	Quiesc.	57044.0	0.1	1300	Quiesc.	54,121,168,169
UZ Tau E†	N	60609.0	13.2	ASAS-SN g	Quiesc.	50782.0	7.3	Ks	Quiesc.	60190.0	5.1	WISE W2	Quiesc.	55153.1	0.2	1250	Quiesc.	54,85,86,121,168
VY Tau†	N	60624.3	14.3	ASAS-SN g	Quiesc.	54123.0	9.4	K	Quiesc.	60190.8	8.3	WISE W2	Quiesc.	57068.0	0.002	1300	Quiesc.	65,121,168,169
DR Tau†	?	60625.4	12.8	ASAS-SN g	Quiesc.	50731.0	6.9	Ks	Quiesc.	60350.5	5.1	WISE W2	Quiesc.	51544.0	0.2	850	Quiesc.	54,64,121,168
V1118 Ori†	N	60397.1	16.9	ZTF g	Quiesc.	57694.5	10.6	K	Out.	60361.3	8.6	WISE W2	Out.	57068.0	0.0023	1300	Quiesc.	121,151,162,169
NY Ori†	N	60623.3	9.7	ASAS-SN g	Quiesc.	51872.0	8.4	Ks	Quiesc.	60204.2	6.1	WISE W2	Quiesc.	57068.0	0.032	1300	Quiesc.	54,121,168,169
V1143 Ori†	N	60378.2	16.3	ZTF r	Quiesc.	56937.3	11.8	Ks	Quiesc.	60204.8	10.9	WISE W2	Quiesc.	57068.0	0.002	1300	Quiesc.	121,162,169,223
V557 Mon	Y	60632.2	15.7	Gaia G	Out.	56013.0	14.2	K	Quiesc.	60375.9	12.9	WISE W2	Quiesc.	55279.0	0.02	22	Quiesc.	65,121,212,218
GM Cha	N	n/a	n/a	n/a	n/a	57415.2	11.9	Ks	Quiesc.	60518.3	7.0	WISE W2	Quiesc.	51544.0	0.5	850	Quiesc.	101,121,223
EX Lupi	N	60582.0	13.5	assasn g	Quiesc.	55316.2	8.7	Ks	Quiesc.	60164.1	7.3	WISE W2	Quiesc.	57593.0	0.02	1300	Quiesc.	119,121,161,168
VVVv309	N	n/a	n/a	n/a	n/a	58727.1	13.6	Ks	Out.	60375.9	7.6	WISE W2	Quiesc.	54011.0	1.6	24	Quiesc.	121,126,263
V1741 Sgr	N	60490.4	18.5	ZTF r	Quiesc.	60065.4	13.5	J	Quiesc.	60389.7	10.3	WISE W2	Quiesc.	54012.4	0.013	24	Quiesc.	121,126,162,270
Gaia23bab	N	60490.4	19.7	ZTF r	Quiesc.	60096.0	11.5	K	Out.	60408.7	10.4	WISE W2	Quiesc.	55943.0	0.2	350	Quiesc.	121,162,266
Gaia20eae	N	60489.4	19.5	ZTF r	Quiesc.	59144.0	10.4	K	Out.	60215.9	10.5	WISE W2	Quiesc.	53649.0	0.027	24	Quiesc.	121,126,162,234
PV Cep†	N	60628.1	16.9	ASAS-SN g	Quiesc.	56102.0	8.8	K	Quiesc.	60303.9	2.7	WISE W2	Quiesc.	51544.0	1.9	850	Quiesc.	64,99,121,168
GM Cep	N	60621.2	14.2	ASAS-SN g	Quiesc.	54259.0	8.5	K	Quiesc.	60489.0	7.0	WISE W2	Quiesc.	56308.0	0.9	160	Quiesc.	67,121,168,274

† Objects in the EX-Lupi type class that are defined as "historical" (see main text).

Table 3.4: Confirmed Eruptive YSOs (**PVM**). Latest available photometry. (The .fits version of this table is available at http://starformation.synology.me:5002/OYCAT/download.html)

		Optical				Near-IR				Mid-IR				Far-IR/Sub-mm				
ID	in outburst?	MJD	Mag	Band	state	MJD	Mag	Band	state	MJD	Mag	Band	state	MJD	Flux (Jy)	Band (μm)	state	References
V1180Cas	Y	60392.2	16.4	ZTF r	Out.	56738.0	10.9	K	Out.	60186.2	8.0	WISE W2	Out.	48381.0	8.7	100	Quiesc.	110,111,121,123,162
LDN1455IRS3	Y	56621.3	21.8	Pan-STARRS r	Out.	54047.2	14.2	K	Quiesc.	60335.9	9.6	WISE W2	Quiesc.	52677.0	0.1	1100	Quiesc.	65,101,121,136
SVS13	?	60490.5	18.9	ZTF r	Quiesc.	54101.1	9.5	K	Quiesc.	60336.3	6.2	WISE W2	Quiesc.	52677.0	2.7	1100	Quiesc.	65,101,121,162
[LAL96] 213	N	n/a	n/a	n/a	n/a	54383.0	10.1	K	Out.	60336.3	5.7	WISE W2	Quiesc.	52677.0	13.0	1100	Out.	76,101,121
ASASSN−13db	N	60329.7	17.6	Gaia G	Quiesc.	56902.4	12.9	Ks	Quiesc.	60353.2	12.1	WISE W2	Quiesc.	55257.0	0.006	22	Quiesc.	104,121,212,218
HOPS154	Y	57030.4	21.2	Pan-STARRS i	Quiesc.	57031.2	13.2	Ks	Out.	60362.5	11.3	WISE W2	Out.	57636.0	0.003	870	Quiesc.	104,121,136,207
HBC494	Y	n/a	n/a	n/a	n/a	50903.0	9.7	Ks	Out.	60362.9	1.8	WISE W2	Out.	57117.0	0.1	1300	Out.	54,121,164
HOPS267	Y	n/a	n/a	n/a	n/a	56338.0	13.6	Ks	Quiesc.	60363.1	6.9	WISE W2	Out.	57637.0	0.032	870	Quiesc.	121,142,207
HOPS315	Y	n/a	n/a	n/a	n/a	55164.3	12.8	Ks	Quiesc.	60364.7	6.6	WISE W2	Out.	58452.0	0.1	1300	Quiesc.	104,121,193
V1647 Ori	N	59874.5	21.7	ZTF r	Quiesc.	56238.0	7.5	K	Out.	60364.7	7.8	WISE W2	Quiesc.	57636.0	0.1	1300	Quiesc.	106,121,162,207
HOPS373	Y	n/a	n/a	n/a	n/a	59295.2	15.5	K	Out.	60364.7	10.8	WISE W2	Out.	55562.0	2.5	870	Quiesc.	109,121,244
V899 Mon	N	60391.2	12.9	ZTF r	Quiesc.	57125.5	8.0	K	Out.	60212.9	7.3	WISE W2	Quiesc.	57636.0	0.002	1300	Out.	121,130,162,220
IRAS06297+1021W	Y	60407.2	16.4	ZTF r	Out.	54057.0	8.1	K	Out.	60375.4	5.5	WISE W2	Out.	56213.0	9.7	160	Out.	121,162,165,274
Gaia18cjb	Y	60610.5	15.9	ZTF r	Out.	59878.6	12.1	K	Out.	60377.6	9.1	WISE W2	Out.	54101.0	0.5	90	Quiesc.	121,162,265
AR6b	Y	60378.2	21.3	ZTF r	Out.	57347.0	10.9	K	Out.	60377.5	5.3	WISE W2	Out.	57863.0	0.005	1300	Out.	121,162,165,220
AR6a	Y	60378.2	21.3	ZTF r	Out.	57347.0	7.9	K	Out.	60377.5	5.3	WISE W2	Out.	57863.0	0.002	1300	Out.	121,162,165,220
J064722.95+031644.6	Y	n/a	n/a	n/a	n/a	54402.1	17.8	K	Quiesc.	60380.1	8.2	WISE W2	Out.	55284.0	0.1	22	Quiesc.	65,121,212
Z CMa(NW)	Y	60622.2	10.1	ASAS-SN g	Out.	57347.0	3.8	K	Out.	n/a	n/a	n/a	n/a	56591.0	0.03	1300	Out.	165,168,169
Gaia19fct	N	60397.2	20.1	ZTF r	Quiesc.	59621.5	11.0	Ks	Out.	60387.2	8.8	WISE W2	Quiesc.	55690.0	0.4	70	Quiesc.	121,162,241,274
ESOHalpha99	N	60332.9	17.2	Gaia G	Quiesc.	51236.0	9.4	Ks	Quiesc.	60428.9	6.6	WISE W2	Quiesc.	49759.0	19.5	100	Quiesc.	21,54,121,218
VVVv20	?	n/a	n/a	n/a	n/a	58704.0	13.5	Ks	Quiesc.	60502.0	7.9	WISE W2	Quiesc.	55081.0	10.8	500	Quiesc.	121,149,214
VVVv452	Y	n/a	n/a	n/a	n/a	58706.0	12.7	Ks	Out.	60503.1	9.1	WISE W2	Out.	53829.0	0.02	24	Quiesc.	121,126,214
L222_6	Y	n/a	n/a	n/a	n/a	58706.0	13.8	Ks	Out.	60504.7	10.1	WISE W2	Out.	55229.0	0.3	22	Quiesc.	121,212,272
Stim1	Y	n/a	n/a	n/a	n/a	58706.0	12.0	Ks	Out.	60506.8	9.0	WISE W2	Out.	53830.0	0.1	24	Quiesc.	121,126,214
VVVv473	N	n/a	n/a	n/a	n/a	58706.0	15.0	Ks	Quiesc.	60510.4	8.6	WISE W2	Quiesc.	55204.0	17.0	500	Quiesc.	121,149,214
DR4_v5	Y	n/a	n/a	n/a	n/a	58703.0	12.6	Ks	Out.	60512.5	8.9	WISE W2	Out.	55204.0	7.0	500	Quiesc.	121,149,214
WISEAJ142238.82−611553	N	n/a	n/a	n/a	n/a	58702.1	14.4	Ks	Quiesc.	60519.2	8.9	WISE W2	Quiesc.	55429.0	12.1	500	Out.	121,149,202
VVVv94	Y	n/a	n/a	n/a	n/a	58702.1	11.9	Ks	Out.	60518.9	8.2	WISE W2	Out.	55205.0	4.3	500	Quiesc.	121,149,214
DR4_v10	Y	n/a	n/a	n/a	n/a	58703.0	13.9	Ks	Out.	60519.2	9.8	WISE W2	Out.	55243.0	0.3	22	Quiesc.	121,212,214
VVVv815	N	n/a	n/a	n/a	n/a	58703.0	15.0	Ks	Quiesc.	60519.3	9.3	WISE W2	Quiesc.	53833.0	0.4	24	Quiesc.	121,126,214
VVVv562	Y	n/a	n/a	n/a	n/a	58706.0	14.1	Ks	Quiesc.	60522.6	9.1	WISE W2	Out.	53835.0	0.02	24	Quiesc.	121,126,214
VVVv128	Y	n/a	n/a	n/a	n/a	58717.1	14.3	Ks	Quiesc.	60522.8	8.8	WISE W2	Out.	55429.0	1.6	70	Quiesc.	121,214,274
DR4_v15	Y	n/a	n/a	n/a	n/a	58717.1	15.3	Ks	Out.	60361.6	10.6	WISE W2	Out.	55248.0	0.1	22	Quiesc.	121,212,214
L222_28	Y	n/a	n/a	n/a	n/a	58719.1	12.5	Ks	Out.	60363.8	8.9	WISE W2	Out.	55225.0	0.9	160	Quiesc.	121,272,274
VVVv618	Y	n/a	n/a	n/a	n/a	58721.1	12.5	Ks	Quiesc.	60366.2	9.1	WISE W2	Out.	53837.0	0.1	24	Quiesc.	121,126,214
VVVv621	?	n/a	n/a	n/a	n/a	58719.1	13.8	Ks	Out.	59637.0	10.7	WISE W2	Out.	n/a	n/a	n/a	n/a	121,214
VVVv631	Y	57832.1	20.1	Gaia G	Out.	58719.1	11.2	Ks	Out.	60365.7	8.2	WISE W2	Out.	55252.0	0.1	22	Quiesc.	121,212,250,277
L222_32	N	n/a	n/a	n/a	n/a	58726.0	13.5	Ks	Out.	60367.5	8.5	WISE W2	Quiesc.	55442.0	4.2	70	Quiesc.	121,272,274
L222_37	Y	n/a	n/a	n/a	n/a	58705.1	12.3	Ks	Out.	60367.9	8.5	WISE W2	Out.	55255.0	0.1	22	Quiesc.	121,212,272
VVVv665	Y	n/a	n/a	n/a	n/a	58705.1	12.9	Ks	Out.	60368.7	8.8	WISE W2	Out.	55443.0	3.5	160	Quiesc.	121,214,274
VVVv662	N	n/a	n/a	–	n/a	58705.1	14.6	Ks	Quiesc.	60368.8	8.9	WISE W2	Quiesc.	55443.0	1.3	70	Quiesc.	121,214,274
Stim5	Y	n/a	n/a	n/a	n/a	58703.2	14.0	Ks	Out.	60369.2	9.9	WISE W2	Out.	53839.0	0.1	24	Quiesc.	121,126,214
Stim13	?	n/a	n/a	n/a	n/a	58703.2	13.6	Ks	Quiesc.	60371.3	7.1	WISE W2	Quiesc.	53889.0	3.0	24	Quiesc.	121,126,214
VVVv270	Y	n/a	n/a	n/a	n/a	58704.2	13.4	Ks	Out.	60371.0	11.2	WISE W2	Out.	53839.0	0.03	24	Quiesc.	121,126,214
VVVv699	?	n/a	n/a	n/a	n/a	58706.1	14.2	Ks	Out.	60371.9	10.0	WISE W2	Quiesc.	53839.0	0.1	24	Quiesc.	121,126,214
DR4_v34	Y	n/a	n/a	n/a	n/a	58704.2	12.1	Ks	Out.	60373.1	8.9	WISE W2	Out.	53840.0	0.2	24	Quiesc.	121,126,214
V346 Nor	Y	58734.0	19.0	I	Out.	58726.1	8.7	Ks	Out.	60373.1	2.8	WISE W2	Out.	56009.0	7.4	160	Quiesc.	121,198,274
VVVv713	N	57799.4	20.5	Gaia G	Quiesc.	58710.2	13.4	Ks	Quiesc.	60373.2	9.5	WISE W2	Quiesc.	55444.0	3.6	350	Out.	121,149,214,250
VVV1636−4744	Y	n/a	n/a	n/a	n/a	58727.1	12.7	Ks	Out.	59807.1	11.2	WISE W1	Out.	53098.0	0.006	8	Quiesc.	41,121,272
VVVv322	N	n/a	n/a	n/a	n/a	58727.1	15.9	Ks	Quiesc.	57921.0	13.0	IRAC I2	Quiesc.	53253.0	0.003	8	Quiesc.	41,135,214
DR4_v39	Y	n/a	n/a	n/a	n/a	58727.1	13.5	Ks	Out.	60376.8	10.8	WISE W2	Out.	54012.0	0.1	24	Quiesc.	121,126,214
DR4_v42	Y	n/a	n/a	n/a	n/a	58726.1	15.0	Ks	Out.	60377.2	9.1	WISE W2	Out.	55445.0	0.5	70	Quiesc.	121,214,274
DR4_v44	Y	n/a	n/a	n/a	n/a	58726.1	13.4	Ks	Out.	60377.4	10.2	WISE W2	Out.	54012.3	0.03	24	Quiesc.	121,126,214
VVVv374	Y	n/a	n/a	n/a	n/a	58707.2	10.3	Ks	Out.	60378.5	6.4	WISE W2	Out.	49848.0	6580.0	100	Quiesc.	21,121,214
VVVv376	N	n/a	n/a	n/a	n/a	58707.2	13.4	Ks	Quiesc.	60378.4	10.7	WISE W2	Quiesc.	54012.0	0.1	24	Quiesc.	121,126,214
VVVv389	Y	n/a	n/a	n/a	n/a	58707.2	13.5	Ks	Out.	60379.2	8.8	WISE W2	Out.	55445.0	38.7	500	Quiesc.	121,149,214
VVVv800	Y	n/a	n/a	n/a	n/a	58708.2	10.6	Ks	Out.	60380.5	5.8	WISE W2	Out.	55086.0	35.1	500	Quiesc.	121,149,214
Gaia21bty	Y	60199.6	20.0	Gaia G	Quiesc.	59340.2	10.9	Ks	Out.	60382.6	8.0	WISE W2	Out.	54015.0	0.1	24	Quiesc.	121,218,257
DR4_v67	Y	n/a	n/a	n/a	n/a	58363.1	13.6	Ks	Out.	60385.4	9.6	WISE W2	Out.	53839.0	0.1	24	Quiesc.	121,126,214
L222_148	Y	56059.5	19.5	Pan-STARRS i	Quiesc.	58577.4	12.8	Ks	Out.	60386.6	7.5	WISE W2	Out.	55451.0	5.0	500	Quiesc.	121,136,149,272
L222_167	Y	56516.3	19.6	Pan-STARRS r	Quiesc.	58577.4	12.6	Ks	Out.	60387.2	6.9	WISE W2	Out.	54019.0	0.6	24	Quiesc.	121,126,136,272
DR4_v89	Y	56204.2	20.6	Pan-STARRS z	Quiesc.	58703.2	13.7	Ks	Out.	60387.7	9.1	WISE W2	Out.	53652.0	0.1	24	Quiesc.	121,126,136,214
L222_210	Y	56841.4	18.8	Pan-STARRS g	Quiesc.	58721.2	12.1	Ks	Out.	60390.9	7.5	WISE W2	Out.	55616.0	9.1	500	Quiesc.	121,136,149,272
GPSV8	N	56489.4	20.5	Pan-STARRS r	Quiesc.	56146.0	12.9	K	Quiesc.	60392.7	10.3	WISE W2	Quiesc.	55279.0	0.1	22	Quiesc.	113,121,136,212
IRAS18270−0153W	?	n/a	n/a	n/a	n/a	55012.0	12.1	K	Quiesc.	60396.8	7.9	WISE W2	Quiesc.	55128.0	19.1	500	Quiesc.	65,121,255
OO Ser	Y	n/a	n/a	n/a	n/a	53861.0	14.1	Ks	Out.	59100.0	9.9	WISE W2	Out.	58204.0	0.016	1300	Out.	58,121,220
IRAS18341−0113S	?	n/a	n/a	n/a	n/a	57199.0	11.4	K	Quiesc.	56931.0	8.6	WISE W2	Quiesc.	55128.0	4.9	500	Quiesc.	121,165,213
UKIDSSJ185318.36+012454	Y	n/a	n/a	n/a	n/a	55784.0	13.8	K	Out.	57004.0	9.4	IRAC I2	Out.	53118.0	0.1	8	Out.	41,65,157
SPICY97855	Y	n/a	n/a	n/a	n/a	55776.0	17.1	K	Quiesc.	60408.9	9.5	WISE W2	Out.	53646.0	0.013	24	Quiesc.	65,121,126
GPSV16	Y	55425.3	21.3	Pan-STARRS i	Out.	55378.0	13.8	Ks	Out.	60438.6	8.1	WISE W2	Out.	55326.0	0.1	22	Out.	113,121,136,212
V1686 Cyg	?	60488.3	15.9	ZTF r	Out.	50985.0	6.3	Ks	Quiesc.	54428.0	3.8	IRAC I2	Quiesc.	54428.0	6.0	8	Quiesc.	41,54,162
V1318 Cyg	Y	60488.3	13.4	ZTF r	Out.	54741.4	11.3	J	Out.	60081.4	0.6	WISE W2	Out.	51544.0	24.0	850	Quiesc.	64,65,121,162
SPICY109331	Y	n/a	n/a	n/a	n/a	55827.0	14.6	K	Quiesc.	60444.4	8.5	WISE W2	Out.	56029.0	4.5	160	Quiesc.	65,121,274
Gaia19bey	N	60196.2	21.5	ZTF r	Quiesc.	51120.0	8.6	Ks	Quiesc.	60456.8	6.1	WISE W2	Quiesc.	50002.0	23.2	100	Quiesc.	21,54,121,162
V2492 Cyg	Y	60490.4	21.3	ZTF r	Out.	56233.1	8.2	K	Out.	60457.1	5.6	WISE W2	Out.	56099.0	0.005	2700	Out.	102,121,150,162
2MASSJ21013280+6811204	Y	n/a	n/a	n/a	n/a	51449.0	14.0	Ks	Quiesc.	60508.6	9.6	WISE W2	Out.	51544.0	1.4	850	Quiesc.	54,101,121
NWISE−F213723.5+665145	Y	n/a	n/a	n/a	n/a	57386.0	16.4	Ks	Out.	60508.9	11.4	WISE W2	Out.	48340.0	1.8	100	Quiesc.	121,123,196
V350 Cep	Y	60609.2	16.2	ZTF r	Out.	51450.0	11.0	Ks	Out.	60507.9	9.4	WISE W2	Out.	52962.0	2.0	70	Out.	46,54,121,162
2MASSJ22352345+7517076	Y	n/a	n/a	n/a	n/a	58036.0	9.1	Ks	Out.	60330.0	1.4	WISE W2	Out.	51544.0	5.7	850	Quiesc.	64,121,177

Table 3.5: Confirmed Eruptive YSOs (**Periodic**). Latest available photometry. (The .fits version of this table is available at http://starformation.synology.me:5002/OYCAT/download.html)

		Optical				Near-IR				Mid-IR				Far-IR/Sub-mm				
ID	in outburst?	MJD	Mag	Band	state	MJD	Mag	Band	state	MJD	Mag	Band	state	MJD	Flux (Jy)	Band (μm)	state	References
LRLL54631	?	57000.4	21.2	Pan-STARRS r	Quiesc.	55511.0	15.1	K	Quiesc.	60339.3	8.0	WISE W2	Out.	52680.0	0.5	1100	Quiesc.	59,101,121,136
V347 Aur	N	60652.4	15.1	ASAS-SN g	Quiesc.	51492.0	8.1	Ks	Quiesc.	60355.5	5.6	WISE W2	Out.	48791.0	15.8	100	Quiesc.	21,54,121,168
L1634IRS7	N	56573.6	20.4	Pan-STARRS y	Quiesc.	57031.1	13.9	Ks	Quiesc.	60354.9	9.2	WISE W2	Quiesc.	56000.0	2.5	850	Quiesc.	104,121,136,175
VVVv32	N	n/a	n/a	n/a	n/a	58706.0	13.5	Ks	Quiesc.	60506.8	10.4	WISE W2	Quiesc.	53830.0	0.1	24	Quiesc.	121,126,214
VVV_PB_5	N	n/a	n/a	n/a	n/a	57169.0	15.2	Ks	Quiesc.	60506.8	9.3	WISE W2	Quiesc.	55204.0	24.1	160	Quiesc.	121,236,274
DR4_v55	N	n/a	n/a	n/a	n/a	58710.2	15.8	Ks	Quiesc.	60182.4	10.1	WISE W2	Quiesc.	55612.0	3.6	160	Quiesc.	121,214,274
VVV_PB_52	N	n/a	n/a	n/a	n/a	57288.0	12.4	Ks	Out.	60388.3	10.5	WISE W2	Quiesc.	55446.0	5.2	500	Quiesc.	121,149,236
V371 Ser	Y	n/a	n/a	n/a	n/a	58907.6	10.9	K	Out.	60396.7	6.8	WISE W2	Out.	53551.0	1.5	1100	Quiesc.	101,121,199

Table 4: Additional Categories (**Embedded**). Main parameters. (The .fits version of this table is available at http://starformation.synology.me:5002/OYCAT/download.html)

ID	α (J2000)	δ (J2000)	Class	Distance (pc)	A_V (mag)	M ($M_\odot$ yr^{-1})	M_* ($M_\odot$)	L ($L_\odot$)	Year of outburst(s)‡	ΔV	ΔR	ΔG	ΔK	$\Delta W1$	$\Delta W2$	Spectroscopy(λ)	LC	Class	P (d)	reference
NGC1333VLA3	03:29:03.372	+31:16:01.60	–	293	–	–	–	–	2017?	–	–	–	–	2.0	1.5	– (–)	FUor?	Embedded	–	223,274
WEST40	03:29:04.06	+31:14:46.5	0	293	5.9	–	–	0.7	2017	–	–	–	–	0.6	0.4	– (–)	FUor?	Embedded	–	102,157,223,274
IRAS4A	03:29:10.49	+31:13:30.8	0	270	5.9	–	–	9.8	2012-2016	–	–	–	–	–	1.1	– (–)	FUor?	Embedded	–	102,153,223,265,274
IC348MMS1	03:43:57.05	+32:03:05.0	0	303	5.9	–	–	1.4	2004-2010	–	–	–	–	2.0	1.8	– (–)	FUor	Embedded	–	101,102,153,223,274
HOPS41	05:34:29.47	−05:35:42.87	I	391	27.2	–	–	–	2010,2017	–	–	–	–	4.0	3.5	– (–)	FUor	Embedded	–	139,208,226,246
HOPS12	05:35:08.59	−05:55:53.86	0	389	–	–	–	7.3	2004-2009	–	–	–	–	2.8	2.5	– (–)	FUor	Embedded	–	139,208,246
HOPS56	05:35:19.4586	−05:15:32.779	0	393	52.7	–	0.5	23.3	2021	–	–	–	–	0.4	0.4	– (–)	FUor?	Embedded	–	139,208,223,274
HOPS87	05:35:23.500	−05:01:29.58	0	393	51.1	–	0.5	34.7	2012-2016?	–	–	–	–	–	–	Outflow (IR)	FUor?	Embedded	–	139,208,223,272,274
HOPS383	05:35:29.84	−04:59:51.00	0	393	14.0	–	–	14.0	2004-2008	–	–	–	–	3.0	3.5	– (–)	FUor	Embedded	–	133,139,208,246
HOPS124	05:39:19.98	−07:26:11.20	0	398	28.0	–	–	58.3	2004-2009	–	–	–	–	3.8	2.6	– (–)	FUor	Embedded	–	139,208,246
IRAS05435−0015	05:46:04.775	−00:14:16.51	FS	427	10.2	–	0.5	11.8	2021	–	–	–	–	1.2	0.9	– (–)	FUor?	Embedded	–	139,208,223,274
HOPS358	05:46:07.260	−00:13:30.23	0	400	14.7	–	1.0	25.0	2016,2021	–	–	–	–	0.7	1.1	– (–)	Intermediate	Embedded	–	139,223,274,288
NGC2068LBS23SM	05:46:08.528	−00:10:39.05	0	388	41.5	–	0.5	4.8	2016?	–	–	–	–	0.5	0.4	– (–)	FUor?	Embedded	–	139,208,223,274
SH2−68N	18:29:48.09	+01:16:45.0	0	436	65.0	–	0.5	15.2	2017?,2020?	–	–	–	–	0.6	0.3	Absorption (IR)	FUor?	Embedded	–	69,223,256,272,274
SERPENSSMM1	18:29:49.63	+01:15:21.9	0	436	20.0	–	0.5	124.0	2016	–	–	–	–	1.8	1.9	– (–)	FUor?	Embedded	–	123,223,256,274
SERPENSSMM10	18:29:52.20	+01:15:47.6	I	436	28.6	–	0.5	7.0	2012-2016	–	–	–	–	1.4	1.1	– (–)	FUor?	Embedded	–	223,256,274
CARMA7	18:30:04.10	−02:03:02.5	0	436	140.2	–	0.5	50.3	2012-2016?	–	–	–	–	–	–	– (–)	FUor?	Embedded	–	223,256,274
B335	19:37:01.03	+07:34:10.90	0	164	–	1.0×10^{-5}	0.2	18.0	2010-2013	–	–	–	–	–	2.4	– (–)	Intermediate	Embedded	–	270

‡ **Year1,Year2,Year3**: Outbursts in Year1, Year2 and Year3; **Year1-Year2**: Outburst ocurred somewhere between Year1 and Year2; **Year1?**: The exact year of outburst is uncertain; **¡Year1**: The outburst happened at some time earlier than Year1; **?**: No outburst recorded; **mYear1,Year2,Year3**: Many outbursts have been observed, some of them occurred in Year1, Year2 and Year3; **Year1p**: The source shows periodic outbursts, one of them was observed in Year1

Table 5: Additioanl categories (**Embedded**). Latest available photometry. (The .fits version of this table is available at http://starformation.synology.me:5002/OYCAT/download.html)

		Optical				Near-IR				Mid-IR				Far-IR/Sub-mm				
ID	in outburst?	MJD	Mag	Band	state	MJD	Mag	Band	state	MJD	Mag	Band	state	MJD	Flux (Jy)	Band (μm)	state	References
NGC1333VLA3	Y	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	60336.3	9.3	WISE W2	Out.	60190.0	3.5	850	Out.	121,273
WEST40	Y	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	60336.3	11.8	WISE W2	Out.	60190.0	0.6	850	Out.	121,273
IRAS4A	N	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	60177.9	14.2	WISE W2	Quiesc.	60190.0	9.2	850	Quiesc.	121,273
IC348MMS1	Y	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	60339.3	12.3	WISE W2	Out.	53694.0	0.3	1300	Quiesc.	100,121
HOPS41	Y	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	60203.7	8.5	WISE W2	Out.	56016.0	1.4	850	Quiesc.	121,141
HOPS12	Y	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	59472.6	9.8	WISE W2	Out.	56016.0	17.6	850	Quiesc.	121,141
HOPS56	Y	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	60361.7	7.4	WISE W2	Quiesc.	60198.0	1.5	850	Out.	121,273
HOPS87	?	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	58534.7	11.4	WISE W2	Quiesc.	60198.0	5.7	850	Quiesc.	121,273
HOPS383	N	n/a	n/a	n/a	n/a	55160.0	14.7	Ks	Out.	58685.0	14.3	IRAC2	Quiesc.	57637.0	0.2	870	Quiesc.	132,207,245
HOPS124	N	n/a	n/a	n/a	n/a	56950.3	14.1	Ks	Out.	58679.0	8.3	IRAC2	Out.	57637.0	1.2	870	Quiesc.	207,223,245
IRAS05435−0015	Y	57030.4	21.0	Pan-STARRS i	Quiesc.	55164.3	10.8	Ks	Quiesc.	60364.6	5.0	WISE W2	Out.	60196.0	0.3	850	Out.	104,121,136,273
HOPS358	?	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	60364.6	9.6	WISE W2	Quiesc.	60001.2	1.4	850	Quiesc.	121,284
NGC2068LBS23SM	Y	n/a	n/a	n/a	n/a	55164.3	15.2	Ks	Quiesc.	60364.7	9.8	WISE W2	Quiesc.	60196.0	2.9	850	Out.	104,121,273
SH2−68N	?	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	60397.1	10.9	WISE W2	Quiesc.	60196.0	2.2	850	Quiesc.	121,273
SERPENS SMM1	Y	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	60397.1	8.0	WISE W2	Out.	60196.0	6.8	850	Out.	121,273
SERPENS SMM10	?	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	60396.7	8.7	WISE W2	Quiesc.	60196.0	0.8	850	Quiesc.	121,273
CARMA7	Y	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	60182.0	4.8	850	Out.	273
B335	N	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	60417.3	11.2	WISE W2	Quiesc.	51544.0	2.2	850	Quiesc.	64,121

Table 6: Additional catagories (**Eruptive Massive YSOs**). Main parameters (The .fits version of this table is available at http://starformation.synology.me:5002/OYCAT/download.html)

ID	α (J2000)	δ (J2000)	ClassII maser	Distance (pc)	A_V (mag)	M ($M_\odot$ yr^{-1})	M_* ($M_\odot$)	L_{pre} ($L_\odot$)	L_{peak} ($L_\odot$)	t_{rise}	Δt	E_{acc} (10^{45} erg)	M_{acc} (M_{Jup})	ΔK	$\Delta W1$	$\Delta W2$	Spectroscopy(λ)	LC	Class	P (d)	reference
G323.46 −0.08	15:29:19.59	−56:31:21.9	Yes	4080^{+400}_{-380}	18 ± 1	8×10^{-4}	23	6×10^4	32×10^4	1.4	8.4	90	7.3	≈2.5	≈1.5	≈1	Emission(IR)		MYSO	–	181, 279
S255IR NIRS3	06:12:54.013	+17:59:23.05	Yes	1780^{+110}_{-120}	44 ± 16	5×10^{-3}	20	2.9×10^4	15.9×10^4	0.4	2.5	12	2	≈ 3.4	≈ 1.3	≈ 1	Emission(IR)		MYSO		147, 171, 202
G358.93 −0.03 MM1	17:43:10.02	−29:51:45.8	Yes	6750^{+370}_{-680}	60 ± 10	3.2×10^{-3}	12 ± 3	5×10^3	2.4×10^4	0.1	0.5	2.8	0.6				– (–)		MYSO		174, 187, 189, 229
NGC 6334IMM1	17:20:53.4	−35:46:57	Yes	1260^{+330}_{-210}		2.3×10^{-3}	6.7	3×10^3	4.9×10^4	0.6	8	32	0.3				– (–)		MYSO		154, 164, 173, 220
V723 Car	10:43:23.25	−59:33:56.9	No	2500 ± 200	55	–	10		4×10^3	4	15			> 4.3			Featureless/Emission(IR)		MYSO		55, 134
M17 MIR	18:20:23.017	−16:11:47.98	No	1900 ± 100		1.7×10^{-3}	5.4	1.4×10^3	9×10^3		20					≈ 2.1	– (–)		MYSO		212, 280

Table 7.1: Candidate Eruptive YSOs. (The .fits version of Tables 7.1 through 7.5 is available at http://starformation.synology.me:5002/OYCAT/download.html)

ID	α (J2000)	δ (J2000)	Class	Distance (pc)	Δ	Filter	MJD	Magnitude	Spectroscopy(λ)	LC	P (d)	reference
YSO2099	15:29:06.20	−56:23:10.50	FS	3710	5.6	Ks	58704.1	16.2		FUor	–	264
HOPS20	05:33:30.82	−05:50:39.83	I	389	5.0	K	56954.4	16.3		FUor	–	226
L222_42	16:29:39.03	−49:01:15.02	II	3000	4.9	Ks	58704.2	16.1		EX Lupi	–	273
L222_55	16:49:31.54	−45:07:14.77	–	–	4.8	Ks	58727.1	13.5		EX Lupi	–	273
Lucas et al. (2017) 282	19:19:50.47	+14:03:07.00	–	10600	4.6	K	55787.3	13.4		–	–	156
Contreras Peña et al. (2019) V4	02:33:53.40	+61:56:50.10	II	2100	4.5	R	57204.0	16.5		FUor	–	175
L222_84	17:24:36.93	−34:08:30.19	FS	–	4.5	Ks	58363.0	15.3		Intermediate	–	273
L222_164	17:49:33.19	−26:57:08.14	–	–	4.2	Ks	58715.2	15.2		Intermediate	–	273
YSO6940	17:31:19.50	−35:49:19.60	FS	1300	4.1	Ks	58702.2	16.1		FUor	–	264
L222_72	17:12:28.56	−38:30:50.47	I?	–	4.1	Ks	58708.2	15.0		Intermediate	–	273
L222_3	12:04:47.85	−62:24:02.09	–	–	4.1	Ks	58653.1	15.2		FUor	–	273
YSO3382	16:41:50.20	−46:31:00.50	FS	3700	4.1	Ks	58727.1	12.1		FUor	–	264
L222_77	17:17:44.88	−36:15:27.36	–	–	4.0	Ks	58723.1	16.4		Intermediate	–	273
L222_48	16:38:19.79	−45:59:39.80	FS	–	4.0	Ks	58710.2	15.2		EX Lupi	–	273
YSO3632	16:53:00.70	−43:38:38.40	FS	7900	4.0	Ks	58726.1	15.1		FUor	–	264
DR4_v74	17:45:29.90	−29:23:32.35	–	–	3.9	Ks	57284.0	15.5		Intermediate	–	273
YSO3122	16:28:59.50	−48:50:42.80	FS	3400	3.9	Ks	58704.2	16.6		EX Lupi	–	264
VVV_PB_28	16:22:40.18	−49:06:26.40	I	6700	3.9	Ks	58706.1	11.6	Emission (IR)	Periodic	30.5	215,237
YSO6166	17:43:26.70	−30:21:13.00	I	8500	3.9	Ks	58723.2	14.1		Intermediate	–	264
YSO6823	12:56:39.50	−64:05:52.40	I	2510	3.8	Ks	57933.0	16.8		FUor	–	264
YSO2972	16:21:44.20	−50:22:20.30	I	3200	3.8	Ks	58704.2	17.0		EX Lupi	–	264
GPSV1	18:14:52.94	−11:57:49.00	–	2000	3.8	K	54605.5	15.1	Featureless? (IR)	FUor?	–	114
L222_41	16:23:03.97	−50:21:10.73	–	–	3.7	Ks	58704.2	16.3		FUor	–	273
DR4_v7	13:57:53.24	−62:20:12.55	FS	3000	3.7	Ks	58651.2	17.1		Intermediate	–	273
VVVv381	17:00:56.90	−42:56:37.70	FS	5400	3.7	Ks	58707.2	16.1		FUor	–	264
YSO705	13:14:46.50	−62:40:37.70	I	3900	3.7	Ks	58706.0	13.8		FUor	–	264
YSO4885	17:47:24.20	−29:23:01.50	FS	–	3.7	Ks	58577.4	14.1		FUor	–	264
YSO3135	16:29:36.50	−49:10:58.20	FS	2700	3.7	Ks	58704.2	15.3		Periodic	3210.5	264
YSO2832	16:13:39.70	−50:02:00.20	FS	4780	3.6	Ks	58706.1	15.0		FUor	–	264
2MASSJ20500940+4426522	20:50:09.38	+44:26:52.00	FS	600	3.6	K	55861.2	10.8		–	–	156
YSO4971	17:50:24.00	−28:54:40.00	I	–	3.6	Ks	58577.4	13.3		FUor	–	264
SPICY115884	20:44:18.10	+41:36:50.34	I	–	3.6	WISE W2	60452.9	5.8	Featureless? (IR)	Intermediate	–	249,250
Lucas et al. (2017) 190	18:54:28.46	+07:57:11.00	I	–	3.6	K	56158.2	17.4		–	–	156
YSO3539	16:48:59.90	−45:23:42.30	FS	3480	3.6	Ks	58652.3	16.8		FUor	–	264
YSO1111	14:01:08.00	−60:56:18.20	I	7250	3.5	Ks	58703.0	13.3		Intermediate	–	264
VVV_PB_16	15:06:49.97	−58:12:59.76	FS	–	3.5	Ks	58704.1	16.0		Periodic	63.0	237
VVV_PB_17	15:09:35.64	−57:35:22.74	I	–	3.5	Ks	58704.1	14.3		Periodic	1026.7	237
VVVv118	14:51:20.97	−60:00:27.40	FS	2200	3.5	Ks	58720.0	14.2	Emission (IR)	EX Lupi	–	215
VVVv181	15:46:39.17	−55:50:28.30	I	–	3.5	Ks	58721.1	13.5	Emission (IR)	EX Lupi	–	215
DR4_v52	17:22:12.49	−38:21:59.36	FS	2200	3.5	Ks	58708.2	13.9		EX Lupi?	–	273
YSO3770	17:00:23.40	−42:48:00.00	FS	2790	3.5	Ks	58707.2	15.6		Periodic	3787.0	264
VVV_PB_32	16:44:20.56	−46:45:43.88	FS	–	3.5	Ks	58727.1	16.6		Periodic	33.9	237
YSO3277	16:37:35.00	−47:43:38.10	I	4400	3.5	Ks	57578.1	16.0		EX Lupi	–	264
YSO2655	16:02:08.80	−52:26:50.20	FS	5200	3.5	Ks	58726.0	15.0		FUor	–	264
YSO2668	16:03:00.30	−53:25:18.60	I	4600	3.5	Ks	58726.0	11.7		Periodic	3369.2	264
DR4_v12	14:59:28.89	−59:07:58.80	FS	1700	3.4	Ks	58717.1	16.4		EX Lupi	–	273
SSTGLMCG030.9948−00.0384	18:48:02.45	−01:44:29.00	–	8000	3.4	K	55786.4	14.6		–	–	156
YSO966	13:47:07.50	−62:46:33.00	FS	3500	3.4	Ks	58702.0	15.2		FUor	–	264
SPICY104367	19:32:26.02	+19:40:08.85	I	–	3.4	WISE W2	60418.8	8.7	Noisy (IR)	FUor	–	249,250
DR4_v6	13:42:13.89	−62:00:39.10	FS	4000	3.4	Ks	58703.0	15.1		FUor	–	273
VVV_PB_41	17:29:13.78	−34:32:20.01	FS	–	3.4	Ks	58263.3	15.5		Periodic	96.2	237
YSO2822	16:13:09.90	−51:22:50.50	FS	3000	3.4	Ks	58703.2	16.3		Intermediate	–	264
DR4_v22	15:59:02.38	−53:41:17.34	I	–	3.3	Ks	57214.0	15.9		Intermediate	–	273
SPICY79425	18:17:25.69	−17:02:11.94	I	–	3.3	WISE W2	60393.0	6.9	Featureless (IR)	Intermediate	–	249,250
YSO1473	14:27:28.60	−60:43:40.60	FS	3430	3.3	Ks	57150.0	15.9		FUor	–	264
VVVv806	17:14:06.90	−37:46:41.00	I	6030	3.3	Ks	58708.2	13.9		Periodic	230.2	264
YSO649	13:07:54.80	−62:20:10.40	I	2130	3.2	Ks	58706.0	14.1		FUor	–	264
Lucas et al. (2017) 81	06:25:09.91	+04:45:05.00	I	–	3.2	K	56000.3	14.0		–	–	156,188
Lucas et al. (2017) 615	22:32:30.31	+58:20:34.00	I	5100	3.2	K	55860.3	18.4		–	–	156
SSTGLMCG036.1368+00.5642	18:55:16.66	+03:06:34.00	I	–	3.2	K	55784.3	17.3		–	–	156
YSO3350	16:40:31.30	−47:31:30.00	FS	12800	3.2	Ks	58250.3	14.8		Intermediate	–	264
WISEJ063419.49+041747.9	06:34:19.49	+04:17:48.00	I	1600	3.2	K	56000.3	15.3		–	–	156
VVV_PB_14	14:44:55.88	−60:30:33.98	I	–	3.2	Ks	58720.0	16.1		Periodic	327.7	237
DR4_v8	13:59:11.81	−61:05:23.42	II	–	3.2	Ks	58253.0	15.7		EX Lupi	–	273
SSTGLMCG039.2362−00.5512	19:04:56.52	+05:21:20.00	–	–	3.2	K	55776.4	17.4		–	–	156
VVV_PB_29	16:30:35.63	−47:45:59.56	FS	–	3.2	Ks	58710.1	15.5		Periodic	507.5	237
VVV_PB_22	15:59:27.92	−51:57:56.49	II	–	3.1	Ks	56848.2	16.6		Periodic	83.0	237
YSO1961	15:14:23.60	−58:02:34.20	FS	2510	3.1	Ks	58717.1	11.8		FUor	–	264
YSO5801	15:40:14.40	−54:40:03.40	FS	3300	3.1	Ks	58719.1	14.6		EX Lupi	–	264
SSTGLMCG053.4689−00.3990	19:31:41.11	+18:00:04.00	I	–	3.1	K	55811.3	17.1		–	–	156
YSO829	13:32:41.10	−62:46:04.60	FS	7500	3.1	Ks	58702.0	13.6		FUor	–	264
YSO492	12:52:24.90	−62:42:07.20	FS	2990	3.0	Ks	58706.0	17.1		FUor	–	264
YSO5413	18:06:17.70	−22:40:22.90	I	4340	3.0	Ks	58721.2	13.8		FUor	–	264

Table 7.2: Candidate Eruptive YSOs.

ID	α (J2000)	δ (J2000)	Class	Distance (pc)	Δ	Filter	MJD	Magnitude	Spectroscopy(λ)	LC	P (d)	reference
YSO6652	18:05:12.30	−20:30:22.60	I	–	3.0	Ks	58723.2	14.6		EX Lupi	–	264
YSO386	12:42:12.90	−61:57:55.80	FS	1750	3.0	Ks	58706.0	15.4		Intermediate	–	264
YSO443	12:47:38.20	−63:39:19.60	I	11000	3.0	Ks	58704.0	12.9		FUor	–	264
YSO1935	15:12:02.80	−56:49:41.40	I	1530	3.0	Ks	58704.1	14.3		Intermediate	–	264
YSO4195	17:21:10.80	−35:00:34.90	I	4950	3.0	Ks	58363.0	13.6		Intermediate	–	264
YSO2482	15:54:18.60	−53:12:44.20	FS	5800	3.0	Ks	58726.0	15.6		Periodic	3239.5	264
YSO3310	16:39:00.50	−47:26:28.00	I	3100	3.0	Ks	58727.1	16.9		EX Lupi	–	264
VVVv367	17:00:29.60	−43:53:00.60	I	2500	3.0	Ks	58707.2	13.0		Intermediate	–	264
YSO227	12:21:28.00	−63:01:04.30	I	4140	2.9	Ks	58704.0	14.6		EX Lupi	–	264
YSO5385	18:05:32.50	−22:20:22.40	FS	4200	2.9	Ks	58721.2	16.6		FUor	–	264
VVVv140	15:13:38.40	−58:52:43.20	FS	2700	2.9	Ks	57172.0	12.9		FUor	–	264
VVV_PB_10	13:58:32.28	−61:05:48.78	II	–	2.9	Ks	58703.0	16.0		Periodic	17.0	237
YSO3948	17:07:24.50	−41:09:07.90	FS	2600	2.9	Ks	58723.1	12.1		FUor	–	264
YSO3911	17:05:47.40	−41:13:07.80	I	2000	2.9	Ks	58723.1	15.5		EX Lupi	–	264
YSO2009	15:19:11.60	−56:11:38.20	I	1900	2.9	Ks	58704.1	14.6		FUor	–	264
YSO4450	17:29:43.40	−36:06:50.70	FS	2100	2.9	Ks	58346.0	17.5		EX Lupi	–	264
YSO4209	17:21:51.20	−37:33:18.90	FS	2700	2.8	Ks	58708.2	15.1		Intermediate	–	264
YSO2945	16:20:37.30	−50:45:07.00	FS	3500	2.8	Ks	58704.2	12.6		Periodic?	–	264
SSTGLMCG034.5154+00.0656	18:54:05.59	+01:26:21.00	–	–	2.8	K	55784.3	14.7		–	–	156
YSO3416	16:43:44.70	−46:45:38.80	FS	2800	2.8	Ks	58652.3	10.1		FUor	–	264
Lucas et al. (2017) 386	19:56:22.32	+29:17:42.00	I	–	2.8	K	55829.3	16.0		–	–	156
YSO4331	17:26:11.40	−36:22:24.70	FS	3170	2.8	Ks	58702.2	16.3		EX Lupi	–	264
VVVv620	15:41:57.90	−54:10:47.00	–	–	2.8	Ks	58719.1	17.1		–	–	148,149
2MASSJ16443712−4604017	16:44:37.14	−46:04:01.71	I	760	2.8	Ks	57219.1	11.8		FUor	–	108,175
YSO2876	16:16:04.30	−50:53:44.90	FS	3100	2.7	Ks	58703.2	13.8		Periodic	3629.6	264
YSO6029	17:24:21.70	−37:33:00.70	FS	2200	2.7	Ks	58361.1	13.0		Intermediate	–	264
SPICY103300	19:28:53.24	+17:14:56.49	FS	–	2.7	WISE W2	60417.2	9.6	Emission? (IR)	Intermediate	–	249,250
YSO2345	15:46:21.20	−54:56:32.70	FS	3810	2.7	Ks	58721.1	15.2		Intermediate	–	264
VVVv467	13:01:13.20	−62:25:27.90	FS	4200	2.7	Ks	58706.0	14.1		Periodic?	–	264
VVV_PB_37	17:09:38.62	−41:38:51.81	I	–	2.7	Ks	58723.1	15.5		Periodic	640.1	237
YSO4655	17:37:27.90	−32:18:10.90	FS	–	2.7	Ks	58723.2	14.6		Intermediate	–	264
VVVv331	16:46:54.11	−45:15:21.90	I	–	2.7	Ks	58727.1	15.1		–	–	148,149
YSO2355	15:47:12.80	−53:48:14.10	FS	4900	2.7	Ks	58726.0	15.3		FUor	–	264
Lucas et al. (2017) 470	20:25:52.92	+40:12:21.00	–	1400	2.6	K	55849.0	15.9		–	–	156
YSO4009	17:11:51.50	−38:32:12.60	FS	1000	2.6	Ks	58708.2	16.3		Periodic?	–	264
VVV_PB_12	14:21:39.53	−60:52:33.16	I	–	2.6	Ks	58703.0	15.4		Periodic	176.4	237
YSO229	12:21:30.60	−62:59:33.20	I	4140	2.6	Ks	58249.0	15.8		EX Lupi	–	264
YSO1648	14:50:39.30	−59:22:54.00	I	2900	2.6	Ks	58706.0	14.5		Periodic	3567.1	264
YSO4339	17:26:28.90	−35:36:12.50	FS	8700	2.6	Ks	58363.0	17.0		FUor	–	264
Lucas et al. (2017) 611	22:25:14.54	+57:38:52.00	I	–	2.6	K	55860.2	15.3		–	–	156
YSO992	13:49:36.00	−62:45:39.70	FS	7700	2.6	Ks	58704.0	14.0		Intermediate	–	264
YSO323	12:34:41.60	−61:55:04.40	I	4300	2.6	Ks	58706.0	15.4		Intermediate	–	264
YSO3250	16:36:36.60	−47:29:23.80	FS	4700	2.5	Ks	58727.1	14.1		Periodic	1454.4	264
VVV_PB_13	14:25:27.39	−60:20:09.97	II	–	2.5	Ks	58702.1	16.2		Periodic	228.5	237
YSO4322	17:26:02.20	−34:49:45.60	FS	17300	2.5	Ks	58363.0	13.7		FUor	–	264
VVV_PB_3	12:34:22.43	−63:29:33.55	FS	–	2.5	Ks	58704.0	13.9		Periodic	45.5	237
VVV_PB_27	16:20:13.54	−50:16:05.52	I	–	2.5	Ks	58651.3	16.9		Periodic	476.8	237
VVV_PB_39	17:18:04.13	−38:52:22.49	FS	–	2.5	Ks	58263.2	12.4		Periodic	184.8	237
Contreras Peña et al. (2019) V51	10:01:48.11	−59:12:12.50	II	2200	2.5	R	57204.0	10.4		FUor	–	175
VVV_PB_98	16:23:10.13	−48:18:10.35	–	–	2.5	Ks	58706.1	16.6		Periodic	81.9	237
VVVv232	16:10:04.42	−52:13:01.50	I	–	2.5	Ks	58703.2	14.4		–	–	148,149
VVV_PB_2	12:30:01.48	−62:38:42.65	FS	–	2.5	Ks	58247.2	13.4		Periodic	437.8	237
YSO5298	18:02:50.50	−23:51:53.80	I	3800	2.5	Ks	58710.2	13.5		FUor	–	264
VVV_PB_43	17:30:11.81	−34:47:10.09	FS	–	2.5	Ks	56830.2	16.0		Periodic	229.1	237
VVV_PB_30	16:41:12.00	−47:07:53.54	–	–	2.5	Ks	58651.3	16.5		Periodic	149.4	237
VVVv26	12:38:45.66	−63:11:36.00	I	–	2.5	Ks	58704.0	15.1		–	–	148,149
Lucas et al. (2017) 257	19:08:27.53	+07:42:10.00	–	–	2.4	K	55768.4	15.4		–	–	156
YSO751	13:21:45.40	−62:39:03.70	I	2100	2.4	Ks	58703.0	15.5		FUor	–	264
VVV_PB_25	16:16:38.94	−50:50:11.38	II	–	2.4	Ks	58249.1	14.6		Periodic	420.0	237
VVVv495	13:40:30.34	−61:35:14.30	I	–	2.4	Ks	58703.0	14.3		–	–	148,149
Lucas et al. (2017) 546	20:45:58.68	+44:32:11.00	–	600	2.4	K	55861.2	15.9		–	–	156
VVV_PB_24	16:15:00.37	−50:44:42.27	I	–	2.4	Ks	57601.1	16.3		Periodic	28.9	237
VVVv53	13:27:02.40	−63:06:22.47	I	13900	2.4	Ks	58653.2	14.2	Emission (IR)	Intermediate	–	215
VVVv770	17:01:29.39	−41:39:42.90	I	–	2.4	Ks	58727.1	15.2		–	–	148,149
Lucas et al. (2017) 376	19:50:41.86	+28:12:37.00	FS	–	2.4	K	55826.3	16.9		–	–	156
VVVv759	16:53:30.26	−42:26:15.00	I	–	2.4	Ks	58726.1	15.2		–	–	148,149
YSO507	12:55:20.90	−63:22:09.30	FS	1840	2.4	Ks	58704.0	15.9		Intermediate	–	264
GPSV53	20:12:28.84	+36:52:19.18	–	–	2.4	K	55060.3	13.8	Outflow (IR)	–	–	126
YSO1329	14:16:39.10	−61:41:16.20	I	3700	2.4	Ks	58702.1	15.0		FUor	–	264
Lucas et al. (2017) 23	05:01:22.30	+41:53:02.00	I	–	2.4	K	55959.4	15.3		–	–	156
Lucas et al. (2017) 588	21:30:24.07	+55:54:44.00	–	8600	2.3	K	55845.3	18.2		–	–	156
Lucas et al. (2017) 374	19:50:11.09	+23:55:58.00	I	800	2.3	K	55822.3	12.4		–	–	156

Table 7.3: Candidate Eruptive YSOs.

ID	α (J2000)	δ (J2000)	Class	Distance (pc)	Δ	Filter	MJD	Magnitude	Spectroscopy(λ)	LC	P (d)	reference
VVV_PB_45	17:37:58.70	−31:22:09.43	II	–	2.3	Ks	58370.0	16.6		Periodic	482.5	237
GPSV44	18:33:21.46	−04:57:26.00	–	2500	2.3	K	55007.4	13.5		–	–	156
VVV_PB_20	15:50:13.91	−54:55:08.31	–	–	2.3	Ks	58721.1	15.8		Periodic	150.4	237
VVVv252	16:19:20.50	−50:23:17.50	FS	2700	2.3	Ks	58250.2	16.6		EX Lupi	–	264
VVV_PB_102	16:48:07.67	−45:14:33.81	–	–	2.3	Ks	58727.1	16.2		Periodic	25.1	237
VVV_PB_46	17:38:36.18	−23:22:29.51	–	–	2.3	Ks	58582.3	16.4		Periodic	435.7	237
YSO1027	13:53:49.10	−62:07:43.60	FS	6300	2.3	Ks	58704.0	13.4		FUor	–	264
VVV_PB_54	17:59:53.79	−19:58:28.99	II	–	2.3	Ks	56842.2	13.1		Periodic	269.4	237
VVVv584	15:09:36.37	−57:17:12.10	I	–	2.3	Ks	58704.1	12.8		–	–	148,149
VVV_PB_55	17:59:59.69	−22:26:24.87	–	–	2.3	Ks	58367.0	16.2		Periodic	409.4	237
Lucas et al. (2017) 614	22:32:10.37	+58:23:39.00	FS	5100	2.3	K	55860.3	12.7		–	–	156
Lucas et al. (2017) 160	18:46:32.14	−02:23:52.00	–	6200	2.3	K	55786.4	15.8		–	–	156
VVVv336	16:51:06.53	−45:43:24.20	I	–	2.3	Ks	58727.1	15.5		–	–	148,149
[KMH2014]J202946.21+391711.07	20:29:46.22	+39:17:11.00	–	1400	2.3	K	55826.3	15.0		–	–	156
VVVv808	17:16:32.78	−37:46:09.30	–	–	2.3	Ks	58708.2	16.4		–	–	148,149
Lucas et al. (2017) 115	06:53:36.48	−05:11:12.00	I	2900	2.3	K	55985.4	15.7		–	–	156
VVV_PB_34	16:59:47.97	−42:13:08.61	II	–	2.2	Ks	58726.1	15.5		Periodic	270.3	237
VVVv354	16:50:49.33	−44:22:28.30	–	–	2.2	Ks	57926.1	16.3		–	–	148,149
[KMH2014]J203431.41+411636.10	20:34:31.44	+41:16:36.00	I	1400	2.2	K	55854.2	12.0		–	–	156
VVV_PB_53	17:58:41.98	−22:32:01.18	FS	–	2.2	Ks	56833.1	12.7		Periodic	194.5	237
VVVv263	16:21:44.17	−50:20:41.40	I	–	2.2	Ks	58704.2	14.7		–	–	148,149
Lucas et al. (2017) 51	05:52:08.95	+27:02:16.00	–	14000	2.2	K	56002.3	11.9		EX Lupi	–	156
GPSV47	07:00:45.78	−03:20:23.22	I	6300	2.2	K	55198.5	14.6	Emission (IR)	–	–	126
Lucas et al. (2017) 276	19:16:58.10	+11:47:51.00	–	–	2.2	K	55670.6	12.9		–	–	156
VVVv139	15:09:32.71	−58:13:45.50	FS	–	2.2	Ks	58704.0	16.6		–	–	148,149
YSO3771	17:00:25.20	−42:48:14.50	I	2500	2.2	Ks	57230.2	17.2		Intermediate	–	264
GPSV65	20:32:22.56	+43:09:10.00	I	1400	2.2	K	55012.5	14.0		–	–	156
[KBP2009] 332	19:23:01.66	+14:26:03.00	–	5600	2.2	K	55787.3	15.8		–	–	156
GPSV51	20:06:41.98	+37:47:01.00	–	–	2.2	K	55069.3	14.5		–	–	156
Lucas et al. (2017) 476	20:26:32.18	+41:03:38.00	FS	1400	2.2	K	54741.3	13.4		–	–	156
Lucas et al. (2017) 355	19:41:38.14	+23:23:04.00	–	2300	2.2	K	55822.3	14.5		–	–	156
VVV_PB_6	12:59:08.47	−62:37:57.89	I	–	2.2	Ks	58706.0	15.6		Periodic	1302.0	237
VVV_PB_8	13:23:27.17	−62:16:03.60	FS	–	2.2	Ks	58703.0	14.4		Periodic	40.5	237
YSO1071	13:58:03.40	−60:52:29.50	I	4300	2.2	Ks	58703.0	15.1		Intermediate	–	264
Lucas et al. (2017) 616	22:37:00.07	+59:37:25.00	–	6600	2.1	K	56066.6	13.1		–	–	156
Lucas et al. (2017) 14	04:07:55.70	+50:33:00.00	FS	6300	2.1	K	56649.3	15.6		–	–	156
VVVv29	12:39:31.48	−63:07:20.40	I	–	2.1	Ks	58704.0	15.5		–	–	148,149
VVV_PB_35	17:03:42.66	−42:36:45.82	I	–	2.1	Ks	58263.3	16.1		Periodic	322.7	237
Lucas et al. (2017) 188	18:53:27.10	+01:15:54.00	–	3300	2.1	K	55784.3	15.6		–	–	156
GPSV70	20:36:47.38	+42:33:44.00	–	1400	2.1	K	55012.6	17.9		–	–	156
VVVv238	16:12:10.99	−51:54:17.20	I	–	2.1	Ks	58703.2	14.6		–	–	148,149
VVV_PB_49	17:48:27.38	−28:29:20.54	–	–	2.1	Ks	58347.1	17.1		Periodic	690.1	237
SPICY1540	08:50:31.42	−44:32:44.96	I	2600	2.1	WISE W2	60435.3	11.5		EX Lupi	–	287
VVV_PB_75	13:48:49.25	−61:53:36.16	–	–	2.1	Ks	58253.0	15.4		Periodic	257.0	237
Lucas et al. (2017) 27	05:21:52.20	+36:34:52.00	I	–	2.1	K	55985.4	13.6		–	–	156
VVVv259	16:21:41.05	−50:28:57.10	I	–	2.1	Ks	58651.3	17.2		–	–	148,149
VVV_PB_1	11:49:20.15	−61:25:33.86	FS	–	2.1	Ks	58604.2	13.7		Periodic	489.2	237
Lucas et al. (2017) 428	20:15:16.42	+34:53:42.00	FS	2000	2.1	K	55839.2	13.4		–	–	156
GPSV19	19:00:03.36	+01:05:29.00	–	–	2.1	K	55017.6	14.2		–	–	156
VVVv720	16:37:22.54	−46:13:29.10	I	–	2.1	Ks	58710.2	12.9		–	–	148,149
Lucas et al. (2017) 456	20:23:08.86	+36:45:17.00	–	–	2.1	K	55822.4	12.6		–	–	156
VVVv90	14:17:30.13	−61:50:54.80	I	–	2.0	Ks	58702.1	16.0		–	–	148,149
VVV_PB_33	16:51:16.11	−41:23:06.90	–	–	2.0	Ks	58726.1	16.0		Periodic	433.5	237
Lucas et al. (2017) 561	20:53:52.32	+44:01:48.00	–	600	2.0	K	55831.3	14.5		–	–	156
VVVv149	15:21:00.25	−57:51:53.30	I	–	2.0	Ks	58704.0	15.3		–	–	148,149
Lucas et al. (2017) 345	19:38:15.86	+21:08:07.00	–	–	2.0	K	55816.2	15.9		–	–	156
Lucas et al. (2017) 106	06:41:41.38	+09:38:48.00	–	800	2.0	K	56378.3	14.1		–	–	156
VVV_PB_42	17:29:16.22	−34:41:12.64	II	–	2.0	Ks	56517.0	14.2		Periodic	1323.4	237
Lucas et al. (2017) 112	06:48:10.46	−07:39:23.00	I	–	2.0	K	56980.4	15.4		–	–	156
VVVv809	17:17:13.14	−37:39:41.70	I	–	2.0	Ks	58708.2	16.0		–	–	148,149
Lucas et al. (2017) 121	06:59:32.57	−04:51:31.00	FS	2000	2.0	K	55972.4	14.0		–	–	156
VVV_PB_26	16:20:12.95	−49:27:56.61	–	–	2.0	Ks	58706.1	15.6		Periodic	43.7	237
UKIDSSJ183421.39−055937.7	18:34:21.39	−05:59:37.71	I/II?	2080	2.0	K	54338.9	15.0		Intermediate	–	255
SPICY9595	11:09:32.92	−60:29:52.24	FS	2600	2.0	WISE W2	60488.1	11.3		Intermediate?	–	287
HOPS297	05:41:23.28	−02:17:35.77	I	408	2.0	K	56985.4	15.9		FUor	–	226
VVVv213	15:56:17.48	−53:29:50.20	II	–	2.0	Ks	58726.0	14.7		–	–	148,149
VVVv539	14:30:13.42	−60:27:55.90	I	–	2.0	Ks	58703.0	16.3		–	–	148,149
VVVv319	16:45:17.04	−46:05:55.40	FS	–	1.9	Ks	58727.1	11.6		–	–	148,149
VVV_PB_44	17:33:35.72	−32:52:35.05	–	–	1.9	Ks	58363.0	15.1		Periodic	515.7	237
VVV_PB_57	18:02:09.46	−22:47:14.67	II	–	1.9	Ks	56838.1	13.5		Periodic	31.6	237
VVV_PB_19	15:42:30.18	−54:51:44.97	II	–	1.9	Ks	58719.1	10.9		Periodic	28.0	237
2MASSJ03470544+3243084	03:47:05.45	+32:43:08.24	FS	250	1.9	WISE W2	60181.4	9.9		FUor	–	226

Table 7.4: Candidate Eruptive YSOs.

ID	α (J2000)	δ (J2000)	Class	Distance (pc)	Δ	Filter	MJD	Magnitude	Spectroscopy(λ)	LC	P (d)	reference
GPSV46	04:33:33.81	+44:26:30.43	FS	–	1.9	K	55223.4	14.2	Outflow (IR)	–	–	126
VVV_PB_38	17:10:45.91	−39:52:32.28	FS	–	1.9	Ks	58723.1	14.7		Periodic	323.3	237
VVVv422	17:19:10.90	−39:02:27.10	I	–	1.9	Ks	58708.2	15.5		–	–	148,149
VVV_PB_21	15:57:29.99	−54:03:13.06	I	–	1.9	Ks	58706.1	17.4		Periodic	211.3	237
GPSV49	18:36:29.82	−02:47:20.60	I	–	1.8	K	55011.5	14.4	Outflow (IR)	–	–	126
SPICY15379	13:00:40.95	−63:51:39.60	–	–	1.8	WISE W2	60509.9	12.5		Intermediate	–	287
SPICY109469	20:24:50.92	+39:47:22.81	II	1800	1.8	WISE W2	60445.9	11.5		Intermediate	–	287
VVVv277	16:27:08.30	−49:00:19.80	I	–	1.8	Ks	58706.1	14.1		–	–	148,149
VVV_PB_11	14:19:33.22	−61:40:14.19	FS	–	1.8	Ks	58702.1	16.1		Periodic	1189.0	237
VVVv379	17:00:43.40	−43:02:19.10	I	–	1.8	Ks	58707.2	16.0		–	–	148,149
VVV_PB_9	13:53:22.04	−61:35:59.32	–	–	1.8	Ks	58703.0	16.4		Periodic	574.2	237
VVVv285	16:29:59.38	−48:49:55.30	I	–	1.8	Ks	58704.2	12.2		–	–	148,149
VVV_PB_31	16:43:46.09	−46:45:47.25	FS	–	1.8	Ks	58727.1	14.3		Periodic	512.6	237
HOPS343	05:47:59.07	+00:35:32.43	I	428	1.8	WISE W2	60207.5	9.7		FUor	–	226
VVV_PB_18	15:14:53.63	−59:20:19.84	–	–	1.7	Ks	58717.1	15.6		Periodic	388.2	237
VVVv216	15:58:44.58	−53:53:37.80	II	–	1.7	Ks	58726.0	16.0		–	–	148,149
VVV_PB_121	17:45:26.76	−29:24:19.71	–	–	1.7	Ks	57284.0	14.9		Periodic	597.4	237
VVVv632	15:44:09.80	−53:56:27.78	FS	2500	1.7	Ks	57932.2	11.7	Emission (IR)	Intermediate	–	215
VVV_PB_59	18:07:58.99	−20:27:30.22	–	–	1.7	Ks	58723.2	15.4		Periodic	730.9	237
VVV_PB_23	16:01:08.58	−52:48:48.03	FS	–	1.7	Ks	56483.1	15.9		Periodic	34.5	237
VVVv25	12:35:14.37	−62:47:15.60	FS	–	1.7	Ks	58706.0	11.6		–	–	148,149
VVV_PB_47	17:41:09.43	−30:38:30.26	II	–	1.7	Ks	56531.0	15.6		Periodic	228.5	237
VVV_PB_51	17:53:29.49	−25:17:40.50	–	–	1.7	Ks	57589.2	15.6		Periodic	527.8	237
VVVv671	16:12:38.40	−50:03:18.60	I	–	1.7	Ks	58705.1	14.7		–	–	148,149
VVV_PB_50	17:53:00.74	−28:38:27.99	–	–	1.7	Ks	58368.1	14.7		Periodic	523.2	237
VVV_PB_48	17:48:25.49	−29:12:19.54	–	–	1.6	Ks	58264.1	13.3		Periodic	729.8	237
VVVv388	17:03:02.23	−42:25:15.50	I	–	1.6	Ks	58707.2	14.9		–	–	148,149
VVVv554	14:43:15.42	−58:43:40.90	–	–	1.6	Ks	58706.0	15.4		–	–	148,149
VVVv362	16:53:04.23	−44:22:34.30	I	–	1.6	Ks	58727.1	15.2		–	–	148,149
VVVv7	12:02:02.67	−62:36:15.60	I	–	1.6	Ks	58653.1	15.9		–	–	148,149
VVVv14	12:12:18.13	−62:49:04.48	I	1900	1.6	Ks	58704.0	14.2	Emission (IR)	Intermediate	–	215
SPICY618	08:43:06.77	−41:14:29.40	I	990	1.6	WISE W2	60430.8	9.6		Intermediate?	–	287
VVV_PB_62	12:29:09.74	−62:49:30.72	–	–	1.6	Ks	58704.0	14.3		Periodic	19.8	237
VVV_PB_113	17:15:16.57	−36:28:28.52	–	–	1.6	Ks	58360.0	15.6		Periodic	200.0	237
VVVv625	15:43:17.95	−54:06:47.29	FS	2300	1.6	Ks	58719.1	15.1	Emission (IR)	EX Lupi	–	215
VVV_PB_36	17:04:03.35	−41:46:05.62	FS	–	1.6	Ks	58282.1	16.9		Periodic	474.7	237
VVVv710	16:32:25.37	−47:53:38.30	–	–	1.6	Ks	58710.1	15.4		–	–	148,149
VVV_PB_58	18:03:48.22	−22:49:18.55	FS	–	1.6	Ks	58367.0	15.1		Periodic	917.6	237
Antoniucci et al. (2014) 1247	22:29:33.41	+75:13:16.20	FS	300	1.5	WISE W2	60329.1	12.0		–	–	111
VVVv496	13:41:48.93	−62:06:35.30	FS	–	1.5	Ks	58703.0	15.3		–	–	148,149
VVVv634	15:46:16.79	−54:12:06.70	I	–	1.5	Ks	58719.1	16.0		–	–	148,149
VVV_PB_15	15:03:37.24	−58:29:51.42	–	–	1.5	Ks	58704.1	15.7		Periodic	230.6	237
VVVv795	17:13:12.64	−38:50:41.40	–	–	1.5	Ks	58263.2	16.0		–	–	148,149
VVVv633	15:45:03.52	−54:02:48.80	–	–	1.5	Ks	58719.1	15.3		–	–	148,149
VVV_PB_7	13:16:26.13	−63:43:06.95	I	–	1.5	Ks	58705.0	16.1		Periodic	585.5	237
VVV_PB_56	18:00:41.95	−23:47:22.36	FS	–	1.5	Ks	58367.0	14.4		Periodic	904.0	237
GPSV30	20:26:05.36	+42:09:32.94	I	1400	1.5	K	54747.3	15.4	Emission (IR)	–	–	126
SPICY108282	20:20:16.52	+41:05:30.15	II	1100	1.5	WISE W2	60445.5	13.2		Intermediate?	–	287
VVV_PB_115	17:25:00.43	−34:24:05.68	–	–	1.5	Ks	56532.1	13.9		Periodic	473.4	237
VVVv63	13:46:20.48	−62:25:30.81	FS	3500	1.5	Ks	58702.0	14.7	Emission (IR)	EX Lupi	–	215
VVVv480	13:16:50.32	−62:23:41.61	II	3700	1.5	Ks	58706.0	14.6	Emission (IR)	EX Lupi	–	215
VVV_PB_107	16:54:38.65	−45:15:48.01	–	–	1.5	Ks	56885.0	12.0		Periodic	33.0	237
SPICY3731	09:10:19.41	−48:39:26.92	III	1200	1.5	WISE W2	60445.9	11.9		Intermediate?	–	287
VVV_PB_101	16:44:30.97	−45:33:50.36	–	–	1.5	Ks	58726.1	16.5		Periodic	71.1	237
GPSV62	20:24:48.50	+39:12:25.70	–	1400	1.5	K	55070.3	12.9	Featureless (IR)	–	–	126
VVVv404	17:09:36.20	−41:47:40.70	I	–	1.5	Ks	58723.1	12.5		–	–	148,149
VVVv664	16:09:30.62	−50:48:22.40	FS	–	1.4	Ks	57214.0	14.3		–	–	148,149
VVVv161	15:29:39.43	−57:11:19.20	I	–	1.4	Ks	58704.1	16.6		–	–	148,149
VVV_PB_125	17:58:32.82	−23:48:21.30	–	–	1.4	Ks	58367.0	15.0		Periodic	50.5	237
VVVv65	13:47:51.09	−62:42:37.46	FS	3500	1.4	Ks	58704.0	13.4	Emission (IR)	EX Lupi	–	215
VVVv190	15:47:03.56	−54:43:10.20	II	4000	1.4	Ks	58721.1	14.3	Emission (IR)	Intermediate	–	215
VVVv596	15:22:03.45	−56:09:04.20	I	–	1.4	Ks	58704.1	16.4		–	–	148,149
VVVv636	15:51:46.28	−53:25:57.30	I	2800	1.4	Ks	58726.0	13.6	Emission (IR)	Intermediate	–	215
VVVv282	16:29:53.95	−49:09:48.70	FS	–	1.4	Ks	58704.2	15.6		–	–	148,149
VVVv8	12:00:59.11	−63:16:36.20	I	–	1.4	Ks	58653.1	15.9		–	–	148,149
VVVv749	16:54:48.52	−43:24:09.90	I	–	1.4	Ks	57082.4	15.5		–	–	148,149
VVVv260	16:21:05.71	−50:19:16.40	I	–	1.4	Ks	58704.2	11.3		–	–	148,149
VVVv494	13:40:38.29	−61:47:00.30	I	–	1.4	Ks	58703.0	15.7		–	–	148,149
VVVv167	15:30:21.60	−56:38:44.50	I	–	1.3	Ks	58704.1	12.0		–	–	148,149
VVVv352	16:51:53.69	−44:38:51.00	II	–	1.3	Ks	58727.1	15.7		–	–	148,149
VVV_PB_63	12:30:06.35	−62:53:19.02	–	–	1.3	Ks	58704.0	13.8		Periodic	47.7	237
VVV_PB_105	16:54:18.76	−43:14:36.41	–	–	1.3	Ks	58726.1	15.8		Periodic	42.3	237

Table 7.5: Candidate Eruptive YSOs.

ID	α (J2000)	δ (J2000)	Class	Distance (pc)	Δ	Filter	MJD	Magnitude	Spectroscopy(λ)	LC	P (d)	reference
VVV_PB_126	17:58:58.06	−23:51:52.08	–	–	1.3	Ks	56838.1	15.0		Periodic	399.0	237
VVVv489	13:26:54.40	−62:03:18.50	I	–	1.3	Ks	58703.0	14.0		–	–	148,149
VVVv412	17:07:19.21	−40:30:41.50	FS	–	1.3	Ks	58727.1	10.9		–	–	148,149
VVVv686	16:19:16.95	−50:02:43.20	I	–	1.3	Ks	58706.1	15.4		–	–	148,149
VVVv249	16:17:24.00	−50:36:58.00	–	–	1.3	Ks	58706.1	15.9		–	–	148,149
VVVv746	16:53:44.38	−43:28:19.40	I	–	1.3	Ks	58726.1	10.7		–	–	148,149
VVVv193	15:49:14.34	−54:34:23.70	I	–	1.2	Ks	58726.0	13.7		–	–	148,149
VVVv575	15:05:22.47	−57:40:02.50	II	–	1.2	Ks	57585.1	14.4		–	–	148,149
VVVv281	16:27:49.92	−48:51:44.00	FS	–	1.2	Ks	58706.1	14.8		–	–	148,149
2MASSJ05423314−1001197	05:42:33.14	−10:01:19.81	FS	450	1.2	WISE W2	60363.4	7.3		FUor	–	226
VVVv176	15:38:37.25	−55:28:21.40	I	–	1.2	Ks	58721.1	14.7		–	–	148,149
VVVv583	15:10:51.98	−57:43:37.10	I	–	1.2	Ks	58704.1	14.8		–	–	148,149
VVVv658	16:06:14.37	−51:54:06.10	II	–	1.2	Ks	58705.1	11.4		–	–	148,149
VVV_PB_103	16:48:19.14	−45:04:12.60	–	–	1.2	Ks	56507.0	15.8		Periodic	464.5	237
VVV_PB_130	18:11:35.63	−20:51:27.32	–	–	1.2	Ks	58721.2	11.8		Periodic	148.5	237
VVVv402	17:05:33.12	−41:15:47.20	I	–	1.2	Ks	56511.1	14.3		–	–	148,149
VVVv110	14:43:51.27	−60:21:50.90	I	–	1.2	Ks	58720.0	14.2		–	–	148,149
VVVv738	16:50:46.51	−43:50:41.50	–	–	1.2	Ks	58726.1	16.2		–	–	148,149
VVVv328	16:47:37.86	−45:39:48.10	II	–	1.2	Ks	57219.1	14.6		–	–	148,149
VVVv396	17:03:47.02	−41:23:26.50	FS	–	1.2	Ks	58727.1	11.8		–	–	148,149
VVVv344	16:54:08.46	−45:19:39.80	FS	–	1.1	Ks	58727.1	15.3		–	–	148,149
Antoniucci et al. (2014) 140	03:33:27.31	+31:07:10.20	I	250	1.1	WISE W2	60337.0	10.8		–	–	111
VVVv558	14:46:56.53	−59:29:36.60	I	–	1.1	Ks	58706.0	15.9		–	–	148,149
VVVv638	15:53:19.21	−53:25:38.40	FS	–	1.1	Ks	58726.0	12.1		–	–	148,149
VVVv265	16:20:47.39	−50:03:59.40	FS	–	1.1	Ks	58706.1	13.4		–	–	148,149
VVVv79	13:59:35.30	−62:10:36.10	–	–	1.1	Ks	58704.0	16.2		–	–	148,149
SPICY2692	08:59:57.09	−47:09:16.20	II	1800	1.1	WISE W2	60440.8	11.9		Intermediate?	–	287
VVV_PB_65	12:59:49.01	−63:45:35.65	–	–	1.1	Ks	58705.0	16.5		Periodic	595.6	237
VVV_PB_100	16:40:45.34	−46:49:17.77	–	–	1.1	Ks	58727.1	11.1		Periodic	484.0	237
VVV_PB_97	16:17:23.92	−50:32:41.32	–	–	1.1	Ks	58706.1	15.6		Periodic	58.1	237
VVV_PB_69	13:18:10.62	−62:51:57.74	–	–	1.1	Ks	58705.0	13.1		Periodic	356.3	237
VVV_PB_87	15:43:04.34	−56:10:26.63	–	–	1.1	Ks	58721.1	14.5		Periodic	262.0	237
VVV_PB_90	15:52:10.67	−53:58:42.92	–	–	1.1	Ks	58726.0	13.4		Periodic	935.0	237
VVV_PB_124	17:54:21.07	−30:17:43.85	–	–	1.1	Ks	58264.3	13.0		Periodic	46.1	237
VVVv199	15:52:56.17	−54:28:52.80	I	–	1.1	Ks	58726.0	14.9		–	–	148,149
VVVv191	15:47:07.98	−54:43:02.70	I	–	1.1	Ks	58721.1	15.0		–	–	148,149
VVVv165	15:29:41.48	−56:40:20.30	I	–	1.1	Ks	57586.1	13.8		–	–	148,149
VVVv67	13:48:38.70	−62:46:27.30	I	–	1.1	Ks	58704.0	15.4		–	–	148,149
VVVv657	16:05:01.51	−51:53:46.90	I	–	1.1	Ks	58705.1	14.9		–	–	148,149
VVVv407	17:10:14.46	−41:31:59.10	I	–	1.1	Ks	58723.1	15.9		–	–	148,149
Antoniucci et al. (2014) 192	03:43:44.49	+31:43:09.40	FS	250	1.1	WISE W2	60339.2	6.9		–	–	111
VVVv386	17:01:05.37	−42:30:08.40	–	–	1.1	Ks	58707.2	16.6		–	–	148,149
VVVv145	15:16:56.42	−58:03:26.30	I	–	1.0	Ks	58704.0	14.1		–	–	148,149
VVVv536	14:25:24.24	−60:23:52.50	FS	–	1.0	Ks	58703.0	14.7		–	–	148,149
VVVv36	12:59:17.72	−63:30:08.40	FS	–	1.0	Ks	58705.0	11.3		–	–	148,149
[TLL2016] Per−emb−40−A	03:33:16.68	+31:07:54.90	I	290	1.0	WISE W2	60337.0	9.4		FUor	–	226
VVVv262	16:21:59.58	−50:26:20.60	–	–	1.0	Ks	58704.2	15.6		–	–	148,149
VVVv130	15:00:43.33	−59:22:29.70	I	–	1.0	Ks	58717.1	12.3		–	–	148,149
VVVv327	16:47:46.43	−45:54:44.90	II	–	1.0	Ks	58727.1	14.7		–	–	148,149
VVV_PB_92	16:02:38.65	−52:32:03.34	–	–	1.0	Ks	57575.1	13.8		Periodic	597.7	237
VVV_PB_118	17:42:27.50	−30:22:01.26	–	–	1.0	Ks	58363.0	14.0		Periodic	345.9	237
VVV_PB_95	16:14:17.64	−50:55:33.61	–	–	1.0	Ks	58705.1	15.9		Periodic	266.7	237
VVV_PB_73	13:36:43.94	−62:32:16.27	–	–	1.0	Ks	58702.0	14.3		Periodic	575.3	237
2MASSJ21533472+4720439	21:53:34.70	+47:20:44.00	FS	800	0.9	WISE W2	60478.4	7.4	Emission (IR)	Intermediate	–	249
SPICY103981	19:30:46.06	+17:28:36.70	III	–	0.9	WISE W2	60417.9	10.5		Intermediate?	–	287
SPICY29587	15:48:54.75	−55:25:09.70	II	–	0.9	WISE W2	60367.2	8.7		FUor?	–	287
Antoniucci et al. (2014) 828	16:28:57.88	−24:40:55.10	I	125	0.8	WISE W2	60367.7	10.0		–	–	111
SPICY28598	15:42:41.17	−55:48:25.18	III	–	0.7	WISE W2	60366.7	12.3		Intermediate?	–	287
SPICY111682	20:31:44.70	+39:00:11.37	II	3000	0.6	WISE W2	60447.5	8.1		Intermediate	–	287
SPICY111115	20:30:21.22	+43:01:02.56	?	1900	0.5	WISE W2	60450.2	9.7		EX Lupi?	–	287
Antoniucci et al. (2014) 999	18:28:44.03	+00:53:37.70	I	260	0.5	WISE W2	60396.9	9.6		–	–	111
Antoniucci et al. (2014) 354	04:41:08.27	+25:56:07.30	II	150	0.4	WISE W2	60349.4	8.9		–	–	111
Antoniucci et al. (2014) 1009	18:28:51.23	+00:19:27.20	I	260	0.4	WISE W2	60397.4	11.6		–	–	111
Antoniucci et al. (2014) 191	03:43:36.03	+31:50:09.00	FS	250	0.4	WISE W2	60339.2	12.1		–	–	111
Antoniucci et al. (2014) 31	03:28:50.63	+30:42:44.60	FS	250	0.3	WISE W2	60336.0	10.8		–	–	111
Antoniucci et al. (2014) 728	16:27:03.00	−24:26:14.90	FS	125	0.3	WISE W2	60367.3	9.7		–	–	111