TABLE 1 MODEL COMPARISON

AICc Qualitative Comparison	Free Parameters	$N_{ m free}$	$N_{ m data}$	RMS	$\ln \mathcal{L}$	BIC	AICc	$\Delta { m AICc}$
AICc Favored Model	$K_b, K_c, K_d, K_e, K_f, \dot{\gamma}, \sigma, \gamma$		99	3.98	-214.56	591.02	571.86	0.00
Nearly Indistinguishable	$K_b,K_c,K_e,K_f,\dot{\gamma},\sigma,\gamma$	7	99	4.06	-216.49	590.28	573.34	1.48
Somewhat Disfavored	$K_b, K_c, K_d, K_e, K_f, K_{add_cd}, \dot{\gamma}, \sigma, \gamma$	9	99	3.98	-214.56	595.62	574.28	2.42
	$K_b, K_c, K_e, K_f, K_{add_cd}, \dot{\gamma}, \sigma, \gamma$	8	99	4.06	-216.49	594.87	575.71	3.85
Ruled Out	$K_b, K_c, K_d, K_f, \dot{\gamma}, \sigma, \gamma$	7	99	4.35	-223.42	604.15	587.22	15.36
	$K_b, K_c, K_d, K_f, K_{addcd}, \gamma, \sigma, \gamma$	8	99	4.35	-223.38	608.66	589.50	17.64
	$K_b, K_c, K_f, \gamma, \sigma, \gamma$	6	99	4.49	-226.54	605.80	591.14	19.28
	$K_c, K_d, K_e, K_f, \dot{\gamma}, \sigma, \gamma$	7	99	4.47	-226.19	609.68	592.74	20.88
	$K_b, K_c, K_f, K_{addcd}, \dot{\gamma}, \sigma, \gamma$	7	99	4.49	-226.54	610.39	593.46	21.60
	$K_c, K_e, K_f, \dot{\gamma}, \sigma, \gamma$	6	99	4.54	-227.82	608.34	593.69	21.83
	$K_c, K_d, K_e, K_f, K_{addcd}, \dot{\gamma}, \sigma, \gamma$	8	99	4.46	-226.16	614.21	595.05	23.19
	$K_c, K_e, K_f, K_{add_cd}, \dot{\gamma}, \sigma, \gamma$	7	99	4.54	-227.79	612.88	595.94	24.08
	$K_c, K_d, K_f, \dot{\gamma}, \sigma, \gamma$	6	99	4.77	-232.56	617.84	603.18	31.32
	$K_b, K_c, K_d, K_e, \dot{\gamma}, \sigma, \gamma$	7	99	4.76	-232.34	621.98	605.05	33.19
	$K_c, K_d, K_f, K_{add_cd}, \dot{\gamma}, \sigma, \gamma$	7	99	4.76	-232.45	622.21	605.28	33.42
	$K_b, K_d, K_e, K_f, \dot{\gamma}, \sigma, \gamma$	7	99	4.79	-232.78	622.86	605.93	34.07
	$K_c, K_f, \dot{\gamma}, \sigma, \gamma$ $K_b, K_e, K_f, \dot{\gamma}, \sigma, \gamma$	5	99	4.90	-235.17	618.45	606.12	34.26
	$K_b, K_e, K_f, \dot{\gamma}, \sigma, \gamma$	6	99	4.88	-234.50	621.71	607.06	35.20
	$K_b, K_c, K_d, K_e, K_{add,cd}, \dot{\gamma}, \sigma, \gamma$	8	99	4.75	-232.23	626.35	607.19	35.33
	$K_b, K_c, K_e, \dot{\gamma}, \sigma, \gamma$	6	99	4.89	-235.01	622.74	608.08	36.22
	$K_b, K_d, K_e, K_f, K_{add_cd}, \dot{\gamma}, \sigma, \gamma$	8	99	4.79	-232.78	627.47	608.31	36.45
	$K_c, K_f, K_{add_cd}, \dot{\gamma}, \sigma, \gamma$	6	99	4.90	-235.17	623.04	608.38	36.52
	$K_b, K_e, K_f, K_{addcd}, \dot{\gamma}, \sigma, \gamma$	7	99	4.88	-234.50	626.31	609.38	37.52
	$K_b, K_c, K_e, K_{add_cd}, \dot{\gamma}, \sigma, \gamma$	7	99	4.89	-235.01	627.33	610.40	38.54
	$K_b, K_c, K_d, \dot{\gamma}, \sigma, \gamma$	6	99	5.06	-238.48	629.67	615.01	43.15
	$K_d, K_e, K_f, \dot{\gamma}, \sigma, \gamma$	6	99	5.10	-239.20	631.11	616.45	44.59
	$K_b, K_c, K_d, K_{add_cd}, \dot{\gamma}, \sigma, \gamma$	7	99	5.05	-238.25	633.80	616.86	45.00
	$K_b, K_d, K_f, \dot{\gamma}, \sigma, \gamma$	6	99	5.13	-239.60	631.92	617.26	45.40
	$K_{\alpha}, K_{\beta}, \dot{\gamma}, \sigma, \gamma$	5	99	5.19	-240.74	629.60	617.27	45.41
	$K_e, K_f, \dot{\gamma}, \sigma, \gamma$ $K_d, K_e, K_f, K_{add_cd}, \dot{\gamma}, \sigma, \gamma$	7	99	5.10	-239.18	635.67	618.73	46.87
	$K_e, K_f, K_{add_cd}, \dot{\gamma}, \sigma, \gamma$	6	99	5.19	-240.73	634.16	619.50	47.64
	$K_b, K_d, K_f, K_{addcd}, \dot{\gamma}, \sigma, \gamma$	7	99	5.13	-239.60	636.50	619.57	47.71
	$K_b, K_c, \dot{\gamma}, \sigma, \gamma$	5	99	5.26	-242.30	632.72	620.39	48.53
	$K_b, K_f, \dot{\gamma}, \sigma, \gamma$	5	99	5.28	-242.39	632.90	620.57	48.71
	$K_b, K_c, K_{addcd}, \dot{\gamma}, \sigma, \gamma$	6	99	5.26	-242.30	637.31	622.65	50.79
	$K_b, K_c, K_{addcd}, \gamma, \sigma, \gamma$ $K_c, K_c, K_c, \gamma, \sigma, \gamma$	6	99	5.28	-242.39	637.49	622.84	50.98
	$K_b, K_f, K_{add_cd}, \dot{\gamma}, \sigma, \gamma$	6	99	5.32	-243.40	639.52	624.86	53.00
	$K_c, K_d, K_e, \dot{\gamma}, \sigma, \gamma$	5	99	5.32 5.39	-243.40	637.43	624.80 625.10	53.24
	$K_d, K_f, \dot{\gamma}, \sigma, \gamma$	7	99	5.39	-244.00 -243.17	643.65	626.71	53.24 54.85
	$K_c, K_d, K_e, K_{add_cd}, \dot{\gamma}, \sigma, \gamma$	5	99					
	$K_c, K_e, \dot{\gamma}, \sigma, \gamma$	_		5.45	-245.76	639.64	627.31	55.45
	$K_d, K_f, K_{add_cd}, \dot{\gamma}, \sigma, \gamma$	6	99	5.39	-244.66	642.03	627.38	55.52
	$K_f, \gamma, \sigma, \gamma$	4	99	5.54	-247.15	637.82	627.87	56.01
	$K_b, K_d, K_e, \dot{\gamma}, \sigma, \gamma$	6	99	5.41	-244.95	642.61	627.95	56.09
	$K_c, K_e, K_{add_cd}, \dot{\gamma}, \sigma, \gamma$	6	99	5.45	-245.76	644.24	629.58	57.72
	$K_f, K_{add_cd}, \dot{\gamma}, \sigma, \gamma$	5	99	5.54	-247.15	642.42	630.09	58.23
	$K_b, K_d, K_e, K_{add_cd}, \gamma, \sigma, \gamma$	7	99	5.41	-244.95	647.21	630.27	58.41
	$K_b,K_e,\dot{\gamma},\sigma,\gamma$	5	99	5.54	-247.38	642.88	630.55	58.69
	$K_c, K_d, \dot{\gamma}, \sigma, \gamma$	5	99	5.56	-247.72	643.55	631.22	59.36
	$K_c, K_d, K_{add_cd}, \dot{\gamma}, \sigma, \gamma$	6	99	5.54	-247.36	647.44	632.78	60.92
	$K_b, K_e, K_{add_cd}, \dot{\gamma}, \sigma, \gamma$	6	99	5.54	-247.38	647.48	632.82	60.96

Parameter	Credible Interval	Maximum Likelihood	Units
	MCMC Step Para		
P_b	$\equiv 4.31$	$\equiv 4.31$	days
Tconj _b	$\equiv 2458686.5658$ $\equiv 2458685.4883$	$\equiv 2458686.5658$ $\equiv 2458685.4883$	JD JD
$Tperi_b$ e_b	= 2450005.4005 = 0.0	= 2450005.4005 = 0.0	JD
ω_b	= 0.0	= 0.0 = 0.0	radians
K_b	$2.84^{+0.58}_{-0.59}$	2.86	${ m m~s^{-1}}$
P_c	$\stackrel{2.04}{=} \stackrel{0.59}{=} 5.9$	≡ 5.9	days
Tconj _c	$\equiv 2458683.4661$	$\equiv 2458683.4661$	JĎ
$Tperi_{c}$	$\equiv 2458681.9911$	$\equiv 2458681.9911$	$_{ m JD}$
e_c	$\equiv 0.0$	$\equiv 0.0$	
ω_c	$\equiv 0.0$	$\equiv 0.0$	radians
K_c	$3.87^{+0.62}_{-0.6}$	3.84	${ m m~s^{-1}}$
P_d	= 18.66	= 18.66	days
Tconj _d Tperi _d	$\equiv 2458688.9653$ $\equiv 2458684.3003$	$\equiv 2458688.9653$ $\equiv 2458684.3003$	JD JD
e_d	$\equiv 2400004.3003$ $\equiv 0.0$	= 2450004.5005 = 0.0	315
ω_d	= 0.0	= 0.0 ≡ 0.0	radians
K_d	$1.34^{+0.64}_{-0.61}$	1.19	${ m m~s^{-1}}$
P_e	= 37.92	≡ 37.92	days
Tconj _e	$\equiv 2457000.7134$	$\equiv 2457000.7134$	JD
$Tperi_e$	$\equiv 2456991.2334$	$\equiv 2456991.2334$	$_{ m JD}$
e_e	$\equiv 0.0$	$\equiv 0.0$	
ω_e	$\equiv 0.0$	$\equiv 0.0$	radians
K_e	$2.6^{+0.63}_{-0.64}$	2.65	${ m m\ s^{-1}}$
P_f	$\equiv 93.8$	$\equiv 93.8$	days
Tconj _f Tperi _f	$\equiv 2459462.9$ $\equiv 2459439.45$	$\equiv 2459462.9$ $\equiv 2459439.45$	JD JD
- 1	= 2459459.45 = 0.0	= 2459459.45 = 0.0	JD
$e_f \ \omega_f$	= 0.0	= 0.0 = 0.0	radians
K_f	4 2+0.69	4.22	${ m m~s^{-1}}$
P_{add_cd}	= 10.493	$\equiv 10.493$	days
Tconj _{addcd}	$\equiv 2458346.4332$	$\equiv 2458346.4332$	JD
$Tperi_{add_cd}$	$\equiv 2458343.8099$	$\equiv 2458343.8099$	$_{ m JD}$
e_{add_cd}	$\equiv 0.0$	$\equiv 0.0$	
ω_{add_cd}	$\equiv 0.0$	$\equiv 0.0$	radians
K_{add_cd}	$0.42^{+0.45}_{-0.29}$	0.03	${ m m~s^{-1}}$
Orbital Pa	rameters		
P_b	$\equiv 4.31$	$\equiv 4.31$	days
$T_{\rm conj_b}$	$\equiv 2458686.5658$	$\equiv 2458686.5658$	JD
Tperi _b	$\equiv 2458685.4883$	$\equiv 2458685.4883$	JD
e_b		$\begin{array}{c} \equiv 0.0 \\ \equiv 0.0 \end{array}$	radians
K_b	9.94 ± 0.58	= 0.0 $= 2.86$	m s ⁻¹
P_c	$\stackrel{2.04}{=} 0.59$ $\stackrel{=}{=} 5.9$	± 5.9	davs
$T_{\text{conj}_{c}}^{c}$	$\equiv 2458683.4661$	$\equiv 2458683.4661$	JD
$T_{\text{peri}_{c}}$	$\equiv 2458681.9911$	$\equiv 2458681.9911$	JD
e_c	$\equiv 0.0$	$\equiv 0.0$	
ω_c	= 0.0	$\equiv 0.0$	radians
K_c	$3.87^{+0.62}_{-0.6}$	3.84	${ m m~s^{-1}}$
P_d	≡ 18.66	$\equiv 18.66$	days
Tconj _d	$\equiv 2458688.9653$	$\equiv 2458688.9653$	ĴD
$T_{\text{peri}_{d}}$	$\equiv 2458684.3003$	$\equiv 2458684.3003$	JD
e_d		$\begin{array}{c} \equiv 0.0 \\ \equiv 0.0 \end{array}$	radians
ω_d K .			${ m m~s^{-1}}$
K_d P_e	$1.34^{+0.64}_{-0.61} \\ \equiv 37.92$	$ \begin{array}{c} 1.19 \\ \equiv 37.92 \end{array} $	_
$T_{\text{conj}_{e}}$	= 37.92 $\equiv 2457000.7134$	= 37.92 $\equiv 2457000.7134$	$_{ m JD}$
$T_{\text{peri}_{e}}$	$\equiv 2457000.7134$ $\equiv 2456991.2334$	$\equiv 2457000.7134$ $\equiv 2456991.2334$	JD
e_e	$\equiv 0.0$	≡ 0.0	
ω_e	$\equiv 0.0$	$\equiv 0.0$	radians
K_e	$2.6^{+0.63}_{-0.64}$	2.65	${ m m~s^{-1}}$
P_f	$\equiv 93.8$	$\equiv 93.8$	days
Tconj _f	$\equiv 2459462.9$	$\equiv 2459462.9$	JD
T peri $_{\mathrm{f}}$	$\equiv 2459439.45$	$\equiv 2459439.45$	$_{ m JD}$
e_f	$\equiv 0.0$	$\equiv 0.0$	
ω_f	$\equiv 0.0$ $4.2^{+0.69}_{-0.68}$	$\equiv 0.0$	radians
K_f	0.00	4.22	${ m m~s^{-1}}$
P_{add_cd}	$\equiv 10.493$ $\equiv 2458346.4332$	$\equiv 10.493$ $\equiv 2458346.4332$	$\begin{array}{c} \text{days} \\ \text{JD} \end{array}$
Tconj _{addcd} T peri _{addcd}	$\equiv 2458340.4332$ $\equiv 2458343.8099$	= 2458340.4332 = 2458343.8099	JD
e - 11 1	= 0.0	= 0.0	
Report produ	uced by RadVel wh	1.7: http://radvel. <u>re</u> æjloh	$edocs_{rigdians}$
K_{add_cd}	$0.49^{+0.45}$	0.03	${ m m~s^{-1}}$
~~~~~~	0.42 -0.29		

TABLE 3 DERIVED POSTERIORS

Parameter	Credible Interval	Maximum Likelihood	Units
$a_b$	$0.0493^{+0.0022}_{-0.0024}$	0.0465	AU
$M_b \sin i$	$0.0493_{-0.0024}^{+0.0022} \\ 6.5_{-1.4}^{+1.6}$	6.3	${ m M}_{\oplus}$
$a_c$	$0.0608^{+0.0027}_{-0.003}$	0.0573	AU
$M_c \sin i$	$9.8^{+1.9}_{-1.7}$	8.9	${ m M}_{\oplus}$
$a_d$	$0.1309^{+0.0058}_{-0.0064}$	0.1235	AU
$M_d \sin i$	$5.0_{-2.3}^{+2.5}$	3.6	${ m M}_{\oplus}$
$a_e$	$0.2101^{+0.0094}_{-0.01}$	0.1981	AU
$M_e \sin i$	$12.3_{-3.2}^{+3.3}$	11.9	${ m M}_{\oplus}$
$a_f$	$0.384^{+0.017}_{-0.019}$	0.362	AU
$M_f \sin i$	$26.8^{+5.2}_{-4.9}$	25.4	${ m M}_{\oplus}$
$a_a dd_c d$	$0.0892^{+0.004}_{-0.0043}$	0.0841	AU
$M_a dd_c d\sin i$		0.3	${ m M}_{\oplus}$

## $\begin{array}{c} {\rm TABLE} \ 4 \\ {\rm SUMMARY} \ {\rm OF} \ {\rm PRIORS} \end{array}$

K constrained to be > 0

Gaussian prior on  $P_b$ :  $4.31 \pm 2e - 05$ 

Gaussian prior on  $T\mathrm{conj_b}\colon 2458686.5658 \pm 0.001$ 

Gaussian prior on  $P_c$ :  $5.9 \pm 8e - 05$ 

Gaussian prior on Tconj_c:  $2458683.4661 \pm 0.003$ 

Gaussian prior on  $P_d$ :  $18.66 \pm 5e - 05$ 

Gaussian prior on Tconj_d:  $2458688.9653 \pm 0.009$ 

Gaussian prior on  $P_e$ :  $37.92 \pm 0.0001$ 

Gaussian prior on  $T\mathrm{conj_e}\colon\thinspace 2457000.7134\pm0.0089$ 

Gaussian prior on  $P_f$ :  $93.8 \pm 0.0001$ 

Gaussian prior on Tconj $_{\mathrm{f}}$ : 2459462.9  $\pm$  0.0089

Bounded prior:  $-20.0 < \sigma_{\rm j} < 20.0$ 

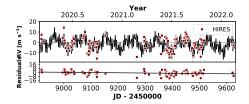
TABLE 5 FINAL CONVERGENCE CRITERION

Criterion	Final Value
minAfactor	55.077
maxArchange	0.022
maxGR	1.002
minTz	17649.038

TABLE 6
RADIAL VELOCITIES

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				
			RV Unc.	Inst.
2458917.06227         4.82         1.78         j           2458918.06580         9.02         1.66         j           2458919.05511         0.60         1.53         j           2458995.87585         6.04         1.93         j           2458902.92823         3.45         1.60         j           2459003.89134         0.80         1.56         j           2459013.87325         -3.05         1.66         j           2459016.87492         -3.96         1.82         j           2459024.86927         -1.91         1.57         j           2459038.89287         3.19         1.63         j           2459038.89287         3.19         1.63         j           2459038.84046         0.42         1.57         j           2459038.84046         0.42         1.57         j           2459072.87996         7.48         1.75         j           2459072.8344         11.61         1.67         j           2459038.84046         0.42         1.57         j           2459072.87996         7.48         1.75         j           2459077.88344         11.61         1.67         j <t< td=""><td>(JD)</td><td>(m s⁻¹)</td><td>(m s⁻¹)</td><td></td></t<>	(JD)	(m s ⁻¹ )	(m s ⁻¹ )	
2458918.06580         9.02         1.66         j           2458919.05511         0.60         1.53         j           2458999.89268         15.83         1.72         j           2458999.89268         15.83         1.72         j           2459002.92823         3.45         1.60         j           2459006.88414         -3.67         1.60         j           2459016.87492         -3.96         1.82         j           2459024.86927         -1.91         1.57         j           2459027.83837         -2.96         1.39         j           2459038.89287         3.19         1.63         j           2459034.85573         6.25         1.59         j           2459038.84046         0.42         1.57         j           2459071.93664         5.97         1.77         j           2459072.87996         7.48         1.75         j           2459077.88344         11.61         1.67         j           2459088.87543         0.78         1.61         j           2459098.87543         0.78         1.61         j           2459097.87403         -3.73         1.84         j	2458917.06227	4.82	1.78	j
2458919.05511         0.60         1.53         j           2458995.87585         6.04         1.93         j           2458999.89268         15.83         1.72         j           2459002.92823         3.45         1.60         j           2459006.88414         -3.67         1.60         j           2459016.87492         -3.96         1.82         j           2459024.86927         -1.91         1.57         j           2459030.89287         3.19         1.63         j           2459034.85573         6.25         1.59         j           2459038.84046         0.42         1.57         j           2459071.93664         5.97         1.77         j           2459072.87996         7.48         1.75         j           245908.87479         -8.95         2.27         j           245909.80766         0.02         1.63         j           2459092.80462         -6.71         1.61         j           2459097.87403         -3.73         1.84         j           2459117.75377         -1.51         1.57         j           2459118.76969         2.02         1.58         j	2458918.06580	9.02	1.66	j
2458995.87585         6.04         1.93         j           2458999.89268         15.83         1.72         j           2459002.92823         3.45         1.60         j           2459003.89134         0.80         1.56         j           2459013.87325         -3.05         1.66         j           2459016.87492         -3.96         1.82         j           2459027.83837         -2.96         1.39         j           2459030.89287         3.19         1.63         j           2459034.85573         6.25         1.59         j           2459038.84046         0.42         1.57         j           2459069.00985         5.46         2.56         j           2459071.93664         5.97         1.77         j           2459072.87996         7.48         1.75         j           2459078.8344         11.61         1.67         j           2459089.87543         0.78         1.61         j           2459090.80766         0.02         1.63         j           2459097.87403         -3.73         1.84         j           2459097.87403         -3.73         1.84         j	2458919.05511	0.60	1.53	j
2458999.89268         15.83         1.72         j           2459002.92823         3.45         1.60         j           2459003.89134         0.80         1.56         j           2459006.88414         -3.67         1.60         j           2459013.87325         -3.05         1.66         j           2459016.87492         -3.96         1.82         j           2459024.86927         -1.91         1.57         j           2459038.89287         3.19         1.63         j           2459030.89287         3.19         1.63         j           2459034.85573         6.25         1.59         j           2459038.84046         0.42         1.57         j           2459071.93664         5.97         1.77         j           2459072.87996         7.48         1.75         j           2459077.88344         11.61         1.67         j           2459088.87543         0.78         1.61         j           2459091.81037         -10.19         1.67         j           2459092.80462         -6.71         1.61         j           2459094.79032         3.15         1.80         j	2458995.87585	6.04	1.93	j
2459002.92823       3.45       1.60       j         2459003.89134       0.80       1.56       j         2459003.89134       0.80       1.56       j         2459013.87325       -3.05       1.66       j         2459016.87492       -3.96       1.82       j         2459024.86927       -1.91       1.57       j         2459027.83837       -2.96       1.39       j         2459034.85573       6.25       1.59       j         2459036.79199       4.97       1.46       j         2459069.00985       5.46       2.56       j         2459071.93664       5.97       1.77       j         2459072.87996       7.48       1.75       j         2459077.88344       11.61       1.67       j         2459088.87543       0.78       1.61       j         2459091.81037       -10.19       1.67       j         2459092.80462       -6.71       1.61       j         245901.87037       -1.73       1.84       j         2459114.75154       -2.73       1.84       j         2459115.78545       0.73       1.56       j         2459118.769	2458999.89268	15.83	1.72	j
2459003.89134         0.80         1.56         j           2459006.88414         -3.67         1.60         j           2459013.87325         -3.05         1.66         j           2459016.87492         -3.96         1.82         j           2459024.86927         -1.91         1.57         j           2459030.89287         3.19         1.63         j           2459034.85573         6.25         1.59         j           2459038.84046         0.42         1.57         j           2459069.00985         5.46         2.56         j           2459071.93664         5.97         1.77         j           2459072.87996         7.48         1.75         j           2459077.88344         11.61         1.67         j           2459088.87543         0.78         1.61         j           2459091.81037         -10.19         1.67         j           2459092.80462         -6.71         1.61         j           2459094.79032         3.15         1.80         j           2459114.75154         -2.73         1.62         j           2459115.78545         0.73         1.56         j	2459002.92823	3.45	1.60	j
2459006.88414         -3.67         1.60         j           2459013.87325         -3.05         1.66         j           2459016.87492         -3.96         1.82         j           2459024.86927         -1.91         1.57         j           2459030.89287         3.19         1.63         j           2459034.85573         6.25         1.59         j           2459038.84046         0.42         1.57         j           2459069.00985         5.46         2.56         j           2459071.93664         5.97         1.77         j           2459072.87996         7.48         1.75         j           2459077.88344         11.61         1.67         j           245908.87479         -8.95         2.27         j           245908.87543         0.78         1.61         j           2459092.80462         -6.71         1.61         j           2459097.87403         -3.73         1.84         j           245911.77339         0.80         1.61         j           2459117.75377         -1.51         1.57         j           2459118.76969         2.02         1.58         j	2459003.89134	0.80	1.56	j
2459013.87325         -3.05         1.66         j           2459016.87492         -3.96         1.82         j           2459024.86927         -1.91         1.57         j           2459027.83837         -2.96         1.39         j           2459030.89287         3.19         1.63         j           2459034.85573         6.25         1.59         j           2459038.84046         0.42         1.57         j           2459069.00985         5.46         2.56         j           2459071.93664         5.97         1.77         j           2459072.87996         7.48         1.75         j           2459078.8344         11.61         1.67         j           2459089.87543         0.78         1.61         j           2459091.81037         -10.19         1.67         j           2459092.80462         -6.71         1.61         j           2459097.87403         -3.73         1.84         j           2459117.75377         -1.51         1.56         j           2459115.78545         0.73         1.56         j           2459112.73973         -0.06         1.71         j	2459006.88414	-3.67	1.60	j
2459016.87492         -3.96         1.82         j           2459024.86927         -1.91         1.57         j           2459027.83837         -2.96         1.39         j           2459030.89287         3.19         1.63         j           2459034.85573         6.25         1.59         j           2459038.84046         0.42         1.57         j           2459069.00985         5.46         2.56         j           2459071.93664         5.97         1.77         j           2459072.87996         7.48         1.75         j           2459072.87996         7.48         1.75         j           2459072.87996         7.48         1.75         j           2459077.88344         11.61         1.67         j           2459088.87543         0.78         1.61         j           2459091.81037         -10.19         1.67         j           2459091.81037         -10.19         1.67         j           2459092.80462         -6.71         1.61         j           2459094.79032         3.15         1.80         j           2459114.75154         -2.73         1.62         j				j
2459024.86927         -1.91         1.57         j           2459027.83837         -2.96         1.39         j           2459030.89287         3.19         1.63         j           2459034.85573         6.25         1.59         j           2459038.84046         0.42         1.57         j           2459071.93664         5.97         1.77         j           2459072.87996         7.48         1.75         j           2459072.87996         7.48         1.75         j           2459086.87479         -8.95         2.27         j           2459089.87543         0.78         1.61         j           2459091.81037         -10.19         1.67         j           2459092.80462         -6.71         1.61         j           2459094.79032         3.15         1.80         j           2459114.75154         -2.73         1.62         j           2459115.78545         0.73         1.56         j           2459118.76969         2.02         1.58         j           2459120.73793         -0.06         1.71         j           2459123.73465         0.21         1.57         j				j
2459027.83837         -2.96         1.39         j           2459030.89287         3.19         1.63         j           2459034.85573         6.25         1.59         j           2459038.84046         0.42         1.57         j           2459069.00985         5.46         2.56         j           2459072.87996         7.48         1.75         j           2459077.88344         11.61         1.67         j           2459088.87479         -8.95         2.27         j           2459089.87543         0.78         1.61         j           2459091.81037         -10.19         1.67         j           2459092.80462         -6.71         1.61         j           2459097.87403         -3.73         1.84         j           2459114.75154         -2.73         1.62         j           2459115.78545         0.73         1.56         j           2459118.76969         2.02         1.58         j           2459120.73793         -0.06         1.71         j           2459123.73465         0.21         1.57         j           2459123.73465         0.21         1.57         j	2459024.86927			j
2459030.89287       3.19       1.63       j         2459034.85573       6.25       1.59       j         2459038.84046       0.42       1.57       j         2459069.00985       5.46       2.56       j         2459071.93664       5.97       1.77       j         2459072.87996       7.48       1.75       j         2459077.88344       11.61       1.67       j         2459086.87479       -8.95       2.27       j         2459089.87543       0.78       1.61       j         2459090.80766       0.02       1.63       j         2459092.80462       -6.71       1.61       j         2459094.79032       3.15       1.80       j         2459097.87403       -3.73       1.84       j         2459114.75154       -2.73       1.62       j         2459115.78545       0.73       1.56       j         2459118.76969       2.02       1.58       j         2459120.73793       -0.06       1.71       j         2459122.74503       -7.78       1.58       j         2459123.73465       0.21       1.57       j         2459269.13557				j
2459034.85573         6.25         1.59         j           2459038.84046         0.42         1.57         j           2459069.00985         5.46         2.56         j           2459071.93664         5.97         1.77         j           2459072.87996         7.48         1.75         j           2459078.8344         11.61         1.67         j           245908.87543         0.78         1.61         j           2459099.80766         0.02         1.63         j           2459092.80462         -6.71         1.61         j           2459094.79032         3.15         1.80         j           245907.87403         -3.73         1.84         j           245911.77537         -1.51         1.56         j           2459115.78545         0.73         1.56         j           2459118.76969         2.02         1.58         j           2459120.73793         -0.06         1.71         j           2459121.72997         -13.88         1.76         j           2459123.73465         0.21         1.57         j           2459269.13557         -12.30         1.73         j      <				j
2459036.79199       4.97       1.46       j         2459038.84046       0.42       1.57       j         2459069.00985       5.46       2.56       j         2459071.93664       5.97       1.77       j         2459072.87996       7.48       1.75       j         2459077.88344       11.61       1.67       j         2459086.87479       -8.95       2.27       j         2459098.87543       0.78       1.61       j         2459091.81037       -10.19       1.67       j         2459091.81037       -10.19       1.67       j         2459092.80462       -6.71       1.61       j         2459094.79032       3.15       1.80       j         2459114.75154       -2.73       1.62       j         2459115.78545       0.73       1.56       j         2459118.76969       2.02       1.58       j         2459120.73793       -0.06       1.71       j         2459121.72997       -13.88       1.76       j         2459123.73465       0.21       1.57       j         2459123.73465       0.21       1.57       j         245926.10				j
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				j
2459069.00985         5.46         2.56         j           2459071.93664         5.97         1.77         j           2459072.87996         7.48         1.75         j           2459077.88344         11.61         1.67         j           2459086.87479         -8.95         2.27         j           2459098.87543         0.78         1.61         j           2459091.81037         -10.19         1.67         j           2459092.80462         -6.71         1.61         j           2459097.87403         -3.73         1.84         j           2459101.77339         0.80         1.61         j           2459114.75154         -2.73         1.62         j           2459115.78545         0.73         1.56         j           2459119.76203         -2.99         1.97         j           2459120.73793         -0.06         1.71         j           2459123.73465         0.21         1.57         j           2459123.73465         0.21         1.57         j           2459269.13557         -12.30         1.73         j           2459296.10098         6.81         1.57         j				j
2459071.93664         5.97         1.77         j           2459072.87996         7.48         1.75         j           2459077.88344         11.61         1.67         j           2459086.87479         -8.95         2.27         j           2459089.87543         0.78         1.61         j           2459090.80766         0.02         1.63         j           2459092.80462         -6.71         1.61         j           2459094.79032         3.15         1.80         j           2459097.87403         -3.73         1.84         j           2459101.77339         0.80         1.61         j           2459114.75154         -2.73         1.62         j           2459115.78545         0.73         1.56         j           2459118.76969         2.02         1.58         j           2459120.73793         -0.06         1.71         j           2459121.72997         -13.88         1.76         j           2459123.73465         0.21         1.57         j           2459269.13557         -12.30         1.73         j           2459296.10098         6.81         1.57         j				j
2459072.87996         7.48         1.75           2459077.88344         11.61         1.67           2459086.87479         -8.95         2.27           2459089.87543         0.78         1.61           2459090.80766         0.02         1.63           2459091.81037         -10.19         1.67           2459092.80462         -6.71         1.61           2459094.79032         3.15         1.80           2459097.87403         -3.73         1.84           2459110.77339         0.80         1.61           2459115.78545         0.73         1.56           2459117.75377         -1.51         1.57           2459118.76969         2.02         1.58           2459120.73793         -0.06         1.71           2459122.74503         -7.78         1.58           2459123.73465         0.21         1.57           2459269.13557         -12.30         1.73           2459297.04778         3.19         1.65           2459314.07830         -1.22         1.43           2459353.86001         6.32         1.69           2459358.91097         -9.48         1.70           2459373.81907         6.75<				j
2459077.88344         11.61         1.67         j           2459086.87479         -8.95         2.27         j           2459089.87543         0.78         1.61         j           2459090.80766         0.02         1.63         j           2459091.81037         -10.19         1.67         j           2459092.80462         -6.71         1.61         j           2459097.87403         -3.73         1.80         j           2459101.77339         0.80         1.61         j           2459114.75154         -2.73         1.62         j           2459115.78545         0.73         1.56         j           2459118.76969         2.02         1.58         j           2459119.76203         -2.99         1.97         j           2459120.73793         -0.06         1.71         j           2459123.73465         0.21         1.57         j           2459123.73465         0.21         1.57         j           2459269.13557         -12.30         1.73         j           2459297.04778         3.19         1.65         j           2459314.07830         -1.22         1.43         j <td></td> <td></td> <td></td> <td>j</td>				j
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		-		J
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				j
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				j
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				j
2459092.80462         -6.11         1.61         j           2459094.79032         3.15         1.80         j           2459097.87403         -3.73         1.84         j           2459101.77339         0.80         1.61         j           2459114.75154         -2.73         1.62         j           2459115.78545         0.73         1.56         j           2459117.75377         -1.51         1.57         j           2459118.76969         2.02         1.58         j           2459119.76203         -2.99         1.97         j           2459120.73793         -0.06         1.71         j           2459121.72997         -13.88         1.76         j           2459123.73465         0.21         1.57         j           2459123.73465         0.21         1.57         j           2459269.13557         -12.30         1.73         j           2459296.10098         6.81         1.57         j           2459300.00609         -4.14         1.97         j           2459354.94389         -1.22         1.43         j           2459358.91097         -9.48         1.70         j <td></td> <td></td> <td></td> <td>J</td>				J
2459097.87403         -3.73         1.84         j           2459097.87403         -3.73         1.84         j           2459101.77339         0.80         1.61         j           2459114.75154         -2.73         1.56         j           2459115.78545         0.73         1.56         j           2459118.76969         2.02         1.58         j           2459119.76203         -2.99         1.97         j           2459120.73793         -0.06         1.71         j           2459121.72997         -13.88         1.76         j           2459122.74503         -7.78         1.58         j           2459123.73465         0.21         1.57         j           2459153.71066         8.07         1.68         j           2459269.13557         -12.30         1.73         j           2459296.10098         6.81         1.57         j           2459314.07830         -1.22         1.43         j           2459354.94389         6.58         1.69         j           2459354.94389         6.58         1.67         j           2459361.94571         8.19         1.46         j				J
2459097.87403         -3.13         1.64         j           2459101.773339         0.80         1.61         j           2459114.75154         -2.73         1.56         j           2459115.78545         0.73         1.56         j           2459117.75377         -1.51         1.57         j           2459119.76203         -2.99         1.97         j           2459120.73793         -0.06         1.71         j           2459121.72997         -13.88         1.76         j           2459122.74503         -7.78         1.58         j           2459123.73465         0.21         1.57         j           2459259.13557         -12.30         1.73         j           2459269.13557         -12.30         1.73         j           2459297.04778         3.19         1.65         j           2459314.07830         -1.22         1.43         j           2459354.94389         6.58         1.67         j           2459358.91097         -9.48         1.70         j           2459373.81907         6.75         1.70         j           2459377.07153         -5.15         1.57         j				j
2459101.77539         0.80         1.61         j           2459114.75154         -2.73         1.62         j           2459115.78545         0.73         1.56         j           2459117.75377         -1.51         1.57         j           2459118.76969         2.02         1.58         j           2459120.73793         -0.06         1.71         j           2459121.72997         -13.88         1.76         j           2459122.74503         -7.78         1.58         j           2459123.73465         0.21         1.57         j           2459269.13557         -12.30         1.73         j           2459269.13557         -12.30         1.73         j           2459297.04778         3.19         1.65         j           2459300.00609         -4.14         1.97         j           2459354.94380         -1.22         1.43         j           2459358.91097         -9.48         1.67         j           2459373.81907         6.75         1.70         j           2459377.83080         5.32         1.64         j				j
2459115.78545         0.73         1.56         j           2459117.75377         -1.51         1.57         j           2459118.76969         2.02         1.58         j           2459120.73793         -0.06         1.71         j           2459121.72997         -13.88         1.76         j           2459122.74503         -7.78         1.58         j           2459123.73465         0.21         1.57         j           2459263.71066         8.07         1.68         j           2459296.10098         6.81         1.57         j           2459297.04778         3.19         1.65         j           2459314.07830         -1.22         1.43         j           2459354.94389         6.58         1.67         j           2459358.91097         -9.48         1.70         j           2459373.81907         6.75         1.70         j           2459377.07153         -5.15         1.57         j           2459377.83080         5.32         1.64         j				J
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			-	J
2459118.76969       2.02       1.58       j         2459119.76203       -2.99       1.97       j         2459120.73793       -0.06       1.71       j         2459121.72997       -13.88       1.76       j         2459122.74503       -7.78       1.58       j         2459123.73465       0.21       1.57       j         2459269.13557       -12.30       1.73       j         2459296.10098       6.81       1.57       j         2459297.04778       3.19       1.65       j         2459300.00609       -4.14       1.97       j         2459353.86001       6.32       1.69       j         2459354.94389       6.58       1.67       j         2459358.91097       -9.48       1.70       j         2459373.81907       6.75       1.70       j         2459377.07153       -5.15       1.57       j         2459377.83080       5.32       1.64       j				J i
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				J i
2459120.73793         -0.06         1.71         j           2459121.72997         -13.88         1.76         j           2459122.74503         -7.78         1.58         j           2459123.73465         0.21         1.57         j           2459153.71066         8.07         1.68         j           2459269.13557         -12.30         1.73         j           2459296.10098         6.81         1.57         j           2459297.04778         3.19         1.65         j           2459300.00609         -4.14         1.97         j           2459353.86001         6.32         1.69         j           2459354.94389         6.58         1.67         j           2459358.91097         -9.48         1.70         j           2459373.81907         6.75         1.70         j           2459377.07153         -5.15         1.57         j           2459377.83080         5.32         1.64         j				j i
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				i
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2459269.13557	-12.30		j
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2459296.10098	6.81	1.57	j
2459300.00609     -4.14     1.97     j       2459314.07830     -1.22     1.43     j       2459353.86001     6.32     1.69     j       2459354.94389     6.58     1.67     j       2459358.91097     -9.48     1.70     j       2459361.94571     8.19     1.46     j       2459373.81907     6.75     1.70     j       2459377.07153     -5.15     1.57     j       2459377.83080     5.32     1.64     j		3.19		j
2459314.07830     -1.22     1.43     j       2459353.86001     6.32     1.69     j       2459354.94389     6.58     1.67     j       2459358.91097     -9.48     1.70     j       2459361.94571     8.19     1.46     j       2459373.81907     6.75     1.70     j       2459377.07153     -5.15     1.57     j       2459377.83080     5.32     1.64     j				j
2459353.86001     6.32     1.69     j       2459354.94389     6.58     1.67     j       2459358.91097     -9.48     1.70     j       2459361.94571     8.19     1.46     j       2459373.81907     6.75     1.70     j       2459377.07153     -5.15     1.57     j       2459377.83080     5.32     1.64     j				j
2459354.94389     6.58     1.67     j       2459358.91097     -9.48     1.70     j       2459361.94571     8.19     1.46     j       2459373.81907     6.75     1.70     j       2459377.07153     -5.15     1.57     j       2459377.83080     5.32     1.64     j				j
2459358.91097     -9.48     1.70     j       2459361.94571     8.19     1.46     j       2459373.81907     6.75     1.70     j       2459377.07153     -5.15     1.57     j       2459377.83080     5.32     1.64     j				j
2459361.94571     8.19     1.46     j       2459373.81907     6.75     1.70     j       2459377.07153     -5.15     1.57     j       2459377.83080     5.32     1.64     j				j
2459373.81907 6.75 1.70 j 2459377.07153 -5.15 1.57 j 2459377.83080 5.32 1.64 j				j
2459377.83080 5.32 1.64 j				j
2459377.83080 5.32 1.64 j				j
	2459577.83080	5.32	1.64	J

Note. — Only the first 50 of 99 RVs are displayed in this table. Use radvel table -t rv to save the full LATEX table as a separate file.



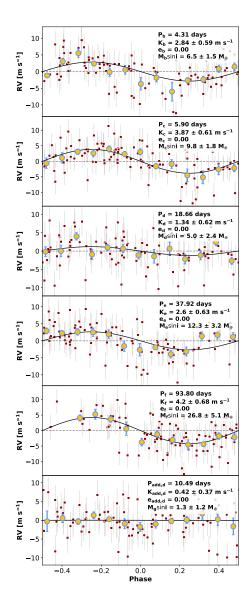


FIG. 1.— Best-fit 6-planet Keplerian orbital model for TOI-1246_add_cd. The maximum likelihood model is plotted while the orbital parameters listed in Table 2 are the median values of the posterior distributions. The thin blue line is the best fit 6-planet model. We add in quadrature the RV jitter term(s) listed in Table 2 with the measurement uncertainties for all RVs. b) Residuals to the best fit 6-planet model. c) RVs phase-folded to the ephemeris of planet b. The Keplerian orbital models for all other planets (if any) have been subtracted. The small point colors and symbols are the same as in panel a. Red circles (if present) are the same velocities binned in 0.08 units of orbital phase. The phase-folded model for planet b is shown as the blue line.

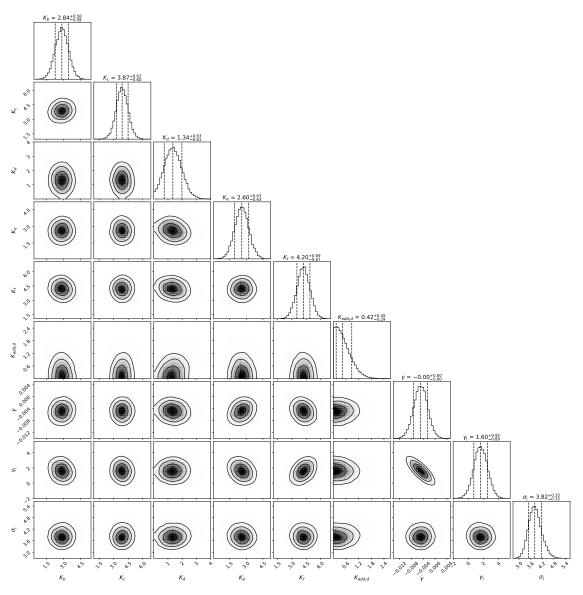


Fig. 2.— Posterior distributions for all free parameters.

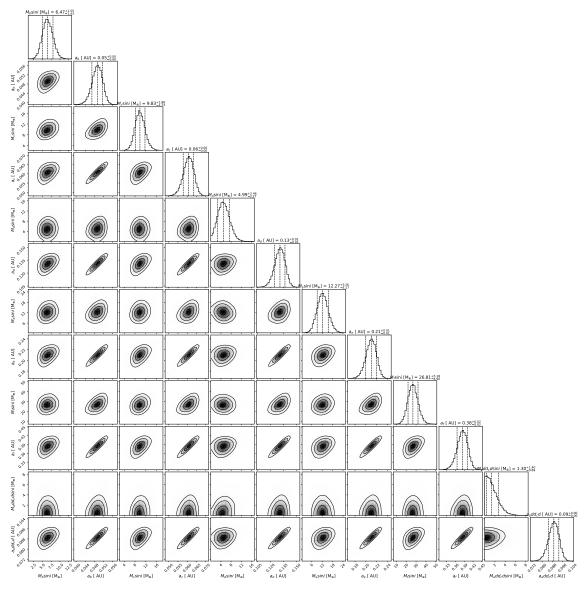


Fig. 3.— Posterior distributions for all derived parameters.