



Governing for Data Resilience Means Supporting People

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and so many in the Earth Science Information Partners community

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Future Directions for Earth Observations and Data Stewardship
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The Earth Science Information Partners is...

A professional *community* working to empower the use and *stewardship* of Earth science data to address grand challenges
— the right data, anywhere, anytime.

Brianna Pagán's story at the last ESIP meeting about the Palisades Fire

- “I’m coming to you as a person.”
- **“Technology failed me - my community did not.”**
- Response to an immediate crisis requires a data and community foundation.
- “Communities must consciously commit to the collective good amid crisis, or else it’s very possible that the quintessential American value of individualism will win out. Communities are much likelier to do so if they have been exercising collective musicals and cultivating relationships long before disaster strikes.” - Kylie Flanagan, *Climate Resilience*



Sea Ice Today

Analyses and daily images of sea ice conditions

[SEA ICE TODAY](#)

[DATA TOOLS](#)

[ANALYSES](#)

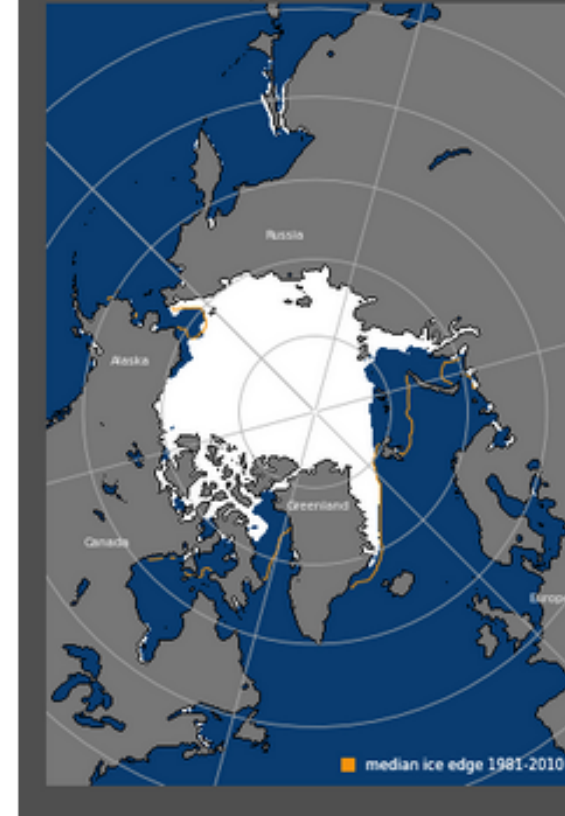
[ABOUT THE DATA](#)

[STUDYING SEA ICE](#)

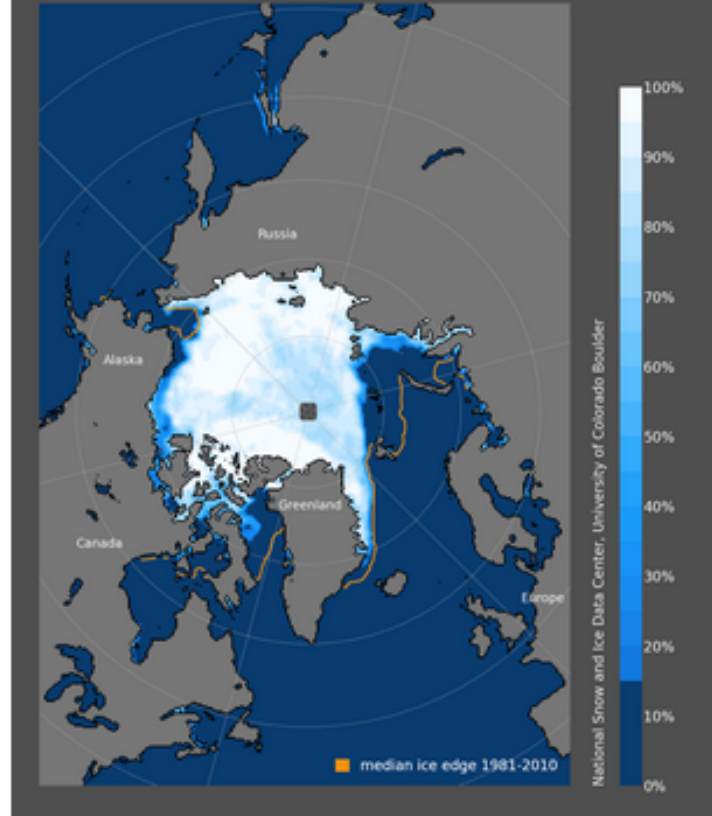
[MAPS](#)

[Arctic](#) [Antarctic](#)

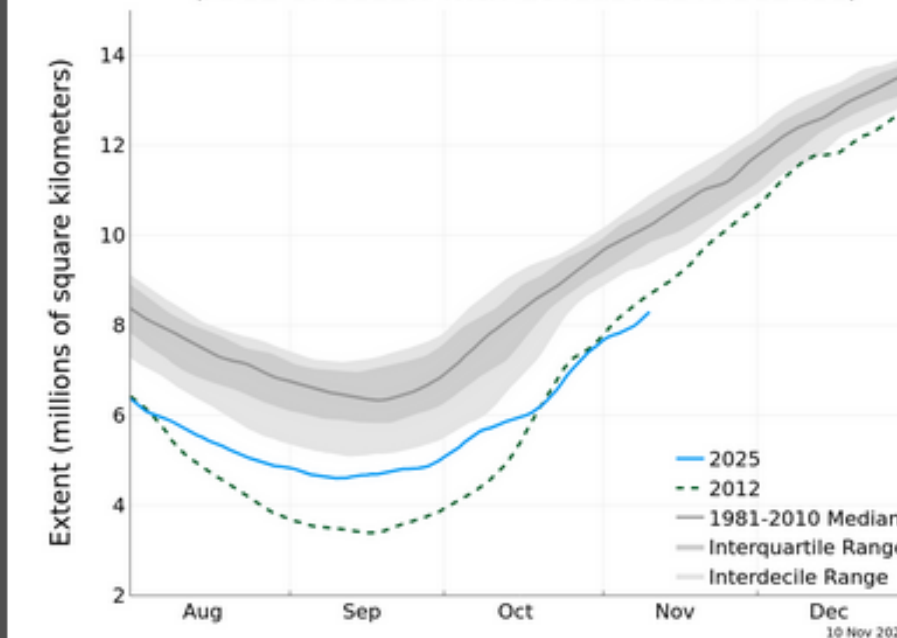
Sea Ice Extent, 10 Nov 2025



Sea Ice Concentration, 10 Nov 2025



Arctic Sea Ice Extent
(Area of ocean with at least 15% sea ice)



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Sea Ice Today:
NSIDC's most popular sea ice product

A suite of images, interactive charts, and analysis tools based on NOAA's Sea Ice Index. <https://nsidc.org/sea-ice-today>

Sea ice data is updated daily, with a one-day lag. On occasion, there is data delay which is usually resolved within a few days. The orange line in extent and concentration images (left and middle) and the gray line in the time series (right) indicate 1981 to 2010 average extent for the day shown. The graph also includes lines for selected earlier years, for comparison. [Learn more about how to interpret the data and any known issues.](#)

Due to non-renewed funding, several Sea Ice Today tools and services are now suspended or reduced.

Discontinued:

- [New monthly and mid-month analysis posts](#)
- [Sea ice analysis tool](#)
- [Sea ice volume](#)
- [Sea ice extent spatial comparison tool](#)

Persisting:

- [Daily Arctic and Antarctic sea ice images](#)
- [ChArctic interactive sea ice graph](#)
- Links to [Sea ice analysis data spreadsheets](#) from the NOAA Sea Ice Index
- Reduced user support
- Sea ice annual maximum and minimum announcements (typically occurring in March and September)

Previously-published Sea Ice Today analysis posts will remain online. The discontinued Sea Ice Today products will no longer update or be maintained, and will be removed in November or December 2025.

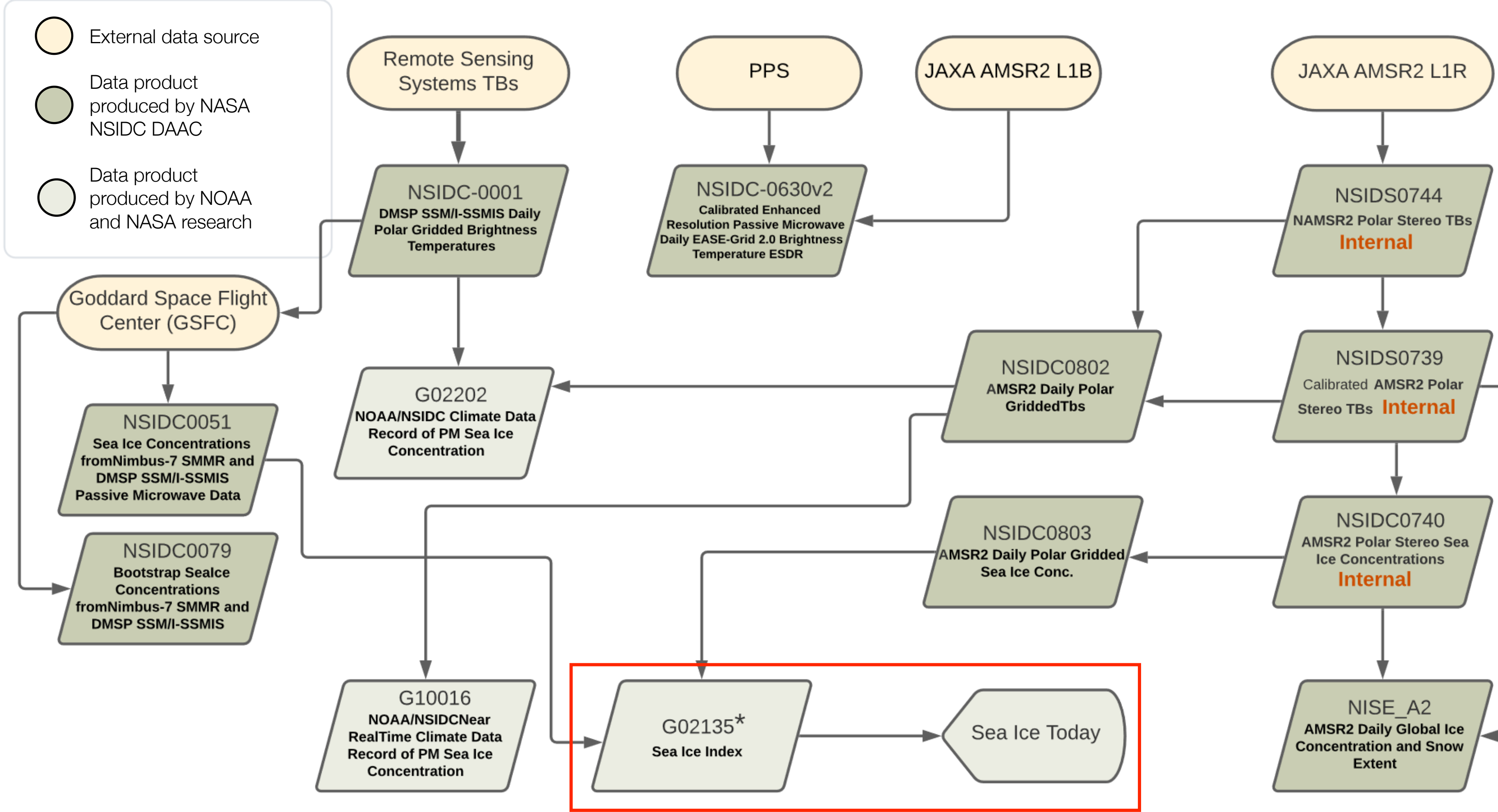
Further down the page

Figure courtesy
Donna Scott,
NSIDC



Passive-microwave derived, sea-ice data products at the National Snow and Ice Data Center

Figure courtesy Donna Scott, NSIDC



* research quality near real-time data (extra special)

Wildfire resilience as a metaphor for data resilience

	Wildfire	Data
Prevention		
	Create a defensible space (clear vegetation)	Assess and improve repository resilience*
	Controlled burns	Eliminate/consolidate/strengthen redundant systems*
Crisis response		
	Make a go bag and have multiple escape routes	Establish repository mirrors and support agreements
	Clear broad communications (911/reverse 911)	??
	Crisis response teams	Crisis response teams?
Prioritization		
	Situational and criteria based (not a priori)	Situational and criteria based (not a priori)*
Adaptation		
	Change building codes and zoning	Design more robust <i>shared</i> systems and clarify roles*
	Fund firefighters and resilient infrastructure	Fund data professionals and resilient infrastructure
	Rebuild with resilience in mind	Rebuild with resilience in mind

* Things ESIP is already working on



Community is essential to data resilience.
It must be recognized, supported, and nurtured.