Fiscal Year:	FY 2011	Task Last Updated:	FY 11/15/2011
PI Name:	Roma, Peter Ph.D.		
Project Title:	Psychosocial Performance Factors in Space D	Owelling Groups	
Division Name:	Human Research		
Program/Discipline:	NSBRI		
Program/Discipline Element/Subdiscipline:	NSBRINeurobehavioral and Psychosocial F	actors Team	
Joint Agency Name:		TechPort:	No
Human Research Program Elements:	(1) BHP :Behavioral Health & Performance (a	archival in 2017)	
Human Research Program Risks:	(1) Team :Risk of Performance and Behavioral Health Decrements Due to Inadequate Cooperation, Coordination, Communication, and Psychosocial Adaptation within a Team		
Space Biology Element:	None		
Space Biology Cross-Element Discipline:	None		
Space Biology Special Category:	None		
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PI Organization Type:	NASA CENTER	Phone:	
Organization Name:	KBR/NASA Johnson Space Center		
PI Address 1:	Behavioral Health & Performance Laboratory		
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PI Web Page:			
City:	Houston	State:	TX
Zip Code:	77058	Congressional District:	36
Comments:			
Project Type:	Ground	Solicitation / Funding Source:	2007 Crew Health NNJ07ZSA002N
Start Date:	08/01/2011	End Date:	09/30/2012
No. of Post Docs:	3	No. of PhD Degrees:	
No. of PhD Candidates:		No. of Master' Degrees:	
No. of Master's Candidates:		No. of Bachelor's Degrees:	
No. of Bachelor's Candidates:		Monitoring Center:	NSBRI
Contact Monitor:		Contact Phone:	
Contact Email:			
Flight Program:			
Flight Assignment:			
Key Personnel Changes/Previous PI:	Dr. Peter Roma has taken over as PI as of Aug July 2011.	gust 1, 2011, following the passing	of the previous PI, Dr. Joseph Brady, in
COI Name (Institution):	Hursh, Steven (Institutes for Behavior Reso	purces, Inc.)	
Grant/Contract No.:	NCC 9-58-NBPF01602		
Performance Goal No.:			
Performance Goal Text:			
	The aims of this project focuses upon the development effectiveness and psychosocial adaptation in sphysical, hardware, and software environment Exploration Simulation (PES), and provides a monitoring electronically the interactive effect systems, and other stressful conditions. Within and countermeasure evaluation of the following affect crew performance effectiveness and psy- channels within and between simulated space	elopment of an experimental test be support of exploratory spaceflight m t which serves as the experimental p in automated means for analyzing sp ets of simulated communication moo n this context, the objectives of this ng fundamental behavioral interaction yehosocial adaptation: 1) the structur- dwelling and Earth-based groups; 2	d for modeling performance issions beyond Earth's atmosphere. The platform is referred to as the Planetary pace crew performance as well as lality constraints, mission management project are to provide risk assessment on operations that will most likely re and function of communication 2) factors associated with variations in

Task Description:	the behavioral management systems between space-dwelling and Earth-based groups; 3) factors associated with variations in workloads, stressful time pressure, and conflict conditions; and 4) behavioral and psychosocial interaction systems between spaceflight rerws and Earth-centered mission support operations that are most likely to influence individual and group performance during long-duration missions. The results show that cooperative and productive interactions are maintained between individually isolated and dispersed erew members in a task-driven environment, and that experimental flight crews actively engage in communications and experidented time intervals without benefit of one another's physical presence. In addition, investigations of communication models that acted as a countermeasure to maintain effective erew serificantly reduced during missions in which erew assignment changes resulted in inexperienced erew configurations have shown that performance effectiveness levels are significantly reduced during missions a shown increased performance effectiveness under both positive and negative incentive conditions associated with simulated spaceflight missions can significantly affect psychosocial adaptation. Thus incentive conditions associated with simulated and experienced crews.
Rationale for HRP Directed Research:	
Research Impact/Earth Benefits:	
Task Progress:	Dr. Peter Roma has taken over as PI as of August 1, 2011, following the passing of the previous PI, Dr. Joseph Brady, in July 2011. See Brady (PI) with project entitled, "Psychosocial Performance Factors in Space Dwelling Groups" for previous reports on this project.
Bibliography Type:	Description: (Last Updated: 01/20/2025)