Fiscal Voar	EV 2014 Task Last Undeted	EV 06/18/2014
PI Name	Painlu Sudhakar Dh D	11 00/10/2014
Project Title:	Najuru, Suunakai Fil.D.	NRD)
110jeet fille.	Quantification of m-ingit i hysical changes - Antihoponetry and reating body i ostare (	
Division Name:	Human Research	
Program/Discipline:	HUMAN RESEARCH	
Program/Discipline Element/Subdiscipline:	HUMAN RESEARCHSpace Human Factors Engineering	
Joint Agency Name:	TechPort:	No
Human Research Program Elements:	(1) HFBP:Human Factors & Behavioral Performance (IRP Rev H)	
Human Research Program Risks:	<ol> <li>(1) Dynamic Loads: Risk of In-Mission Injury and Performance Decrements and Long-term Health Effects due to Dynamic Loads</li> <li>(2) HSIA: Risk of Adverse Outcomes Due to Inadequate Human Systems Integration Architecture</li> </ol>	
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:	281-483-3725
Organization Name:	NASA Johnson Space Center	
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City:	Houston State:	TX
Zip Code:	77058 Congressional District:	22
Comments:		
Project Type:	Flight Solicitation / Funding Source:	Directed Research
Start Date:	08/31/2012 End Date:	09/01/2017
No. of Post Docs:	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:	NASA JSC
Contact Monitor:	Whitmore, Mihriban Contact Phone:	281-244-1004
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Flight Program:	ISS	
Flight Assignment:	ISS	
Key Personnel Changes/Previous PI:		
COI Name (Institution):	Young, Karen (Lockheed Martin) Reid, Christopher (Lockheed Martin) Dirlich, Tom (Technical University Munich (TUM))	
Grant/Contract No.:	Directed Research	
Performance Goal No.:		
Performance Goal Text:		

phot mict The a po Nov at ap Anti colli colli mea US	erogravity environment. the aim of the study is to collect data from a minimum of three subjects per year over a four year time frame leading to the possible 12 subjects total. Data would be collected over multiple six month increments starting with increment 39/40 in the overhead 2013. A minimum of three data collection sessions is required with an initial in-flight data collection session approximately FD15. Thropometric measurements will be collected from crew participants during one pre-flight BDC, three in-flight data llection points (early, mid, and late at minimum), and one post-flight BDC data collection sessions. In-flight data llection will include photo and video based measurements for body lengths and postures, as well as tape measure easurements for body segment circumferences. Ground based BDC data collection sessions will be performed in the S Lab mockup and in the Anthropometry and Biomechanics Facility at JSC.
This Rationale for HRP Directed Research: gath	is research is directed because it contains highly constrained research, which requires focused and constrained data thering and analysis that is more appropriately obtained through a non-competitive proposal.
Research Impact/Earth Benefits:	
Infli 40/4 Task Progress: two Dur and	flight data collection began October 2013 with Expedition 37/38 and has continued during Expeditions 38/39, 39/40, /41. The study will continue until an N=12 has completed the study; to date 8 subjects have consented to the study, o subjects have completed the study, and three subjects are currently performing inflight data collection sessions. Iring FY14 several training and pre-flight data collections have been performed to instruct the crew on the procedures d to obtain their baseline measurements before flight (both as Prime crew and Backup crew).
Bibliography Type: Des	escription: (Last Updated: 03/25/2020)