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












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Erratum: “An 11 Earth-mass, Long-period Sub-Neptune Orbiting a Sun-like Star” (2019, AJ, 158, 165)

Andrew W. Mayo^{1,2,3,22,23} , Vinesh M. Rajpaul⁴, Lars A. Buchhave^{2,3} , Courtney D. Dressing¹ , Annelies Mortier^{4,5} ,
Li Zeng^{6,7} , Charles D. Fortenbach⁸ , Suzanne Aigrain⁹ , Aldo S. Bonomo¹⁰ , Andrew Collier Cameron⁵ ,
David Charbonneau⁷ , Adrien Coffinet¹¹, Rosario Cosentino^{12,13}, Mario Damasso¹⁰, Xavier Dumusque¹¹ ,
A. F. Martinez Fiorenzano¹², Raphaëlle D. Haywood^{7,24} , David W. Latham⁷ , Mercedes López-Morales⁷ ,
Luca Malavolta¹³ , Giusi Micela¹⁴, Emilio Molinari¹⁵ , Logan Pearce¹⁶ , Francesco Pepe¹¹, David Phillips⁷,
Giampaolo Piotto^{17,18} , Ennio Poretti^{12,19} , Ken Rice^{20,21}, Alessandro Sozzetti¹⁰ , and Stephane Udry¹¹ 

¹ Astronomy Department, University of California, Berkeley, CA 94720, USA; mayo@berkeley.edu

² DTU Space, National Space Institute, Technical University of Denmark, Elektrovej 327, DK-2800 Lyngby, Denmark

³ Centre for Star and Planet Formation, Natural History Museum of Denmark & Niels Bohr Institute, University of Copenhagen, Øster Voldgade 5-7, DK-1350 Copenhagen K., Denmark

⁴ Astrophysics Group, Cavendish Laboratory, University of Cambridge, J. J. Thomson Avenue, Cambridge CB3 0HE, UK

⁵ Centre for Exoplanet Science, SUPA, School of Physics and Astronomy, University of St. Andrews, St. Andrews, KY16 9SS, UK

⁶ Department of Earth & Planetary Sciences, Harvard University, 20 Oxford Street, Cambridge, MA 02138, USA

⁷ Center for Astrophysics|Harvard & Smithsonian, 60 Garden Street, Cambridge, MA 02138, USA

⁸ Department of Physics and Astronomy, San Francisco State University, San Francisco, CA 94132, USA

⁹ Department of Physics, Denys Wilkinson Building Keble Road, Oxford, OX1 3RH, UK

¹⁰ INAF—Osservatorio Astrofisico di Torino, via Osservatorio 20, I-10025 Pino Torinese, Italy

¹¹ Observatoire de Genève, Université de Genève, 51 ch. des Maillettes, CH-1290 Sauverny, Switzerland

¹² INAF—Fundación Galileo Galilei, Rambla José Ana Fernández Pérez 7, E-38712 Breña Baja, Spain

¹³ INAF—Osservatorio Astrofisico di Catania, Via S. Sofia 78, I-95123 Catania, Italy

¹⁴ INAF—Osservatorio Astronomico di Palermo, Piazza del Parlamento 1, I-90134 Palermo, Italy

¹⁵ INAF—Osservatorio Astronomico di Cagliari, via della Scienza 5, I-09047, Selargius, Italy

¹⁶ Department of Astronomy, The University of Texas at Austin, Austin, TX 78712, USA

¹⁷ Dipartimento di Fisica e Astronomia “Galileo Galilei,” Università di Padova, Vicolo dell’Osservatorio 3, I-35122 Padova, Italy

¹⁸ INAF—Osservatorio Astronomico di Padova, Vicolo dell’Osservatorio 5, I-35122 Padova, Italy

¹⁹ INAF—Osservatorio Astronomico di Brera, Via E. Bianchi 46, I-23807 Merate, Italy

²⁰ SUPA, Institute for Astronomy, University of Edinburgh, Royal Observatory, Blackford Hill, Edinburgh EH93HJ, UK

²¹ Centre for Exoplanet Science, University of Edinburgh, Edinburgh, EH93FD, UK

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The semimajor axis and planet insolation flux of Kepler-538b were incorrectly calculated in the published article. This error did not impact any other parameters or any other results in the paper. Table 2 has been included in full here with the corrected semimajor axis and planet insolation flux values.

We thank Arbab I. Arbab and Charles D. Fortenbach for bringing this to our attention.

Table 2
Transit and RV Parameters of Kepler-538b

Parameter	Unit	This Paper	Priors
<i>Transit Parameters</i>			
Period P	day	81.73778 ± 0.00013	Unif(81.73666, 81.73896)
Time of first transit	BJD-2454833	$211.6789^{+0.0010}_{-0.0011}$	Unif(211.6671, 211.6901)
Orbital eccentricity e	...	$0.041^{+0.034}_{-0.029} (<0.11)^a$	Beta(0.867, 3.03) ^{b,c}
Longitude of periastron ω	deg	140^{+140}_{-90}	Unif(0, 360)
Impact parameter b	...	$0.41^{+0.10}_{-0.21}$	Unif(0, 1)
Transit duration t_{14}	hr	$6.62^{+0.21}_{-0.13}$	Unif(0, 24)
Radius ratio R_p/R_*	...	$0.02329^{+0.00039}_{-0.00033}$	Jeffreys(0.001, 1)
Quadratic limb-darkening parameter q_1	...	$0.164^{+0.067}_{-0.042}$	Unif(0, 1)
Quadratic limb-darkening parameter q_2	...	$0.74^{+0.16}_{-0.22}$	Unif(0, 1)
Normalized baseline offset	ppm	$-2.1^{+2.7}_{-2.8}$	Unif(-100, 100)
Photometric white noise amplitude	ppm	$112.2^{+2.5}_{-2.4}$	ModJeffreys(1, 1000, 234)
<i>RV Parameters</i>			
Semi-amplitude K	m s^{-1}	$1.69^{+0.39}_{-0.38}$	ModJeffreys(0.01, 10, 2.1)
HIRES RV white noise amplitude	m s^{-1}	$3.25^{+0.56}_{-0.48}$	ModJeffreys(0, 10, 2.1)
HARPS-N RV white noise amplitude	m s^{-1}	$2.24^{+0.29}_{-0.27}$	ModJeffreys(0, 10, 2.1)

²² National Science Foundation Graduate Research Fellow.













²³ Fulbright Fellow.










²⁴ NASA Sagan Fellow.

Table 2
(Continued)

Parameter	Unit	This Paper	Priors
HARPS-N FWHM white noise amplitude	m s^{-1}	$6.71^{+0.52}_{-0.46}$	Jeffreys(0.01, 10)
HIRES RV offset amplitude	m s^{-1}	$-0.50^{+0.78}_{-0.87}$	Unif(-5, 5)
HARPS-N RV offset amplitude	m s^{-1}	$-37322.07^{+0.58}_{-0.73}$	Unif(-37330, -37315)
HARPS-N FWHM offset amplitude	m s^{-1}	$6655.4^{+7.5}_{-8.6}$	Unif(6600, 6700)
GP RV convective blueshift amplitude V_c	m s^{-1}	$0.86^{+0.75}_{-0.54}$	ModJeffreys(0, 15, 2.1)
GP RV rotation modulation amplitude V_r	m s^{-1}	$4.0^{+5.7}_{-3.0}$	ModJeffreys(0, 15, 2.1)
GP FWHM amplitude F_c	m s^{-1}	$13.3^{+5.9}_{-4.9}$	Jeffreys(0.01, 25)
GP stellar rotation period P_*	day	$25.2^{+6.5d}_{-1.2}$	Unif(20, 40)
GP inverse harmonic complexity λ_p	...	$5.2^{+2.8}_{-2.5}$	Unif(0.25, 10)
GP evolution timescale λ_e	day	370^{+200}_{-140}	Jeffreys(1, 1000)
<i>Derived Parameters</i>			
Planet radius R_p	R_\oplus	$2.215^{+0.040}_{-0.034}$...
System scale a/R_*	...	$87.5^{+1.5}_{-1.6}$...
Planet semimajor axis a	au	$0.3548^{+0.0066}_{-0.0068}$...
Orbital inclination i	degree	$89.73^{+0.14}_{-0.06}$...
Planet mass M_p	M_\oplus	$10.6^{+2.5}_{-2.4}$...
Planet mean density ρ_p	ρ_\oplus	0.98 ± 0.23	...
Planet mean density ρ_p	g cm^{-3}	5.4 ± 1.3	...
Planet insolation flux S_p	S_\oplus	$5.19^{+0.31}_{-0.28}$...
Planet equilibrium temperature T_{eq} (albedo = 0.3)	K	380	...
Planet equilibrium temperature T_{eq} (albedo = 0.5)	K	350	...

Notes.^a 95% confidence limit.^b Beta distribution parameter values from Kipping (2013).^c Prior also truncated to exclude $e > 0.95$.^d Rotation period uncertainties are highly asymmetric because the posterior includes a large peak at 25 days and a smaller peak at 31 days.**ORCID iDs**

Andrew W. Mayo  <https://orcid.org/0000-0002-7216-2135>
Lars A. Buchhave  <https://orcid.org/0000-0003-1605-5666>
Courtney D. Dressing  <https://orcid.org/0000-0001-8189-0233>
Annelies Mortier  <https://orcid.org/0000-0001-7254-4363>
Li Zeng  <https://orcid.org/0000-0003-1957-6635>
Charles D. Fortenbach  <https://orcid.org/0000-0001-5286-639X>
Suzanne Aigrain  <https://orcid.org/0000-0003-1453-0574>
Aldo S. Bonomo  <https://orcid.org/0000-0002-6177-198X>
Andrew Collier Cameron  <https://orcid.org/0000-0002-8863-7828>
David Charbonneau  <https://orcid.org/0000-0002-9003-484X>
Xavier Dumusque  <https://orcid.org/0000-0002-9332-2011>
Raphaëlle D. Haywood  <https://orcid.org/0000-0001-9140-3574>

David W. Latham  <https://orcid.org/0000-0001-9911-7388>
Mercedes López-Morales  <https://orcid.org/0000-0003-3204-8183>
Luca Malavolta  <https://orcid.org/0000-0002-6492-2085>
Emilio Molinari  <https://orcid.org/0000-0002-1742-7735>
Logan Pearce  <https://orcid.org/0000-0003-3904-7378>
Giampaolo Piotto  <https://orcid.org/0000-0002-9937-6387>
Ennio Poretti  <https://orcid.org/0000-0003-1200-0473>
Alessandro Sozzetti  <https://orcid.org/0000-0002-7504-365X>
Stephane Udry  <https://orcid.org/0000-0001-7576-6236>

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