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DEPARTMENT OF COMMERCE RESEARCH PERFORMANCE PROGRESS REPORT (RPPR)

RPPR Guidance
Award Action Request Guidance

	Award Action Request Guidance
AWARD INFORMATION	
1. Federal Agency:	2. Federal Award Number:
Department of Commerce / NOAA	NA20OAR4320472
3. Project Title	
Cooperative Institute for Marine and Atmosph	eric Studies (CIMAS)- Innovative Science, Service and Stewardship
4. Award Period of Performance Start Date:	5. Award Period of Performance End Date:
October 01, 2020	September 30, 2025
PRINCIPAL INVESTIGATOR/PROJECT DIRECTOR	
6. Last Name and Suffix:	7. First and Middle Name:
Villar	Carol
8. Title:	
Sponsor Programs Specialist	
9. Email:	10. Phone Number
csv29@miami.edu	305-421-2487
AUTHORIZING OFFICIAL	
11. Last Name and Suffix:	12. First and Middle Name:
Diaz	Soraida
13. Title:	
14. Email:	15. Phone Number
AIDA.DIAZ@MIAMI.EDU	305-421-4089
REPORTING INFORMATION	·
Signature of Submitting Official:	
Patricia Ann May-Archuleta	
16. Submission Date and Time Stamp:	17. Reporting Period End Date:
2021-07-29 12:18:08.0	June 30, 2021
18. Reporting Frequency:	19. Report Type:
Annual	Not Final
Semi-Annual Quarterly	Final
RECIPIENT ORGANIZATION	-
20. Recipient Name:	
UNIVERSITY OF MIAMI	

4600 RICKENBACKER CSWY, KEY BISCAYNE, FL	L 33149-1031 USA	
2. Recipient DUNS:	23. Recipient EIN:	
152764007	590624458	
ACCOMPLISHMENTS <u>Guidance</u>		
4. What were the major goals and objectives of this project?*		
four themes - our accomplishments are organizeropical Weather Observations, Analysis and Pr	ed some of our field work, this is noted where appropriate. CIMAS is structu ized under these themes as follows: rediction (TW): CIMAS's goal is to collaborate with NOAA scientists to develo ogram that is used to improve operational forecasts. We seek to quantitative	op and
25. What was accomplished under these goals?*		
created. Implemented nest motion for all atmonest motion of physics and surface variables in	rvailable by HRD. Training in the use of ASPEN dropsonde processing softwar ospheric prognostic variables. Collaborating with developers at EMC to imple in the model. Composites of HAFS forecasts compared to observational comp in FV3/HAFS. Modifications to the EDMF-TKE PBL scheme led to improved for	ment osites to
26. What opportunities for training and professional development has th	ne project provided?*	
 collaborative research teams of faculty, N funding of graduate students with the su 	eline for NOAA. CIMAS provides for many training activities including: NOAA and CIMAS scientists and graduate students; pport of NOAA fellowships and graduate research Assistantships nt mentoring training and teaching of graduate level courses	
27. How were the results disseminated to communities of interest?*		
	S collaborators, resource managers, and the public through a variety of med rts (including NOAA Technical memoranda), conference presentations, traini nd outreach activities.	
Spell Check		
28. What do you plan to do during the next reporting period to accomplis	ish the goals and objectives?*	
through comparison with observations and LES	nest functionality for all necessary fields of n tracking. Continue development and evaluation of the EDMF-TKE PBL scher S data.Test HAFS-globalnest (HAFSV0.2B) in real-time. Develop an optimized n using the inter-basin SSTA contrast and CS convection. Analyze Doppler ra	d hybrid
PRODUCTS <u>Guidance</u>		
29. Publications, conference papers, and presentations*		
Nothing to Report \square		
See attached list		
Spell Check		
30. Technologies or techniques*		
Nothing to Report		
	d techniques have been developed. These include:	
Model data from the real-time HAFSV0.1B runs	s was displayed on the AOML model viewer.	
Spell Check		
31. Inventions, patent applications, and/or licenses*		
Nothing to Report ✓		
None		
Spell Check		

22. Other products*			
Nothing to Report □			
Real-time track files were also transferred to the National Hurricane Center via ftp.			
There are several institutions and individuals participating in FACETs project. The FACETs project encompasses different hazardous weather events in different parts of the country. For tropical cyclone NHC, AOML's HRD, and National Weather Service (NWS) have			
Spell Check			
PARTICIPANTS & OTHER COLLABORATING ORGANIZATIONS <u>Guidance</u>			
33. What individuals have worked on this project?*			
See attached list			
Spell Check			
14. Has there been a change in the active other support of the PD/PI(s) or senior/key personnel since the last reporting period?*			
Nothing to Depart			
Nothing to Report ☐ Personnel who joined CIMAS:			
reformer who joined CIPAS.			
Sandra Bringas			
Ashley Burleson			
Spell Check			
55. What other organizations have been involved as partners?*			
Nothing to Report □			
Argentine CONICET			
Argentine INIDEP			
Autoridad Nacional de Asuntos Marítimos (ANAMAR) Cape Eleuthera Institute in the Bahamas			
Spell Check			
6. Have other collaborators or contacts been involved?*			
Nothing to Report			
S. Aberson			
M. Alexander D. Alvarez			
V. Anantharaj			
Spell Check			
MPACT Guidance			
17. What was the impact on the development of the principal discipline(s) of the project?*			
Nothing to Report The Third to Continue to the latest and the la			
TW: The results from this project helped improve the operational hurricane model, which in turn would improve the hurricane track and intensity forecast. TC products have been developed to help us better understand the			
physical reasons for the TC evolution as shown by HAFS. Advance understanding of the U.S. rainfall variability and improves			
seasonal forecast skill. Potential improvements in tropical cyclone track and intensity forecasts due the assimilation of			
Spell Check			
18. What was the impact on other disciplines? [★]			
Nothing to Report □			
Improved hurricane forecasts help emergency managers and other public officials when tropical cyclones threaten.			
Improved numerate forecasts help enlergency managers and other public officials when dopical cyclones unleaten.			
Experimental designs are applicable to the assessments of many other stressors beyond bleaching, ocean acidification, and			
disease. Data regarding coral genotypic variation and performance may provide recommendations to resource managers and			
Spell Check			
9. What was the impact on the development of human resources?*			
Nothing to Report □			
CIMAS has continued to be an effective pipeline for the development of human resources. This continues to be accomplished by			
recruiting students and staff for completion of graduate degrees, and by immersing them into collaborative research teams.			
Graduating students and outgoing CIMAS staff take positions in academia, NGOs, private industry and all levels of government, including local, county, state and federal. Many find permanent employment in NOAA, in particular with the AOML and SEFSC			
Spell Check			
10. What was the impact on teaching and educational experiences?*			

Nothing to Report □
Undergraduate and graduate student education are an integral part of the work facilitated by CIMAS. NOAA scientists and CIMAS staff participate in the educational programs at the UM, as instructors, advisors, academic committee members, mentors and
scientific collaborators in student's research projects. CIMAS provides substantial funding including salary, research and tuition expenses for research assistants who are pursuing graduate degrees at UM and other partner institutions as part of CIMAS funded
Spell Check
41. What was the impact on physical, institutional, and information resources that form infrastructure?*
Nothing to Report Nothin
Improved hurricane predictions from HAFS will allow for earlier and more accurate warnings to better protect infrastructure from tropical cyclone impacts.
Database information resources for environmental DNA have been developed, transformed, and actively maintained for more
Spell Check
42. What was the impact on technology transfer?*
42. What was the impact on technology transfer?*
Nothing to Report Modifications to the EDMF-TKE PBL scheme were transitioned to EMC for real-time testing. Real-time model data was transferred
to the AOML modeling website. Model track files were transferred to NHC via ftp.
Our project has made an interactive data visualization web tool for use by our Sanctuary partners. The project is currently
Spell Check
43. What was the impact on society beyond science and technology?*
Nothing to Report
The identification of stress-resilient coral genotypes, and resolution of the SCTLD outbreak, is critical to the future protection of
coral reef ecosystems and the socio-economic resources they provide.
These data can be used as means of educating the public on environmental health and to inform policy decisions and public
Spell Check
44. What percentage of the award's budget was spent in foreign country(ies)?*
Enter percent 16 % Enter explanation:
The late start of projects under the new agreement and the delay in receiving funds is the result of small percentage spent in
foreign country(ies) .16%. The project listed below and a warehouse unit rented in Australia to storage oceanic equipment are the only payments. Due to COVID-19 there were no foreign trips.
Spell Check
CHANGES/PROBLEMS Guidance
45. Changes in approach and reasons for change*
Nothing to Report COVID 10 and only squeed major changes in approach to the project. Field work was cancelled and lack of access to facilities.
COVID-19 pandemic caused major changes in approach to the project. Field work was cancelled and lack of access to facilities caused adjustments to project goals.
Given the inability to travel due to the COVID-19 pandemic, one planned field trip was cancelled. However, we were still able to
Spell Check
46. Actual or anticipated problems or delays and actions or plans to resolve them*
Nothing to Report U The COVID-19 pandemic has slowed many aspects of the experiments through limited lab and personnel access, however progress on all fronts has been continuous.
Work plans were readjusted to be successful while working in a work-from-home setting. Local contractors have been hired to do
Spell Check
47. Changes that had a significant impact on expenditures*
Nothing to Report
Due to the pandemic, no travel was undertaken related to this project. Conference attendance was virtual, with only abstract and registration fees needed.
Because of the COVID-19 Pandemic, travel was very limited over the last year. Most meetings were virtual, and so most
Spell Check
48. Significant changes in use or care of human subjects, vertebrate animals, biohazards, and/or select agents*

Nothing to Report ✓			
None			
Spell Check			
49. Change of primary performance site location from that originally proposed*			
Nothing to Report \square			
Most CIMAS staff are currently teleworking due to the guidance provi	ded by UM and NOAA.		
Coral larvae experiments in association with collaborators from USC v	vere conducted offsite due to Covid-related travel restrictions.		
Spell Check			
PROJECT OUTCOMES <u>Guidance</u>			
50. What were the outcomes of the award?*			
TW: Enhance collaborations with the USAF and developers of dropwindsondes and processing software. Produced working code for nest motion of the atmospheric variables in the FV3, and completing the nest motion code for the physics and surface variables. HAFS improvements to model PBL physics and upgrades to allow both the global and nested domains to be output. Tests during the 2020 Atlantic Hurricane Season demonstrated the usefulness of physics upgrades and			
Spell Check			

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