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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Air Force **Date:** March 2024

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0305111F / <i>Weather Service</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	52.060	26.329	31.372	0.000	31.372	29.699	30.409	32.703	33.352	0.000	235.924
672738: <i>Weather Service</i>	-	52.060	26.329	31.372	0.000	31.372	29.699	30.409	32.703	33.352	0.000	235.924
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

This budget activity funds the operational development necessary to acquire and modernize Air Force Weather Service [AFWS] capabilities in support of the 2022 National Defense Strategy's [NDS] three lines of effort. To improve readiness for a more lethal force, AFWS provides timely, accurate, resilient, and relevant environmental information to enable global battlespace situational awareness for the Air Force [AF], Army, Special Operations Forces [SOF], Space Force [USSF], combatant commands, the Intelligence Community [IC], and other government agencies. AFWS provides climate impacts and assessments, as well as space and terrestrial weather sensing, forecasting, and weather analytic capabilities, at home station and deployed, in order to deliver critical environmental information in support of decision makers to gain the asymmetric advantage during the full spectrum of air and space combat operations. AFWS decreases the risk to mission and risk to force by increasing the lethality, effectiveness, and survivability of Department of Defense [DoD] weapon systems. To strengthen alliances and partnerships, AFWS development efforts integrate DoD, government agency, commercial, and international partner environmental data and software with AFWS information systems for processing, storing, exploiting, and disseminating all-domain weather information for analysis, forecasting, mission integration, and greater interoperability. To ensure greater performance and affordability for the Department of the AF, AFWS sensors and information systems are being modernized through improvements to architecture and system efficiency, cybersecurity, joint all-domain command and control [JADC2] and sensing grid integration, migration to cloud computing, artificial intelligence and machine learning [AI/ML] initiatives, and expanding agile software development, rapid delivery, and integration practices. The AF Weather Enterprise digital transformation and cloud migration effort modernizes key capabilities providing the military advantage to accurately predict environmental impacts optimizing mission planning, targeting, weaponing, mission execution, battle damage assessment, and space systems operations. AFWS aligns activities under four capability areas: Weather Data Collection, Weather Data Analysis and Dissemination, Weather Forecasting, and Product Tailoring/ Warfighter Applications [PTWA]. This alignment ensures an integrated and systems-oriented approach to program management decisions. Of these four capability areas, three (Weather Data Analysis and Dissemination, Weather Forecasting, and PTWA) are addressed by APPN 3600, BA 07, PE 0305111F, Project 672738 - Weather Service. Effective FY 2021, a portion of the APPN 3600 funding and activities from Weather Data Analysis and Dissemination and Weather Forecasting were migrated to the PTWA capability area to better address development of applications, software, command and control [C2] system integration, and web interfaces that directly impact the warfighter within the Weather Application Rapid Production [WARPspeed] program of record. For FY 2021, WDA Increment 5 and WARPspeed programs of record were approved as Software Acquisition Pathway Programs.

1. Weather Data Collection provides automated atmospheric and ground-based space environmental sensing capabilities at fixed and deployed locations worldwide. The data gathered by multiple sensor systems is exploited for environmental battlespace awareness, characterization, safety of flight, resource protection, and satellite anomaly assessments and impacts.

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<p>2. Weather Data Analysis and Dissemination provides a multi-level security classification and cybersecure cloud computing-based platform supporting large-scale environmental data ingest, processing, and product generation, Continuous Integration/Continuous Delivery [CI/CD] and AI/ML environments for AFWS software development and deployment, and machine-to-machine dissemination of specific, mission-tailored weather data on-demand to support warfighter operations, weapon system interoperability, rapidly integrating into C2 nodes, and shortening the Combatant Commander kill chain. The Weather Data Analysis and Dissemination capability area includes activities for Weather Data Analysis Increment 5 [WDA Inc 5].</p> <p>3. Weather Forecasting provides global and regional advanced scientific numerical weather and climate prediction capabilities for automated, high-resolution forecast products supporting mission planning and execution with an emphasis on clouds, theater scale weather, aerosol/chemical constituents, hydrology, machine learning, and space environmental characterization. Weather Forecasting includes activities for Numerical Weather Modeling [NWM] and Space Weather Analysis and Forecast System [SWAFS]. In FY 2023, the SWAFS portion of the APPN 3600 funding and activities from AF PE 0305111F, Weather Service, were transferred to the USSF PE 1203940SF, Space Situational Awareness Operations.</p> <p>4. Product Tailoring Warfighter Applications [PTWA] provides software applications that provide and enhance environmental information to support rapid warfighter decision-making. PTWA includes the program, Weather Applications Rapid Production [WARPspeed], which is a suite of software applications developed and delivered across multiple security classification levels. WARPspeed encompasses weather workflow tools and decision aids used to tailor terrestrial and space environmental information, which include both Forecaster-in-the-Loop [FITL] and automated machine-to-machine processes enhanced by AI/ML. WARPspeed leverages the WDA Inc 5 cloud computing, data processing, and CI/CD and AI/ML platforms to rapidly develop, deliver, and sustain software capabilities, whether deployed into the AF Weather Virtual Private Cloud [AFW-VPC] or to warfighter processing nodes at the edge.</p> <p>Activities include research and analysis to support current program planning. Management Service costs include Federally Funded Research and Development Centers [FFRDC] and Advisory and Assistance Service [A&AS].</p> <p>This program element may include necessary civilian pay expenses required to manage, execute, and deliver Weather Service capability. The use of such program's funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY23 0.042M was expended for civilian pay expenses in this program element, and in FY24 0.290M is forecasted for civilian pay expenses in this program element.</p> <p>This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.</p>		

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B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	11.716	26.329	28.773	0.000	28.773
Current President's Budget	52.060	26.329	31.372	0.000	31.372
Total Adjustments	40.344	0.000	2.599	0.000	2.599
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	31.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	11.241	0.000			
• SBIR/STTR Transfer	-1.897	0.000			
• Other Adjustments	0.000	0.000	2.599	0.000	2.599

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 672738: *Weather Service*

- Congressional Add: *Commercial Weather Data Pilot (CWDP) Program*
- Congressional Add: *Research on Atmospheric Rivers*
- Congressional Add: *Dust Emission Forecasting*
- Congressional Add: *Air Force Weather Transformation*
- Congressional Add: *Machine Learning Weather Forecast*

Congressional Add Subtotals for Project: 672738

Congressional Add Totals for all Projects

	FY 2023	FY 2024
	9.634	-
	2.410	-
	4.817	-
	7.705	-
	2.890	-
Congressional Add Subtotals for Project: 672738	27.456	-
Congressional Add Totals for all Projects	27.456	-

C. Accomplishments/Planned Programs (\$ in Millions)

Title:	FY 2023	FY 2024	FY 2025
Title: Fixed Base Weather System	0.000	0.000	0.200
Description: Integration and test of advanced sensing components to include low-level wind shear and optical turbulence.			
FY 2024 Plans: 0			
FY 2025 Plans:			

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
\$200K				
FY 2024 to FY 2025 Increase/Decrease Statement: Initial delivery of prototype capabilities occurs in 2025.				
Title: Expeditionary Weather - MTA Rapid Fielding (ExMet - MTA RF)		0.120	1.927	0.560
Description: Funding enables rapid fielding of Air Force Weather's Joint All-Domain Command and Control (JADC2) system of systems solution that supports mission specific launch and recovery operations via multi and single person UTCs. ExMet systems and capabilities address AF expeditionary operations needs highlighted in the 2022 NDS and AF/A3 Functional Concept for Expeditionary Weather operations. FY23 funding continues integration of components and applications into ExMET systems which was previously enabled by SBIR funding.				
FY 2024 Plans: Funding will support component integration as well as functionality modifications and testing of the Integrated Weather Observing System (IWOS).				
FY 2025 Plans: Funding will support component integration as well as functionality modifications and testing of component sensor systems including but not limited to the Advanced Micro Weather Sensor (AMWS).				
FY 2024 to FY 2025 Increase/Decrease Statement: Moderate decrease with less systems engineering effort for modifications AMWS as compared to FY24 IWOS modifications.				
Title: Portable Doppler Radar		-	0.000	0.200
Description: Developmental testing of phase-array weather radar prototype.				
FY 2024 Plans: 0				
FY 2025 Plans: \$200K				
FY 2024 to FY 2025 Increase/Decrease Statement: Initial delivery of prototype phased-array radar occurs in 2025.				
Title: Weather Data Analysis Increment 5 (WDA Inc 5)		4.612	4.184	4.966
Description: WDA Inc 5 institutes a cloud computing-based platform enabling a transition from agile development to a CI/CD pipeline for software development and deployment efforts which will enable rapid updates to functionality and security measures.				

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>The WDA Inc 5 cloud computing platform will also provide an enterprise big data analytics capability and AI/ML platform, as well as supporting and funding development and deployment of web services, data management, platform monitoring, application on-boarding, and platform user management. Finally, the program will provide both classified and unclassified cloud computing platforms that communicate directly with C2 customers.</p> <p>FY 2024 Plans: Funding will support cyber security automation, data transformations, and new satellite data integration to the AFW-VPC platform.</p> <p>FY 2025 Plans: Funding will support cyber security automation, data transformations, and new satellite data integration to the AFW-VPC platform.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Slight increase due to additional data transformation and satellite data integration workload.</p>				
<p>Title: Numerical Weather Modeling (NWM)</p> <p>Description: The NWM program transitioned High Performance Computing (HPC) System 11 into operations in early FY2022, transitioned legacy weather models to System 11 at the end of FY 2022, which enhanced and expanded the computing capability to begin supporting machine learning models' development. NWM develops and integrates physics and machine learning-based analysis and forecast models to include atmospheric, hydrology, and land characterization. NWM also provides data and products used to issue advisories and warnings for DoD resource protection, as well as DoD and IC mission planning. NWM integrates with the Air Force Weather Weapon System's Weather Data Analysis (WDA) Inc 5 processing centers to analyze and predict weather phenomena.</p> <p>FY 2024 Plans: Continue METSAT exploitation and integration efforts for cloud forecasting applications, terrain modeling, ORNL model code optimization, model blending, and hydrology prediction. Begin ML-based contrail analysis and prediction.</p> <p>FY 2025 Plans: Continue METSAT exploitation and integration efforts for cloud forecasting applications, terrain modeling, model code optimization, model blending, hydrology prediction, and ML-based contrail analysis and prediction. Begin classified modeling.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Moderate increase in level of effort with model blending, hydrology, and start of classified modeling.</p>		10.221	12.101	16.799
<p>Title: Weather Applications Rapid Production (WARPspeed)</p> <p>Description: WARPspeed develops and delivers a suite of software applications across multiple security classification levels to provide and enhance environmental intelligence to support rapid warfighter decision making. Major software developments</p>		9.651	8.117	8.647

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
include: the BIFROST Portal, Mission Services, Enterprise Workflow Applications (EWA), Climate applications, and weather C2 visualization plug-ins and integration.				
FY 2024 Plans: Continue BIFROST Portal development and mission-focused weather workflow applications for weather and non-weather operators, Climate applications, and C2 integration.				
FY 2025 Plans: Continue BIFROST Portal development and mission-focused weather workflow applications for weather and non-weather operators, Climate applications, and C2 integration.				
FY 2024 to FY 2025 Increase/Decrease Statement: Minor increase due to cost of software development labor				
Title: JEON EC-0015		0.000	0.000	-
Description: OSD JEON EC-0015				
FY 2024 Plans: N/A				
FY 2024 to FY 2025 Increase/Decrease Statement: N/A				
Accomplishments/Planned Programs Subtotals		24.604	26.329	31.372
		FY 2023	FY 2024	
Congressional Add: Commercial Weather Data Pilot (CWDP) Program		9.634	-	
FY 2023 Accomplishments: Awarded the available options on contracts with the Defense Innovation Unit (DIU) and the Commercial Solutions Offerings (CSO) established during FY 22, as well as incorporated the data quality and weather model assessment into the JCSDA Data Assimilation contract. Additionally, a new effort for near-earth Radio Occultation improved sensing is pending contract award.				
Congressional Add: Research on Atmospheric Rivers		2.410	-	
FY 2023 Accomplishments: Atmospheric Rivers (AR) Phase II tasks: Task 1: Impact of AR Recon Flight-level, Dropsonde, and Buoy Data Task 2: Impact of Global Navigation Satellite System (GNSS) RO data on AR Prediction				

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	FY 2023	FY 2024
Task 3: Impact of ARO data on the Prediction of ARs Task 4: Modeling Resilience During Loss of Foundational Data AR Phase 3 - Tied to FY23 funding. Roughly 50% was sent to the 53 WRS for dropsondes - leaving 2.5M in FY23. 0.354M was awarded via a CWDP option for High Altitude Balloon towards improved AR sensing in the Pacific Ocean region. The remainder was sent to the Office of Naval Research for their execution of AR-related efforts.		
Congressional Add: Dust Emission Forecasting FY 2023 Accomplishments: Awarded a contract to conduct research and development work with dust emission forecast analysis.	4.817	-
Congressional Add: Air Force Weather Transformation FY 2023 Accomplishments: Awarded one new contract and one modification to incorporate cloud migrating updates for the enterprise to continue efforts into cloud operations while enhancing software applications and security. This funding also provides capabilities into enhancing our data structure to VAULTIS which ensures we are aligned to DoD's authoritative C2 databases.	7.705	-
Congressional Add: Machine Learning Weather Forecast FY 2023 Accomplishments: Funding was applied to two efforts: continued development of ML-based contrails analysis and forecasts and awarded CWDP options for continued curation of commercial data to help speed development of multiple ML-based weather applications with intent to integrate them into the Air Force Weather Enterprise modeling suite and operations.	2.890	-
Congressional Adds Subtotals	27.456	-

D. Other Program Funding Summary (\$ in Millions)

	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• OPAF 03 Line Item 833070: <i>Weather Observation Forecast</i>	20.548	28.530	31.056	-	31.056	31.706	32.816	33.519	34.179	0.000	212.354

Remarks

E. Acquisition Strategy

AF Weather has adopted a CI/CD approach to delivering capabilities rapidly and routinely using multiple contracts to support a family of systems through development, fielding and sustainment.

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Cost Plus contracts are utilized for software development and sustainment and Fixed Firm Price contracts for Commercial-off-the-shelf [COTS] systems and Contract Logistics Support [CLS] efforts. Pre-competed General Services Administration [GSA], Defense Logistics Agency, and Defense Micro-Electronics Activity [DMEA] contract vehicles are leveraged when appropriate, and competitive and small-business awards are favored.

Air Force Weather Weapons System (AFWWS) is managed by Air Force Program Executive Officer for Digital (AFPEO Digital). They manage the ground-based atmospheric sensing and data analysis, atmospheric forecast systems, and PTWA.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Air Force **Date:** March 2024

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Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
ExMet	C/CPAF	Not specified. : TBD	-	0.000	Mar 2023	1.810	Mar 2024	0.560	Mar 2025	-		0.560	0.000	2.370	-
WDA INC 5, Develop web service, big data analytics, and ML/AI platform capabilities	C/CPAF	NextGen Federal Systems : Morgantown, WV	-	4.034	Feb 2023	3.491	Feb 2024	4.966	Feb 2025	-		4.966	0.000	12.491	-
WARPspeed (BIFROST, Mission Services, GSWR)	Various	Various : Various	-	6.854	Feb 2023	6.724	Feb 2024	7.085	Feb 2025	-		7.085	0.000	20.663	-
Commercial Weather Pilot Program	C/FFP	Various : Various	-	10.000		-		-		-		-	0.000	10.000	-
Research on Atmospheric Rivers	Various	Various : Various	-	5.000		-		-		-		-	0.000	5.000	-
Machine Learning	Various	Various : Various	-	3.000		-		-		-		-	0.000	3.000	-
AF Weather Transformation	Various	Various : Various	-	8.000		-		-		-		-	0.000	8.000	-
Dust Emission Forecasting	Various	Various : TBD	-	5.000		-		-		-		-	0.000	5.000	-
NWM 1 - Perform software enhancements to the mesoscale production model	MIPR	NCAR : Boulder, CO	-	-		-		-		-		-	0.000	0.000	-
NWM 2 - Improve land information system (LIS) application, providing earth surface boundary characterization for numerical modeling	Reqn	NASA : Greenbelt, MD	-	-		-		-		-		-	0.000	0.000	-
NWM - Develop and improve data assimilation techniques, system/software optimization, and expanded system ingest/integration for enhanced modeling capabilities	Various	Various : Various	-	7.443	Jan 2023	9.652	Jan 2024	14.829	Jan 2025	-		14.829	0.000	31.924	-
Subtotal			-	49.331		21.677		27.440		-		27.440	0.000	98.448	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Air Force **Date:** March 2024

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Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
46th TS/JITC AFLCMC	WR	46 TS : Offutt AFB, NE	-	0.324	Dec 2022	0.511	Dec 2023	0.821	Dec 2024	-		0.821	0.000	1.656	-
Subtotal			-	0.324		0.511		0.821		-		0.821	0.000	1.656	N/A

Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Not specified.	C/CPAF	Not specified. : TBD	-	-		-		-		-		-	0.000	0.000	-
Program Management Administration AFLCMC	C/CPFF	AFLCMC : Hanscom AFB, MA	-	2.405	Oct 2022	4.141	Oct 2023	3.111	Oct 2024	-		3.111	0.000	9.657	-
Subtotal			-	2.405		4.141		3.111		-		3.111	0.000	9.657	N/A

	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract	
	Project Cost Totals		-	52.060	26.329	31.372	-	31.372	0.000	109.761

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Air Force **Date:** March 2024

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FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

<i>Weather Service</i>	
Weather Data Analysis Inc 5 Build A Deliveries	
Weather Data Analysis Inc 5 Build B Deliveries	
WARPspeed Build A Deliveries	
WARPspeed Build B Deliveries	
Numerical Weather Modeling Deliveries	

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Air Force		Date: March 2024
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Weather Service</i>				
Weather Data Analysis Inc 5 Build A Deliveries	1	2023	4	2024
Weather Data Analysis Inc 5 Build B Deliveries	1	2024	4	2028
WARPspeed Build A Deliveries	1	2023	4	2024
WARPspeed Build B Deliveries	1	2024	4	2028
Numerical Weather Modeling Deliveries	1	2023	4	2028