U.S. Department of Commerce National Oceanic and Atmospheric Administration



Privacy Threshold Analysis
For the
Space Weather Prediction Center
NOAA8864

U.S. Department of Commerce Privacy Threshold Analysis

National Oceanic and Atmospheric Administration National Weather Service/Space Weather Prediction Center (NOAA8864)

Unique Project Identifier: 006-48-01-13-01-3504-00-108-023

Introduction: This Privacy Threshold Analysis (PTA) is a questionnaire to assist with determining if a Privacy Impact Assessment (PIA) is necessary for this IT system. This PTA is primarily based from the Office of Management and Budget (OMB) privacy guidance and the Department of Commerce (DOC) IT security/privacy policy. If questions arise or further guidance is needed in order to complete this PTA, please contact your Bureau Chief Privacy Officer (BCPO).

Description of the information system and its purpose: The Space Weather Prediction Center (SWPC) located in Boulder, Colorado, provides real-time monitoring and forecasting of solar and geomagnetic events, conducts research in solar-terrestrial physics, and develops techniques for forecasting solar and geophysical disturbances.

The Space Weather Prediction Center (SWPC) has been designated a National Critical Infrastructure system. Its components ingest, process, create, and disseminate critical real-time space weather data, information, and products used directly by National Oceanic and Atmospheric Administration (NOAA)/SWPC Forecast Operations Center, other government agencies, international organizations, private industry, research, academic and other public sector interests to help reduce the impact of space weather disturbances and protect life and property. Critical users, including the NOAA National Geophysical Data Center (NGDC), United States Air Force (USAF), National Aeronautics and Space Administration (NASA) and the Federal Aviation Administration (FAA), satellite and communication operators, the power and airlines' industries, and a developing space weather industry, rely on the data and products made available 24 X 7 through Forecast Operations Center, which is staffed jointly by SWPC and Air Force Weather Agency (AFWA) personnel.

SWPC functions as a national and international center for space environment and geophysical services and supporting research. SWPC provides a diverse spectrum of military, government, private industry and general public users with information on the state of the space environment, forecasts of solar-terrestrial conditions, alerts and warnings of expected disturbances in space weather, and analyses of user problems. These products help users take action to reduce the impact of space weather and to plan activities sensitive to solar-terrestrial conditions. Space weather forecasts and real-time information are of vital importance to users and owners of satellites, communications, navigation, power and pipelines, and high altitude / high latitude aircraft. Customers range from NASA's Space Radiation Analysis Group who uses this information to assess crew (and payload) radiation levels during NASA Space Shuttle missions, to satellite operators who need advisories of severe space weather which may harm their spacecraft's, to radio operators who use space weather indices for predicting radio propagation.

SWPC also serves as a Regional Warning Center (RWC) and the World Warning Agency (WWA) of the International Space Environment Services (ISES). The ten Regional Warning Centers of the ISES are responsible for providing real-time monitoring and prediction of space weather for their localized section of the world. SWPC, as RWC Boulder, serves the Western Hemisphere. As WWA, SWPC acquires and exchanges data between all the RWCs, and plays a major role in planning and executing international space

weather campaigns.

The E-Government Act of 2002 defines "information system" by reference to the definition section of Title 44 of the United States Code. The following is a summary of the definition: "Information system" means a discrete set of information resources organized for the collection, processing, maintenance, use, sharing, dissemination, or disposition of information. See: 44. U.S.C. § 3502(8).

a) Whether it is a general support system, major application, or other type of system

General Support System

b) System location

David Skaggs Research Center

325 Broadway

Boulder, CO 80305

c) Whether it is a standalone system or interconnects with other systems (identifying and describing any other systems to which it interconnects)

NOAA0100 – NOAA Cyber Security Center (NCSC)

NOAA0550 – NOAA Enterprise Network (NWAVE)

NOAA5003 – Geostationary Operational Environmental Satellite Ground System (GOES)

NOAA5011 – National Geophysical Data Center Data Archive Management and User System

NOAA5049 – Constellation Observing System for Meteorology Ionosphere and Climate Product Generation and Distribution (COSMIC)

NOAA8107 – Advanced Weather Interactive Processing System (AWIPS)

NOAA8860 - Weather and Climate Computing Infrastructure Services (WCCIS)

d) The purpose that the system is designed to serve

The Space Weather Prediction Center (SWPC) provides real-time monitoring and forecasting of solar and geomagnetic events, conducts research in solar-terrestrial physics, and develops techniques for forecasting solar and geophysical disturbances. SWPC's parent organization is the National Oceanic and Atmospheric Administration (NOAA).

e) The way the system operates to achieve the purpose

Information is gathered in order for individuals to subscribe to receive alerts produced by SWPC through the https://pss.swpc.noaa.gov/.

f) A general description of the type of information collected, maintained, use, or disseminated by the system

For the Product Subscription Service this website collects the following information:

- Email Address
- Name of user

- Name of company/entity/organization (optional)
- g) Identify individuals who have access to information on the system

Database administrators, IT support staff administrators

h) How information in the system is retrieved by the user

Users must authenticate to obtain their user account data. SWPC does not store the passwords that are created by the users. Once inside the website, a user can update their personal data.

i) How information is transmitted to and from the system.

Emails are distributed to users that subscribe to the alerts from SWPC.

Questionnaire:

1.	What is	the	status	of	this	inf	formation	system?
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 This is a new information system. Continue to answer questions and complete certification.
 This is an existing information system with changes that create new privacy risks.
Complete chart below, continue to answer questions, and complete certification.

Changes That Create New Privacy Risks (CTCNPR)				
a. Conversions	d. Significant Merging	g. New Interagency Uses		
b. Anonymous to Non-	e. New Public Access	h. Internal Flow or		
Anonymous		Collection		
c. Significant System	f. Commercial Sources	i. Alteration in Character		
Management Changes		of Data		
j. Other changes that create new privacy risks (specify):				

This is an existing information system in which changes do not create new privacy risks, and there is not a SAOP approved Privacy Impact Assessment. *Continue to answer questions and complete certification.*

This is an existing information system in which changes do not create new privacy risks, and there is a SAOP approved Privacy Impact Assessment (version 01-2015). *Continue to answer questions and complete certification.*

This is an existing information system in which changes do not create new privacy risks, and there is a SAOP approved Privacy Impact Assessment (version 01-2017 or later). Skip questions and complete certification.

2. Is the IT system or its information used to support any activity, which may raise privacy concerns?

NIST Special Publication 800-53 Revision 4, Appendix J, states, "Organizations may also engage in activities that do not involve the

	ctivities	
	udio recordings	Building entry readers
<u>, </u>	ideo surveillance ther (specify):	Electronic purchase transactions
	ther (specify).	
<u>X</u>	No.	
		or disseminate business identifiable information (BII)?
		cy, business identifiable information consists of (a) information that is defined in
	· · · · · · · · · · · · · · · · · · ·	and commercial or financial information obtained from a person [that is] formation is exempt from automatic release under the (b) (4) FOIA exemption.
"Commer	cial" is not confined to records that reveal basic	commercial operations" but includes any records [or information] in which the
		rmation submitted by a nonprofit entity, or (b) commercial or other information DIA, is exempt from disclosure by law (e.g., 13 U.S.C.)."
mai, ami	agn to may not be exempt from release under re	on, is exempt from disclosure by law (e.g., 15 o.s.e.).
	Yes, the IT system collects, ma	aintains, or disseminates BII.
	res, the ir system concers, me	intains, or disseminates B11.
X	No this IT system does not col	llect any RII
<u>X</u>	No, this IT system does not col	llect any BII.
	No, this IT system does not column ally Identifiable Information (P	-
Person	•	II)
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Person Does t	he IT system collect, maintain, of MB 17-12: "The term PII refers to information the with other information that is linked or linkable Yes, the IT system collects, manuapply.) DOC employees National Institute of Standa	or disseminate PII? that can be used to distinguish or trace an individual's identity either alone or when e to a specific individual." aintains, or disseminates PII about: (Check all that
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collection and use of PII, but may nevertheless raise privacy concerns and associated risk. The privacy controls are equally applicable to

		Yes, the IT system collects, maintains, or disseminates SSNs, including truncated form.					
		an explanation for the business need requiring the collection of SSNs, including d form.					
I	Provide	the legal authority, which permits the collection of SSNs, including truncated form.					
	<u>X</u>	No, the IT system does not collect, maintain, or disseminate SSNs, including truncated form.					
łc.	Does the	he IT system collect, maintain, or disseminate PII other than user ID?					
	<u>X</u>	Yes, the IT system collects, maintains, or disseminates PII other than user ID.					
		No, the user ID is the only PII collected, maintained, or disseminated by the IT system.					
ld.		ne purpose for which the PII is collected, stored, used, processed, disclosed, or initiated (context of use) cause the assignment of a higher PII confidentiality impact					
	Examples treatments	ples of context of use include, but are not limited to, law enforcement investigations, administration of benefits, contagious disease					
		Yes, the context of use will cause the assignment of a higher PII confidentiality impact level.					
	<u>X</u>	No, the context of use will not cause the assignment of a higher PII confidentiality impact level.					

If any of the answers to questions 2, 3, 4b, 4c, and/or 4d are "Yes," a Privacy Impact Assessment (PIA) must be completed for the IT system. This PTA and the approved PIA must be a part of the IT system's Assessment and Authorization Package.

CERTIFICATION

X I certify the criteria implied by one or more of the questions above a Weather Prediction Center and as a consequence of this applicability, I will document a PIA for this IT system.	1 1 1
I certify the criteria implied by the questions above do not apply to Prediction Center and as a consequence of this non-applicability, a PIA for necessary.	-
Name of Information System Security Officer (ISSO) Hugo Del Rio:	
Signature of ISSO: DEL RIO.HUGO.ENRIQUE.1182167980 Digitally signed by DEL RIO.HUGO.ENRIQUE.1182167980 Date: 2020.10.21 09:13:20 -06'00'	Date:
Name of Information Technology Security Officer (ITSO): Andrew Brown BROWNE.ANDREW.PATRIC Digitally signed by BROWNE.ANDREW.PATRIC Digitally signed by BROWNE.ANDREW.PATRICK.1472149349 Date: 2020.10.21 11:46:28-04'00'	ne Date:
Name of Privacy Act Officer (PAO): Adrienne Thomas	
THOMAS.ADRIENNE.M.1365859 Digitally signed by THOMAS.ADRIENNE.M.1365859600 Date: 2020.10.22 13:10:20 -04'00'	Date:
Name of Authorizing Official (AO): <u>Dr. Brian Gross</u>	
Signature of AO: GROSS.BRIAN.D.1365840101 Digitally signed by GROSS.BRIAN.D.1365840101 Date: 2020.10.22 11:09:04 -04'00'	Date:
Name of Bureau Chief Privacy Officer (BCPO): Mark Graff GRAFF.MARK.HYRUM.151444 Digitally signed by	
Signature of BCPO: 7892 GRAFF.MARK.HYRUM.1514447892 Date: 2020.11.04 08:20:57 -05'00'	Date: