Fiscal Year:	FY 2010 Task Last Undate	od EV 05/11/2011
PI Name:		
	Kanas, Nick M.D.	
Project Title:	Crew Interactions and Autonomy During Long-Duration Isolation and Confinement (105-Day Russian Chamber Study)	
Division Name:	Human Research	
Program/Discipline:	NSBRI	
Program/Discipline Element/Subdiscipline:	NSBRINeurobehavioral and Psychosocial Factors Team	
Joint Agency Name:	TechPort:	No
Human Research Program Elements:	(1) BHP:Behavioral Health & Performance (archival in 2017)	
Human Research Program Risks:	(1) Team : Risk of Performance and Behavioral Health Decrements Due to Inadeque Communication, and Psychosocial Adaptation within a Team	ate Cooperation, Coordination,
Space Biology Element:	None	
Space Biology Cross-Element Discipline:	None	
Space Biology Special Category:	None	
PI Email:	nick.kanas@ucsf.edu Fa	ax: FY 415-668-7503
PI Organization Type:	UNIVERSITY Phot	ne: 415-750-2072
Organization Name:	University of California-San Francisco/Northern California Institute for Research & Education	
PI Address 1:	Veterans Affairs Medical Center (116A)	
PI Address 2:	4150 Clement St.	
PI Web Page:		
City:	San Francisco Sta	te: CA
Zip Code:	94121 Congressional Distri	ct: 8
Comments:		
Project Type:	Ground Solicitation / Funding Sour	ce: Directed Research
Start Date:	03/01/2009 End Da	te: 09/30/2010
No. of Post Docs:	0 No. of PhD Degree	es: 0
No. of PhD Candidates:	0 No. of Master' Degree	es: 0
No. of Master's Candidates:	0 No. of Bachelor's Degree	es: 0
No. of Bachelor's Candidates:	0 Monitoring Cent	er: NSBRI
Contact Monitor:	Contact Pho	ne:
Contact Email:		
Flight Program:		
Flight Assignment:		
Key Personnel Changes/Previous PI:		
COI Name (Institution):	Neylan, Thomas (University of California, San Francisco) Boyd, Jennifer (University of California, San Francisco) Weiss, Daniel (University of California, San Francisco) Marmar, Charles (New York University Medical Center)	
Grant/Contract No.:	NCC 9-58-NBPF00005	
Performance Goal No.:		
Performance Goal Text:		

Task Progress:	Crewmembers participating in long-duration space missions beyond the Earth-Moon environment will have more autonomy than in previous on-orbit missions or missions to the Moon. We participated in a 105 day pilot simulation from March 31 to July 14, 2009 as part of the Mars 500 Program at the Institute for Biomedical Problems (IBMP) in Moscow. Results from this study indicated that increased crew autonomy can be safe and advantageous. It is time to study the effects of high autonomy with larger subject samples during on-orbit space missions (e.g., to the International Space Station) in order to prepare for future deep space exploratory missions, where high autonomy will be the norm.	
Bibliography Type:	Description: (Last Updated: 03/17/2017)	
Articles in Peer-reviewed Journals	Kanas N, Saylor S, Harris M, Neylan T, Boyd J, Weiss DS, Baskin P, Cook C, Marmar C. "High versus low crewmember autonomy in space simulation environments." Acta Astronaut. 2010 Oct-Nov;67(7-8):731-8. http://dx.doi.org/10.1016/j.actaastro.2010.05.009, Oct-2010	
Articles in Peer-reviewed Journals	Kanas N. "From Earth's orbit to the outer planets and beyond: Psychological issues in space." Acta Astronaut. 2011 Mar-Apr;68(5-6):576-81. <u>http://dx.doi.org/10.1016/j.actaastro.2010.04.012</u> , Mar-2011	
Articles in Peer-reviewed Journals	Kanas N. "Expedition to Mars: Psychological, interpersonal, and psychiatric issues." Journal of Cosmology. 2010 Oct-Dec;12:3741-7. <u>http://journalofcosmology.com/Mars114.html</u> , Oct-2010	
Papers from Meeting Proceedings	Kanas N, Harris M, Neylan T, Boyd J, Weiss D, Cook C, Saylor S. "High versus low crewmember autonomy during a 105-day Mars simulation mission." 61st International Astronautical Congress, Prague, Czech Republic, September 27-October 1, 2010. 61st International Astronautical Congress, Proceedings, p. 1-4, 2010. , Sep-2010	
Papers from Meeting Proceedings	Kanas N, Saylor S, Harris M, Neylan T, Boyd J, Weiss D, Baskin P, Cook C, Marmar C. "High versus low crewmember autonomy in space simulation environments." 60th International Astronautical Congress, Daejeon, Republic of Korea, October 12-16, 2009. 60th International Astronautical Congress, Proceedings, p. 1-8, 2009. Paper IAC-09.A1.1.7., Oct-2009	
Significant Media Coverage	Kanas N. "Notes for the Underground.' Summary of NASA psychosocial research as it applies to the trapped Chilean miners published in The New York Times." The New York Times, August 30, 2010, p. A17. <u>http://www.nytimes.com/2010/08/30/opinion/30kanas.html?_r=1</u> , August 29, 2010., Aug-2010	