Task Book Report Generated on: 04/19/2024

Fiscal Verir Fivales Pissane P	Fiscal Year:	FY 2014	Took Lost Undeted	EV 07/01/2014
Project Title: Assessing the Impact of Communication Delay on Behavioral Bealth and Performance: An Examination of Autonomous Operations Villoring the International Space Sistion Program/Discipline: Human Research Program/Discipline: HUMAN RESEARCH Flenward/Subdiscipline All MANN RESEARCH—Relavioral and performance Lemental/Subdiscipline All Manna Research Program Elements: (1) BIM-Behavioral Health & Performance (archival in 2017) All Manna Research Program Risks: (1) BIM-Behavioral Health & Performance (archival in 2017) All Manna Research Program Risks: (1) BIM-Behavioral Health & Performance (archival in 2017) All Manna Research Program Risks: (1) BIM-Behavioral Health & Performance on Delavoral Gendulum Systems Integration Architecture (3) Trans Marker Decomposition on Delavoral Health Decements Due to Inadequate Cooperation, Coordination, Coordination, and Psychosocial Adaptation within Decements Due to Inadequate Cooperation, Coordination, Coordination, and Psychosocial Adaptation within Decements Due to Inadequate Cooperation, Coordination, and Psychosocial Adaptation within Decements Due to Inadequate Cooperation, Coordination, Coordination, and Psychosocial Adaptation within Decements Due to Inadequate Cooperation, Coordination, Coordinati			rask Last Opuateu.	11 0//01/2014
Division Name: Human Research Program Belancins (1) BHP-Behavioral Health & Performance Elements's budiscipline: Human Research Program Elements: (1) BHP-Behavioral Health & Performance (archival in 2017) Human Research Program Elements: (1) BHP-Behavioral Health & Performance (archival in 2017) Human Research Program Risks: (1) BHP-Behavioral Health & Performance (archival in 2017) Human Research Program Risks: (1) BHP-Behavioral Health & Performance (archival in 2017) Human Research Program Risks: (2) EMSA/Risk of Adverse Outcomes Date to Inadequale Human Systems Integration Architecture (2) Team, Risks of Performance and Behavioral Health Decrements Due to Inadequale Cooperation, Coordination, Communication, and Psychosocial Adaptation within a Team Systems Integration Architecture (2) Team, Risks of Performance and Behavioral Health Decrements Due to Inadequate Cooperation, Coordination, Communication, and Psychosocial Adaptation within a Team Space Biology Special Category: None Ple Email: Division Program Pleace				
Program/Discipline: IIUMAN RESEARCH—Rehavior and performance	Project Title:			
Program/Discipline- Element/Subdiscipline- Element	Division Name:	Human Research		
Elements: HUMAN RESEARCH—Benavior and performance Joint Agency Name: TechPort: No Human Research Program Elements: (1) BHP:Behavioral Health & Performance (archival in 2017) (1) BMcaf.Risk of Advense Cognitive or Behavioral Conditions and Psychiatric Disorders (2) ISIA: Risk of Advense Cognitive or Behavioral Conditions and Psychiatric Disorders (2) ISIA: Risk of Advense Cognitive or Behavioral Conditions and Psychiatric Disorders (2) ISIA: Risk of Advense Cognitive or Behavioral Conditions and Psychiatric Disorders (2) ISIA: Risk of Advense Cognitive or Behavioral Conditions and Psychiatric Disorders (2) ISIA: Risk of Advense Cognitive or Behavioral Conditions and Psychiatric Disorders (2) ISIA: Risk of Advense Cognitive or Behavioral Conditions and Psychiatric Disorders (2) ISIA: Risk of Advense Outcomes Due to Inadequate Human Systems Integration Architecture (2) ISIA: Risk of Advense Outcomes Due to Inadequate Human Systems Integration Architecture (2) Team Risk of Advense Outcomes Due to Inadequate Human Systems Integration Architecture (2) ISIA: Risk of Advense Cognitive or Behavioral Conditions and Psychiatric Disorders None PLEMING Properties Plemail: Paint Properties Phone: See 922-7265 Organization Name: Plant Phone: See 922-7265 Organization Type: Organiza	Program/Discipline:	HUMAN RESEARCH		
Human Research Program Elements: (1) BHP-Behavioral Health & Performance (archival in 2017) (1) Mod Risk of Adverse Cognitive or Behavioral Conditions and Psychiatric Disorders (2) HISTA Risk of Adverse Cognitive or Behavioral Conditions and Psychiatric Disorders (2) HISTA Risk of Adverse Cognitive or Behavioral Conditions and Psychiatric Disorders (2) HISTA Risk of Adverse Cognitive or Behavioral Health Decrements Due to Inadequate Cooperation, Coordination, Communication, and Psychosocial Adaptation within a Team None Space Biology Cross-Element None PI Email: place Biology Special Category: None PI Crognization Type: UNIVERSITY Phone: 858 922-7265 Organization Name: University of Southern California PI Address 1: School of Social Work PI Address 2: MRF 339 PI Web Page: City: Los Angeles State: CA Zip Code: 90089-0411 Congressional District: 33 Comments: Project Type: FLIGHT Solicitation / Funding Source: Directed Research Start Date: 90085/2012 End Date: 66/30/2016 No. of Pab Degrees: 0 No. of Master's Candidates: 0 No. of Master' Scandidates: 0 No. of Master' Contact Phone: Contact Monitor: Leveton, Lauren Solicitation / Contact Phone: Loveton, Lauren Contact Monitor: Leveton, Lauren Solicitation of Contact Phone: Solicitation of Contact Phone: NoTie: Period of performance corrected to 9/5/2012-9/4/2015 per NSSC information (Ed., 4/4/2013) Key Personnel Changes/Previous PI: COI Name (Institution): Colonicate No.: NNX12AR21A		HUMAN RESEARCHBehavior and performance		
Human Research Program Risks: Cli BMed:Risk of Adverse Cognitive or Behavioral Conditions and Psychiatric Disorders (2) EBIA Risk of Adverse Outcomes Due to Inadequate Human Systems Integration Architecture (3) Team Risk of Performance and Behavioral Health Decrements Due to Inadequate Cooperation, Coordination, Communication, and Psychosocial Adaptation within a Team None Space Biology Cross-Element None None Pleading Cross-Element None None Pleading Special Category: None Pleamile: palinkas@use.edu pleamile pleamile pleamile planting Systems State: Droganization Type: UNIVERSITY Phone: 858 922-7265 Organization Name: University of Southern California Pleadings 2: MRP 339 Pleadings 2: MRP 339 Pleadings 2: Los Angeles State: CA Zip Code: O9089-0411 Congressional District: 33 Comments: Project Type: FLIGIT Solicitation / Funding Source: Directed Research No. of Post Does: 0 No. of Post Does: 0 No. of PhD Degrees: 0 No. of PhD Candidates: 0 No. of PhD Candidates: 0 No. of Master' Candidates: 0 No. of Master' Degrees: 0 No. of Master' Candidates: 0 No. of Bachelor's Candidates: 1 SS NOTE: End date is now 6/30/2016 per NSSC information (Ed., 6/8/15) NOTE: Period of performance corrected to 9/5/2012-9/4/2015 per NSSC information (Ed., 4/4/2013) Key Personnel Changes/Previous PI: COI Name (Institution): Contract Monitor: Contract Phone: Contract Changes/Previous PI: COI Name (Institution): Contract No.: NNX12AR21A	Joint Agency Name:	Te	echPort:	No
Human Research Program Risks: (2) HSIA Risk of Adverse Outcomes Due to Inadequate Human Systems Integration Architecture (3) Team Risks for Performance and Behavior III Leath Decrements Due to Inadequate Cooperation, Coordination, Communication, and Psychosocial Adaptation within a Team Space Biology Cross-Element None Space Biology Cross-Element None None PI Carter Space Risk of Adverse Space Risk of Performance and Behavior III Leath Decrements Due to Inadequate Cooperation, Coordination, Coord	Human Research Program Elements:	(1) BHP :Behavioral Health & Performance (archival in 2017)		
Space Biology Cross-Element Discipline: Space Biology Special Category: None PI Email: palinkas@use.edu PI Crganization Type: UNIVERSITY Phone: 858 922-7265 Organization Name: University of Southern California PI Address 1: School of Social Work PI Address 2: MRF 339 PI Web Page: City: Los Angeles State: CA Zip Code: 90089-0411 Congressional District: 33 Comments: Project Type: FLIGHT Solicitation / Funding Source: Directed Research Start Date: 0905/2012 End Date: 06/30/2016 No. of PhD Degrees: 0 No. of PhD Candidates: 0 No. of PhD Candidates: 0 No. of Master' Degrees: 0 No. of Master's Candidates: 0 No. of Bachelor's Candidates: 0 No. of Bachelor's Candidates: 1SS NOTE: End date is now 6/30/2016 per NSSC information (Ed., 6/8/15) NOTE: Period of performance corrected to 9/5/2012-9/4/2015 per NSSC information (Ed., 4/4/2013) Key Personnel Changes/Previous PI: COI Name (Institution): Chou, Chih-ping (University of Southern California) Vessey, William Ph.D. (NASA) Leveton, Lauren (NASA) Leveton Lauren (NASA)	Human Research Program Risks:	(2) HSIA :Risk of Adverse Outcomes Due to Inadequate Human Systems Integration Architecture (3) Team :Risk of Performance and Behavioral Health Decrements Due to Inadequate Cooperation, Coordination,		
Discipline: " None Space Biology Special Category: None Space Biology Special Category: None Pl Email: pulinkas@usc.edu Fax: FY	Space Biology Element:	None		
PI Email: polinkas/Gruscedu Fax: FY Pl Organization Type: UNIVERSITY Phone: 858 922-7265 Organization Name: University of Southern California PI Address 1: School of Social Work PI Address 2: MRF 339 PI Web Page: City: Los Angeles State: CA Zip Code: 90089-0411 Congressional District: 33 Comments: Project Type: FLIGHT Solicitation / Funding Source: Directed Research Start Date: 09/05/2012 End Date: 06/30/2016 No. of Post Docs: 0 No. of PhD Candidates: 0 No. of PhD Candidates: 0 No. of Master' Degrees: 0 No. of Master' Degrees: 0 No. of Master' Degrees: 0 No. of Bachelor's Candidates: 0 No. of Bachelor's Candidates: 0 No. of Bachelor's Candidates: 1 Suren b leveton/poss5.sov Flight Program: ISS NOTE: End date is now 6/30/2016 per NSSC information (Ed., 6/8/15) NOTE: Period of performance corrected to 9/5/2012-9/4/2015 per NSSC information (Ed., 4/4/2013) Key Personnel Changes/Previous PI: COI Name (Institution): Chout. Chin-ping (University of Southern California) Vessey, William Ph.D. (NASA) Jonson Space Center) Grant/Contract No.: NNX12AR21A		None		
Pl Organization Type:	Space Biology Special Category:	None		
Organization Name: University of Southern California PI Address 1: School of Social Work PI Address 2: MRF 339 PI Web Page: City: Los Angeles State: CA Zip Code: 90089-0411 Congressional District: 33 Comments: Project Type: FLIGHT Solicitation / Funding Source: Directed Research Start Date: 09/05/2012 End Date: 06/30/2016 No. of PhD Candidates: 0 90/05/2012 End Date: 06/30/2016 No. of PhD Candidates: 0 No. of Master' Degrees: 0 No. of PhD Candidates: 0 No. of Master' Degrees: 0 No. of Master's Candidates: 0 No. of Bachelor's Degrees: 0 No. of Bachelor's Candidates: 0 No. of Bachelor's Degrees: 0 No. of Bachelor's Candidates: 0 Monitoring Center: NASA JSC Contact Monitor: Leveton, Lauren Contact Phone: Contact Email: lauren.b.leveton@nasaS.gov Flight Program: ISS NOTE: End date is now 6/30/2016 per NSC information (Ed., 6/8/15) NOTE: Deriod of performance corrected to 9/5/2012-9/4/2015 per NSSC information (Ed., 4/4/2013) Key Personnel Changes/Previous PI: COI Name (Institution): Chou, Chih-ping (University of Southern California) Vessey, William Ph.D. (NASA) Leveton, Lauren (NASA Johnson Space Center) Grant/Contract No.: NNX12AR21A	PI Email:	palinkas@usc.edu	Fax:	FY
PI Address 1: School of Social Work PI Address 2: MRF 339 PI Web Page: City: Los Angeles State: CA Zip Code: 90089-0411 Congressional District: 33 Comments: Project Type: FLIGHT Solicitation / Funding Source: Directed Research Start Date: 09/05/2012 End Date: 06/30/2016 No. of Post Docs: 0 No. of PhD Degrees: 0 No. of PhD Candidates: 0 No. of Master' Degrees: 0 No. of Master's Candidates: 0 No. of Master' Degrees: 0 No. of Bachelor's Candidates: 0 No. of Bachelor's Degrees: 0 No. of Bachelor's Candidates: 0 Monitoring Center: NASA JSC Contact Monitor: Leveton, Lauren Contact Phone: Contact Email: lauren. bleveton@nass5.gov Flight Program: ISS NOTE: End date is now 6/30/2016 per NSSC information (Ed., 6/8/15) NOTE: Period of performance corrected to 9/5/2012-9/4/2015 per NSSC information (Ed., 4/4/2013) Key Personnel Changes/Previous PI: COI Name (Institution): Chou, Chih-ping (University of Southern California) Vessey, William Ph.D. (NASA) Leveton, Lauren (NASA Johnson Space Center) Grant/Contract No.: NNX12AR21A	PI Organization Type:	UNIVERSITY	Phone:	858 922-7265
PI Address 2: MRF 339 PI Web Page: City: Los Angeles State: CA Zip Code: 90089-0411 Congressional District: 33 Comments: Project Type: FLIGHT Solicitation / Funding Source: Directed Research Start Date: 09/05/2012 End Date: 06/30/2016 No. of Post Docs: 0 No. of PhD Degrees: 0 No. of PhD Candidates: 0 No. of Master' Degrees: 0 No. of Master's Candidates: 0 No. of Master' Degrees: 0 No. of Sachelor's Candidates: 0 No. of Bachelor's Degrees: 0 No. of Sachelor's Candidates: 0 Monitoring Center: NASA JSC Contact Monitor: Leveton, Lauren Contact Phone: Contact Email: lauren b leveton@masa5.gov Flight Program: ISS NOTE: End date is now 6/30/2016 per NSSC information (Ed., 6/8/15) NOTE: Period of performance corrected to 9/5/2012-9/4/2015 per NSSC information (Ed., 4/4/2013) Key Personnel Changes/Previous PI: COI Name (Institution): Chou, Chih-ping (University of Southern California) Vessey, William Ph.D. (NASA) Leveton, Lauren (NASA Johnson Space Center) Grant/Contract No.: NNX12AR21A	Organization Name:	University of Southern California		
PI Web Page: City: Los Angeles State: CA Zip Code: 90089-0411 Congressional District: 33 Comments: Project Type: FLIGHT Solicitation / Funding Source: Directed Research Start Date: 09/05/2012 End Date: 06/30/2016 No. of Post Docs: 0 No. of PhD Degrees: 0 No. of PhD Candidates: 0 No. of Master' Degrees: 0 No. of Master's Candidates: 0 No. of Bachelor's Degrees: 0 No. of Master's Candidates: 0 No. of Bachelor's Pegrees: 0 No. of Bachelor's Candidates: 0 Monitoring Center: NASA JSC Contact Monitor: Leveton, Lauren Contact Phone: Contact Email: lauren, bleveton@nasa5.gov Flight Program: ISS ISS NOTE: End date is now 6/30/2016 per NSSC information (Ed., 6/8/15) NOTE: Period of performance corrected to 9/5/2012-9/4/2015 per NSSC information (Ed., 4/4/2013) Key Personnel Changes/Previous PI: COI Name (Institution): Chou, Chih-ping (University of Southern California) Vessey, William Ph.D. (NASA) Leveton, Lauren (NASA Johnson Space Center) Grant/Contract No.: NNX12AR21A	PI Address 1:	School of Social Work		
City: Los Angeles State: CA Zip Code: 90089-0411 Congressional District: 33 Comments: Project Type: FLIGHT Solicitation / Funding Source: Directed Research Start Date: 09/05/2012 End Date: 06/30/2016 No. of Post Docs: 0 No. of PhD Degrees: 0 No. of PhD Candidates: 0 No. of Master' Degrees: 0 No. of Bachelor's Candidates: 0 No. of Bachelor's Degrees: 0 No. of Bachelor's Candidates: 0 Monitoring Center: NASA JSC Contact Monitor: Leveton, Lauren Contact Phone: Contact Phone: Contact Email: Jauren b. Jeveton@nasa5.gov Jauren b. Jeveton@nasa5.gov Jauren b. Jeveton@nasa5.gov Flight Assignment: ISS NOTE: End date is now 6/30/2016 per NSSC information (Ed., 6/8/15) NOTE: Period of performance corrected to 9/5/2012-9/4/2015 per NSSC information (Ed., 4/4/2013) Key Personnel Changes/Previous PI: Chou, Chih-ping (University of Southern California) Vessey, William Ph.D. (NASA) Leveton, Lauren (NASA Johnson Space Center) Contact Monitorial (NASA) <td>PI Address 2:</td> <td>MRF 339</td> <td></td> <td></td>	PI Address 2:	MRF 339		
Zip Code: 90089-0411 Congressional District: 33 Comments: Project Type: FLIGHT Solicitation / Funding Source: Directed Research Start Date: 09/05/2012 End Date: 06/30/2016 No. of Post Does: 0 No. of PhD Degrees: 0 No. of PhD Candidates: 0 No. of Master' Degrees: 0 No. of Master's Candidates: 0 No. of Bachelor's Degrees: 0 No. of Bachelor's Candidates: 0 Monitoring Center: NASA JSC Contact Monitor: Leveton, Lauren Contact Phone: Contact Email: lauren b.leveton@nasa5.gov Flight Program: ISS ISS NOTE: Period of performance corrected to 9/5/2012-9/4/2015 per NSSC information (Ed., 4/4/2013) Key Personnel Changes/Previous PI: COI Name (Institution): Chou, Chih-ping (University of Southern California) Vessey, William Ph.D. (NASA) Leveton, Lauren (NASA Johnson Space Center) NNX12AR21A Performance Goal No.:	PI Web Page:			
Comments: Project Type: FLIGHT Solicitation / Funding Source: Directed Research Start Date: 09/05/2012 End Date: 06/30/2016 No. of Post Docs: 0 No. of PhD Degrees: 0 No. of PhD Candidates: 0 No. of Master' Degrees: 0 No. of Master's Candidates: 0 No. of Bachelor's Degrees: 0 No. of Bachelor's Candidates: 0 Monitoring Center: NASA JSC Contact Monitor: Leveton, Lauren Contact Phone: Contact Email: lauren b.leveton@nasa5.gov Flight Program: ISS ISS NOTE: End date is now 6/30/2016 per NSSC information (Ed., 6/8/15) NOTE: Period of performance corrected to 9/5/2012-9/4/2015 per NSSC information (Ed., 4/4/2013) Key Personnel Changes/Previous PI: COI Name (Institution): Chou, Chih-ping (University of Southern California) Vessey, William Ph.D. (NASA) Leveton, Lauren (NASA Johnson Space Center) Grant/Contract No.: NNX12AR21A	City:	Los Angeles	State:	CA
Project Type: FLIGHT Solicitation / Funding Source: Directed Research Start Date: 09/05/2012 End Date: 06/30/2016 No. of Post Docs: 0 No. of PhD Degrees: 0 No. of PhD Candidates: 0 No. of Master' Degrees: 0 No. of Master's Candidates: 0 No. of Master's Degrees: 0 No. of Master's Candidates: 0 Monitoring Center: NASA JSC Contact Monitor: Leveton, Lauren Contact Phone: Contact Email: lauren.b.leveton@nasa5.gov Flight Program: ISS NOTE: End date is now 6/30/2016 per NSSC information (Ed., 6/8/15) NOTE: Period of performance corrected to 9/5/2012-9/4/2015 per NSSC information (Ed., 4/4/2013) Key Personnel Changes/Previous PI: COI Name (Institution): Chou, Chih-ping (University of Southern California) Vessey, William Ph.D. (NASA) Leveton, Lauren (NASA Johnson Space Center) NNX12AR21A Performance Goal No.:	Zip Code:	90089-0411	Congressional District:	33
Start Date: 09/05/2012 End Date: 06/30/2016 No. of Post Docs: 0 No. of PhD Degrees: 0 No. of PhD Candidates: 0 No. of Master' Degrees: 0 No. of Master's Candidates: 0 No. of Bachelor's Degrees: 0 No. of Bachelor's Candidates: 0 Monitoring Center: NASA JSC Contact Monitor: Leveton, Lauren Contact Phone: Contact Email: lauren.b.leveton@nasa5.gov Flight Program: ISS ISS NOTE: End date is now 6/30/2016 per NSSC information (Ed., 6/8/15) NOTE: Period of performance corrected to 9/5/2012-9/4/2015 per NSSC information (Ed., 4/4/2013) Key Personnel Changes/Previous PI: COI Name (Institution): Chou, Chih-ping (University of Southern California) Vessey, William Ph.D. (NASA) Leveton, Lauren (NASA Johnson Space Center) NNX12AR21A Performance Goal No.:	Comments:			
No. of Post Docs: No. of PhD Degrees: 0 No. of PhD Candidates: No. of Master' Degrees: 0 No. of Master's Candidates: No. of Master's Candidates: No. of Bachelor's Degrees: 0 No. of Bachelor's Candidates: No. of Bachelor's Candidates: No. of Bachelor's Candidates: No. of Bachelor's Candidates: Contact Monitor: Leveton, Lauren Contact Phone: Contact Email: ISS ISS NOTE: End date is now 6/30/2016 per NSSC information (Ed., 6/8/15) NOTE: Period of performance corrected to 9/5/2012-9/4/2015 per NSSC information (Ed., 4/4/2013) Key Personnel Changes/Previous PI: COI Name (Institution): Chou, Chih-ping (University of Southern California) Vessey, William Ph.D. (NASA) Leveton, Lauren (NASA) Johnson Space Center) Grant/Contract No.: NNX12AR21A Performance Goal No.:	Project Type:	FLIGHT	Solicitation / Funding Source:	Directed Research
No. of PhD Candidates: 0	Start Date:	09/05/2012	End Date:	06/30/2016
No. of Master's Candidates: 0	No. of Post Docs:	0	No. of PhD Degrees:	0
No. of Bachelor's Candidates: Contact Monitor: Leveton, Lauren Contact Phone: Contact Email: Jauren.b.leveton@nasa5.gov Flight Program: ISS ISS NOTE: End date is now 6/30/2016 per NSSC information (Ed., 6/8/15) NOTE: Period of performance corrected to 9/5/2012-9/4/2015 per NSSC information (Ed., 4/4/2013) Key Personnel Changes/Previous PI: COI Name (Institution): Chou, Chih-ping (University of Southern California) Vessey, William Ph.D. (NASA) Leveton, Lauren (NASA Johnson Space Center) Grant/Contract No.: NNX12AR21A Performance Goal No.:	No. of PhD Candidates:	0	No. of Master' Degrees:	0
Contact Monitor: Leveton, Lauren Contact Phone: Contact Pho	No. of Master's Candidates:	0	No. of Bachelor's Degrees:	0
Contact Email: Jauren.b.leveton@nasa5.gov Flight Program: ISS ISS NOTE: End date is now 6/30/2016 per NSSC information (Ed., 6/8/15) NOTE: Period of performance corrected to 9/5/2012-9/4/2015 per NSSC information (Ed., 4/4/2013) Key Personnel Changes/Previous PI: COI Name (Institution): Chou, Chih-ping (University of Southern California) Vessey, William Ph.D. (NASA) Leveton, Lauren (NASA Johnson Space Center) Grant/Contract No.: NNX12AR21A Performance Goal No.:	No. of Bachelor's Candidates:	0	Monitoring Center:	NASA JSC
Flight Program: ISS NOTE: End date is now 6/30/2016 per NSSC information (Ed., 6/8/15) NOTE: Period of performance corrected to 9/5/2012-9/4/2015 per NSSC information (Ed., 4/4/2013) Key Personnel Changes/Previous PI: COI Name (Institution): Chou, Chih-ping (University of Southern California) Vessey, William Ph.D. (NASA) Leveton, Lauren (NASA Johnson Space Center) Grant/Contract No.: NNX12AR21A Performance Goal No.:	Contact Monitor:	Leveton, Lauren	Contact Phone:	
ISS NOTE: End date is now 6/30/2016 per NSSC information (Ed., 6/8/15) NOTE: Period of performance corrected to 9/5/2012-9/4/2015 per NSSC information (Ed., 4/4/2013) Key Personnel Changes/Previous PI: Col Name (Institution): Chou, Chih-ping (University of Southern California) Vessey, William Ph.D. (NASA) Leveton, Lauren (NASA Johnson Space Center) Grant/Contract No.: NNX12AR21A Performance Goal No.:	Contact Email:	lauren.b.leveton@nasa5.gov		
NOTE: End date is now 6/30/2016 per NSSC information (Ed., 6/8/15) NOTE: Period of performance corrected to 9/5/2012-9/4/2015 per NSSC information (Ed., 4/4/2013) Key Personnel Changes/Previous PI: Col Name (Institution): Chou, Chih-ping (University of Southern California) Vessey, William Ph.D. (NASA) Leveton, Lauren (NASA Johnson Space Center) Grant/Contract No.: NNX12AR21A Performance Goal No.:	Flight Program:	ISS		
Key Personnel Changes/Previous PI: Clou, Chih-ping (University of Southern California) Vessey, William Ph.D. (NASA) Leveton, Lauren (NASA Johnson Space Center) Grant/Contract No.: NNX12AR21A Performance Goal No.:				
Chou, Chih-ping (University of Southern California) Vessey, William Ph.D. (NASA) Leveton, Lauren (NASA Johnson Space Center) Grant/Contract No.: NNX12AR21A Performance Goal No.:	Flight Assignment:	NOTE: Period of performance corrected to 9/5/2012-9/4/2015 per NSSC information (Ed., 4/4/2013)		
COI Name (Institution): Vessey, William Ph.D. (NASA) Leveton, Lauren (NASA Johnson Space Center) Grant/Contract No.: NNX12AR21A Performance Goal No.:	Key Personnel Changes/Previous PI:			
Performance Goal No.:	COI Name (Institution):	Vessey, William Ph.D. (NASA)	ia)	
	Grant/Contract No.:	NNX12AR21A		
Performance Goal Text:	Performance Goal No.:			
	Performance Goal Text:			

Task Book Report Generated on: 04/19/2024

Task Description:

Space crews of exploration missions in the future will need to be more autonomous from mission control and act and operate independently, in part, due to the expectation that communication quality between the ground and exploration crews will be more limited by communication delays and other quality factors than on any mission to date. Communication delays and the impact these delays have on the quality of communications to the crew will create performance decrements if crews are not given adequate training and tools to support more autonomous operations. The proposed research study will examine the impact of implementing an experimental communication delay on the International Space Station (ISS) on individual and team factors and outcomes, including performance and related perceptions of autonomy. To date, very few studies have observed teams in remote environments that perform without communication with management teams (e.g., mission control), and no such studies have been conducted during long-duration expeditions or missions. This study meets the operationally constrained criterion of a Human Research Program (HRP) directed research project (DRP) and is a time-constrained requirement as we will be: 1) utilizing ISS Increment 39/40 to implement this study beginning in Spring of 2014, 2) incorporating the results of this study to identify future near-term research tasks that relate to autonomy and what countermeasures will be needed to adequately prepare for autonomous long duration missions, and 3) guiding future NRA calls based on the conclusions that are drawn from this study that will address and close research gaps (including Team Gaps 1, 6, and 7 as well as inform BMed Gaps 1 and 2). Specifically, this study will examine how interdependent teams (such as those with members in the field and at home base) interact and perform tasks with and without delays in communications between the team elements. The tasks to be performed by the teams vary along two dimensions: 1) those that are either critical or not critical ("criticality") and 2) those that are either novel or familiar ("novelty"). Tasks will include variations in both dimensions as it is assumed that highly novel and highly critical tasks are similar to those that a team may encounter during a long duration mission in which they have no prior training but must address. The proposed study will involve the 3 USOS astronaut participants aboard the ISS during Increment 39/40, as well as the

CAPCOMs and Flight Directors on duty during the 4 weeks of the increment during which data collection will take place. While this sample should be adequate to demonstrate feasibility of data collection and enable preliminary analyses of study hypotheses, 3-4 additional increments may be required to achieve sufficient power to test all study hypotheses. During the planned 180 days of Increment 39/40, participants will perform 16 tasks, 8 under conditions of no delay in communications, and 8 under conditions of a 10 minute one-way delay. Tasks will be designated by subject matter experts (SMEs) in collaboration with the Mission Operations directorate (MOD) for monitoring based on their level of novelty (high/low) and criticality (high/low).

Rationale for HRP Directed Research: time to issue a solicitation.

This research is directed because NASA must define complete scientific activities in a short time and there is insufficient time to issue a solicitation

Research Impact/Earth Benefits:

Between January 27 and March 14, pre-flight interviews were conducted with three participating astronauts. The interviews were conducted by telephone with Dr. Palinkas, with Drs. Vessey and/or Leveton present in Houston. Interviews lasted between 35 and 60 minutes. Participants were asked about prior experiences in working under conditions of prolonged isolation and confinement, working with a team, and communicating with others physically separated from you.

Task Progress:

In collaboration with MCC, study investigators identified 16 tasks to be performed, 8 during a 1-2 week period early in the mission and 8 to be performed during a 1-2 week period late in the mission. The tasks were selected on the basis of criticality and novelty (low criticality-low novelty, high criticality-low novelty, low criticality-high novelty, and high criticality-high novelty). Candidate tasks were identified by MCC and then reviewed by study investigators.

Data collection for the early phase of the increment was initiated during the week of June 16. Procedures to implement the 50-second one-way delay were pilot tested. Completion of tasks under conditions of delay and no delay to date have occurred without incident, and astronaut and MCC participants have been completing post-task questionnaires as requested.

Bibliography Type:

Description: (Last Updated: 11/13/2019)