

Changes to ROSES elements

Suggested by HPS in July 2015

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HPS July 2015 Recommendation for SC Consideration

Recommendation for SC Consideration: HPD should either increase the size of the grants to bring them more in line with their values of 30 years ago and/or reduce the number of pages from 15 to 10 or less for the Scientific/Technical/Management Section for R&A proposals.

Major Reasons for the Proposing the Recommendation: For more than three decades, the basic size and scope of the H-SR & H-GI grants have remained the same: 15 page proposals for ~\$125K/year for a duration of three years. The cumulative inflation index over the past 30 years is approximately a factor of 3.4; consequently at today's salary rates and grant funding level, a full time early career scientist currently needs more than two full grants to support his/her funding. This situation has led to the community and HPD spending an increasing amount of effort on writing and reviewing proposals for a decreasing amount of effective support. Larger awards and/or reduced page limits will ease the burden on the proposers and also allow each panelist to review more proposals. This could also result in smaller review panels and provide additional cost savings.

Consequences of Failing to Follow the Proposed Recommendation: The proposal writing/reviewing process will continue to increase the burden on the community and the Discipline scientists.

HPD implemented suggested changes

1. Increase the size of grants for HSR (Supporting Research)

ROSES year	From ROSES HSR Section 5. Summary of Key Information			Submitted Proposals
	Expected program budget for first year of new awards	Number of new awards pending adequate proposals of merit	<i>Pre-calculated average award size</i>	\$M proposed / # proposals
2013	\$ 3-4 M	~32	~ \$ 93-125 K	\$34M/261 = \$130K
2014	\$ 3-4 M	22-30	\$ 133-136 K	\$30M/221 = \$136K
2015	\$ 4 M	~27	~ \$ 148 K	\$36M/251 = \$143K
2016	\$ 4 M	~20	~ \$ 200 K	

Award size has been slowly increasing. Large increase expected in 2016.

Listing of all ROSES 2016 Elements

From Section 5. Summary of Key Information

ROSES Element	Description	Expected 1st year budget	Number of new awards pending...	<i>Pre-calculated average award size</i>
B.2	H-SR	\$4M	20	\$200K
B.3	H-TIDS	\$4.5-5M	12	
B.4	H-GI (Open)	\$2.5M	18	\$140K
B.5	H-GCR (TMS)	\$4M	~8-10	\$400-500K
B.6	H-LWS: TBD	TBD	TBD	
B.7	H-DEE	\$1M	~10-12	\$83-100K
B.8	H-GI (MMS)	TBD	TBD	
B.9	H-GCR (SC)	TBD	TBD	
B.10	USPI	TBD	TBD	

HPD implemented suggested changes

2. Reduce the number of pages from 15 to 10

for R&A Scientific/Technical/Management Section

As a test case: generally less complicated than SR/LWS/GCR/TIDS

Guest Investigator Proposals now restricted to 10 pages

Other ROSES Elements:

Supporting Research (SR) Proposals - 15 pages

LWS Proposals – 15 pages

Grand Challenge Research – 15 pages

TIDS LCAS Proposals – 20 pages (plus 3 extra pages for CubeSats)

TIDS Instrument/Lab Proposals – 15 pages

Data Environment Proposals – 5 pages

HPD further considered the Panel Review Process

- Statistics
- Benefits/Costs
- Load on Science Community
- Load on HQ personnel
- Comments from Science Community
- Increase in HSR award size – will it reduce number of submitted proposals? By how much?

Heliophysics Supporting Research Proposal Submissions 2013-2015

	NOMINAL			ENCOURAGE / DISCOURAGE					
ROSES element	2013			2014			2015		
	Step-1	Step-2	decrease	Step-1	Step-2	decrease	Step-1	Step-2	decrease
ITM	41	38	7.3%	40	24	40.0%	47	30	36.2%
Mag	95	83	12.6%	105	61	41.9%	115	79	31.3%
Hsphere	80	67	16.3%	80	60	25.0%	84	64	23.8%
Solar	90	73	18.9%	100	76	24.0%	99	78	21.2%
Total	306	261	14.7%	325	221	32.0%	345	251	27.2%

- The number of Step-1 proposals increased each year
- Overall decrease in number of Step-2 proposals ~33% with Step-1 review
- Solar decrease w/ and w/o encourage/discourage about the same

Heliophysics Supporting Research Encourage/Discourage 2014-2015

	STEP-1 Review													
ROSES element	2014							2015						
	Step-1	Declined	Discouraged	Encouraged	decrease	Step-2	decrease	Step-1	Declined	Discouraged	Encouraged	decrease	Step-2	decrease
ITM	40	0	19	21	48%	24	40%	47	0	18	29	38%	30	36%
Mag	105	2	62	41	61%	61	42%	115	0	47	68	41%	79	31%
Hsphere	80	0	35	45	44%	60	25%	84	0	30	54	36%	64	24%
Solar	100	1	37	62	38%	76	24%	99	1	28	70	29%	78	21%
Total	325	3	153	169	48%	221	32%	345	1	123	221	36%	251	27%

- 27% decrease not enough to justify extra review
- Review not visible to science community, complaints
- **HPD cancelled Step-1 Review for 2016 -- No Discouraged for ROSES 2016**

Summary of ROSES 2016 Changes

- Increase the award size for HSR (Supporting Research)
- **Guest Investigator Proposals now restricted to 10 pages**
- HPD cancelled Step-1 Review for 2016 -- No Discouraged for ROSES 2016

Will increase in HSR award size reduce the number of submitted proposals?