Table 1. Transiting planetary systems known as of September/2010. Planets are ordered in increasing coronal densities of their host stars, taken as a proxy for the detection of light curves asymmetries. The columns are: (1) the planet name, (2) mass, (3) radius, (4) orbital period, and (5) semi-major axis, (6) the distance to the system, (7) the host star spectral type, (8) mass, and (9) radius, (10) the sky-projected stellar rotation velocity, (11) the maximum temperature required for shock formation; (12) the local density around the planet for the confined corona, and (13) considering the coronal density scales with Ω_*, (14) the size of the planet magnetosphere for a planet with $B_p = 14$ G and a star with $B_* = 1$ G, (15) the same but for $B_* = 100$ G, (16) the minimum planetary magnetic field relative to the stellar one ($f = (B_p/B_*)_{\rm min}$) that is required to sustain a magnetosphere. Online material.

Planet Name (1)	M_p ($M_{\rm J}$) (2)	R_p ($R_{\rm J}$) (3)	$P_{\rm orb}$ (d) (4)	$R_{\rm orb}$ (AU) (5)	d (pc) (6)	Spec. Type (7)	M_* ($M_\odot$) (8)	R_* ($R_\odot$) (9)	$v\sin(i)$ (km/s) (10)	$T_{\rm max}$ (MK) (11)	$\log\left[\frac{n}{\rm cm^{-3}}\right]$ unsc. (12)	$\log\left[\frac{n}{\rm cm^{-3}}\right]$ scaled (13)	r_M/R_p (1G) (14)	r_M/R_p (100G) (15)	f (%) (16)
WASP-12b	1.41	1.79	1.09	0.023	267	G0	1.35	1.57	2.2	3.96	7.02	6.86	7.5	1.6	3.2
OGLE-TR-56b	1.30	1.20	1.21	0.023	1500	G	1.17	1.32	3.2	3.32	6.71	6.80	8.8	1.9	2.0
WASP-19b	1.15	1.31	0.79	0.016	–	G8V	0.95	0.93	4	3.61	6.62	6.95	9.1	2.0	1.8
SWEEPS-11	9.70	1.13	1.80	0.030	8500	–	1.10	1.45	–	2.62	6.51	–	10.7	2.3	1.1
WASP-4b	1.12	1.42	1.34	0.023	300	G7V	0.90	1.15	2	2.55	6.43	6.37	10.3	2.2	1.3
WASP-18b	10.43	1.17	0.94	0.020	100	F9	1.28	1.23	11	3.11	6.40	7.05	8.6	1.9	2.2
CoRoT-7b	0.02	0.15	0.85	0.017	150	K0V	0.93	0.87	3.5	3.36	6.38	6.69	10.2	2.2	1.3
CoRoT-14b	7.60	1.09	1.51	0.027	1340	F9V	1.13	1.21	–	2.99	6.36	–	11.5	2.5	0.91
HAT-P-7b	1.80	1.42	2.20	0.038	320	–	1.47	1.84	3.8	2.29	6.21	6.22	10.6	2.3	1.2
OGLE-TR-132b	1.17	1.25	1.69	0.031	1500	F	1.26	1.34	5	2.24	5.78	6.05	11.8	2.5	0.84
CoRoT-1b	1.03	1.49	1.51	0.025	460	G0V	0.95	1.11	5.2	1.98	5.71	6.08	11.8	2.6	0.84
TrES-3	1.91	1.31	1.31	0.023	–	G	0.92	0.81	1.5	2.65	5.63	5.60	14.3	3.1	0.47
WASP-5b	1.64	1.17	1.63	0.027	297	G4V	1.02	1.08	3.5	2.15	5.63	5.84	13.0	2.8	0.63
OGLE-TR-211b	0.75	1.26	3.68	0.051	–	–	1.33	1.64	–	1.86	5.54	–	16.0	3.5	0.33
HAT-P-13b	0.85	1.28	2.92	0.043	214	G4	1.22	1.56	2.9	1.63	5.37	5.33	14.1	3.0	0.49
WASP-14b	7.73	1.26	2.24	0.037	160	F5V	1.32	1.30	2.8	2.08	5.29	5.32	14.7	3.2	0.43
HAT-P-24b	0.69	1.24	3.36	0.047	306	–	1.19	1.32	–	1.83	5.15	–	18.2	3.9	0.23
WASP-26b	1.02	1.32	2.76	0.040	250	G0	1.12	1.34	2.4	1.63	5.13	5.08	15.4	3.3	0.38
CoRoT-12b	0.92	1.44	2.83	0.040	1150	G2V	1.08	1.12	–	1.92	5.09	–	18.6	4.0	0.22
Kepler-4b	0.08	0.36	3.21	0.046	550	G0	1.22	1.49	2.2	1.57	5.06	4.93	15.8	3.4	0.35
WASP-33b	4.1	1.5	1.22	0.03	116	A5	1.50	1.44	90	1.03	4.92	6.42	9.1	2.0	1.8
WASP-1b	0.86	1.48	2.52	0.038	–	F7V	1.24	1.38	5	1.58	4.87	5.13	14.3	3.1	0.48
Kepler-5b	2.11	1.43	3.55	0.051	–	–	1.37	1.79	4.8	1.28	4.69	4.82	14.6	3.2	0.45
HAT-P-4b	0.68	1.27	3.06	0.045	310	F	1.26	1.59	5.5	1.26	4.54	4.78	14.5	3.1	0.46
OGLE-TR-113b	1.24	1.11	1.43	0.023	1500	K	0.78	0.77	5	1.62	4.51	5.03	15.3	3.3	0.38
Kepler-6b	0.67	1.32	3.23	0.046	–	–	1.21	1.39	3	1.41	4.48	4.52	16.9	3.7	0.28
TrES-2	1.25	1.26	2.47	0.036	220	G0V	0.98	1.00	2	1.60	4.48	4.48	18.3	4.0	0.22
XO-2b	0.57	0.97	2.62	0.037	149	K0V	0.98	0.96	1.3	1.64	4.39	4.22	19.8	4.3	0.18
HAT-P-5b	1.06	1.26	2.79	0.041	340	–	1.16	1.17	2.6	1.57	4.35	4.40	18.0	3.9	0.24
HD 149026b	0.36	0.61	2.88	0.043	78.9	G0 IV	1.30	1.50	6	1.30	4.31	4.61	14.8	3.2	0.43
WASP-37b	1.70	1.14	3.58	0.043	338	G2	0.85	0.98	–	1.40	4.30	–	22.9	5.0	0.11
OGLE-TR-182b	1.06	1.47	3.98	0.051	–	–	1.14	1.14	–	1.60	4.27	–	23.1	5.0	0.11
HAT-P-16b	4.19	1.29	2.78	0.041	235	F8	1.22	1.24	3.5	1.51	4.27	4.42	17.2	3.7	0.27
SWEEPS-04	3.80	0.81	4.20	0.055	8500	–	1.24	1.18	–	1.61	4.10	–	24.1	5.2	0.10
CoRoT-11b	2.33	1.43	2.99	0.044	560	F6V	1.27	1.37	40[a]	1.01	4.05	5.21	16.4	3.6	0.31
CoRoT-5b	0.47	1.39	4.04	0.049	400	F9V	1.00	1.19	1	1.26	4.05	3.67	21.5	4.7	0.14
HAT-P-25b	0.57	1.19	3.65	0.047	297	G5	1.01	0.96	–	1.55	3.92	–	25.1	5.4	0.09
WASP-15b	0.54	1.43	3.75	0.050	308	F5	1.18	1.48	4	1.08	3.78	3.91	17.4	3.8	0.26
HAT-P-3b	0.60	0.89	2.90	0.039	140	K	0.94	0.82	0.5	1.60	3.75	3.23	24.4	5.3	0.10
CoRoT-13b	1.31	0.89	4.04	0.051	1310	G0V	1.09	1.01	–	1.53	3.74	–	26.1	5.6	0.08
XO-5b	1.08	1.09	4.19	0.049	255	G8V	0.88	1.06	0.7	1.15	3.71	3.23	23.7	5.1	0.10
Kepler-7b	0.43	1.48	4.89	0.062	–	–	1.35	1.84	4.2	0.94	3.58	3.63	17.4	3.8	0.26
WASP-3b	2.06	1.45	1.85	0.032	223	F7V	1.24	1.31	13.4	1.10	3.45	4.16	12.5	2.7	0.71
WASP-24b	1.03	1.10	2.34	0.036	330	F8-9	1.13	1.15	6.96	1.17	3.26	3.74	16.2	3.5	0.33
TrES-1	0.76	1.10	3.03	0.039	157	K0V	0.87	0.82	1.08	1.34	3.26	3.08	24.7	5.3	0.09
TrES-4	0.88	1.81	3.55	0.051	440	F	1.38	1.81	8.5	0.87	3.19	3.56	14.5	3.1	0.45
Lupus-TR-3b	0.81	0.89	3.91	0.046	–	K1V	0.87	0.82	–	1.34	3.17	–	29.2	6.3	0.06
HAT-P-19b	0.29	1.13	4.01	0.047	215	K	0.84	0.82	–	1.29	3.15	–	29.3	6.3	0.05
WASP-28b	0.91	1.12	3.41	0.046	334	F8-G0	1.08	1.05	2.2	1.25	3.14	3.16	22.4	4.8	0.12
HD 189733b	1.15	1.15	2.22	0.031	19.3	K1-K2	0.80	0.79	3.32	1.20	3.04	3.36	20.6	4.4	0.16
WASP−11 HAT−P−10b	0.46	1.05	3.72	0.044	125	K3V	0.82	0.81	0.5	1.22	2.95	2.44	28.0	6.0	0.06
HAT-P-12b	0.21	0.96	3.21	0.038	142.5	–	0.73	0.70	0.5	1.24	2.88	2.43	28.3	6.1	0.06
WASP-21b	0.30	1.07	4.32	0.052	230	G3V	1.01	1.06	1.5	1.07	2.67	2.52	25.3	5.5	0.09

[a] Gandolfi et al. (2010)

Table 1 – *continued*

Planet Name (1)	M_p (M_J) (2)	R_p (R_J) (3)	$P_{\rm orb}$ (d) (4)	$R_{\rm orb}$ (AU) (5)	d (pc) (6)	Spec. Type (7)	M_* ($M_\odot$) (8)	R_* ($R_\odot$) (9)	$v\sin(i)$ (km/s) (10)	$T_{\rm max}$ (MK) (11)	$\log\left[\frac{n}{\rm cm^{-3}}\right]$ unsc. (12)	$\log\left[\frac{n}{\rm cm^{-3}}\right]$ scaled (13)	r_M/R_p (1G) (14)	r_M/R_p (100G) (15)	f (%) (16)
XO-1b	0.90	1.18	3.94	0.049	200	G1V	1.00	0.93	1.11	1.21	2.59	2.37	27.1	5.9	0.07
WASP-22b	0.56	1.12	3.53	0.05	300	–	1.10	1.13	3.5	1.04	2.47	2.66	21.4	4.6	0.14
WASP-2b	0.85	1.04	2.15	0.031	144	K1V	0.84	0.83	5	1.04	2.41	2.88	19.4	4.2	0.19
WASP-16b	0.86	1.01	3.12	0.042	–	G3V	1.02	0.95	3	1.12	2.30	2.50	23.0	5.0	0.11
WASP-29b	0.24	0.79	3.92	0.046	80	K4V	0.82	0.85	1.5	0.96	1.84	1.79	27.9	6.0	0.06
HAT-P-18b	0.20	1.00	5.51	0.056	166	K	0.77	0.75	–	0.98	1.49	–	38.5	8.3	0.02
OGLE-TR-10b	0.68	1.72	3.10	0.042	1500	G or K	1.18	1.16	7	0.88	1.41	1.89	18.5	4.0	0.22
HD 209458b	0.64	1.38	3.52	0.047	47	G0 V	1.00	1.15	4.7	0.73	0.96	1.28	21.4	4.6	0.14
WASP-25b	0.58	1.26	3.76	0.047	169	G4	1.00	0.95	3	0.88	0.85	1.04	25.7	5.6	0.08
CoRoT-8b	0.22	0.57	6.21	0.06	380	K1V	0.88	0.77	–	1	0.83	–	42.2	9.1	0.02
HAT-P-15b	1.95	1.07	10.86	0.096	190	G5	1.01	1.08	–	0.75	0.13	–	46.1	10.0	0.01
CoRoT-2b	3.31	1.47	1.74	0.03	300	G7V	0.97	0.90	11.85	0.74	−0.05	0.76	16.1	3.5	0.33
HAT-P-1b	0.52	1.22	4.47	0.055	139	GOV	1.13	1.12	3.75	0.73	−0.40	−0.17	25.6	5.5	0.08
HAT-P-8b	1.52	1.50	3.08	0.049	230	–	1.28	1.58	11.5	0.48	−1.42	−0.85	15.9	3.4	0.34
HAT-P-11b	0.08	0.45	4.89	0.05	38	K4	0.81	0.75	1.5	0.71	−1.46	−1.46	36.5	7.9	0.03
HAT-P-6b	1.06	1.33	3.85	0.052	200	F	1.29	1.46	8.7	0.53	−1.51	−1.04	18.5	4.0	0.22
Kepler-8b	0.6	1.42	3.52	0.05	1330	–	1.21	1.49	10.5	0.47	−1.75	−1.20	16.8	3.6	0.29
XO-4b	1.72	1.34	4.13	0.06	293	F5V	1.32	1.55	8.8	0.49	−1.94	−1.49	18.5	4.0	0.22
GJ 436b	0.07	0.37	2.64	0.029	10.2	M2.5	0.45	0.46	2.4	0.59	−2.05	−1.64	32.1	6.9	0.04
GJ 1214b	0.02	0.24	1.58	0.014	13	–	0.16	0.21	2	0.41	−3.18	−2.51	34.2	7.4	0.03
WASP-17b	0.49	1.74	3.74	0.051	–	F6	1.20	1.38	9	0.43	−3.48	−2.97	19.1	4.1	0.20
HAT-P-14b	2.2	1.2	4.63	0.06	205	F	1.39	1.47	8.4	0.41	−5.42	−4.96	20.9	4.5	0.15
WASP-10b	3.06	1.08	3.09	0.037	90	K5	0.71	0.78	6	0.39	−5.83	−5.25	24.4	5.3	0.09
OGLE-TR-111b	0.54	1.08	4.01	0.047	1500	G or K	0.82	0.83	5	0.33	−10.13	−9.65	29.2	6.3	0.06
WASP-7b	0.96	0.92	4.95	0.062	140	F5V	1.28	1.24	17	0.17	−24.53	−23.70	25.8	5.6	0.08
HAT-P-9b	0.78	1.40	3.92	0.053	480	F	1.28	1.32	11.9	0.16	−27.30	−26.64	20.7	4.5	0.16
HAT-P-23b	2.09	1.37	1.21	0.023	–	–	–	–	–	–	–	–	–	–	–
HAT-P-22b	2.15	1.08	3.21	0.041	–	–	–	–	–	–	–	–	–	–	–
WASP-6b	0.50	1.22	3.36	0.042	307	G8	–	–	1.4	–	–	–	–	–	0.00
XO-3b	11.79	1.22	3.19	0.045	260	F5V	1.21	1.38	18.54	0.04	–	–	17.0	3.7	0.28
WASP-36b	2.40	1.40	1.50	–	–	–	–	–	–	–	–	–	–	–	–
HAT-P-20b	7.25	0.87	2.88	0.036	–	–	–	–	–	–	–	–	–	–	–
HAT-P-21b	4.06	1.02	4.12	0.049	–	–	–	–	–	–	–	–	–	–	–
CoRoT-3b	21.66	1.01	4.26	0.057	680	F3V	1.37	1.56	17	0.01	–	–	18.9	4.1	0.21
CoRoT-4b	0.72	1.19	9.20	0.090	–	F8V	1.10	1.15	6.4	0.00	–	–	40.4	8.7	0.02
CoRoT-6b	2.96	1.17	8.89	0.086	–	F9V	1.06	1.03	7.5	0.07	–	–	43.0	9.3	0.02
OGLE2-TR-L9b	4.34	1.61	2.49	–	900	F3	1.52	1.53	39.33	–	–	–	–	–	–
WASP-13b	0.46	1.21	4.35	0.053	156	G1V	–	–	4.9	–	–	–	–	–	–
WASP-31b	0.50	1.60	3.50	–	–	–	–	–	–	–	–	–	–	–	–