

ROSES 2020
TABLE 3: SOLICITED RESEARCH PROGRAMS
(In Order of Appendices A-E) [1]

APPENDIX	PROGRAM	NOI/Step-1 DUE DATE [2]	PROPOSAL DUE DATE
A.1	Earth Science Research Overview	N/A	N/A
A.2	Land Cover/ Land Use Change	03/16/2020	06/01/2020
A.3	Ocean Biology and Biogeochemistry	TBD	TBD
A.4	Terrestrial Ecology	Not Solicited This Year	
A.5	Carbon Cycle Science	TBD	TBD
A.6	Carbon Monitoring System	08/31/2020	10/16/2020
A.7	Biodiversity	04/24/2020	05/22/2020
A.8	Global Ecosystem Dynamics Investigation (GEDI) Science Team	05/01/2020	06/16/2020
A.9	Physical Oceanography	05/28/2020	06/25/2020
A.10	Ocean Salinity Science Team	Not Solicited This Year	
A.11	Sea Level Change Science Team	Not Solicited This Year	
A.12	Surface Water and Ocean Topography Science Team	Not Solicited This Year	
A.13	Ocean Salinity Field Campaign	TBD	TBD
A.14	Ocean Surface Topography Science Team	09/10/2020	10/08/2020
A.15	Ocean Vector Winds Science Team	Not Solicited This Year	
A.16	Modeling Analysis and Prediction	05/22/2020	06/30/2020
A.17	Cryospheric Science	06/02/2020	06/30/2020
A.18	Atmospheric Composition: Upper Atmospheric Composition Observations	N/A	09/17/2020
A.19	Atmospheric Composition: Laboratory Research	N/A	08/13/2020
A.20	Atmospheric Composition: Radiation Sciences Program	Not Solicited This Year	
A.21	Atmospheric Composition: Modeling and Analysis Program	Not Solicited This Year	
A.22	Atmospheric Composition: Tropospheric Composition Program	Not Solicited This Year	
A.23	Atmospheric Composition: Campaign Data Analysis and Modeling	N/A	09/18/2020
A.24	Terrestrial Hydrology	10/07/2020	11/18/2020
A.25	Weather and Atmospheric Dynamics	Not Solicited This Year	
A.26	Earth and Surface Interior	05/01/2020	06/02/2020
A.27	CYGNSS Competed Science Team	08/14/2020	09/18/2020

A.28	Rapid Response and Novel Research in Earth Science	N/A	Rolling submissions through 03/29/2021
A.29	Airborne Instrument Technology Transition	Not Solicited This Year	
A.30	Earth Science U.S. Participating Investigator	06/18/2020	07/16/2020
A.31	Interdisciplinary Research in Earth Science	Not Solicited This Year	
A.32	New (Early Career) Investigator Program in Earth Science	TBD	TBD
A.33	The Science of Terra, Aqua, and Suomi-NPP	Not Solicited This Year	
A.34	Studies with ICESat-2	TBD	TBD
A.35	Earth Science Applications: Water Resources	Not Solicited This Year	
A.36	SERVIR Applied Science Team	Not Solicited This Year	
A.37	Earth Science Applications: Disaster Risk Reduction and Resilience	Not Solicited This Year	
A.38	Health and Air Quality Applied Sciences Team	04/17/2020	05/29/2020
A.39	Ecological Forecasting	07/17/2020	08/14/2020
A.40	Advancing Collaborative Connections for Earth System Science	Not Solicited This Year	
A.41	Citizen Science for Earth Systems Program	TBD	TBD
A.42	Commercial SmallSat Data Evaluation Team	TBD	TBD
A.43	Instrument Incubator Program	Not Solicited This Year	
A.44	Advanced Component Technology	TBD	TBD
A.45	In-space Validation of Earth Science Technologies	TBD	TBD
A.46	Sustainable Land Imaging - Technology	Not Solicited This Year	
A.47	Decadal Survey Incubation	Not Solicited This Year	
A.48	Advanced Information Systems Technology	Not Solicited This Year	
B.1	Heliophysics Research Program Overview Overview	N/A	N/A
B.2	Heliophysics Supporting Research	11/18/2020 (Step-1)	02/17/2021 (Step-2)
B.3	Heliophysics Theory, Modeling, and Simulations	Not Solicited This Year	
B.4	Heliophysics Guest Investigators Open	04/15/2020 (Step-1)	07/15/2020 (Step-2)
B.5	Living With a Star Science	TBD	TBD
B.6	Living With a Star Strategic Capabilities	TBD	TBD
B.7	Space Weather Science Applications Operations 2 Research	TBD	TBD
B.8	Heliophysics Technology and Instrument Development for Science	N/A	08/26/2020
B.9	Heliophysics Low Cost Access to Space	N/A	08/26/2020
B.10	Heliophysics Flight Opportunities Studies	N/A	TBD

B.11	Heliophysics Flight Opportunities for Research and Technology	N/A	TBD
B.12	Heliophysics Data Environment Enhancements	04/24/2020 (Step-1)	06/17/2020 (Step-2)
B.13	Heliophysics U.S. Participating Investigator	04/24/2020 (Step-1)	06/17/2020 (Step-2)
B.14	Early Career Investigator Program	05/13/2020 (Step-1)	08/12/2020 (Step-2)
B.15	GOLD-ICON Guest Investigators	02/17/2021 (Step-1)	04/14/2021 (Step-2)
B.16	Parker Solar Probe Guest Investigators	01/20/2021 (Step-1)	03/17/2021 (Step-2)
C.1	Planetary Science Research Program Overview	N/A	N/A
C.2	Emerging Worlds [3]	04/03/2020 (Step-1)	06/01/2020 (Step-2)
C.3	Solar System Workings [3]	11/13/2020	01/29/2021
C.4	Planetary Data Archiving, Restoration, and Tools [3]	05/15/2020 (Step-1)	07/10/2020 (Step-2)
C.5	Exobiology [3]	04/22/2020	05/22/2020
C.6	Solar System Observations [3]	04/08/2020 (Step-1)	06/10/2020 (Step-2)
C.7	New Frontiers Data Analysis [3]	07/09/2020 (Step-1)	09/17/2020 (Step-2)
C.8	Lunar Data Analysis [3]	12/01/2020 (Step-1)	02/26/2021 (Step-2)
C.9	Mars Data Analysis [3]	09/25/2020 (Step-1)	11/20/2020 (Step-2)
C.10	Cassini Data Analysis [3]	05/07/2020 (Step-1)	07/09/2020 (Step-2)
C.11	Discovery Data Analysis [3]	08/28/2020 (Step-1)	10/30/2020 (Step-2)
C.12	Planetary Instrument Concepts for the Advancement of Solar System Observations [3]	09/18/2020 (Step-1)	11/20/20 (Step-2)
C.13	Maturation of Instruments for Solar System Exploration [3]	04/17/200 (Step-1)	06/19/2020 (Step-2)
C.14	Planetary Science and Technology Through Analog Research [3]	08/14/2020 (Step-1)	10/09/2020 (Step-2)
C.15	Planetary Protection Research [3]	Not Solicited This Year	
C.16	Laboratory Analysis of Returned Samples [3]	04/24/2020 (Step-1)	06/22/2020 (Step-2)
C.17	Planetary Major Equipment and Facilities: Appended proposals [3]	See Program of Interest	
C.17	Planetary Major Equipment and Facilities: Stand-alone proposals [3]	TBD	TBD

C.18	Early Career Fellowship Start-Up Program for Named Fellows	N/A	Rolling submissions through 03/29/2021
C.19	Planetary Science Early Career Award Program [3]	N/A	12/01/2020
C.20	Development and Advancement of Lunar Instrumentation Program [3]	04/17/2020 (Step-1)	06/12/2020 (Step-2)
C.21	Double Asteroid Redirection Test (DART) Participating Scientist Program	TBD	TBD
C.22	Radioisotope Power Systems Enabling Missions Beginning with Research and Technology	TBD	TBD
C.23	Interdisciplinary Consortia for Astrobiology Research	Not Solicited This Year	
C.24	Yearly Opportunities for Research in Planetary Defense [3]	04/08/2020 (Step-1)	06/10/2020 (Step-2)
C.25	Mars Organic Molecule Analyser (MOMA) Participating Scientist Program	TBD	TBD
D.1	Astrophysics Research Program Overview	N/A	N/A
D.2	Astrophysics Data Analysis	03/31/2020	05/19/2020
D.3	Astrophysics Research and Analysis	10/23/2020 (mandatory NOIs)	12/17/2020
D.4	Astrophysics Theory Program	Not Solicited This Year	
D.5	Neil Gehrels Swift Observatory Guest Investigator Cycle 17	N/A	09/25/2020 (Phase-1 via ARK RPS)
D.6	Fermi Guest Investigator Cycle 14	N/A	02/19/2021 (Phase-1 via ARK RPS)
D.7	Strategic Astrophysics Technology	TBD	TBD
D.8	Nancy Grace Roman Technology Fellowships for Early Career Researchers	See D.3 and D.7	
D.9	NuSTAR General Observer Cycle 7	N/A	01/22/2021 (Phase-1 via ARK RPS)
D.10	TESS Guest Investigator Cycle 4	N/A	01/15/2021 (Phase-1 via ARK RPS)
D.11	NICER Guest Observer Cycle 3	N/A	11/12/2020 (Phase-1 via ARK RPS)
D.12	X-Ray Imaging and Spectroscopy Mission Guest Scientist	TBD	TBD

D.13	Astrophysics Explorers U.S. Participating Investigators	TBD (mandatory NOIs)	TBD
D.14	Theoretical and Computational Astrophysics Networks	N/A	05/28/2020
E.1	Cross Division Research Overview	N/A	N/A
E.2	Topical Workshops, Symposia, and Conferences	N/A	Rolling submissions through 03/29/2021
E.3	Exoplanets Research [3]	03/27/2020 (Step-1)	05/29/2020 (Step-2)
E.4	Habitable Worlds [3]	11/17/2020 (Step-1)	01/15/2021 (Step-2)
E.5	Future Investigators in NASA Earth and Space Science and Technology	N/A	TBD
E.6	Science Activation Program Integration	03/25/2020	05/27/2020
E.7	Support for Open Source Tools, Frameworks, and Libraries	TBD	TBD
E.8	Supplemental Open Source Software Awards	TBD	TBD

Notes:

[1] Amended due dates and new program elements will be indicated with bold red text as ROSES-2020 is amended through the year.

[2] See Sections IV(b)(vi) and IV(b)(vii) of the Summary of Solicitation for a discussion of Notice of Intent (NOI) vs. a Step-1 proposal. If NOIs are requested, a due date is provided in the table. If NOIs are required by a program in order to be able to submit a proposal, it will be indicated on this table with "(mandatory)". If NOIs are replaced by a Step-1 proposal, the table entry will include that information.

[3] Program elements designated with [3] after their name participate in the Planetary Science Early Career Award Program (see C.19).