Julien de Wit

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Disruptive Planets Group
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APPOINTMENTS

Assistant Professor in Planetary Sciences	*MIT*	2018 – present
Associate Member	*Broad Institute*	2018 – 2020
Postdoctoral Associate	*MIT*	2014 – 2018
Founder	*Morpheus, LLC*	2013 – 2023
Graduate Research Assistant	*MIT*	2011 – 2014
Teaching Assistant in Physics	*ULg*	2007 – 2008

EDUCATION

Kaufman Teaching Certificate Program, 2018
Ph.D. Planetary Sciences, *Massachusetts Institute of Technology (MIT)*, 2014
Thesis entitled "*Maps and Masses of Transiting Exoplanets: Towards New Insights into Atmospheric and Interior Properties of Planets*", supervised by Prof. Sara Seager
M.Sc. Aerospace Engineering, Summa Cum Laude, *Université de Liège (ULg)*, 2011
Thesis entitled "*Global Analysis of the Exoplanet HD 189733b Eclipse Photometric Time-Series Obtained with the Instruments IRAC, IRS and MIPS of the Spitzer Space Telescope*", supervised by Dr. Michaël Gillon
SUPAERO Engineer Space Systems and Fluid Dynamics, *Institut Supérieur de l'Aéronautique et de l'Espace (ISAE)*, 2010
M.Res. Astrophysics, Planetology and Space Sciences, *ISAE*, 2010
B.Eng. Physics and Mechanics, *ULg*, 2008

SELECTED HONORS/ AWARDS

Aurelia Fellow	2022
Class of 1954 Career Development Professor	2019
NASA Group Achievement Award – Elected recipient for the TRAPPIST-1 Team	2018
Pioneer of the Year 2017 – Europe (Innovators Under 35)	2017
Honorary Citizenship from the city of Liège	2017
Innovator of the Year 2017 – Belgium (Innovators Under 35)	2017
System and Method for Human Monitoring (US patent # 9538959)	2017
2014 Early Career Award from the Association of the Engineers of Liege	2015
Wallonie-Bruxelles International Fellowship of Excellence	2011 – 2014
Top Industrial Managers for Europe Label Certificate	2013
Belgian American Educational Foundation fellow	2012 – 2013
2011 Odissea Award of the Belgian Senate	2012

SELECTED GRANTS (*group members)

MISTI Global Seed Funds, (PI), 2023-2025, "Supporting fundamental quantum calculation to enable the atmospheric study of extra-solar planets"
Hubble Space Telescope, (co-PI, PI: Rackham*, AR17551), 2023-2026, "Unlocking the Stellar Treasure Trove: A Legacy Library of Stellar Hosts' Heterogeneities, Activity, and Spectral Contributions from HST Exoplanet Data"
Hubble Space Telescope, (co-PI, PI: Burdanov*, AR17566), 2023-2024, "Deepest high-inclination pencil-beam survey for Trans-Neptunian objects"
Heising-Simons Foundation, (PI, 2017-383), "To find planets for imminent habitability assessment"
Hubble Space Telescope, (PI, GO15304), 2017-2021, "Collecting the Puzzle Pieces: Completing HST's UV+NIR Survey of the TRAPPIST-1 System ahead of JWST"
Hubble Space Telescope, (PI, GO14900), 2017-2020, "Confirming the Presence of an Hydrogen Exosphere around the Earth-sized Temperate Planet TRAPPIST-1c"
Hubble Space Telescope, (PI, GO14873), 2016-2017, "Exploratory observations of the TRAPPIST-1 system: essential prelude to an immediate JWST follow-up"
Hubble Space Telescope, (PI, GO14500), 2016-2017, "Two Birds One Stone: Simultaneous Atmospheric Pre-Screening of Two Temperate Earth-Sized Exoplanets During Their Double Transit"

SELECTED SERVICE ACTIVITIES

Panel member and reviewer for NASA XPR (15-19), NASA/STScI Financial Review Committee (20-23).
Reviewer for NASA XPR, NASA NESSF Fellowships, JWST, HST, SST (15-17), Front de Recherche du Québec, FONDECYT-Chile.
Referee for ApJ, AJ, MNRAS.

Supervision:

Research Scientists:

2023-present Artem Burdanov, previously postdoc in the group (2018-2023).
2023-present Benjamin Rackham, previously postdoc in the group (2018-2023).

Postdocs:

2023-present Prajwal Niraula, previously graduate student in the group (2018-2023).
2023-present David Berardo, previously graduate student in the group (2019-2023).
2021-present Khalid Barkaoui
2021-2022 Patricia Chincilla. Now staff at the Institute of Astrophysics of the Canary Islands.
2022 Paul Corlies. Now Senior Scientist at Spectral Sciences Inc.
2020 Clara Sousa-Silva. Now Faculty at Bard College.
+ Artem Burdanov & Benjamin Rackham (see Research Scientist).

Graduate Students:

2023-present Aaron Householder, PhD supervisor.
2022-present Daniel Abdulah, admitted jointly with Prof. Kang.
2021-present Zoe de Beurs, PhD supervisor.
2021-present Isaac Narrett, 2nd-generals supervisor (paper in review—see Narrett et al. in Publications).
2020-present Samantha Hasler, collaboration beyond 2nd-generals (Hasler et al. 2023).
2021-2023 Jared Bryan, 2nd-generals supervisor (paper in review—see Bryan et al). Now with Prof. Frank.
2021-2023 Brindha Kanniah, 2nd-generals supervisor. Now with Prof. Demanet.
2020-2022 Jing Jian, 2nd-generals supervisor. Now in industry (left with a Master Degree).
2020-2021 Mariona Agusti, 2nd-generals supervisor. Now with Prof. Vandenberg.
2019-2021 James Hall, 2nd-generals supervisor (paper in prep). Now postdoc with Prof. Bosak.
+ Prajwal Niraula & David Berardo (see Postdocs).

Undergraduate Students:

2020-2022 John Dinsmore, SuperUROP (see Dinsmore & de Wit, 2023). Now graduate student at Stanford.
2020-2022 Brianna Ryan, SuperUROP. Now graduate student at MIT with Prof. Formaggio.
2020 Mohit Dighamber, UROP.
2020 Anika Kamath, UROP.
2020 Claire McLellam-Cassivi, UROP.
2020 Lisa Popkov, UROP.
2020 Alex Quach, UROP.
2020 Christopher Vargas, UROP.
2020 Jawad Yousef, UROP.
2020 Tai Zheng, UROP.
2020 Lisa Popkov, UROP. Now research analyst at Morgan Stanley.
2019 April Cheng.
2018 Haley Bates, UROP. Now support engineer at NASA/JPL.
2018 Matthew Cotton. Now graduate student at Oxford.
2018 Charlotte Minsky, UROP. Now graduate student at Harvard.
2018 Lana Tilke. Now graduate student at Arizona State.

Past PhD committees: Ana Glidden, Caue Borlina, Clara Maurel, David Berardo, Lionel Garcia, Prajwal Niraula, Saleh Al Nassar, Sammy Hasler, Tajana Schneiderman, Zhuchang Zhang.

MIT Service:

2019-2023 51 Peg b Committee Chair
2020 Planetary Search (DEI representative).
2020 EAPS Distinguished Fellowship.
2019 EAPS 2023 TaskForce.
2019 EAPS and College of Computing.

MIT Classes:

2023 (Fall)	12.422/622	Planetary Atmospheres
2023 (Spring)	12.400	Our Space Odyssey
2022 (Fall)	N/A	Junior Faculty Teaching Leave
2022 (Spring)	12.400	Our Space Odyssey
2021 (Fall)	12.422/622	Planetary Atmospheres
2021 (spring)	12.400	Our Space Odyssey
2020 (fall)	12.420/601	Physics and Chemistry of the Solar System/Essentials of Planetary Sciences
2020 (fall)	12.900	EAPS First Year Graduate Seminar
2020 (spring)	12.400	Our Space Odyssey
2019 (fall)	N/A	Medical/Teaching Leave
2019 (spring)	12.420/601	Physics and Chemistry of the Solar System/Essentials of Planetary Sciences
2018 (fall)	12.S597	Special Seminar in Earth, Atmospheric and Planetary Sciences

+ Contributions to 12.S597, 12.00, 12.409, 12.410, and 21G.312.

SELECTED TALKS

2024 AAS Meeting (Invited), "Origin and Extent of the Opacity Challenge in Exoplanet Atmospheric Characterization"
2023 Belgian State Visit to Germany (Invited Panelist), "From cross border collaborations to infinity and beyond"
2023 Harvard/CfA (Invited), "Robustly Characterizing Exoplanets in a New Era of High-Precision Transit Measurements"
2023 Max Planck Institute for Astronomy (Invited), "RCENEHPTM[1]"
2023 Max Planck Institute for Solar System Research (Invited), "RCENEHPTM[1]"
2023 U. Liège, "RCENEHPTM[1]"
2023 U. Paris-Saclay (Invited), "RCENEHPTM[1]"
2023 CEA Paris (Invited), "RCENEHPTM[1]"
2023 U. Birmingham (Invited), "RCENEHPTM[1]"
2023 Observatoire de Paris (Invited), "RCENEHPTM[1]"
2023 U. Geneva (Invited), "RCENEHPTM[1]"
2019 Belgian State Visit to Luxembourg (Invited Keynote), "Next Step on Our Space Odyssey: Stumbling Upon Life Elsewhere"
2019 MATH+X Symposium (Invited), "New Worlds, New Perspectives"
2017 TEDxLiège (Invited), "Finding Life Elsewhere: an Imminent Paradigm-shifting Experience"
2017 Broad Institute (Invited), MIA Meetings, "A Pseudo-random Walk from New Worlds to Diabetes"
2017 MIT (Invited Keynote), Beyond the Cradle, "*New Worlds, New Perspectives*"
2017 MIT (Public event), "*New Worlds, New Discoveries: a major leap in the search for life beyond our solar system*"
2016 University of Cambridge (Seminar), "*Habitability of Exoplanets: What can we learn in the next 10 years ?*"

SELECTED PEER-REVIEWED PUBLICATIONS (*group members, + = co-first authors)

+Triaud A.H.M.J., +,*de Wit J. et al. (2024), *Nature Astronomy*, 8, 17. Press Release
"Atmospheric carbon depletion as a tracer of water oceans and biomasses on temperate terrestrial exoplanets"
+*Niraula, P., +de Wit, J., et al. (2022), *Nature Astronomy*, 6, 1287. Press Release
"The impeding opacity challenge in exoplanet atmospheric characterization"
+de Wit, J., +Wakeford H., +Lewis N., et al. (2018), *Nature Astronomy*, 2, 214. Press Release
"Atmospheric Reconnaissance of TRAPPIST-1's Habitable-zone Earth-sized Exoplanets"
de Wit, J., Lewis, N., Knutson, H., Fuller, J., Antoci, V., et al. (2017), *ApJL*, 836, L17. Press Release
"Planet-induced Stellar Pulsations in HAT-P-2's Eccentric System"
de Wit, J., Wakeford H., Gillon, M., Lewis N., Valenti, J., et al. (2016), *Nature*, 537, 69, Press Release
"A combined transmission spectrum of the Earth-sized exoplanets TRAPPIST-1 b and c"
Demory, B.-O., Gillon, M., de Wit, J., Madhusudhan, N., et al. (2016), *Nature*, 532, 207. Press Release
"A map of the large day-night temperature gradient of a super-Earth exoplanet"
de Wit, J., Lewis, N., Langton, J., Laughlin, G., Deming, D., et al. (2016), *ApJL*, 820, L33. Press Release
"Direct Measure of Radiative and Dynamical Properties of an Exoplanet Atmosphere"
de Wit, J. & Seager, S., (2013), *Science*, 342, 1473. Press Release
"Constraining Exoplanet Mass from Transmission Spectroscopy"
de Wit, J., Gillon, M., Demory, B.-O., 7 Seager, S. (2012), *A&A*, 548, A128
"Towards consistent mapping of distant worlds: secondary-eclipse scanning of the exoplanet HD18733b"

[1] Robustly Characterizing Exoplanets in a New Era of High-Precision Transit Measurements.

ALL PEER-REVIEWED PUBLICATIONS

Google Scholar (Citations: 6,318 / h-index: 28 / i10-index: 51)

(* = group undergrad. student, ** = group grad. student, *** = group postdoc, $^{+}$ = co first authors, ^{T} = enabled by group telescope)

1. TRAPPIST-1 JWST Community Initiative, $^{+}$de Wit J., $^{+}$Doyon, R., et al. (2023), in review,
"A roadmap to the efficient and robust characterization of temperate terrestrial planet atmospheres with JWST".

2. **Bryan J., de Wit J., et al. (2023), in review,
"The intermittently-resonant coevolution of migrating planets and their pulsating stars".

3. ***Rackham B.V. & de Wit J. (2023), in review,
"Towards robust corrections for stellar contamination in JWST exoplanet transmission spectra".

4. ***Barkaoui K. et al. (2023), accepted,
"WASP-193 b: An extremely low-density super-Neptune".

5. **Berardo D., de Wit J. & ***Rackham B.V. (2024), *Astrophys. J., Letters* 961, L18,
"Empirically Constraining the Spectra of Stellar Surface Features Using Time-resolved Spectroscopy".

6. $^{+}$Triaud A.H.M.J., $^{+}$de Wit J. et al. (2024), *Nature Astronomy*, 8, 17
"Atmospheric carbon depletion as a tracer of water oceans and biomasses on temperate terrestrial exoplanets".

7. ^{T}Hartman J.D., et al. (2023), *Astron. J.* 166, 163,
"TOI 4201 b and TOI 5344 b: Discovery of Two Transiting Giant Planets around M-dwarf Stars and Revised Parameters for Three Others".

8. ^{T}Rommel F.L., et al. (2023), *Astron. Astrophys.* 678, A167,
"A large topographic feature on the surface of the trans-Neptunian object (307261) 2002 MS4 measured from stellar occultations".

9. ^{T}Triaud A.H.M.J., et al. (2023), *Mon. Not. R. Astron. Soc.* 525, L98,
"An M-dwarf accompanied by a close-in giant orbiter".

10. **Hasler S.N., ***Burdanov A.Y, de Wit J. et al. (2023), *Mon. Not. R. Astron. Soc.*526, 3601,
"Small body harvest with the Antarctic Search for Transiting Exoplanets (ASTEP) project".

11. Lim O. et al. (2023), *Astrophys. J., Letters* 955, L22,
"Atmospheric Reconnaissance of TRAPPIST-1 b with JWST/NIRISS: Evidence for Strong Stellar Contamination in the Transmission Spectra".

12. ^{T}Ghachoui M. et al. (2023), *Astron. J.* 166, 165,
"A Massive Hot Jupiter Orbiting a Metal-rich Early M Star Discovered in the TESS Full-frame Images".

13. **de Beurs Z.L., de Wit J., et al. (2023), *Astron. J.* 166, 136,
"Confirmation of HAT-P-2 c and potential rapid orbital evolution in HAT-P-2 b".

14. ^{T}Ghachoui M. et al. (2023), *Astron. Astrophys.* 677, A31,
" TESS discovers a super-Earth orbiting the M dwarf star TOI-1680".

15. ^{T,}***Barkaoui K. et al. (2023), *Astron. Astrophys.* 677, A38,
"TOI-2084b and TOI-4184b: two new sub-Neptunes around nearby M dwarf stars".

16. **Niraula P., de Wit J. et al. (2023), *Astrophys. J., Letters* 950, L17,
"Origin and extent of the opacity challenge for the atmospheric retrievals of WASP-39 b".

17. ^{T}Brož M., et al. (2023), *Astron. Astrophys.* (accepted),
"2021 occultations and transits of Linus orbiting (22) Kalliope: I. Polygonal and clip tracing algorithm".

18. ^{T}Dransfield G., et al. (2023), *Mon. Not. R. Astron. Soc.* 527, 34,
"A 1.55 R⊕ habitable-zone planet hosted by TOI-715, an M4 star near the ecliptic South Pole".

19. ^{T,}***Burdanov A.Y, **Hasler S.N., & de Wit J. (2023), *Mon. Not. R. Astron. Soc.* 521, 4588,
"GPU-based framework for detecting small Solar System bodies in targeted exoplanet surveys".

20. ^{T}Pozuelos F.J, et al. (2023), *Astron. Astrophys.* 672, A70,
"A super-Earth and a mini-Neptune near the 2: 1 MMR straddling the radius valley around the nearby mid-M dwarf TOI-2096".

21. *Dinsmore J.T. & de Wit J. (2023), *Mon. Not. R. Astron. Soc.* 520, 3459,
"Constraining the interiors of asteroids through close encounters".

22. [T]Morgado BE, et al. (2023), *Nature* 614 (7947), 239-243,
"A dense ring of the trans-Neptunian object Quaoar outside its Roche limit".

23. Pedersen PP, et al. (2023), *Mon. Not. R. Astron. Soc.* 518 (2), 2661,
"Precise near-infrared photometry, accounting for precipitable water vapour at SPECULOOS Southern Observatory".

24. **Berardo D. & de Wit J. (2022), *Astrophys. J.* 941 (2), 155,
"Tidal Distortions as a Bottleneck on Constraining Exoplanet Compositions".

25. de Wit J. & Gordon I. (2022), *Nature Astronomy* 6, 1237,
"Opacity-driven bottlenecks in decoding exoplanetary spectra".

26. Delrez L. et al. (2022), *Astron. Astrophys.* 667, A59,
"Two temperate super-Earths transiting a nearby late-type M dwarf".

27. **,[+]Niraula P., [+]de Wit J. et al. (2022), *Nature Astronomy* 6, 1287,
"The impending opacity challenge in exoplanet atmospheric characterization".

28. [T,]***Burdanov A.Y., de Wit J., et al. (2022), *Public. Astron. Soc. Pac.* 134, 105001,
"SPECULOOS Northern Observatory: searching for red worlds in the northern skies".

29. **Berardo D. & de Wit J (2022), *Astrophys. J.* 935 (2), 178,
"On the Effects of Planetary Oblateness on Exoplanet Studies".

30. [T]Gan T., et al. (2022), *Mon. Not. R. Astron. Soc.* 514, 4120,
"TESS discovery of a sub-Neptune orbiting a mid-M dwarf TOI-2136".

31. Murray C.A. et al. (2022), *Mon. Not. R. Astron. Soc.* 513, 2615,
"A study of flares in the ultra-cool regime from SPECULOOS-South".

32. Garcia L.J. et al. (2022), *Astron. Astrophys.* 665, A19,
"HST/WFC3 transmission spectroscopy of the cold rocky planet TRAPPIST-1h".

33. **Niraula P. et al. (2022), *Astrophys. J.* 163, 172,
"Revisiting Kepler Transiting Systems: Unvetting Planets and Constraining Relationships among Harmonics in Phase Curves".

34. [T]Schanche N., et al. (2022), *Astron. Astrophys.* 657, A45,
"TOI-2257 b: A highly eccentric long-period sub-Neptune transiting a nearby M dwarf".

35. [T]Wells R.D. et al. (2021), *Astron. Astrophys.* 653, A97,
"A large sub-Neptune transiting the thick-disk M4 V TOI-2406".

36. [T]Devogele M. et al. (2021), *Mon. Not. R. Astron. Soc.* 505, 245,
"(6478) Gault: physical characterization of an active main-belt asteroid".

37. [T]Bryant E.M., et al. (2021), *Mon. Not. R. Astron. Soc.* 504, L45,
"A transit timing variation observed for the long-period extremely low-density exoplanet HIP 41378 f".

38. Daylan T. et al. (2021), *Astron. J.* 161, 131,
"TESS observations of the WASP-121 b phase curve".

39. Agol E. et al. (2021), *Plan. Sc. J.* 2, 1,
"Refining the Transit-timing and Photometric Analysis of TRAPPIST-1: Masses, Radii, Densities, Dynamics, and Ephemerides".

40. [T]Sebastian D. et al. (2021), *Astron. Astrophys.* 645, A100,
"SPECULOOS: Ultracool dwarf transit survey-Target list and strategy".

41. [T]Demory B.O. et al. (2020), *Astron. Astrophys.* 642, A49,
"A super-Earth and a sub-Neptune orbiting the bright, quiet M3 dwarf TOI-1266".

42. [T,]**Niraula P., de Wit J. et al. (2020), *Astrophys. J.* 160, 172,
"π Earth: A 3.14 day Earth-sized Planet from K2's Kitchen Served Warm by the SPECULOOS Team".

43. Ducrot E., et al. (2020), *Astron. Astrophys.* 640, A112,
"Trappist-1: global results of the spitzer exploration science program red worlds".

44. Triaud A.H.M.J., et al. (2020), *Nature Astronomy* 4, 650,

"An eclipsing substellar binary in a young triple system discovered by SPECULOOS".

45. Kilpatrick B.M., et al. (2020), *Astron. J.* 159, 51,
"Evaluating Climate Variability of the Canonical Hot-Jupiters HD 189733b and HD 209458b through Multi-epoch Eclipse Observations".

46. Fauchez T.J., et al. (2019), *Astrophys. J.* 887, 194,
"Impact of clouds and hazes on the simulated JWST transmission spectra of habitable zone planets in the TRAPPIST-1 system".

47. ***Burdanov A.Y. et al. (2019), *Mon. Not. R. Astron. Soc.* 487, 1634,
"Ground-based follow-up observations of TRAPPIST-1 transits in the near-infrared".

48. Wakeford, H.R., et al. (2018), *Astron. J.* 157, 11,
"Disentangling the planet from the star in late-type M dwarfs: a case study of TRAPPIST-1g".

49. Ducrot E. et al. (2018), *Astron. J.* 156, 218,
"The 0.8–4.5 μm broadband transmission spectra of TRAPPIST-1 planets".

50. Bean J.L. et al. (2018), *Public. Astron. Soc. Pac.* 130, 114402,
"The transiting exoplanet community early release science program for JWST".

51. Grimm S.L. et al. (2018), *Astron. Astrophys.* 613, A68,
"The nature of the TRAPPIST-1 exoplanets".

52. Delrez L. et al. (2018), *Mon. Not. R. Astron. Soc.* 475, 3577,
"Early 2017 observations of TRAPPIST-1 with Spitzer".

53. de Wit et al. (2018), *Nature Astronomy* 2, 214,
"Atmospheric reconnaissance of the habitable-zone Earth-sized planets orbiting TRAPPIST-1".

54. Van Grootel V. et al. (2018), *Astrophys. J.* 853, 30,
"Stellar parameters for Trappist-1".

55. [T]Delrez et al. (2018) SPECULOOS: a network of robotic telescopes to hunt for terrestrial planets around the nearest ultracool dwarfs. Ground-based and Airborne Telescopes VII 10700, 107001I.

56. Bourrier V., de Wit J., et al (2018), *Astron. J.* 154, 121,
"Temporal evolution of the high-energy irradiation and water content of TRAPPIST-1 exoplanets".

57. Luger R. et al. (2017), *Nature Astronomy* 1, 0129,
"A seven-planet resonant chain in TRAPPIST-1".

58. Bourrier V. et al (2017), *Astron. Astrophys.* 599, L3,
"Reconnaissance of the TRAPPIST-1 exoplanet system in the Lyman-α line".

59. Gillon et al. (2017), *Nature* 542, 456,
"Seven temperate terrestrial planets around the nearby ultracool dwarf star TRAPPIST-1".

60. de Wit J. et al. (2017), *Astrophys. J., Letters* 836, L17,
"Planet-induced Stellar Pulsations in HAT-P-2's Eccentric System".

61. de Wit J. et al. (2016), *Nature* 537, 69,
"A combined transmission spectrum of the Earth-sized exoplanets TRAPPIST-1 b and c".

62. Stevenson K.B., et al (2016), *Public. Astron. Soc. Pac.* 128, 094401,
"Transiting exoplanet studies and community targets for JWST's Early Release Science Program".

63. Gillon M. et al. (2016), *Nature* 533, 221,
"Temperate Earth-sized planets transiting a nearby ultracool dwarf star".

64. Demory B.O. et al. (2016), *Nature* 532, 207,
"A map of the large day–night temperature gradient of a super-Earth exoplanet".

65. de Wit J. et al. (2016), *Astrophys. J., Letters* 820, L33,
"Direct measure of radiative and dynamical properties of an exoplanet atmosphere".

66. Tinetti G. et al. (2015), Exp Astro 40, 329,
"The EChO science case".

67. Parmentier V., Showman A.P., de Wit j. (2015), Exp Astro 40, 481,
"Unveiling the atmospheres of giant exoplanets with an EChO-class mission".

68. de Wit J. & Seager S. (2013), *Science* 342, 1473,
"Constraining exoplanet mass from transmission spectroscopy".

69. Zsom A. et al (2013), *Astrophys. J.* 778, 109,
"Toward the minimum inner edge distance of the habitable zone".

70. Demory B.O., de Wit J., et al. (2013), *Astrophys. J., Letters* 776, L25,
"Inference of inhomogeneous clouds in an exoplanet atmosphere".

71. *de Wit J., Gillon M., Demory B.-O., Seager S. (2012), *Astron. Astrophys.*, 548, A128
"Towards consistent mapping of distant worlds: secondary-eclipse scanning of the exoplanet HD18733b".