FY17 CPO	Annual Opera	ting Plan													
DOC Strategic Plan	5-Year Research Plan Goal: Objective	NOAA Annual Guidance	NGSP Goal:	OAR Strategic	Perform (NOTE: Do not report Measure or I		(NOTE		easure or Milestone Targets eport Measure or Milestone Targets in the	PRIN	ARY RESPONSI	BILITY			PERFORMANCE MEASURE and MILESTONE
Objective (if applicable)	- Target	Memo Priority	Objective (if applicable)	Plan			Target	Actual	same row)				NOAA		
Please use the pull-down menu to select the objective	Please use the pull- down menu to select the objective	Please use the pull-down menu to select the objective	Please use the pull-down menu to select the objective	Please use the pull-down menu to select the objective	Measure (The monitoring of ongoing progress toward pre- established goals.)	Milestone (A distinct activity planned for completion on a scheduled date)	17 Q4	17 Q4	Why was the target missed? When will the target be completed? What is the risk of missing the target?	Unit within LO/SO	Point of Contact	Responsible SES	(if applicable)	CI Partner (if applicable)	
3.1 Advance understanding of environmental change	Climate: ESM - Develop seasonal outlooks	NWS: National Weather Service (NWS)	Climate_Scientific	Climate: Predictions	Annual number of Climate Program Office R&D products transitioned to a new stage (development, demonstration, or application)		22	22	This number is the result of the projects in the next tab, CPO R2A.	СРО	Neil Christerson	Wayne Higgins		NA	Transition research and development (R&D) capabilities to applications to reduce adverse effects of environmental events on people and property.
3.1 Advance understanding of environmental change	Climate: Improve understanding - Assess climate induced changes	Org Excellence: Alignment of R&D to support NOAA (OAR)	Climate_Scientific	Climate: Variability and change	Improve climate understanding, prediction, and information through the selection of at least 50 new grants annually		50	78		СРО	Neil Christerson	Wayne Higgins		Numerous	CPO's external grant programs, including funding opportunities address key information needs related to climate research, modeling, and the impacts of climate change on communities, infrastructure, and economies.
3.1 Advance understanding of environmental change	Climate: Improve understanding - Assess climate induced changes	Org Excellence: Alignment of R&D to support NOAA (OAR)	Climate_Scientific	Climate: Variability and change		Complete the CPO FY18 Federal Funding Opportunity (FFO) with at least 6 new competitions	6	8		СРО	Paul Hirschberg	Wayne Higgins		Numerous	CPO's external grant programs, including funding opportunities address key information needs related to climate research, modeling, and the impacts of climate change on communities, infrastructure, and economies.
3.1 Advance understanding of environmental change	Climate: Improved assessments - Sustain assessments of the impacts and risks of climate	Org Excellence: Alignment of R&D to support NOAA (OAR)	Climate_Assessme nts	Climate: Inform & Support	Number of assessments or integrated plans developed or implemented across NOAA programs to enhance NOAA climate services.		2	5		СРО	Daniel Barrie	Wayne Higgins		Cooperative Institute for Climate and Satellites - North Carolina (CICS-NC)	This performance measure will demonstrate the role of formal climate change assessments in decisions to address climate change impacts by completing or having major contributions to assessments that are considered by business, government, or the public that affected decisions related to improved climate resilience
3.1 Advance understanding of environmental change	Climate: Info/Tools - Improve communication	Org Excellence: Alignment of R&D to support NOAA (OAR)	Climate_Scientific	Climate: Inform & Support		Deliver the final draft of the interagency Climate Science Special Report				СРО	Dan Barrie	Wayne Higgins		Cooperative Institute for Climate and Satellites - North Carolina (CICS-NC)	This special report provides an update to the physical climate science presented in the Third National Climate Assessment (NCA3) released in 2014. The CSSB provides updated climate science findings and projections, and is an important input to the authors of the next quadrennial NCA (NCA4), expected in 2018.
3.1 Advance understanding of environmental change	Climate: Info/Tools - Improve communication	Org Excellence: Alignment of R&D to support NOAA (OAR)	Climate_Scientific	Climate: Inform & Support		Coordinate and contribute to the Initial draft of the fourth National Climate Assessment	x	x		СРО	Dan Barrie	Wayne Higgins		Cooperative Institute for Climate and Satellites - North Carolina (CICS-NC)	The National Climate Assessment summarizes the impacts of climate change on the United States, now and in the future. A team of hundreds of experts produce the report, which is extensively reviewed by the public and experts, including federal agencies and a panel of the National Academy of Sciences.
3.1 Advance understanding of environmental change	Climate: Record - Observing Systems	Infrastructure: Utilization and Readiness of fleet (OMAO)	Climate_Scientific	Climate: State of system		Public release of the initial TPOS-2020 Report				СРО	David Legler	Wayne Higgins		Joint Institute for Marine and Atmospheric Research (JIMAR)	The TPOS 2020 Project will evaluate, and where necessary change, all elements that contribute to the Tropical Pacific Observing System (TPOS) based on a modern understanding of tropical Pacific science. The project aims for enhanced effectiveness for all stacheolders, informed by the development and requirements of the operational prediction models that are primary users of TPOS data.
3.1 Advance understanding environmental change	Climate: Obs - Integrate into short and long time scale models	Infrastructure: Utilization and Readiness of fleet (OMAO)	Climate_Scientific	Climate: State of system	Reduced error in Global Measurement of Sea Surface Temperature. (Degrees Celsius (°C))		0.50	Results delayed. See note.	A Report on the SST GPRA Performance Meric Exput: Unbil Suessian Physical Solutions (SST Performance While expecting improvement in the SST Performance While expecting improvement in the SST Performance Meric (PM) strating is early 2017, the computed and the physical solution of the SST Performance Pergram indicated its should on the Merica Stration and the SST SST SST SST SST SST SST SST SST SS	CPO	David Legier	Wayne Higgins		Cooperative institute for Climate and Satellites—North Carolina (CICS-NC)	This measure is intended to document progress in accurately measuring the global sea surface temperature (SST) using in shu drifting buoys to verify that satellite SST data are accurate and representative. This reflects how improvements in ocean observations will decrease the uncertainty in global sea surface temperature measurements, which will ultimately play are lor a calculations of the ocean-atmosphere exchange of heat and the heat storage in the global ocean. The sea surface, covering were 70% of the Earth surface, has a treendous influence on global clinar because it is where the atmosphere responds to the ocean via the transfer of heat either to or from the atmosphere. Since sea surface temperature is neasured by boys, ships, and stellites, this performance measure is well-suited as an indicator of the effectiveness of our integrated ocean observing system and the more accurate stimates of sea surface temperature will improve our solity to detect changes in the clinare system. Success in this performance measure requires the maintenance and increase of in situ ocean sensors. The goal is to reach an indicator outle of 0.3 degrees clickus, which has been specified by the international Global Ocean Observing System (GOOS) as the required accuracy for measurement of sea surface temperature.
3.1 Advance understanding of environmental change	Climate: Record - Observing Systems	Org Excellence: Alignment of R&D to support NOAA (OAR)	Climate_Scientific	Climate: State of system		Characterize the evolving state of the ocean/marine environment in the 2016 State of the Climate report	x	x		СРО	David Legler	Wayne Higgins		Numerous	Ocean, atmospheric, and ecosystem data and products supported by CPO and OAR are analyzed, assesed, and contributed to the annual State of the Climate Report.
3.1 Advance understanding of environmental change	Climate: Record - Observing Systems	Org Excellence: Alignment of R&D to support NOAA (OAR)	Climate_Scientific	Climate: State of system		Complete the Annual (2016) Arctic Report Card				СРО	Jeremy Mathis	Wayne Higgins		Cooperative Institute for Arctic Research (CIFAR) Joint Institute for the Study of the Atmosphere and Ocean (JISAO)	The Arctic Report Card (www.arctic.noaa.gov/reportcard/) considers a range of environmental observations throughout the Arctic, and is updated annually. As in previous years, the 2015 update to the Arctic Report Card highlights the changes that continue to occur in both the physical and biological components of the Arctic environmental system.
3.1 Advance understanding of environmental change	Climate: Improve understanding - Assess climate induced changes	Org Excellence: Alignment of R&D to support NOAA (OAR)	Climate_Scientific	Climate: Variability and change	Annual number of peer-reviewed publications related to climate understanding and prediction		400	1016		СРО	Neil Christerson	Wayne Higgins		Numerous	Note: This measure was revised 10.9.15 to include "peer reviewed" publications only, therefore the FY16 "actual" will likely be lower than FY15.

FY17 CPO	Annual Opera	ting Plan													
DOC Strategic Plan Objective	5-Year Research Plan Goal: Objective - Target	NOAA Annual Guidance Memo Priority	NGSP Goal: Objective (if applicable)	OAR Strategic Plan	Perform (NOTE: Do not report Measure or Mea	Vilestone Targets in the same row)	•	: Do not re	easure or Milestone Targets eport Measure or Milestone Targets in the same row)	PRIN	IARY RESPONSI	BILITY	NOAA		PERFORMANCE MEASURE and MILESTONE DESCRIPTIONS
(if applicable) Please use the pull-down menu to select the objective	Please use the pull- down menu to select the objective	Please use the pull-down menu to select the objective	Please use the pull-down menu to select the objective	Please use the pull-down menu to select the objective	Measure (The monitoring of ongoing progress toward pre- established goals.)	Milestone (A distinct activity planned for completion on a scheduled date)	17 Q4	Actual 17 Q4	Why was the target missed? When will the target be completed? What is the risk of missing the target?	Unit within LO/SO	Point of Contact	Responsible SES	gion (if applicable)	Cl Partner (if applicable)	
3.3 Strengthen the resilience of communities and regions	Climate: Key impacts - Advance activities focused on impacts of climate	Resilence: Operational services (NOS)	Climate_Services	Climate: Inform & Support	Number of states, and territories working with the National Integrated Drought Information System (NIDIS) to incorporate drought early warming information into their drought adaptation and mitigation planning.		25	30		СРО	Veva Deheza	Wayne Higgins		Cooperative Institute for Research in Environmental Sciences (CIRES)	The performance measure is based on the number of states and territories that partner with NIDS to becorporate double advy warning information into the drought planning activities. Activities that count toward this measure include: local or regional drought planning/maragement groups; use of tailored information from the U.S. Drought Portal to setabilish drought fundations and set management triggers in state and territory drought adaptation and mitigation plans; and incorporation of information from basis specific drought monitors developed through the drought early warning information systems into either state and territory drought adaptation and mitigation plans or as part of state and territory drought planning and management groups.
3.3 Strengthen the resilience of communities and regions	Climate: Key impacts - Advance activities focused on impacts of climate	Resilence: Operational services (NOS)	Climate_Services	Climate: Inform & Support		Competitions for existing RISA regions as they come up for competition (2 in FY17) to ensure the continuation and evolution of the RISA framework to address integrated research, regional needs, and NOAA's mission areas.				СРО	Caitlin Simpson	Wayne Higgins		CIMMS CIRES CILER CIMEC	NOAA's Regional integrated Sciences and Assessments (RISA) program supports research teams that help expand and build the nation's capacity to prepare for and adapt to climate variability and change. Central to the RISA approach are commitments to process, partnership, and trust building. RISA teams work with public and private user communities.
5.2 Support a customer service-oriented culture	Climate: Info/Tools - Improve communication	Org Excellence: Alignment of R&D to support NOAA (OAR)	Climate_Literacy	Climate: Inform & Support	10% growth per year in number of visits to NOAA Climate.gov Portal over previous year		10%	25%		СРО	David Herring	Wayne Higgins		NA	This performance measure will show the ongoing increase in the number of unique visits per month to the Portal. It indicates the growing value in terms of the number of new people accessing the information and tools on the website.
5.2 Support a customer service-oriented culture	Climate: Info/Tools - Improve communication	Org Excellence: Alignment of R&D to support NOAA (OAR)	Climate_Literacy	Climate: Inform & Support	Percentage improvement in the Quality of Relationship between engagement personnel and the public they serve [This is a biennial measure]		77	77.5	77.5 is our average QoR score for P117, which slightly exceeds target. Overall, Climate.gov exceeds the government website benchmark scores in the following categories: content, navigation, look and feel, and search.	СРО	David Herring	Wayne Higgins		NA	The best way for a federal science and services agency to understand its publics, and to facilitate their understanding and use of its products and services, its to build and maintain relationships. The Quality of Relationship (QoR) instrument measures, and is comprised of, the following five elements: awareness, trust, satisfaction, use/subality, and control mutuality. List tech American Customer Satisfaction Index, the QoR instrument produces an index score from 0-100. The Climate Portal's initial "baseline" (DoR score in PY12 way 72.6. Recuse list both costly and time consuming to measure QOR, we plan to make updated measurements every other year, which gives us the intervening years to apply what we learn to the Portal's design, scope, and functionality before we begin the next measurement cycle. Our performance target will be to increase by 2 index point over the previous measure in subsequent years, as shown in this wo (left).
5.2 Support a customer service-oriented culture	Climate: Info/Tools - Improve communication	Org Excellence: Alignment of R&D to support NOAA (OAR)	Climate_Literacy	Climate: Inform & Support	10% growth per year in number of visits to the Climate Resilience Toolkit over previous year.		10%	76%		СРО	David Herring	Wayne Higgins		NA	This performance measure will show the ongoing increase in the number of unique visits per month to the Climate Resilience Toolkit website. It indicates the growing value in terms of the number of new people accessing the information and tools on the website.
5.2 Support a customer service-oriented culture	Climate: Info/Tools - Improve communication	Org Excellence: Alignment of R&D to support NOAA (OAR)	Climate_Literacy	Climate: Inform & Support		Climate.gov: Develop a new model for climate workshops for formal and informal educators, to support implementation of new science standards in Earth system science.		x	Completed and implemented in Q4	СРО	David Herring	Wayne Higgins		NA	CPO hosts and participate in workshops to build better relationships with our publics, and to help them find and use data and information in climate-related decisions.
5.2 Support a customer service-oriented culture	Climate: Info/Tools - Improve communication	Org Excellence: Alignment of R&D to support NOAA (OAR)	Climate_Literacy	Climate: Inform & Support		CRT: Develop and publish explanatory videos to guide Climate Explorer users through the appropriate use and interpretation of data provided through this interface.	x	x	Completed and published in Q4 of FY17	СРО	David Herring	Wayne Higgins		Cooperative Institute for Research in Environmental Sciences (CIRES)	
3.3 Strengthen the resilience of communities and regions	Climate: Info/Tools - Improve communication	Org Excellence: Alignment of R&D to support NOAA (OAR)	Climate_Literacy	Climate: Inform & Support		Climate Resilience Toolkit (CRT): Build a new 'Regions' section in the CRT, with corresponding regional virtual teams to review and populate each regional subsection. Publish at least 4 Regions in FY17.	x	x	Regions section built with 3 regions included; 4 new regions still to be added	СРО	David Herring	Wayne Higgins		NA	Purpose is to engage communities and businesses to use CRT region-focused information and tools to make resilence plans and act on those plans. Three major objectives of this region-focused effort: 1. Establish region theme teams. 2. Populate regional sections on the CRT 3. Scale up level of engagement turing the CRT to address regional and local needs.
3.1 Advance understanding of environmental change	Climate: ESM - Develop seasonal outlooks	NWS: National Weather Service (NWS)	OA_HighPerfOrg	Climate: Inform & Support		Develop and execute the CPO components of the FY17 OAR-NWS Weather-Water-Climate and FY17 OAR-NESDIS Service Level Agreements.	x	x		СРО	Paul Hirschberg	Wayne Higgins		NA	NWS and OAR signed a Memorandum of Understanding (MOU) establishing a new/improved framework for the NWS Climate Services Program and OAR Climate Program Office (CPO) to advance end-to-end climate services - research, transition, and operational delivery (R2O). An annual Service Level Agreement (SLA) codified FY15 funding provided by OAR to NWS in support of the MOU.
3.1 Advance understanding of environmental change	Climate: Info/Tools - Improve communication	Org Excellence: People, teams, and tools (DUS-O)	OA_HighPerfOrg	Climate: Inform & Support		Issue CPO Annual Report for FY16			Completed and delivered in Q2	СРО	David Herring	Wayne Higgins		NA	This report will give an overview of CPO's achievements in PY16.
5.1 Empower and engage employees	Climate: Info/Tools - Improve communication	Org Excellence: Alignment of R&D to support NOAA (OAR)	OA_HighPerfOrg	Climate: Inform & Support		Support early-career scientists. Select new Fellows for both the PACE and NOAA Climate and Global Change (C&CC) Postdoctoral Fellowship Programs. Host Iolings Fellows and Sea Grant Fellows.		Partial completio n	Due to budget constraints, CPO was unable to fully fund a class of 8-10 new fellows in FY13 but completed the obligations to the graduating class and committed to funding a reduced new class of fellows.	СРО	James Todd	Wayne Higgins		NA	This is a Diversity and Inclusion milestone that was submitted to OAR. PACE – PostDocs Applying Climate Expertise – is a postdoctoral fellowship porgram to grow the pool of scientists qualified to transfer advances in climate science and climate prediction into climate-related decision framework(s) and decision tools. The purpose of the NOAA Climate and Clibal Change Postdoctoral Fellowship Program is to help create and train the next generation of leading researchers needed for climate studies; it endework to attract recent PhDs with research interests in areas relevant to the NOAA Climate science and services program. The Sea Grant Knauss Fellowship provideseducational and professional experience to graduate students who have an interest in careas relevant to the NOAA Climate science and services program. The Sea Grant Knauss Fellowship provideseducational and professional the national policy decisions affecting those resources. The Ernest F. Hollings Undergraduate Scholaship Interested in pursuing research, public service, or teaching careers in the oceanic and atmospheric sciences.
5.1 Empower and engage employees	Climate: Info/Tools - Improve communication	Org Excellence: People, teams, and tools (DUS-O)	OA_HighPerfOrg	Climate: Inform & Support		Complete data collection and anaylsis for the CPO Workforce Plan, and develop a managment tool that incorporates CPO-wide job duty information, knowledge management and succession planning				CPO	Shannon Louie	Wayne Higgins		NA	This is a Diversity and Inclusion milestone considering information to promote diversity in hiring decisions and succession planning.
5.1 Empower and engage employees 5.2 Support a	Climate: Info/Tools - Improve communication	Org Excellence: People, teams, and tools (DUS-O)	OA_HighPerfOrg	Climate: Inform & Support	Develop and support diversity and inclusion committees and implement FY17 Diversity and Inclusion actions described in the plan for committees.		x	x		СРО	Neil Christerson	Wayne Higgins		NA	Sub-committees include: : Diversity Training, Professional Development, Team Building, Improving communication and transparency, inclusion of non-Feds, Outside of the offices Activities and Incorporating D/I principles into the FFO.
5.2 Support a customer service-oriented culture	Climate: Info/Tools - Improve communication	Org Excellence: Alignment of R&D to support NOAA (OAR)	OA_HighPerfOrg	Climate: Inform & Support	Process 100% of CPO grants by June 30			x		СРО	Eric Locklear	Wayne Higgins		NA	
5.2 Support a customer service-oriented culture	Climate: Info/Tools - Improve communication	Org Excellence: Alignment of R&D to support NOAA (OAR)	OA_HighPerfOrg	Climate: Inform & Support	Property is accounted for as evidenced by a reported inventory accuracy rate of at least 85-95% with no more than 5% of accountable property designated as not found or missing.		x	x		СРО	Eric Locklear	Wayne Higgins		NA	

FY17 CPO	Annual Operat	ting Plan													
DOC Strategic Plan Objective	5-Year Research Plan Goal: Objective - Target	NOAA Annual Guidance Memo Priority	NGSP Goal: Objective (if applicable)	OAR Strategic Plan	Perform (NOTE: Do not report Measure or M			E: Do not re	easure or Milestone Targets port Measure or Milestone Targets in the same row)	PRIN	IARY RESPONS	IBILITY	NOAA		PERFORMANCE MEASURE and MILESTONE DESCRIPTIONS
(if applicable) Please use the pull-down menu to select the objective	Please use the pull- down menu to select the objective	Please use the pull-down menu to select the objective	Please use the pull-down menu to select the objective	Please use the pull-down menu to select the objective	Measure (The monitoring of ongoing progress toward pre- established goals.)	Milestone (A distinct activity planned for completion on a scheduled date)	17 Q4	Actual 17 Q4	Why was the target missed? When will the target be completed? What is the risk of missing the target?	Unit within LO/SO	Point of Contact	Responsible SES	gion (if applicable)	Cl Partner (if applicable)	
3.1 Advance understanding of environmental change	Climate: Info/Tools - Improve communication	Org Excellence: Alignment of R&D to support NOAA (OAR)	Climate_Scientific	Climate: Inform & Support		Support the Global Framework for Climate Services by co-leading the execution of a transboundary workshop under NACSP that is leading to improvements in climate services for drought and wildfires and the development of manuscripts.				СРО	Meredith Muth	Wayne Higgins		NA	Lead activities for the North American Climate Services Partnership, including manuscripts on lessons learned for transboundary collaboration on climate services
3.1 Advance understanding of environmental change	Climate: Record - Observing Systems	Org Excellence: Alignment of R&D to support NOAA (OAR)	Climate_Scientific	Climate: Inform & Support		Installation of co-located GPS for 8 GLOSS tide-gauge stations (5 in the US and 3 internationally).	x	Milestone Not Met	Reliant on funds from NOS who was unwilling to commit to the project	СРО	Emily Smith	Wayne Higgins		NA	
3.1 Advance understanding of environmental change	Climate: Key impacts - Advance activities focused on impacts of climate	Org Excellence: Alignment of R&D to support NOAA (OAR)	Climate_Scientific	Climate: Inform & Support		Complete the draft of the Arctic Research Program Strategic Plan	x	Milestone Not Met	This has been moved to a deliverable for FY18. There was too much uncertainty in the budget this year to complete the draft strategic plan.	СРО	Jeremy Mathis	Wayne Higgins		Cooperative Institute for Arctic Research (CIFAR) Joint Institute for the Study of the Atmosphere and Ocean (JISAO)	
3.1 Advance understanding of environmental change	Climate: Key impacts - Advance activities focused on impacts of climate	Org Excellence: Alignment of R&D to support NOAA (OAR)	Climate_Scientific	Climate: Inform & Support		New Ocean relevant indicators added to USGCRP system		Milestone partially met	CPO work toward this milestone is complete (submission package sent through USGCRP and approved by IndIWG); milestone not met due to actions required by entities outside CPO.	СРО	Jennifer Salem Arrigo	Wayne Higgins		NA	USCRP. ICF has delayed adding new indicators to the system. Ocean relevant indicators have been submitted by NOAA through the USCRP indiWG working group, submission has been reviewed and signed off on by IndiWG, action is now with ICF and the Asheville TSU to implement in the system. Take home: our work toward this milestone is complete (submission package sent through USCRP and approved by IndiWG; milestone on the dute to actions required by entities outside CPO.
3.1 Advance understanding of environmental change	Climate: Key impacts - Advance activities focused on impacts of climate	Org Excellence: Alignment of R&D to support NOAA (OAR)	Climate_Scientific	Climate: Inform & Support		Commence FIREX related research activities with instrument testing and measurements of fire emission factors at the Missoula Fire Science Laboratory.				СРО	Ken Mooney	Wayne Higgins		Cooperative Institute for Research in Environmental Sciences (CIRES)	The Fire Influence on Regional and Global Environments Experiment (FIREX) is a field campaign designed to understand and predict the impact of North American fires on the atmosphere and to support better land management to help prevent them from occurring.
3.1 Advance understanding of environmental change	Climate: Record - Observing Systems	Org Excellence: Alignment of R&D to support NOAA (OAR)	Climate_Scientific	Climate: Predictions		Advance week-3 to seasonal forecast capability by initiating new research projects and a new S2S Prediction Task Force	x	x		СРО	Heather Archambault	Wayne Higgins		NA	The Subseasonal to Seasonal (S25) Prediction Task Force to advance NOAA's and the Nation's capability to model and predict sources of S25 predictability. The ultimate goal of this initiative is to help close the gap in prediction skill and products between traditional weather and seasonal lead times.
3.1 Advance understanding of environmental change	Climate: Info/Tools - Improve communication	Org Excellence: Alignment of R&D to support NOAA (OAR)	Climate_Scientific	Climate: Inform & Support		Through US CLIVAR partnership, support the international US AMOC Science Meeting for understanding of the current state of AMOC science, identifying scientific gaps, and development of plans to fill those gaps. Disseminate the meeting report publicly.	x	x		СРО	Sandy Lucas	Wayne Higgins		Cooperative Institute for Marine and Atmospheric Studies (CIMAS)	
3.3 Strengthen the resilience of communities and regions	Climate: Info/Tools - Improve communication	Org Excellence: Alignment of R&D to support NOAA (OAR)	Climate_Literacy	Climate: Inform & Support		Contribute to and support the development of a climate and fisheries dashboard for the northeast region.				СРО	Adrienne Antoine	Wayne Higgins		NA	As part of the Climate Impacts on Fish, a two year project was funded in FY16 to support the development of a climate and fisheries dashboard for the NE. The project was funded in FY16 and work started in FY17. The research project will be completed by the end of FY18.
3.3 Strengthen the resilience of communities and regions	Climate: Info/Tools - Improve communication	Org Excellence: Alignment of R&D to support NOAA (OAR)	Climate_Literacy	Climate: Inform & Support		Develop new Urban section on the Climate Resilience Toolkit				СРО	Nancy Beller- Simms	Wayne Higgins		NA	
3.3 Strengthen the resilience of communities and regions	Climate: Info/Tools - Improve communication	Org Excellence: Alignment of R&D to support NOAA (OAR)	Climate_Scientific	Climate: Inform & Support		Complete a baseline vulnerability and impact assessment focused on livelihoods and communities in Bihar, India, and Initiate the development of an experimental tallored sub-seasonal and seasonal climate information report, based on the assessment, in partnership with regional, national and local organizations in India.	x	Partial	Due to some issues involving our local partners, some of the work has been delayed until P13. Baseline data has been collected from livelihood survey of 6600 households in 264 villages of two drought prone and 2 flood- prone districts in Bihar. An additional 264 surveys were conducted of village leaders to gain insights at the village level. Initial assessment of survey data has been completed, he analysis is informing the production of tailored seasonal and sub-seasonal climate, and weather products for the four districts.	CPO	Lisa Vaughan	Wayne Higgins		NA	In partnership with the Begional Integrated Multi-Hazard Farly Warning System for Africa and Asia (RIMES), the India Meteorological Department, and Agricultural Extension agents based in Bihar, the experimental tailored sub-easional and seasonal climate information will be provided to select villages in the 4 Bihari districts, beginning just before the onset of the 2018 summer monsion, and comuning through the monsion period. Analysis of all the data collected, along with the "intervention" of climate information provided will be used to produce both a valenzability assessment and an assessment of the impact on livelihoods of the tailored climate information provided.

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OAR Corporate Priorities Primary	OAR Corporate Priorities Secondary	OAR Strategic Plan	(NOTE: Do not report Measure o	rmance r Milestone Targets in the same row)			Weather Act		Actu	Jak	1	arget Actu	al Tare	rt Actua	Measure or # (NOTE: Do not report Measure o	Target Actua	ats in the same row)	Target A	Actual		FY-19	Targets	Future	FY Targets		RIMARY RESPONSIE		-		
Please use the pull-down menu to select the objective	(if applicable) Please use the pull-down menu to select the objective	Please use the pull-down menu to select the objective	Measure (The monitoring of ongoing progress toward pre- established goals.)	Milestone (A distinct activity planned for completion on a scheduled date)	Quarterly Cumulative	Cumulativ e Across Years	Please check the box if your measure/ milestone is linked.	10 11	12 13	14 15	16 17	18 18 Q1 Q1	Why was the target missed? When will the target be completed? What is the risk of missing the target?	18 Q2	Why was the target missed? When will the target be completed? What is the risk of missing the target?	18 18 Q3 Q3	Why was the target missed? When will the target be completed? What is the risk of missing the target?	18 Q4		target r	19 19 Q1 Q2	19 19 Q3 Q4	19 20	21 22 2	3 LO/SO	<sup>1</sup> Point of Contac	Responsible SES	NOAA egion (if applicable)	Cl Partner (if applicable)	PERFORMANCE MEASURE and INLESTONE DECOMPTONS
Environmental inf	Social & Behavioral research	Stakeholder: Communicating science	10% growth per year in number of visits to NOAA Climate.gov Portal over previous year.					NA 10%	63% 53%	75% 83%	27% 25%	10% 12.7	к. 109	8.8%		10% 6.2%		10%	8.4%			109	10%10%	10%10%5	ож сро	David Herring	Wayne Higgins			This performance measure will show the ongoing increase in the number of unique visits per month to the Portal. It indicates the growing value in terms of the number of new people accessing the information and tools on the website.
Environmental inf	Social & Behavioral research	Stakeholder: Communicating science	10% growth per year in number of visits to the Climate Resilience Toolkit over previous year.					NA NA	NA NA	NA NEW	72% 76%	10% 17.3	K 109	16.19		10% 17.1		10% 1	14.5%			105	10%10%	10%10%1	0% CPO	David Herring	Wayne Higgins			This performance measure will show the ongoing increase in the number of unique visits per month to the Climate Resilience Toolkit website. It indicates the growing value in terms of the number of new people accessing the information and tools on the website.
Environmental info	Weather forecasting & climate predictions	Climate: Inform & Support	Number of assessment reports or integrated plans developed or implemented across NDAA programs to enhance NDAA climate services.		0					6	8 5							4	4			4	4 4	4 4	4 CPO	Ben DeAngelo	Wayne Higgins			This performance measure shows CPO's major contributions to and completion of assessments and demonstrates the role of formal published climate change assessments in decisions to address climate change impacts. Business, government, and the public use these assessments to improve their climate realistics.
Weather forecasting & climate predictions	Environmental info	Climate: Variability		Complete the CPO FY18 Federal Funding Opportunity (FFO) with at least 6 new competitions.			•			NEW	9 8	• •	-	•		0 0		6	11			6	66	6 6	6 CPO	Paul Hirschberg	Wayne Higgins			CPO's external grant programs, including funding opportunities address key information needs related to dimate research, modeling, and the impacts of climate change on communities, infrastructure, and economies.
R2A	Weather forecasting & climate predictions	Climate: Predictions	Annual number of advances in climate and weather research and information products transitioned to a new stage (development, demonstration, or application) to improve earth system understanding and provide information to private and public sectors.			ß	۵			NEW	27 23							10	16			10	10 10	10 10 :	0 070	Neil Christersor	Wayne Higgins			CPO supports research and development projects within NOAA and with external partners to be transitioned to operations and applications to advance NOAA's mission areas and reduce adverse effects devincemental externs on people and opprays. Noble: The target was reduced from 21 Pr17 to 10 in Pr18 because the number of anticipated RDA transitions was lower for CPO programs.
Partnerships & Cooperative agreements	Early Warning info	Climate: Inform & Support	Number of states, and territories working with the National Integrated Drought Information System (NDIS) to incorporate drought early warning information into their drought adaptation and mitigation planning.					n/a n/a	4 5	7 15	20 37	NA NA	NA	NA		NA NA		37	40			37	37 37	37 37 3	7 CPO	Veva Deheza	Wayne Higgins			The performance measure is based on the number of states and terrotices that partner with MIGS to incorporate directly and a summing information to inter directly partners and the states with MIGS to incorporate directly and a summing information to inter directly partners and the states with the locate to a state with the LS coundy Front and states in directly directly and a state of terrotion and the states and interface of the states and the states and the states and the states and and the states and the states and the states and the states and terrotion of an advect states and the st
Weather forecasting & climate predictions	Environmental info	Climate: Variability	Annual number of new research awards to improve climate understanding, prediction, and information.							70	59 78							50	87			50	50 50	50 50 5	о сро	Neil Christerson	Wayne Higgins			CPO's external grant programs, including funding opportunities address key information needs related to climate research, modeling, and the impacts of climate change on communities, infrastructure, and economies.
Ecosystem processes & change	Environmental info	Oceans: Environmental changes		Complete phase 1 of strategy building process for the Climate Impacts on Fisheries Program by hosting a series of strategic conversations with relevant OAR and MMFs labs and programs.				0 0	0 0	• •		• •	-	0		• •		8	•	Initiated but not completed. Meeting about next steps for the program planned for Nov/Dec 2018.	0 0	0 0	0 0		CP0	Adrienne Antoine	Wayne Higgins			The Coastal and Ocean Climate Applications (ICOA) program addresses the needs of specific decision makers grapping with pressing climate-rotated issues in coastal and marine environments. This program strengthms: miltain developed under the Sectoral Applications Research Applications support interdisciplinary applications research aimed at addressing climate-rotated challenges in coastal communities as a well as coastal and marine coxystems.
Weather forecasting & climate predictions	Ecosystem processes & change	Oceans: Environmental changes		Establish Marine Task Force to investigate seasonal prediction of coastal sea level and living marine resources.				0 0	0 0	• •	0	•		0		0 0		0			0	0	0 0		CPO	Annarita Mariotti/Jin Huang	Wayne Higgins			
Environmental info	Weather forecasting & climate predictions	Climate: Inform & Support		Complete the Climate Science Special Report (CSSR) Complete four competitions on climate-				0 0	0 0	0	0 0	0 0		2		0 0		•	•		0	0 0	0 0		CPO	Ben DeAngelo	Wayne Higgins			The Climate Science Special Report provides the scientific basis for the quadrennial National Climate Assessment.
Partnerships & Cooperative agreements	Social & Behavioral research	Climate: Inform & Support		societal impacts: 1) re-competition of the south-central RISA region, 2) RISA/COCA pilot of coastal climate extension specialists, 3) decision support research on climate-sensitive health (RAP), and 4) water sector research on exterme events preparedness and coping with drought.				• •	0 0	0 0		• •	-	D			Competitions held for 1-3. #4 on the water sector was postponed.		•		• •		• •		CP0	Caitlin Simpson	Wayne Higgins			CPO's external grant programs, including funding opportunities address key information needs related to clinical research, modeling, and the impacts of clinical change on communities, infrastructure, and the clinical research in the clinical on establishing or recompeting a NISA in one region (to be determined).
Environmental info	Weather forecasting & climate predictions	Climate: Inform & Support		Complete the fourth order draft of NCA4. Update 'Climate Explorer' with LOCA				0 0	0 0			0 0		0		•	Mostly complete. USGCRP is waiting for approval from DOC/NOAA (as of July 16, 2018).				0 0	0 0	00		CPO	Dan Barrie	Wayne Higgins			The National Climate Assessment is a Congressionally-mandated report required to be produced every four years and provides a rational assessment of the climate science and the impacts of climate change and variability impacts on the U.S. the Climate Science offset enrole, enser, and data of observed and excitent disensective.
Environmental inf	Social & Behavioral research	Stakeholder: Communicating science		dataset, adding "15 new climate variables, and an ability to monitor threshold exceedance over time. Expand the CRT's scope by completing				0 0	• •		•	•		•		0 0		•			0 0		00		CPO	David Herring	Wayne Higgins			The Chromite Spectre approximate provide the set of the
Environmental inf	Social & Behavioral research	Stakeholder: Communicating science		Expand the CHT's scepe by comparing build out of the "Regions' section and by adding StoryMaps allowing users to explore exposure to climate-related hazards. Complete Phase 3 redesign and rebuild of				0 0	0 0	0 0	0 0	• •		•		0 0		8			•		00		CPO	David Herring	Wayne Higgins			and sardballing impacts do the U.S. The Chance Support end registry, may, and data of observed and projected temperature, the chance Support end the strategy approx. The support of the support of the support projection of the strategy approx. The support of the support of the support handling data impacts and the strategy approx. The support of the support of the handling data impacts and the support of the support of the support of the handling data impacts and the support of the support of the support of the handling data impacts and the support of the support of the support of the handling data impacts and the support of the support of the support of the handling data is the support of the support of the support of the Handling data is the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the provide of the support of the support of the support of the support of the provide of the support of the support of the support of the support of the provide support of the support of the support of the support of the provide of the support of the support of the support of the support of the provide support of the support of the support of the support of the provide support of the support of the support of the support of the provide support of the support of the support of the support of the provide support of the support of the support of the support of the provide support of the support of the support of the support of the provide support of the support of the support of the support of the provide support of the support of the support of the support of the support of the provide support of the support of
Environmental inf	Social & Behavioral research	Stakeholder: Communicating science		NOAA Climate.gov, with responsive design and enhanced semantic search capability that clusters related content.				0 0	0 0	• •	0 0	• •		0		0 0		•	•		0		00		CPO	David Herring	Wayne Higgins			
Program Mgmt	Environmental info	Climate: Inform & Support		Process 100% of CPO grants by June 30.				0 0				0 0		0							0 0				CP0	Eric Locklear	Wayne Higgins			Processing the many CPO grants by June 30 is critical to meeting NOAA grants deadlines and supporting CPO's research and development areas. The Arctic Report Card (www.arctic.nosa.gov/reportcard)) considers a range of environmental
Environmental info	Long-term obs	Climate: State of system		Complete the Annual Arctic Report Card				0 0						•		0 0							2 2	2 2	2 CPO	Jeremy Mathis	Wayne Higgins			obsenations throughout the Arctic, and is updated annually. As in previous years, the 2015 update to the Arctic Report Card highlights the changes that continue to occur in both the physical and biological components of the Arctic environmental system. The Arctic Research Program (ARP) provides support for maintaining and extending networks of climate
Environmental info	Marine resources mgmt	Climate: Inform & Support		Complete the Arctic Research Program Strategic Plan				0 0	0 0	0 0	0 0	• •		•		0 0		8		his milestone was not ompleted in FY18 but plan to omplete in FY19, following a rogram review, pending pproval of a detailee.	• •	0 0	0 0	0 0	CPO	Jeremy Mathis / David Legler	Wayne Higgins			The Artick Report Card (envex.artic.noia.gav/report.artif) considers a range of environmental detar-radios from global: The Artics, and is updated annually. A isi in previous years, the 2015 update to compared to the Artic School and the Artic School and School and School and Despending of the Artics, and an environmental years. The Artic School and Despending The Artic Research Theogen (ARF) previous support for matching and extending streten the Artic School and the Artic Research Theogen (ARF) previous support for matching and extending streten the Artic Research theorem and the Artic School and Artic School and Artic Articles and Articles and Articles theorem and the Articles and Articles and the Articles and Articles and Articles and Articles and Articles and Articles and Articles and Articles and Articles and Brobenetics dranges, the Articles Articles and the Articles and Articles and Articles and Articles and Articles Articles and the Articles and Articles and Articles and Articles and Articles dranges the program works collaboration and articles and articles and articles and articles and articles and the Articles and Articles and Articles articles and Articles and Articles and Articles and Articles and Articles and Articles and Articles and Articles articles articles articles and Articles articl
Long-term obs	R2A	Climate: State of system		Complete the Tropical Pacific Observing System 2020 Saildrone Pilot Project Mission (NASA SPURS-2 and test along 125W)				0 0	0 0			• •		0		•		2	•	Completed Q3 FY18	0 0		0 0		<b></b> 070	Kathy Tedesco	Wayne Higgins			changes: the program works collocation/ with international partners to datase toburvations from a term of the program works collocation of the program of the program of the program of the term of the program of the
Long-term obs	Environmental info	Data: Observing systems		Complete the update of the Surface Ocean CO2 ATIas (SOCAT) Database				• •	0 0	•	• •	• •	-	•				8		Completed Q3 FY18	•	0	• •		<b></b> 070	Kathy Tedesco	Wayne Higgins			
Long-term obs	Environmental info	Climate: State of system		Complete the GO-SHIP Repeat Hydrography Section IO7N				0 0	0 0	0 0	0 0	• •	2	Delay d to Q3	Due to delays of the Ron Brown, this activity is now sheduled to be complete by June 6 (Q3).	•		•	•		0 0	0	0 0	0 0	CPO	Kathy Tedesco	Wayne Higgins			and relations. The first version of SCOCM was encased in 2011, the account and third version followed benoming, inclusional and version of scores versions. A The lates SCOM version level of the LSS million advancement for the spectra score version in the lates SCOM version level of the LSS million advancement for the spectra score version of the lates SCOM version level of the LSS million advancement for the spectra score score version of the lates score version of the spectra score score score score version of the spectra score version of the spectra score version of the spectra score version of the score version of the score version of the spectra score version of the spectra score version of the score version of the score version of the spectra score version of the score version of score version of the score version of the score version of score version of score version of score version of the score version of the score version of score version of score version of score version of the score version of the score version of version of score version of score version of score version of score version of version o
R2A	Weather forecasting & climate predictions	Climate: Predictions		Complete the CPO components of the Service Level Agreements with NWS and with NESDIS, which supports advances in NOAA climate information, services and products.			8	0 0	0 0	• •	0 0	• •		0		•		•	•		0 0		0 0		CP0	Paul Hirschberg	Wayne Higgins			Explosion resentation and service Loop supervision to support, or see transitionee to, MVS and SEDS, as defined under Service Loop Agreements that articulate requirements and deliverables. NWS and NMS signed a Memorandum of Understanding (MOU) establishing a new/improved framework for the NVS Climate Services Program and OAC Climate Program Office (CPO) to advance end-to-end climate services – research, transition, and operational delivery (R2D).
Weather forecasting & climate predictions	Environmental	Climate: Inform & Support		products Complete an analysis of the CVP-funded projects that describe the scientific advancements in understanding of tropical convection, the coupled ocean- atmosphere-land-ice system; and persistent model biases (e.g., DYNANO, AMOC, and Pacific Ocean Biases).				0 0	0 0	•	• •	• •		•		0 0		8			• •		• •		_ cro	Sandy Lucas	Wayne Higgins			
Weather forecasting & climate predictions	Environmental info	Climate: Predictions		Hold three FY18 competitions to advance NOAK's Earth System models, data assimilation, and Subseasonal to Seasonal (S2S) prediction capabilities for the CPO/Modelling, Analysis, Predictions and Projections Program				• •	• •	•	•	• •		•				8			•		• •		_ CPO	Annarita Mariotti/Jin Huang	Wayne Higgins			CPO's external grant programs, including funding opportunities address key information needs related to climate reaserch, modeling, and the impacts of climate danage on communities, informatruture, and economies. This competition is focusion domaling, predictions, and projections in the areas of NDAA's Earth System models, data assimilation and SIS prediction capabilities.

	ual Operat	ing Plan													-																
OAR Corporate Priorities	OAR Corporate Priorities	OAR Strategic Plan	Perfi (NOTE: Do not report Measure of	ormance r Milestone Targets in the same row)			Veather					_			(NOTE: Do not report Measure		Targets									PR	MARY RESPONSI	IBILITY	_		
Primary Please use the pull-down menu to select the objective	Secondary (if applicable) Please use the pull-down men to select the objective	Please use the pull-down menu to select the objective	Measure (The monitoring of ongoing progress toward pre- established goals.)	Milestone (A distinct activity planned for completion on a scheduled date)	Quarterly e J	s ch bo mi mi is Across Years	Please heck the treasure/ ilestone ilinked.	0 11 12	Actuals	15 16	17 1	18 18 21 Q1	Why was the target missed? When will the target be completed? What is the risk of missing the target?	18 Q2	Actual Why was the target missed? When will the target be completed? What is the risk of missing the target?		18 Q3	Why was the target missed? When will the target be completed? What is the risk of missing the target?	18 Q4	Actual 18 Q4	Why was the target missed? When will the target be completed? What is the risk of missing the target?	FY-19 Ta 19 19 Q1 Q2		Future F	11 22 23	Unit within LO/SO	Point of Conta	ct Responsibl SES	NOAA egion (if applicable)	Ci Partner (if applicable)	PERFORMANCE MEASURE and INLESTONE DESCRIPTIONS
Workforce	Program Mgm			No less than 85% of CPO mission-critical positions covered by CPO Workforce Plan.						0 0	•			0	0	•	0		2			• •		00		CPO	Ben DeAngelo	Wayne Higgins			This is an SES-required milectore. The Clinical Program Office (CPO) will improve its Workbors Plan to pursue 100% of mission-mitcal acauscies are filled, plended, and consistent with OAM posit and plontelles. Massion utilized pacistorias are lowed immust fail fille and for the algorithm. The other mission core mission. CPO could not achieve its mission without all of its employees.
Environmental info	Long-term obs	Climate: Inform & Support		Complete the Annual (2017) State of the Climate Report			•			0 0	<b>2</b> (	•		0	0		0					• •	0 0			CPO	David Legler	Wayne Higgins			OPO directly supports the development and production of the IMME Scate of the Climate Report. Doesn, amorphetic, and ecosystem data and products supported by CPO and OAR are analyzed, assessed, and contributed to the Report.
Program Mgmt	Environmental info			Property is accounted for as evidenced by a reported inventory accuracy rate of at least 85-95% with no more than 5% of accountable property designated as not found or missing.						0 0				0	0	•	•					0 0	0 0	0 0 0		CPO	Eric Locklear	Wayne Higgins			
Environmental in	Partnerships & Cooperative agreements	Stakeholder: Communicating science		Support select school districts' implementation of the climate-related new science education standards in FY18 by leveraging the educational investments' in the CLEAN collection, Climate.gov, and related partner projects.			•			0 0	•	•		0	0		0					• •	0 0	• • •		CPO	Frank Niepold	Wayne Higgins		Cooperative Institute for Research in Environmental Sciences (CIRES)	The Clineta Literacy and Farery Awareness Network (LCAR) Portal was bunched in 2020 as a National Genera Digital Literacy (NGD) Allwhaves providential in the dyna clineta enducions expertise of THES, the Cooperative institutes for Research in Environmental Science (CRES) at the University of Colorada Been syndicated to MAX's clinest approximation. ICARN's primary effect to a National Network of Committee In Simple clines and environmental Science (SRES) and the Simple Colorada committee In Simple clinest enducing Reserve.
Partnerships & Cooperative agreements	Environmentai info	Climate: Inform & Support		Plan and execute the first Global Heat Health Information Network (GHIH) Forum in partnership with the Global Framework for Climate Services (GFCS).			•			0 0	•			•	0		•		8	· 🛛 👌	GHHIN Forum scheduled for Dec 17-20, 2018 (Q1 FY19) in Hong Kong. We had to push the date to December at the request of our local hosts and some of our key participants.	• •				CPO	Juli Trtanj	Wayne Higgins			The Global Heat Health Information Network (GHHH) is an Independent, voluting, member driven forum of scientific, professionali, and polytamiaer flocated on thermicing and multiphysic global & local service, and resilience building for hant health. GHHH seeks to be a catalog, thoresidege breaks with the service of the service of the service of the VMD (EEC) service information and services in support of decision-making is climate sensible extense.
Weather forecasting & climate predictions	Partnerships & Cooperative agreements	Climate: State of system		Plan and execute the biennial North American Drought Monitor (NADM) Forum with the North American Climate Services Partnership (NACSP) for a joint meeting in 2018.			•			0 0	•	•		•	D		•		23	2		• •				CPO	Meredith Mut	h Wayne Higgins			The North America Drought Monton (NUAM) is a cospective effort between drought experts in Cauda, Nexce and the United Status to monitor derived arcsis the content or an enging basis. The MAM is based on the highly accessful U.S. Drought Montor (USMA), and a run, is being developed to protein Autor and the highly accessful U.S. Drought Montor (USMA), and a run, is being developed to protein Autor and the highly accessful U.S. Drought Montor (USMA), and a run, is being developed to protein Autor and the highly accessful U.S. Drought Montor (USMA), and a run, is being developed to protein Autor and the highly accessful U.S. Drought Montor (USMA), and a run, is being developed to protein the status and the status of another bases the U.S. Montor of Landa. The status of an additional to respond to an increasing demand for accessful and there scientific data and information or event to make intermed accessions and there calculate and thermations and the make intermed accessions and there calculate and the science in accessful
Long-term obs	Environmentai info	Climate: Inform & Support		Complete an assessment of methane emissions data collected from U.S. oil and gas production.			•			0 0	•			•	D		•		8	2		0 0	0 0			CPO	Monika Kopac	z Wayne Higgins			AC4 has funded an Academy report that addresses the topic of nethana emissions which is due to be published in the spread of 2018. AC4 focus on quarkitying emission of greenhous gase, associal, and their percursors, as well as their atmospheric impacts from several table plays. In the past several ware, AC4 has fund enumerous paylesc structured on oil B gas emission, complementary to company InDAV/EMB, afters in quantifying emissions from oil B gas estruction across the Nation, and their impacts on all quality and climate.
				Inform and expand partnerships (add 2 new partners outside of NOAA) of the Water Resources Dashboard through SARP-sponsored decision support research and activities.			0			0 0	•	•		•	D		0		2			0 0	0 0	0 0 0	0 0 0		Nancy Beller- Simms				Water recovery managers and utilized planners can use this databased to access maps and data that helps here monitor the presential for activities protections and dought in their regions. The Verte Resources Databased pages 6 signamic; this coope and content of clastibased entries are driven by input from users. P135 SAM Program Manager stateded the American Planning Accountion Water and Planning Summit as well as their Dought Summit and attended their UBIty Clinate Allocator training. Meetings and beins their 000 for 91% with mere partners: FMAL (Fils as and soveral MoDia).
Weather forecasting & climate- predictions	Environmental info	Stakeholder- Communicating- science		Issue-the Climate Program Office 2017- Annual Report-			•			0 0				•	NA CPO decided not to produce this report any more.											699	David Herring	Wayne- Higgins			This report-will give an overview of GPO's achievements in FY67+
Social & Behavioral research	Environmenta info	Climate: Inform & Support	Percentage improvement in the Quality of Relationship between engagament personnel and the public they serve. [This is a blennial measure]					IA NA O	10 76.4	NA (de lay ed)	77.5 N	ia na	This is a biennial measure. FY19 will be the next year it is measured and reported.	NA	NA	NA	NA		NA			0 0	0 NA	81 A 8	83 N 85	CPO	David Herring	8 Wayne Higgins			The back way for a failed uncover and services ageing transitionated in publics, and to factable their obsertanding and our of the products and encores, to be list and marinami realized. The Quark public failable (Quark) instrument measure, and is compliated (the blowing) for elements; assume, the Quark public observation of the product and encores, and is compliated (the blowing) for elements; assume of the Quark public observation of th
Long-term obs	Environmental info	Climate: State of system	Reduced error in Global Measurement of Sac Surface Temperature (Dagree Caldus (PC)) to improve understanding of the environment.				_ a.	.5 0.5 0.5	5 0.66 0.63	0.52 0.48	0.	50 See explan ation	Huai-min Zhang/NCE: Due to the data ingest and switch issues mentioned earlier, we decomprohy putting bull ST and ecomprohy putting bull combined data stream is formed and stabilized, and using a revanjeed/improved ST M4 as coefficient of the attached fr18 Work Flat. Due attabilities gain (cr10 CD, but a may extended to Q3.	0.50	Huai-min Zhang/MCIL Our progress is very good to fur- tive as non-able to logist and WOS SUPIC OT Salar arraws, and working on output the data in COMPS Searching output the searching of the searching for the searching of the searching of the searching of the searching of the current identification of the searching of the searching of the reference of the searching of the search		See explan ation	Huai-min Zhang/NCEI: The drifter recovery from BUBF is researched, implemented act non- We are working on mover A buoys and ships now. A say person is on leave in summer and will be back in that August, and hope we can make more rupid progress then.	0.50	See in the second secon	In GN NCI continued to making manage of progress on neuroning making BUPK data and serving making bupk data and serving making of priority that the service respective to the service of the service respective to the service of the service maked and service the service of the aurority additional delay, BUPK to aurority additional d	0 0	0 0.50 ;	1.500.50 0	15 0.5 0.5	670	David Legter	Wayne Higgins			This results is introduced to decorrent programs in successful pre-scaling the global ase and the approximating (DT) using is this diffinit boxes to wrigh that statistic SST data are accurate and approximating. This effects how improvements in accurate documents of all accurate to uncertainty in successful and the scale of the scale the scale and the scale of the scale of the scale of the scale accurate pre-scale accurate to the scale of the scale of the scale of the scale of the scale to the scale of the scale the scale scale. The scale scale is the scale accurate the scale scale of the scale the scale scale scale is the scale accurate the scale scale scale of the scale the scale scale. The scale scale scale scale scale scale scale scale scale is the scale scale scale as an abulance of the effect scale scale of the scale
Environmental in	Partnerships & Cooperative agreements	Stakeholder: Communicating science	10% growth in number of visits to Water Resources Dashboard over previous year. [Note: FY18 is the baseline year for this measure.]			8													10%	Baselin e year.	Y18 is the first year for this neasure therefore it is a baseline ear. According to website data malytics, the total number of page iews for FY18 is 1800.		10%	10%10%11	0%10%10%	CPO	Nancy Beller- Simms	- Wayne Higgins			This performance measure will show the ongoing increase in the number of unique visits per month to the Water Resources Dashboard. It indicates the growing value in terms of the number of new people accessing the water resources information and tools on the website.
Environmental info	Weather forecasting & climate predictions	Climate: Variability	Annual number of Climate Program Office peer-reviewed publications advancing climate understanding, predictions, and delivery of information to communities.		D	2				747 847	1016								700	See C	These take time for the individual PO Divisions and Programs to ompile therefore we won't have esuits until at least mid- lovember.		500	500 500 5	00 500 500	CPO	Neil Christerso	m Wayne Higgins			This measure tracks the results of the many CPO awards as reflected in publications that result from those awards, thus advancing the science and development in CPO's priority areas.

FY19 CI	PO Annu	al Operat	ting Plan																					
Milest		IF Measure, which type?										Pe	erformance Targets and Actuals	-				-					Primary Res	ponsibility
iviea	surer		Performance Measure or Milestone	Description		9 Q1		9 Q2	FY-1	-			FY-19 Q4 Why was the target missed?			erly Target FY-20		-	1		Targets		Point of Contact	
Milestone [1]	Measure [2]	Cumulative Across Years			Target	Actual	Target	Actual	Target	Actual	Target	Actual	When will the target be completed? What is the risk of missing the target?	Q1	Q2	Q3	Q4	FY-21	FY-22	FY-23	FY-24	FY-25	Point of Contact	Responsible SES
			Complete the 2018 State of the Climate Report	CPO directly supports the development and production of the BAMS State of the Climate Report. Oceanic, atmospheric, and ecosystem data and products supported by CPO and OAR are analyzed, assessed and contributed to the Report.																			David Herring	Wayne Higgins
			Organize and implement a network-wide RISA investigators meeting	This milestone will foster greater collaboration across the 11 RISA teams spread out across the U.S. as well as ensure discussions of current and future priorities for NOAA, the RISA teams, and our partners.									RISA meeting was held Sept 18-20 (Q4), hosted by the Pacific RISA in Honolulu, HI. Planning and logistics were largely completed in Q3, however the shutdown delayed several key activities, including securing the venue.										Caitlin Simpson	Wayne Higgins
			Expand NOAA Water Resources Dashboard to also target small and mid-sized water utilities and communities, as identified in a recent Dashboard user needs assessment	This expanded role was identified during a recent Dashboard user needs assessment and reflects growing value of the Dashboard to new and different types of users nationwide.							N												Nancy Beller Sims	Wayne Higgins
			Increase use and understanding of climate information for inclusion in short and long-term municipal planning.	Results from studies will document thresholds associated with climate extremes in the municipal water resources sector (Shulski) and identify means for integrating climate change data into local plans to address increased extreme, high-precipitation events causing increased urban and riverine flooding (Schwab).							M												Nancy Beller Sims	Wayne Higgins
			Fund cross- COCA and SARP grants to support water resource challenges within the coastal zone.	Results will include development of a community of practice with new PIs and relevant NOAA participants (e.g., NWS and Sea Grant).																			nne Antoine and Nancy Beller	Wayne Higgins
			Development of a preliminary global Chikungunya Risk Forecast for use in the security sector	Chikungunya is an emerging and re-emerging vector-borne disease that poses risk to civilian populations in endemic regions and to deployed Department of Defense (DoD) personnel and US citizens who travel outside of the US. This forecast product will be integrated into an existing app utilized by agencies in the defense sectors called CHIKRS App.					N	M	M		This was a 2 year project supported with FY18 funds. Preliminary forecast has been developed and will be presented in a seminar at NOAA on October 2, 2019. Project will continue into FY20.										Lisa Vaughan	Wayne Higgins
			Hold ESSM Council Meeting to bring together key CPO partners and stakeholder (internal and external to NOAA) to discuss science priorities and partnership strategies.	The meeting report will inform CPO's strategic direction, particularly the ESSM's research priorities and partnership strategies over the next 1-5 years; Participants will produce a set of potential topics for joint research initiatives with multiple partners (including other programs, labs, Cooperative Institutes, etc.) to leverage capabilities and strengths, and address research eans																		0	Jin Huang	Wayne Higgins
			The MAPP S2S Prediction Task Force organizes an AGU's Journal of Geophysical Research. Atmospheres and Geophysical Research Letters special collection titled "Bridging Weather and Climate: Subseasonal-to-Seasonal (S2S) Prediction and publish key manuscripts reflective of research area leadership based on previously funded research	This special collection helps bring together the broad community performing 525 R&D to share their work and accomplishments in furthering understanding of sources of predictability and utility of various forecast systems. The papers in this special collection serve as a metric of program success and milestone for 525 science.							V											_	Annarita Mariotti	Wayne Higgins
			A meeting report synthesizing outcomes from the first ever NOAA General Modeling Meeting and Fair, for which MAPP staff was the leading organizer as part of NOAA's Unified Modeling Committee	bring together the disparate modeling activities happening across NOAA to share best practices and seek collaborations. A report describing the organization of and outcomes from the meeting will be published.																			Annarita Mariotti	Wayne Higgins
			Complete key synthesis paper outlining climate factors affecting future conditions for living marine resources and coastal sea level of great interest to NMFS and NOS (Marine Task Force)	MAPP's Marine Prediction Task Force is working on synthesis papers to share a coordinated sense of the predictability sources available for prediction of marine ecosystems and coastal high water levels, as well as observational needs for monitoring of these systems and improved understanding.																			Annarita Mariotti	Wayne Higgins
			Conduct FIREX Field Campaign	Final phase of FIREX encompassing the aircraft and ground program will be undertaken, leading to quantification of emissions for western wildfires and their impact.							M												Monika Kopacz	Wayne Higgins
			Completion, public release of, and coordination around NCA4	The National Climate Assessment is a Congressionally-mandated report required to be produced every four years and provides a national assessment of the climate science and the impacts of climate change and variability on the U.S.																			Dan Barrie	Wayne Higgins
			Plan and Execute Global Heat Health Information Network Forum	The forum is intended to engage the global heat health community to identify critical research and operational needs																			Juli Trtanj	Wayne Higgins
			Process 100% of CPO grants by Q3	Processing CPO grants by June 30 is critical to meeting NOAA grants deadlines and supporting CPO's research and development areas.						M													Orlando Epps	Wayne Higgins
			Execute CPO FY19 staffing plan																				Orlando Epps	Wayne Higgins
			Update and finalize CPO Strategic Vision																				Orlando Epps	Wayne Higgins
			Complete Climate and Global Change Post Doc Program Review (UCAR) (Q1)	The purpose of the program is to cultivate and train the next generation of climate researchers to deal with the copious amounts of data gathered by NOAA and other agencies and address global issues. This program has a demonstrably high return on investment; program alumni have become leaders in the field of climate science at NOAA, other government agencies, and academia.																			Dan Barrie	Wayne Higgins
			Represent U.S. positions on the reform process for the Global Framework for Climate Services (GFCS) at the Intergovernmental Board on Climate Services (IBCS) Management Committee Meeting (Q1), and WMO Congress (Q3)																	0		0	Meredith Muth	Wayne Higgins

	Complete the CPO FY19 Federal Funding Opportunity (FFO)	CPO's external grant programs, including funding opportunities, address key information needs related to climate research, modeling, and the impacts of climate change on communities, infrastructure, and economies.																		Paul Hirschberg	Wayne Higgins
	Lead CPO, OAR, NOAA and interagency contributions to 1-2 AMAP assessments and work products	This milestone reflects CPO's role in international collaboration pertaining to management of the Arctic region. AMAP is one of 6 working around under the Arctic Council, of which the UK is a							Ŋ	N										Ben DeAngelo	Wayne Higgins
	Co-chair the NOAA Education Council's Education for Community Resilience Community of Practice with the NOAA Education Community, partners and grantees to identify and share effective education practices that support resilience and support transfer amongst NOAA and partners.								N	V										Frank Niepold	Wayne Higgins
	Percentage growth in number of visits to Water Resources Dashboard over previous year	This performance measure will show the ongoing increase in the number of nuingue visits per momit to the Water Resources Dashboard. It indicates the growing value in terms of the number of new people accessing the water resources information and tools on the website. In addition, there will be an effort to include small and mid-sized water communities in a revised version of the Dashboard							5%	-27.40%	This number reflects the lack of new information added to the Dashboard in FY19. However, the site continued to receive over 100 views per month during this time, which indicates that it is still a valuable resource. We expect that this number will rise significantly as resources are added in FY20.									Nancy Beller Sims	Wayne Higgins
	Number of states, and territories working with the National Integrated Drought Information System (NIDIS) to incorporte drought early warning Information into their drought adaptation and mitigation planning.	The performance measure is based on the number of states and territories that partner with NUDS to incorporate drought early warning information into their drought planning activities. Activities that count toward this measure include: local or regional drought planning/management groups; use of tailored information from the U.S. Drought Portal to establish drought indicators and set management triggers in state and territory drought adaptation and mitigation plans; and incorporation of information from basin-specific drought monitons developed through the drought early warning information systems into either state and territory drought adaptation and mitigation plans or as part of state and territory drought planning and management groups.	-	-	-	-	-	-	39	40		-	-	-	40	40	40 40	40	40	Veva Deheza	Wayne Higgins
	Number of experimental heat products on NIHHIS website	The NIHHIS Website will be used to test and secure feedback on experimental heat products and information	-	-	-	-	1	1	1	1		-		-	-	-		-		Juli Trtanj	Wayne Higgins
	Percentage growth per year in number of visits to the Climate Resilience Toolkit over previous year.	This performance measure will show the ongoing increase in the number of unique visits per month to the Climate Resilience Toolkit website. It indicates the growing value in terms of the number of new people accessing the information and tools on the website.	-	-	-	-	-	-	5%	35%	Over its 5-year history (FY15-FY19), the U.S. Climate Resilience Toolkit averaged 35% annual growth in visits. The target annual growth rate was 10%.	-	-	-	0.05	0.05 0	0.05 0.05	5 0.05	0.05	David Herring	Wayne Higgins
	Percentage growth per year in number of visits to NOAA Climate.gov Portal over previous year.	number of unique visits per month to the Portal. It indicates the growing value in terms of the number of new people accessing the information and tools on the website.	-	-	-	-	-	-	5%	51%	Over its 10-year history (FY10-FY19), NOAA Climate.gov averaged 51% annual growth in visits. The target annual growth rate was 10%.	-	-	-	0.05	0.05 0	1.05 0.05	5 0.05	0.05	David Herring	Wayne Higgins
	Annual number of new research awards to improve climate understanding, prediction, and information.	CPO's external grant programs, including funding opportunities address key information needs related to climate research, modeling, and the impacts of climate change on communities, infrastructure, and economies.	-	-	-	-	-	-	50	83		-	-	-	50	50	50 50	50	50	Neil Christerson	Wayne Higgins
	Annual number of Climate Program Office peer- reviewed publications advancing climate understanding, predictions, and delivery of information to communities.	This measure tracks the results of the many CPO awards as reflected in publications that result from those awards, thus advancing the science and development in CPO's priority areas. In FY19 this will not include OOMD (GOMO).	-	-	-	-	-	-	500	550		-	-	-	500	500 5	500 500	500	500	Neil Christerson	Wayne Higgins
	Number of assessment reports or integrated plans developed or implemented across NOAA programs to enhance NOAA climate services.	This performance measure shows CPO's major contributions to and completion of assessments and demonstrates the role of formal published climate change assessments in decisions to address climate change impacts. Business, government, and the public use these assessments to improve their climate understanding, decision making and resilience. [Northern Plains Drought Assessment,	-	-	-	-	-	-	4	5		-	-	-	4	4	4 4	4	4	Ben DeAngelo	Wayne Higgins
	Annual number of advances in climate and weather research and information products transitioned to a new stage (development, demonstration, or application) to improve earth system understanding and provide information to private and public sectors.	CPO supports research and development projects within NOAA and with external partners to be transitioned to operations and applications to advance NOAA* mission areas and reduce adverse effects of environmental events on people and property. Note: Due to transition of \$25 and Obs, CPO target for R2x transitions was reduced from 10 to 6.	-	-	-	-	-	-	6	6		-	-	-	7	7	7 7	7	7	Neil Christerson	Wayne Higgins

FY20 CPO Annual Operating Plan Milestones																		
	What performance measure		Марр	ping							Current Yea	r Reportin	g					
Milestone	does this contribute to, if any?	OAR Strategic Goals	NOAA level AOP	O&M action	Lab / Program Review action	Target	Actual	FY-20 Q1 Why was the target missed? When will the target be completed? What is the risk of missing the target?	Target	Actual	FY-20 Q2 Why was the target missed? When will the target be completed? What is the risk of missing the target?	Target	Actual	FY-20 Q3 Why was the target missed? When will the target be completed? What is the risk of missing the target?	Target	Actual	FY-20 Q4 Why was the target missed? When will the target be completed? What is the risk of missing the target?	Point of Contact
Process 100% of CPO grants by Q3												x	x					Orlando Epps
Launch version 3.0 of the Climate Explorer to include the following new features: (1) Redesigned user interface to improve site navigation and usability, based on user feedback; (2) Extended geographical coverage to include AK, HI, and U.S. island territories; and (3) Reproduce all image maps to remove artifacts.															x	x		David Herring
Expand the Urban Heat Island mapping campaign to ten new cities in 2019, and characterize the potential to double that number of campaigns in 2020.		Make Forecasts Better							x	x								David Herring
Launch version 3.0 of NOAA Climate.gov to include the following new features: (1) Redesigned user interface to improve site navigation and usability, including mobile responsiveness; (2) Better integration of similar content from across the site's three different audience-focused sections; (3) Upgraded content management system from Drupal 7 to Drupal 8; (4) Implement robust new semantic search utility; and (5) migrate site from server at NCEI to new cloud platform at USDA.															x	×*	This milestone is complete with the exception of the upgrade from Drupal 7 to 8. There are major technical issues with D8 that block our forward progress. Thus, we finally decided to leapfrog D8 and proceed to using Drupal 9. Also, there have been technical challenges at the WOC. We're on target to roll out by end of Q4, but we could slip a few weeks into Q1 of FY21.	David Herring
Launch 4 international research consortia focused on climate and health in partnership with the National Science Foundation, and 12 other countries		Drive Innovative Science													x	x		Claudia Nierenberg
Complete 3 regional convening/coordination activities to advance NOAA's science, service and stewardship in the context of planning, preparedness and adaptation															x	x		Caitlin Simpson
Establish community of practice around economic impact of water resource challenges within the coastal zone.															x	x		Nancy Beller-Sims
Develop handbook of methods to increase inclusion of climate risk information in short and long-term municipal planning.															x	x		Nancy Beller-Sims
Execute CPO FY20 staffing plan															x	x		Orlando Epps
Complete the CPO FY21 Notice of Funding Opportunity (NOFO)		Drive Innovative Science										x	x					Paul Hirschberg
CPO staff FY20 performance plans incorporate one or more milestones which directly support new CPO focus areas through resource allocation.												x	x					Ben DeAngelo
Establish partnership framework with the new USGCRP Integrated Water Cycle Group that expects to: enhance predictive understanding of the global water cycle, advance understanding of land surface hydrology, and translate water cycle science information to be more responsive to user needs [Joint milestone with the FY20 AOP for Water].									x	x								Wayne Higgins
Complete a Climate and Fisheries Management White Paper and deliver to WWCB									x	x								Wayne Higgins
Host NOAA Climate Connections Event						x	x											David Herring
Strengthen language in NOFO to facilitate more robust Diversity and Inclusion outcomes, including efforts to quantify impacts		Drive Innovative Science										x	x					Paul Hirschberg
Complete the inclusion of coastal wetlands in the Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2017												x	x					Ben DeAngelo
Lead CPO, OAR, NOAA and interagency contributions to 1-2 AMAP assessments and work products															x	x		Ben DeAngelo
Complete development of Pilot Collaboration Proposals addressing the four initial climate risk areas: Extreme Heat, Coastal Inundation, Marine Ecosystems and Water Resources									x	x								Paul Hirschberg
Begin execution of climate risk area proposals															х	x		
As part of the CO2 Urban Synthesis and Analysis ("CO2-USA") Network project: 1. Hold the third of three workshops focusing on data harmonization & integration 2. Develop estimate of carbon emissions in different U.S. cities 3. Develop and disseminate and archive anthropogenic and biospheric flux inventories															x	x		Ken Mooney
Complete field phase of FIREX-AQ: collect data, hold data workshop, present, publish and transition first results															x	x		Ken Mooney
Validate SNPP/NOAA-20 CrIS satellite instrument carbon monoxide (CO) product for use in accurate tracking of air pollution and air quality forecast verification															x	x		Monika Kopacz
Establish an OAR-NESDIS/STAR Atmospheric Composition from Space Working Group (ACS WG) to coordinate the development and production of new trace gas products from NOAA operational satellites						x	x											Monika Kopacz
Transition STILT model features into HYSPLIT (Need to define for non- AC4 personnel; If transition, add to R2X)									x	x								Ken Mooney

FY20 CPO Annual Operating Plan Milestones																		
			Мар	ping							Current Yea	r Reportin	g					
Milestone	What performance measure does this contribute to, if							FY-20 Q1			FY-20 Q2			FY-20 Q3			FY-20 Q4	Point of Contact
	any?	OAR Strategic Goals	NOAA level AOP	O&M action	Lab / Program Review action	Target	Actual	Why was the target missed? When will the target be completed? What is the risk of missing the target?	Target	Actual	Why was the target missed? When will the target be completed? What is the risk of missing the target?	Target	Actual	Why was the target missed? When will the target be completed? What is the risk of missing the target?	Target	Actual	Why was the target missed? When will the target be completed? What is the risk of missing the target?	Point of contact
Develop formaldehyde (HCHO) product from NOAA-20 satellite's OMPS nstrument, an experimental trace gas product that could be ransitioned to operations by NESDIS in the future, and used as a proxy or reactive chemistry and aerosol formation in the atmosphere															x	x		Monika Kopacz
Implement process for NOAA's role in NCA5															x	x		Dan Barrie
Complete State of the Climate Report for 2019															x	x		
Marine Prediction Task Force research results in a forecast framework to test outcomes from research project advances. This will inform the development of NMFS and NOS predictions.															x	x		Dan Barrie
Model Diagnostics Task Force transitions leadership, development, and coordination of software package from NCAR to GFDL, increasing NOAA ownership and use of the diagnostics and derivative software.															x	x		Dan Barrie
Principal investigators publish special collection based on MAPP-funded research, which advances S2S predictability and prediction methodologies															x	x		Annarita Mariotti
Principal investigators collect observations of air-sea interactions during the intensive observation period (IOP) of the ATOMIC field campaign. (06 January to 15 February, 2020)		Make Forecasts Better							x	x								Sandy Lucas
Hold quarterly meetings of the CVP-TPOS Pre-Field Modeling Studies principal investigators to ensure the development of coordinated activities in support of TPOS process studies		Drive Innovative Science													x	x		Sandy Lucas
Fund research projects that will generate 7 or more observation- modeling collaborations to advance model improvement, development, and validation (initiate new research program that links obs to modeling)															x	x		Ginny Selz
Provide report from program review panel that evaluates last 5 years of program and provides recommendations on areas of opportunity for advancement in future															x	x		Ginny Selz
Hold annual ESSM Community Workshop and Council Meeting to discuss "Earth System Science Research to Enhance Resilience to Extreme Heat" by bringing together key CPO partners and stakeholder (internal and external to NOAA).						x	x											Jin Huang
Develop strategy for National Soil Moisture Monitoring Network		Make Forecasts Better													x	x		Veva Deheza
Hold NOAA One Health workshop to develop strategy for future heat health activites.		Make Forecasts Better													x		This workshop has been postponed until fall 2020 due to COVID19 and will be held virtually. Date is TBD.	Juli Trtanj
Deliver six regional decision support water workshops		Make Forecasts Better													х	x		Nancy Beller-Simms
Expand NOAA Water Resources Dashboard to also target small and mid-sized water utilities and communities, as identified in a recent Dashboard user needs assessment and results from utility meetings also in FY2020															x	x		Nancy Beller-Simms
Develop NWM-based drought monitor product for CONUS															х	х		Veva Deheza
Expand impact of Water Resources Dashboard through results of workshops															x	x		Nancy Beller-Simms
Develop and implement OAR component to the William M Lapenta NWS Student Internship Program to host 4 students in OAR programs/labs												x	x					Wayne Higgins

FY20 CPO Annual Operation				C	ront Veer P	oporting						
				Cur	rent Year R		-	Future	Annual	Target	s	
Performance Measure	Description	FY-2	0 Q3			FY-20 Q4				<u> </u>		Point of Contac
		Target	Actual	Target	Actual	Why was the target missed? When will the target be completed? What is the risk of missing the target?	FY-21	FY-22	FY-23	FY-24	FY-25	
nnual number of CPO peer reviewed publications	The annual number of peer reviewed publications is an indicator of productivity and relevance and is tracked using on- line resources. Peer review is one of the important procedures used to ensure that the quality of published information meets the standards of the scientific and technical community.			500	600		500	500	500	500	500	Neil Christerson
A2A Index: Annual number of advances in limate and weather research and nformation products transitioned to a new stage (development, demonstration, or application) to improve earth system understanding and provide information to private and public sectors.	CPO supports research and development projects within NOAA and with external partners to be transitioned to operations and applications to advance NOAA's mission areas and reduce adverse effects of environmental events on people and property.	0	0	7	7		7	7	7	7	7	Neil Christerson
Number of states, and territories working with the National Integrated Drought nformation System (NIDIS) to incorporate drought early warning information into their plans	The performance measure is based on the number of states and territories that partner with NIDIS to incorporate drought early warning information into their drought planning activities. Activities that count toward this measure include: local or regional drought planning/management groups; use of tailored information from the U.S. Drought Portal to establish drought indicators and set management triggers in state and territory drought adaptation and mitigation plans; and incorporation of information from basin-specific drought monitors developed through the drought early warning information systems into either state and territory drought adaptation and mitigation plans or as part of state and territory drought planning and management groups.			40	40		40	40	40	40	40	Veva Deheza
ncrease NOAA Climate.gov content views by % over previous year.	We will aggregate the number of times Climate.gov-produced content is viewed across all our publicly accessible platforms to produce an aggregate metric of monthly views each quarter. In addition to individual page views on Climate.gov web pages, we will also count page views of "spin-off" products such as CLEAN, Climate Explorer, Esri Story Maps, and newsletters. We will also count Social Media Views (Twitter, Facebook, Instagram) and the number of visits to Wikipedia pages where we have placed Climate.gov visualizations. We will compile counts of views from FY19 to serve as our new baseline, and we'll produce quarterly reports of our performance compared our target (5% growth over baseline) in FY20.			5%	8%		5%	5%	5%	5%	5%	David Herring
nnual number of new research awards to nprove understanding	CPO's external grant programs, including funding opportunities address key information needs related to climate research, modeling, and the impacts of climate change on communities, infrastructure, and economies.			50	105		50	50	50	50	50	Neil Christerson
umber of assessment reports developed or nplemented	This performance measure shows CPO's major contributions to and completion of assessments and demonstrates the role of formal published climate change assessments in decisions to address climate change impacts Business, government, and the public use these assessments to improve their climate understanding, decision making and resilience. [Northern Plains Drought Assessment,			4	4		4	4	4	4	4	Ben DeAngelo

FY21 CPO Annual Operating Plan Milestones																	
			Марр	oing				-			Cu	rrent Year F	eporting				
Milestone	What performance measure does this contribute to, if					FY-2	21 Q1			FY-21 Q2			FY-21 Q3			FY-21 Q4	Point of Contact
Winescone	any?	OAR Strategic Goals	NOAA level AOP	O&M action	Lab / Program Review action	Target	Actual	Target	Actual	Why was the target missed? When will the target be completed? What is the risk of missing the target?	Target	Actual	Why was the target missed? When will the target be completed? What is the risk of missing the target?	Target	Actual	Why was the target missed? When will the target be completed? What is the risk of missing the target?	Point of contact
Process 100% of CPO grants by Q3	Annual number of new research awards to improve climate understanding, prediction, and information.	Drive Innovative Science									x	x					Orlando Epps
Execute CPO FY21 staffing plan and develop CPO FY22 staffing plan														x	x		Orlando Epps
Complete the CPO FY22 Notice of Federal Funding Opportunity (NOFO)	Annual number of new research awards to improve climate understanding, prediction, and information.	Drive Innovative Science									x	x					Paul Hirschberg
Expand William M Lapenta Internship to all OAR labs and programs	Support students at all levels and early career professionals to grow the next generation of scientists													x	x		Wayne Higgins
Create developmental opportunity for at least one student in NCAS-M to engage in OAR research	Support students at all levels and early career professionals to grow the next generation of scientists					x	x										Wayne Higgins
Develop plan based on CPO OHCA to address (i) intraoffice communication issues and (ii) diversity, equity and inclusion in CPO by leveraging CPO's human capital to reach underserved K12 students						x	x										Wayne Higgins
Complete report on governance structure for conduct of climate intervention studies		Drive Innovative Science						х	x								Ben DeAngelo
Strengthen language in NOFO to facilitate more robust Diversity and Inclusion outcomes, including efforts to quantify impacts; and implement new harassment reporting requirement.	Annual number of new research awards to improve climate understanding, prediction, and information.										x	x					Ben DeAngelo
Complete the CPO components of the Service Level Agreements with NWS and with NESDIS, which supports advances in NOAA climate information, services and products		Detect Changes in the Ocean and Atmosphere												x	x		Paul Hirschberg
Launch comprehensively redesigned U.S. Drought Portal - drought.gov.		Make Forecasts Better				х	x										Veva Deheza
Implement updated 3-year Strategic Action Plans (SAPs) in all 9 NIDIS regional drought early warning systems.		Make Forecasts Better												x	x		Veva Deheza
As part of the Urban Atmosphere priority: 1. Support analysis of COVID lockdown area measurements 2. Develop estimate of pollutant emissions (and their decline) in different U.S. cities 3. Develop, disseminate and archive anthropogenic and biospheric flux inventories		Detect Changes in the Ocean and Atmosphere												x	x		Monika Kopacz
Complete field phase of AEROMMA: collect data, hold data workshop, present, publish and transition first results		Drive Innovative Science									x		This field campaign was postponed to 2023 due to COVID-19				Monika Kopacz
Commence projects analyzing COVID lockdown era (Spring-summer 2020) impacts on the atmosphere across the US		Detect Changes in the Ocean and Atmosphere												x	x		Monika Kopacz
Establish new competitive grants program on earth's radiation budget and climate intervention research	Annual number of new research awards to improve climate understanding, prediction, and information.	Drive Innovative Science						x	x								Jin Huang
Hold NOAA-DOE Precipitation Processes and Predictability Workshop		Make Forecasts Better				х	x										Jin Huang
Convene a Task Force on the topic of climate sensitivity to explore model estimates of climate sensitivity and use model analysis to advance and improve modeling platforms. NOAA will co-lead the Task Force.		Detect Changes in the Ocean and Atmosphere												x	x		Dan Barrie
Organize the fourth Drought Task Force, with NOAA leadership, to serve the science goals of the National Integrated Drought Information System.		Make Forecasts Better												x	x		Dan Barrie
Support 7 observation-modeling collaborations to improve the use of NOAA data in NOAA models		Make Forecasts Better												x	x		Ginny Selz
Complete report on the paleoclimate focus of the program that evaluates last 5 years of COM program's partnership with NESDIS and provides recommendations on areas of opportunity for advancement in future		Drive Innovative Science												x	x		Ginny Selz
Convene Atmospheric Boundary Layer studies principal investigators to ensure that new observational-based datasets, and associated methods are optimal for the NOAA modeling community's use		Detect Changes in the Ocean and Atmosphere												x		The meeting to discuss and optimize datasets and models was deferred to FY22 due to COVID related limitations on travel and on meeting logistics.	Ginny Selz
Support, plan, and execute, in partnership with US CLIVAR, a community-led workshop that focuses on Tropical Pacific observing needs to advance process understanding and representation in coupled models		Make Forecasts Better												x		Postponed indefinitely due to COVID.	Sandy Lucas
Organize and host a series of at least 7 webinars focused on the Years of Maritime Continent Field Campaigns and Modeling Studies.		Drive Innovative Science									х	х					Sandy Lucas
Increase by 25% the number of educational programs and collaborations with existing educational programs that support Climate Resilience efforts in their communities.														x	x		Frank Niepold

FY21 CPO Annual Operating Plan Milestones																	
			Марр	oing							Cui	rrent Year R	eporting				
	What performance measure					FY-2	21 Q1			FY-21 Q2			FY-21 Q3			FY-21 Q4	
Milestone	does this contribute to, if any?	OAR Strategic Goals	NOAA level AOP	O&M action	Lab / Program Review action	Target	Actual	Target	Actual	Why was the target missed? When will the target be completed? What is the risk of missing the target?	Target	Actual	Why was the target missed? When will the target be completed? What is the risk of missing the target?	Target	Actual	Why was the target missed? When will the target be completed? What is the risk of missing the target?	Point of Contact
<ul> <li>Update Climate Explorer with the following new or redesigned features:</li> <li>(1) Add charts for Hawai'i and Island territories so the tool will cover the entire United States.</li> <li>(2) Integrate a new charting package (Plot.ly) to provide interpretive annotations on graphs and maps.</li> <li>(3) Enhance capabilities for users to define &amp; monitor temperature and precipitation thresholds.</li> <li>(4) Add links to at least 4 partner resources to encourage users to use CE information in vulnerability assessments.</li> </ul>	Increase Climate.gov content views by 5% over previous year													x	x		David Herring
Produce and distribute a white paper on aligning federal agencies' programs with the "Steps to Resilience" of the U.S. Climate Resilience Toolkit.	Increase Climate.gov content views by 5% over previous year										x	x					David Herring
Develop and launch a climate action plan for the region surrounding Chicago in collaboration with the Metropolitan Mayors Caucus.														x	х		David Herring
Recompetition and Expansion of RISA network														x	x		Claudia Nierenberg
Complete white paper towards a NOAA national capability for coastal flooding and Inundation information services at climate timescales (supports CI Risk Area)		Detect Changes in the Ocean and Atmosphere												x	x		Paul Hirschberg
Run community science UHI field campaigns in new cities		Detect Changes in the Ocean and Atmosphere												x	x		Juli Trtanj
Hold NIHHIS National Meeting and/or GHHIN Forum (likely a joint event)														х		Postponed indefinitely due to COVID	Juli Trtanj
Hold NOAA One Health workshop to engage partners, WRN and other stakeholders in understanding NOAA capacity and refining future engagements														x		Postponed indefinitely due to COVID	Juli Trtanj
Work with GLISA to plan and implement regional scale modeling workshop		Detect Changes in the Ocean and Atmosphere												x	x		Nancy Beller-Simms
Plan and execute urban climate and health pilot projects in cities with partner organizations														x	х		Hunter Jones
Develop EOI and NOFO for FY22 new competition for urban climate laboratories		Make Forecasts Better									x	х					Hunter Jones
Conduct a workshop with NOAA's Climate Program Office (CPO) to identify areas of cooperation on climate science and tools between ONMS, OAR, and other NOAA labs and programs that produce climate research and tools relevant to sanctuaries (Shared with NOS/Sanctuaries)		Detect Changes in the Ocean and Atmosphere						x	х								Dan Barrie
Assess feasibility and value of a funding opportunity for Sanctuaries-relevant research.	Annual number of new research awards to improve climate understanding, prediction, and information.										x	x					Dan Barrie
Hold workshop to share current research on sea level rise and coastal inundation and discuss opportunities to support Coastal Inundation White Paper		Drive Innovative Science						x		Workshop was not held due to COVID and because of the departure of the CPO lead, Adrienne Antoine. A new lead is now in place (Sandy Lucas). Discussions with NOS to advance Coastal Inundation are continuing. The workshop will be planned for FY22 but significant development will occur by Q4 FY21.							Sandy Lucas
Convene a series (1-3) of listening sessions with key NOAA and external partners in the community, as a first step in the development of a strategic roadmap for the Adaptation Science Program		Drive Innovative Science				x	1				x	x					Adrienne Antoine

FY21 CPO Annual Operati	ng Plan Measures																							
Performance Measure	Description	Mapping						Past Year Actuals		Current Year Reporting								Future Annual Targets						
		DOC SP	NOAA AOP	APPR	С	OAR Strategio Goal			_	FY-21 Q1 FY-21 Q2						FY-21 Q3 Why was the target missed?		Antival	FY-21 Q4 Why was the target missed?	FY-22 FY-23 FY-24 FY-25 FY			-	Point of Contact
							FY-18	FY-19 FY	-20 1	Target A	ctual T	Target	Actual	Target	Actual	When will the target be completed? What is the risk of missing the target?	Target	Actual	When will the target be completed? What is the risk of missing the target?	FY-22	·Y-23 F	Y-24 FY	-25 FY-26	
Annual number of Climate Program Office- supported peer-reviewed publications advancing climate understanding, predictions, and delivery of information to communities.	The annual number of peer reviewed publications is an indicator of productivity and relevance and is tracked using on- line resources. Peer review is one of the important procedures used to ensure that the quality of published information meets the standards of the scientific and technical community.																500	533		500	500 5	500 5	00 500	Neil Christerson
R2A Index: Annual number of advances in climate and weather research and information products transitioned to a new stage (development, demonstration, or application) to improve earth system understanding and provide information to private and public sectors.	CPO supports research and development projects within NOAA and with external partners to be transitioned to operations and applications to advance NOAA's mission areas and reduce adverse effects of environmental events on people and property.																5	5		5	5	5	5 5	Neil Christerson
Number of states, and territories working with the National Integrated Drought Information System (NIDIS) to incorporate drought early warning information into their plans	The performance measure is based on the number of states and territories that partner with NDIS to incorporate drought early warning information into their drought planning activities. Activities that count toward this measure include: local or regional drought planning/management groups; use of tailored information from the U.S. Drought Portal to establish drought indicators and set management triggers in state and territory drought adaptation and mitigation plans; and incorporation of information from basin-specific drought monitors developed through the drought early warning information systems into either state and territory drought adaptation and mitigation plans or as part of state and territory drought planning and management groups.																42	43		42	42	42 4	12 42	Veva Deheza
Increase Climate.gov content views by 5% over previous year	We will aggregate the number of times Climate.gov-produced content is viewed across all our publicly accessible platforms to produce an aggregate metric of monthly views each quarter. In addition to individual page views on Climate.gov web pages, we will also count page views of "spin-off" products such as CLEAN, Climate Explorer, Esri Story Maps, and newsletters. We will also count Social Media Views (Twitter, Facebook, Instagram) and the number of visits to Wikipedia pages where we have placed Climate.gov visualizations.																5%	46%		5%	5%	5% 5	5% 5%	David Herring
Annual number of new research awards to improve climate understanding, prediction, and information.	CPO's external grant programs, including funding opportunities address key information needs related to climate research, modeling, and the impacts of climate change on communities, infrastructure, and economies.																50	79		50	50	50 5	50 50	Neil Christerson
Number of assessment reports or integrated plans developed or implemented across NOAA programs. (e.g. NCA, Arctic Report Card, IPCC, AMAP, SOTC, NIDIS, etc.)	This performance measure shows CPO's major contributions to and completion of assessments and demonstrates the role of formal published climate change assessments in decisions to address climate change impacts . Business, government, and the public use these assessments to improve their climate understanding, decision making and resilience. [Northern Plains Drought Assessment,																4	10		4	4	4	4 4	Ben DeAngelo
	Preparing the next generation of scientists to enter the workforce, either at NOAA or elsewhere in the field, is one of NOAA's most critical, but rewarding endeavors. CPO will contribute to this effort by supporting post-secondary education students through programs such as the Hollings and EPP scholarships, William Lapenta internships, AMS Fellows, SOARS, etc, and support early career professionals through the Climate and Global Change post doctoral program, Knauss Fellowship. and other opportunities.																20	54		20	20	20 2	20 20	Wayne Higgins
Fund at least four new projects from FY21 solicitations that directly advance CPO's Risk Area goals (inundation, marine ecosystems, heat, water resources)																	4	4						Dan Barrie
Number of RISA-informed plans and policies																	11		Need to verify after 10/11 when S. Bath returns	11	11	11 1	11 11	Sean Bath