

# SBAG Community Poll - Primitive Bodies Decadal Priorities

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**\* 1. Full Name**

**\* 2. Affiliation/Institution**

**\* 3. Email Address**

**4. What are the highest priority science issues addressed by the study of primitive bodies?  
(1 = highest priority, 8 = lowest priority)**

	1	2	3	4	5	6	7	8
Understanding the characteristics and evolution of individual objects								
Population identification and physical/compositional characterization								
Population sources and sinks (dynamical and collisional evolution)								
Thermal and interior evolution of individual population members								
Relating the history and processes of our solar system with other solar systems								
Other								
The delivery of water and volatiles to the habitable zone/Earth								
Determining early conditions in the solar system (e.g., compositional								

gradient, early formation history)

If Other, input science issue

**5. Question 4 Comment (optional)**

**6. What are the highest priority Flagship missions to primitive bodies? (1 = highest priority, 2 = lowest priority)**

	1	2
Other		
Cryogenic Comet		
Nucleus Sample		
Return		

If Other, input priority flagship mission

**7. Question 6 Comment (optional)**

**8. What are the highest priority New Frontier missions to primitive bodies? (1 = highest priority, 10 = lowest priority)**

	1	2	3	4	5	6	7	8	9	10
Main-belt asteroid sample return										
Phobos/Deimos sample return										
Other										
Sample return from a volatile-rich NEO not represented in our meteorite collection										
Comet surface										

sample return  
 Multiple target  
 flyby of satellite  
 (e.g., Triton) and  
 small TNO  
 Mega-multiple  
 flybys of main belt  
 asteroids  
 Jupiter Trojan  
 rendezvous  
 Flyby of unexplored  
 ice dwarf (e.g.,  
 Haumea)  
 Multiple main belt  
 asteroid  
 rendezvous

If Other, input priority New Frontiers class mission

**9. Question 8 Comment (optional)**

**10. What are the most importance science goals that can be addressed by Discovery-class missions?**

**11. What are the highest priority areas of technology development that need to be supported? (1 = highest priority, 9 = lowest priority)**

	1	2	3	4	5	6	7	8	9
Surface mobility and sample collection technology									
Nuclear power systems (particularly for outer solar system operation)									
Dust mass spectrometer/collector/trajec-tory sensor									



facilities

If Other, input priority research facilities to be developed or supported

**14. Question 13 Comment (optional)**

**15. Balancing priorities - In the event of negative budget pressure on the planetary budget, what is the priority for preserving program funding? (1 = highest priority, 6 = lowest priority)**

	1	2	3	4	5	6
New Frontier class missions						
Discovery class missions						
Technology development programs						
Flagship class missions						
Research and Data Analysis programs						
Other						

If Other, input priority area to be preserved

**16. Question 15 Comment (optional)**

Done