Table 3. Properties of Variable candidates

ID	Class	Band	N	ΔW	SD/SD_{fid}	FAP_{LSP}	FAP_{Lin}	Sec.	Stoch.
G049.4681-0.0089	II	W1	20	0.2	1.0	2.4E−04	8.3E−05	curved	None
		W2	20	0.2	1.2	3.9E−05	9.8E−06	curved	None
G049.4035-0.4317	II	W1	17	1.2	1.3	1.1E−01	3.1E−01	None	drop
		W2	17	0.2	0.5	2.8E−01	6.9E−01	None	None
G048.8184-0.0766	II	W1	20	0.2	0.7	6.0E−04	2.3E−05	linear	None
		W2	20	0.2	1.1	3.5E−05	1.4E−06	linear	None
G049.2633-0.1759	II	W1	15	0.3	0.9	6.5E−01	8.0E−01	None	burst
		W2	15	0.2	0.5	5.8E−02	9.1E−02	None	None
G048.6186+0.1927	II	W1	15	0.5	1.8	1.1E−02	1.0E−02	None	None
		W2	15	0.6	3.0	4.9E−03	1.9E−03	curved	irregular
G048.5943+0.1655	II	W1	20	0.2	0.7	8.8E−02	5.4E−01	None	burst
		W2	20	0.1	0.5	9.0E−01	1.5E−01	None	None
G048.6579+0.1414	II	W1	20	0.9	9.7	1.9E−02	2.2E−02	None	burst
		W2	20	1.2	13.3]	1.6E−02	3.3E−02	None	burst
G048.8177-0.0766	II	W1	20	0.2	0.7	1.5E−03	6.2E−05	linear	None
		W2	20	0.2	1.1	3.5E−05	1.2E−06	linear	None
G049.5092+0.2532	II	W1	20	0.3	0.8	1.1E−03	3.8E−05	linear	None
		W2	20	0.5	1.0	3.5E−05	2.0E−07	linear	None
G048.8184-0.3093	II	W1	20	0.2	0.5	1.0E−01	7.1E−02	None	None
		W2	20	0.2	1.2	4.0E−03	4.1E−02	curved	None
G048.7741-0.3828	II	W1	20	0.0	0.3	5.4E−01	5.3E−01	None	None
		W2	20	0.7	1.5	1.0E−02	5.8E−01	periodic	None
G049.5072-0.0249	II	W1	20	0.1	0.4	2.0E−02	8.2E−03	None	None
		W2	20	0.2	1.3	3.8E−04	3.2E−05	curved	None
G049.6241+0.0279	II	W1	20	0.2	0.7	8.0E−01	7.0E−01	None	None
		W2	20	0.3	1.6	5.4E−04	8.5E−01	periodic	None
G048.9081-0.3552	II	W1	20	0.8	2.6	4.6E−03	7.2E−01	periodic	None
		W2	20	1.1	3.7	2.5E−03	4.0E−01	periodic	irregular
G049.1831-0.2111	II	W1	20	0.3	0.8	4.8E−03	5.0E−01	curved	None
		W2	20	0.4	1.2	5.9E−04	4.9E−03	curved	None
G048.8513-0.4066	II	W1	21	0.3	0.7	1.0E−03	1.8E−04	None	None
		W2	21	0.2	0.9	9.6E−05	7.3E−06	curved	None
G048.8998-0.4035	II	W1	20	0.2	0.8	5.8E−02	1.3E−01	None	None
		W2	20	0.3	1.4	9.0E−03	4.5E−01	curved	None
G048.8864-0.4152	II	W1	20	0.4	1.2	7.5E−04	4.5E−01	curved	None
		W2	20	0.6	2.1	2.8E−03	5.9E−01	curved	None
G049.5688-0.2725	II	W1	20	0.4	0.9	3.4E−04	2.3E−02	periodic	None
		W2	20	0.3	0.6	9.9E−04	1.5E−04	None	None
G049.4348-0.5204	II	W1	21	0.2	0.4	1.2E−01	4.1E−01	None	None
		W2	21	0.2	0.7	1.2E−01	9.4E−01	None	burst
G049.1230+0.1173	II	W1	20	0.4	1.7	3.5E−04	9.1E−03	curved	None
		W2	20	0.5	3.2	8.0E−05	9.9E−03	curved	irregular
G048.8939-0.0851	II	W1	20	0.1	0.8	1.3E−02	3.4E−03	None	None
		W2	20	0.2	0.8	9.9E−03	3.0E−02	curved	None
G049.2644-0.0816	II	W1	14	0.3	1.1	7.8E−03	2.5E−02	None	None
		W2	14	0.4	1.7	8.9E−04	1.6E−03	curved	None
G049.3897-0.0152	II	W1	21	0.5	1.0	9.2E−06	1.8E−06	linear	None
		W2	21	0.4	1.8	4.1E−03	5.0E−04	None	None
G049.6639+0.1099	I	W1	13	1.1	1.8	4.6E−02	9.4E−01	None	drop
		W2	13	0.8	2.2	2.4E−03	9.2E−01	curved	drop

This table summarizes the variability characteristics of the selected sources, including secular and stochastic variations in W1 and W2 bands.

Table 3. Continued

ID	Class	Band	N	ΔW	SD/SD$_{fid}$	FAP$_{LSP}$	FAP$_{Lin}$	Sec.	Stoch.
G048.9568-0.2974	I	W1	20	0.3	1.2	5.9E−03	3.8E−01	curved	None
		W2	20	0.5	1.9	1.3E−05	2.7E−01	curved	None
G049.5524-0.1221	I	W1	20	1.3	4.7	2.3E−02	1.3E−02	None	irregular
		W2	20	1.3	6.8	5.9E−03	1.7E−03	None	irregular
G049.4402-0.4135	II	W1	20	0.2	1.2	5.5E−05	8.1E−03	curved	None
		W2	20	0.3	0.7	4.2E−06	6.3E−03	None	None
G048.6020-0.8727	II	W1	20	0.9	4.7	1.3E−01	3.3E−01	None	irregular
		W2	20	0.9	6.5	1.5E−02	2.0E−01	None	irregular
G049.4773-0.4404	I	W1	21	0.3	0.4	7.5E−02	4.8E−01	None	None
		W2	21	0.2	1.0	1.9E−07	5.8E−09	linear	None
G048.9811-1.0764	I	W1	20	0.7	1.2	1.3E−06	3.2E−06	curved	None
		W2	20	0.7	3.0	7.6E−13	1.2E−12	linear	irregular
G049.2339-0.9960	II	W1	21	0.5	1.5	7.6E−04	1.6E−02	curved	None
		W2	21	0.5	2.1	4.0E−04	2.4E−02	curved	None
G048.6641+0.2298	II	W1	20	0.2	0.7	1.8E−03	5.2E−05	None	None
		W2	20	0.3	1.5	1.2E−03	2.3E−05	linear	None
G049.3850+0.4985	I	W1	20	0.6	3.9	3.3E−02	1.9E−02	None	irregular
		W2	20	0.4	3.8	1.6E−01	9.5E−01	None	irregular
G049.4537+0.5111	II	W1	20	0.9	3.2	3.1E−04	3.6E−04	curved	irregular
		W2	20	1.0	4.6	3.1E−05	2.5E−04	curved	irregular
G049.0412+0.2641	II	W1	20	0.4	2.7	1.7E−01	9.9E−01	None	None
		W2	20	0.3	3.4	3.9E−02	9.9E−01	None	irregular
G048.8405+0.1438	I	W1	20	0.7	4.4	1.0E−02	9.2E−01	None	irregular
		W2	20	0.5	1.1	5.6E−02	8.5E−01	None	None
G048.6729-0.2449	II	W1	20	0.3	1.1	5.1E−03	2.2E−02	curved	None
		W2	20	0.4	2.7	8.2E−03	1.4E−01	curved	None
G049.3938-0.0145	II	W1	21	0.3	1.3	1.1E−01	7.5E−01	None	None
		W2	21	0.4	2.2	7.0E−02	5.2E−01	None	burst
G049.4174-0.0149	I	W1	21	0.3	1.1	3.3E−05	1.1E−04	curved	None
		W2	21	0.4	2.3	3.6E−06	3.3E−05	curved	None
G049.0205-0.2484	II	W1	20	0.3	0.6	9.7E−02	2.7E−01	None	None
		W2	20	0.2	0.8	8.3E−03	9.5E−01	curved	None
G049.4673-0.0097	II	W1	20	0.1	0.8	1.5E−05	1.9E−05	None	None
		W2	20	0.2	1.2	6.8E−07	3.6E−07	curved	None
G049.0215-0.2604	II	W1	20	0.8	5.1	5.6E−02	6.3E−01	None	burst
		W2	20	0.9	5.0	4.4E−02	6.4E−01	None	irregular
G048.8979-0.3660	II	W1	20	0.1	1.2	2.9E−06	8.3E−03	curved	None
		W2	20	0.1	1.4	9.3E−06	1.3E−03	curved	None
G049.0591-0.2822	II	W1	20	0.3	0.7	1.3E−03	6.3E−04	curved	None
		W2	20	0.2	0.4	2.0E−05	9.0E−06	None	None
G049.5546-0.0342	I	W1	20	1.3	4.0	5.8E−04	1.6E−03	None	irregular
		W2	20	1.0	7.4	1.8E−05	7.9E−06	linear	irregular
G049.1597-0.2613	I	W1	20	1.3	3.9	1.1E−06	6.8E−01	curved	irregular
		W2	20	0.8	6.5	1.8E−04	8.9E−01	None	irregular
G049.1948-0.2444	I	W1	20	1.0	2.6	5.5E−01	9.4E−01	None	None
		W2	20	0.6	3.7	4.3E−01	9.7E−01	None	irregular
G048.9610-0.3963	I	W1	20	0.4	2.0	1.7E−03	1.5E−03	curved	None
		W2	20	0.4	2.5	7.3E−01	2.7E−01	None	None
G048.8121-0.4943	II	W1	20	0.2	1.3	4.9E−07	2.4E−03	None	None
		W2	20	0.2	2.4	3.5E−10	8.4E−05	linear	None

This table summarizes the variability characteristics of the selected sources, including secular and stochastic variations in W1 and W2 bands.

Table 3. Continued

ID	Class	Band	N	ΔW	SD/SD$_{fid}$	FAP$_{LSP}$	FAP$_{Lin}$	Sec.	Stoch.
G049.7912-0.0249	II	W1	20	0.2	1.0	6.9E−05	9.9E−07	linear	None
		W2	20	0.2	1.6	1.5E−03	2.8E−04	None	None
G049.5994-0.2495	I	W1	19	0.3	1.0	1.6E−05	3.3E−05	curved	None
		W2	19	0.1	0.3	6.3E−02	8.7E−01	None	None
G049.3756-0.4989	II	W1	21	0.3	1.1	2.9E−04	9.3E−01	curved	None
		W2	21	0.4	1.4	7.0E−04	2.2E−01	curved	None
G049.4344-0.5547	II	W1	21	0.5	2.8	1.6E−02	8.3E−03	None	burst
		W2	21	0.7	3.8	1.2E−03	4.2E−03	None	burst
G049.6805-0.4378	II	W1	21	0.2	1.2	2.4E−04	3.0E−01	periodic	None
		W2	21	0.2	0.7	5.8E−02	5.3E−01	None	None
G049.7039-0.4553	I	W1	18	0.5	0.7	4.6E−01	1.3E−02	None	None
		W2	18	1.1	3.2	8.6E−03	2.8E−03	periodic	irregular
G049.7138-0.4570	II	W1	21	0.6	1.6	3.7E−07	1.4E−03	None	burst
		W2	21	0.6	3.1	3.2E−06	2.6E−04	None	burst
G049.7115-0.4644	II	W1	17	0.3	0.7	2.8E−02	5.8E−02	None	None
		W2	17	0.3	1.1	1.8E−04	3.2E−04	curved	None
G049.6130-0.5213	II	W1	21	0.3	1.0	9.7E−04	4.0E−02	curved	None
		W2	21	0.3	1.2	9.2E−04	4.9E−03	curved	None
G049.8567-0.4982	II	W1	21	1.6	2.1	1.4E−01	6.6E−01	None	None
		W2	21	1.0	3.5	4.3E−01	9.9E−01	None	irregular
G049.8001-0.5490	II	W1	21	0.3	2.5	3.0E−04	8.7E−01	curved	None
		W2	21	0.3	0.5	5.6E−03	8.2E−01	None	None
G049.9092-0.5552	II	W1	21	0.9	4.3	2.5E−02	9.9E−03	None	drop
		W2	21	0.8	4.0	6.2E−04	8.1E−05	linear	drop
G049.1180-0.9973	I	W1	21	1.2	5.4	3.8E−02	5.2E−01	None	irregular
		W2	21	1.4	7.7	2.4E−02	1.3E−01	None	irregular
G049.4987-0.8575	II	W1	21	0.1	1.0	7.9E−09	1.1E−02	curved	None
		W2	21	0.1	0.3	1.2E−08	2.7E−02	None	None
G049.5767-0.3472	I	W1	20	0.4	0.8	6.2E−03	6.0E−01	periodic	None
		W2	20	0.2	0.7	5.3E−02	1.0E+00	None	None
G049.4176-0.4873	td	W1	19	0.2	0.7	4.7E−02	1.0E−01	None	None
		W2	19	0.3	0.9	4.0E−03	4.9E−01	periodic	None
G049.4303-0.2394	II	W1	20	1.4	11.5]	2.0E−04	4.3E−02	None	burst
		W2	20	1.5	17.4]	2.7E−04	3.3E−02	None	irregular
G049.4887-0.0792	II	W1	21	0.4	1.0	7.7E−01	7.7E−02	None	burst
		W2	21	0.1	0.3	9.3E−02	7.4E−01	None	None
G049.2401+0.4045	td	W1	20	0.9	2.0	2.2E−03	6.6E−04	curved	None
		W2	20	0.7	1.9	3.6E−02	9.6E−03	None	None
G048.2955+0.1098	II	W1	20	0.3	1.0	1.1E−02	2.1E−02	curved	None
		W2	20	0.3	1.5	5.4E−05	2.7E−03	curved	None
G049.6240+0.0286	II	W1	20	0.2	0.7	8.0E−01	7.0E−01	None	None
		W2	20	0.3	1.6	5.4E−04	8.5E−01	periodic	None
G049.3394+0.3884	II	W1	20	0.6	4.2	2.0E−02	1.8E−01	None	drop
		W2	20	0.5	3.7	9.3E−02	1.1E−01	None	drop
G048.6803-0.4013	II	W1	20	0.7	6.6	7.3E−03	1.3E−03	None	irregular
		W2	20	0.7	2.0	2.3E−01	6.4E−02	None	None
G049.0883+0.0412	II	W1	20	0.2	0.9	4.8E−03	3.8E−05	linear	None
		W2	20	0.2	1.2	1.3E−04	8.4E−06	linear	None
G049.1163-0.0856	II	W1	20	0.4	1.7	4.8E−05	3.1E−06	curved	None
		W2	20	0.4	2.4	8.1E−06	2.5E−06	curved	None

This table summarizes the variability characteristics of the selected sources, including secular and stochastic variations in W1 and W2 bands.

Table 3. Continued

ID	Class	Band	N	ΔW	SD/SD$_{fid}$	FAP$_{LSP}$	FAP$_{Lin}$	Sec.	Stoch.
G049.1440-0.6791	II	W1	20	0.1	0.9	1.7E−04	3.4E−03	None	None
		W2	20	0.2	1.5	1.3E−04	5.4E−05	linear	None
G049.4457-0.6127	II	W1	20	0.2	0.8	2.6E−02	3.9E−02	None	None
		W2	20	0.4	1.4	5.8E−03	1.4E−01	curved	None
G048.4628+0.1060	II	W1	19	0.3	0.6	3.9E−01	6.6E−03	None	None
		W2	19	0.4	0.8	1.5E−06	3.8E−09	linear	None
G048.1658-0.1066	td	W1	20	0.6	2.6	4.4E−02	2.4E−01	None	None
		W2	20	0.8	4.4	1.3E−02	1.2E−01	None	irregular
G048.5714-0.3327	II	W1	20	0.5	1.3	9.1E−03	7.2E−01	curved	None
		W2	20	0.6	2.5	2.8E−02	5.5E−01	None	None
G049.8856-0.3993	II	W1	21	0.3	1.7	8.5E−04	2.4E−01	curved	None
		W2	21	0.3	2.2	3.0E−04	3.3E−01	curved	None
G049.3709+0.0118	I	W1	21	0.3	0.5	2.7E−02	2.9E−02	None	None
		W2	21	0.2	0.9	2.4E−04	7.6E−06	linear	None
G049.5063-0.0249	II	W1	18	0.1	0.4	8.7E−02	5.5E−02	None	None
		W2	18	0.2	0.9	1.1E−04	2.8E−06	linear	None
G048.1520-0.1201	II	W1	20	0.1	1.1	7.2E−04	2.3E−05	linear	None
		W2	20	0.1	1.0	2.5E−03	3.6E−04	curved	None
G049.2823-00.1891	I	W1	20	0.0	0.4	2.1E−02	9.8E−02	None	None
		W2	20	0.1	1.1	5.2E−04	2.5E−02	None	burst
G049.7103+00.0721	I	W1	20	0.2	1.1	2.3E−03	2.5E−03	curved	None
		W2	20	0.2	1.3	4.0E−03	6.2E−04	None	None
G049.9626+00.2718	I	W1	16	0.5	1.8	9.2E−03	5.7E−03	None	None
		W2	16	0.6	3.6	1.9E−03	4.6E−04	None	irregular
G049.9977-00.1261	I	W1	13	0.2	0.6	5.2E−03	7.4E−01	None	None
		W2	13	0.3	1.1	9.7E−04	5.4E−01	periodic	None

This table summarizes the variability characteristics of the selected sources, including secular and stochastic variations in W1 and W2 bands.