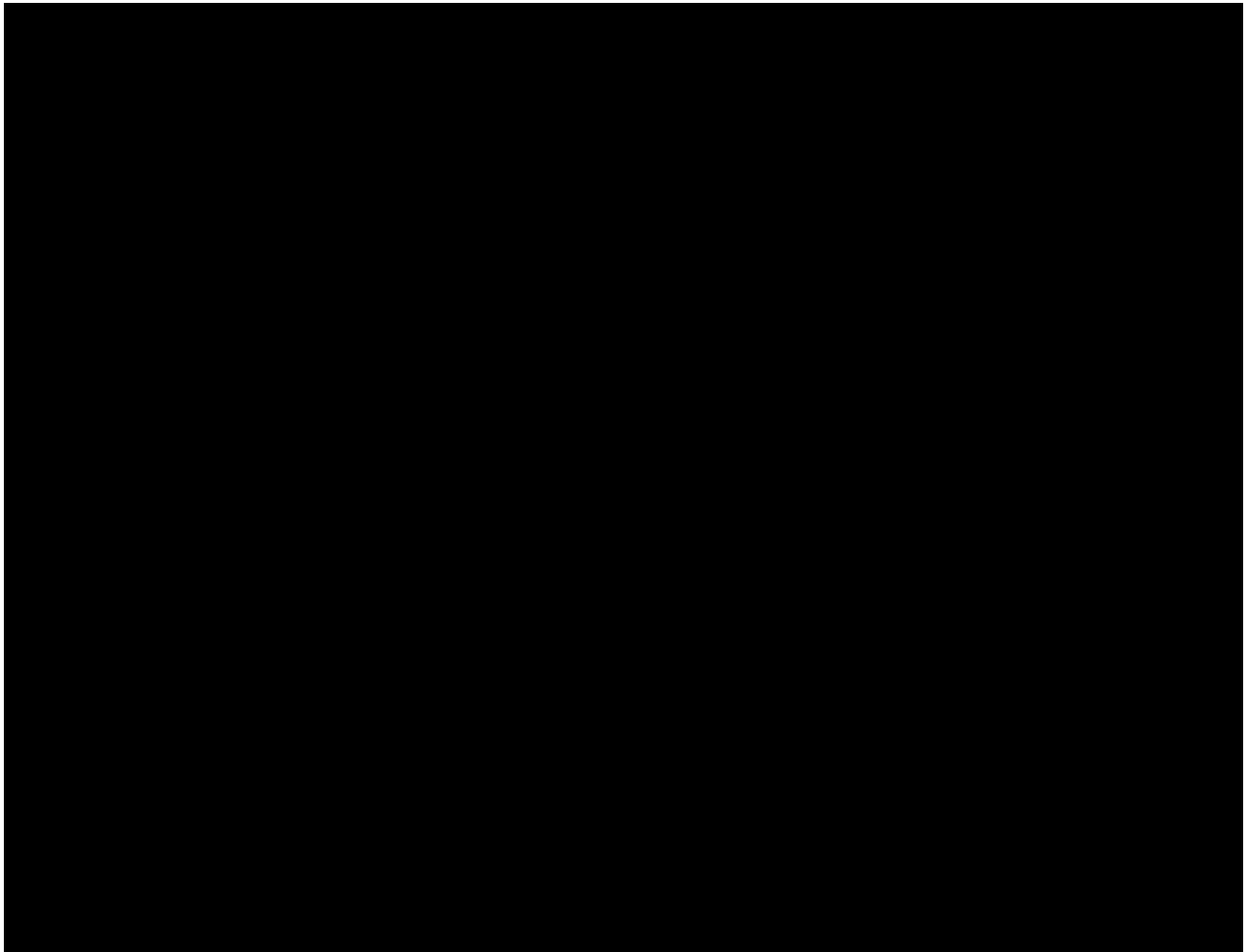


# EXHIBIT 3



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**Sent:** Wednesday, December 17, 2025 12:48 PM  
**To:** Stone, Brian <brian.stone@nsf.gov>  
**Subject:** [EXTERNAL] - RE: historical funding for NCAR

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## Modeling Functions

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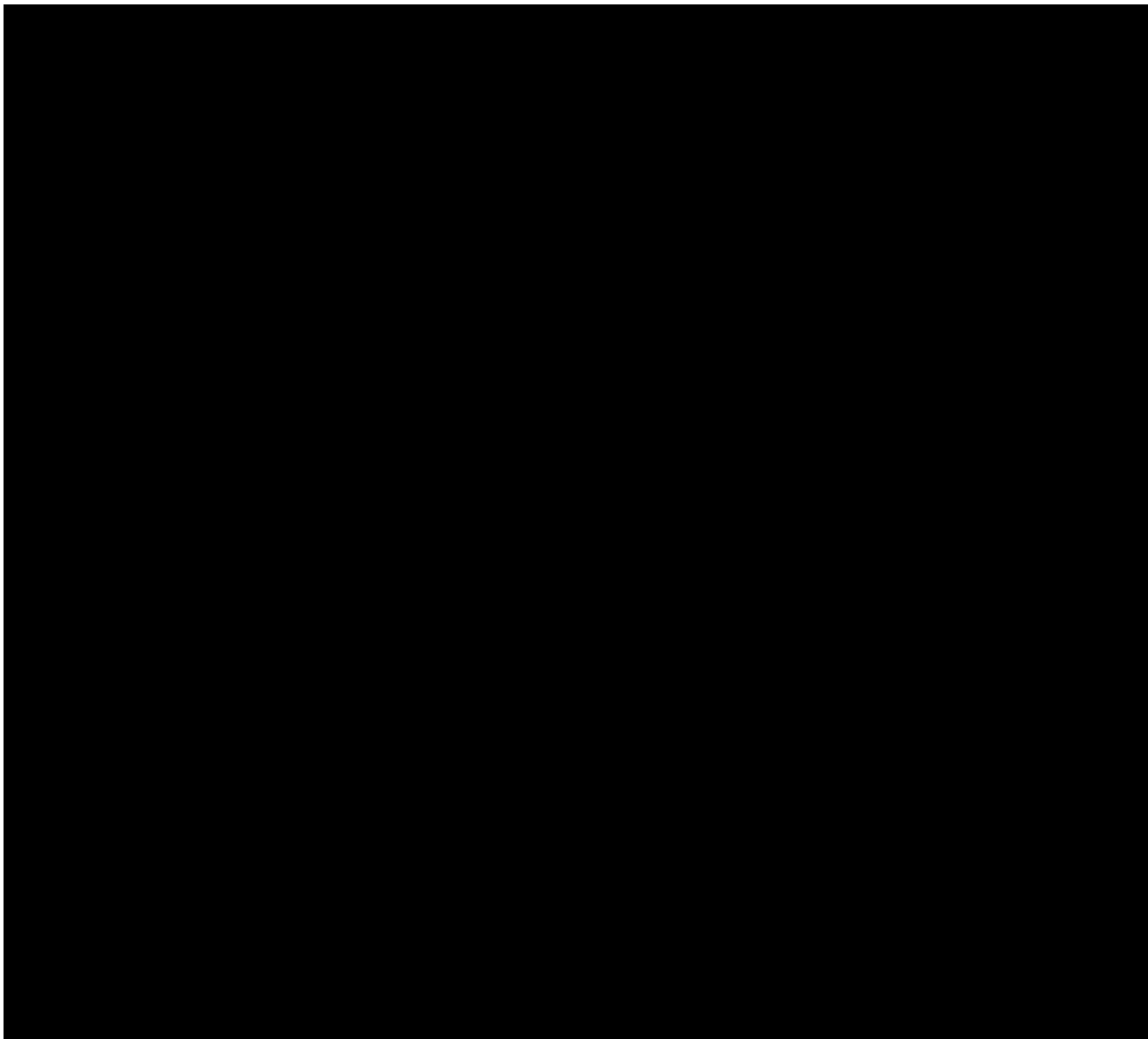
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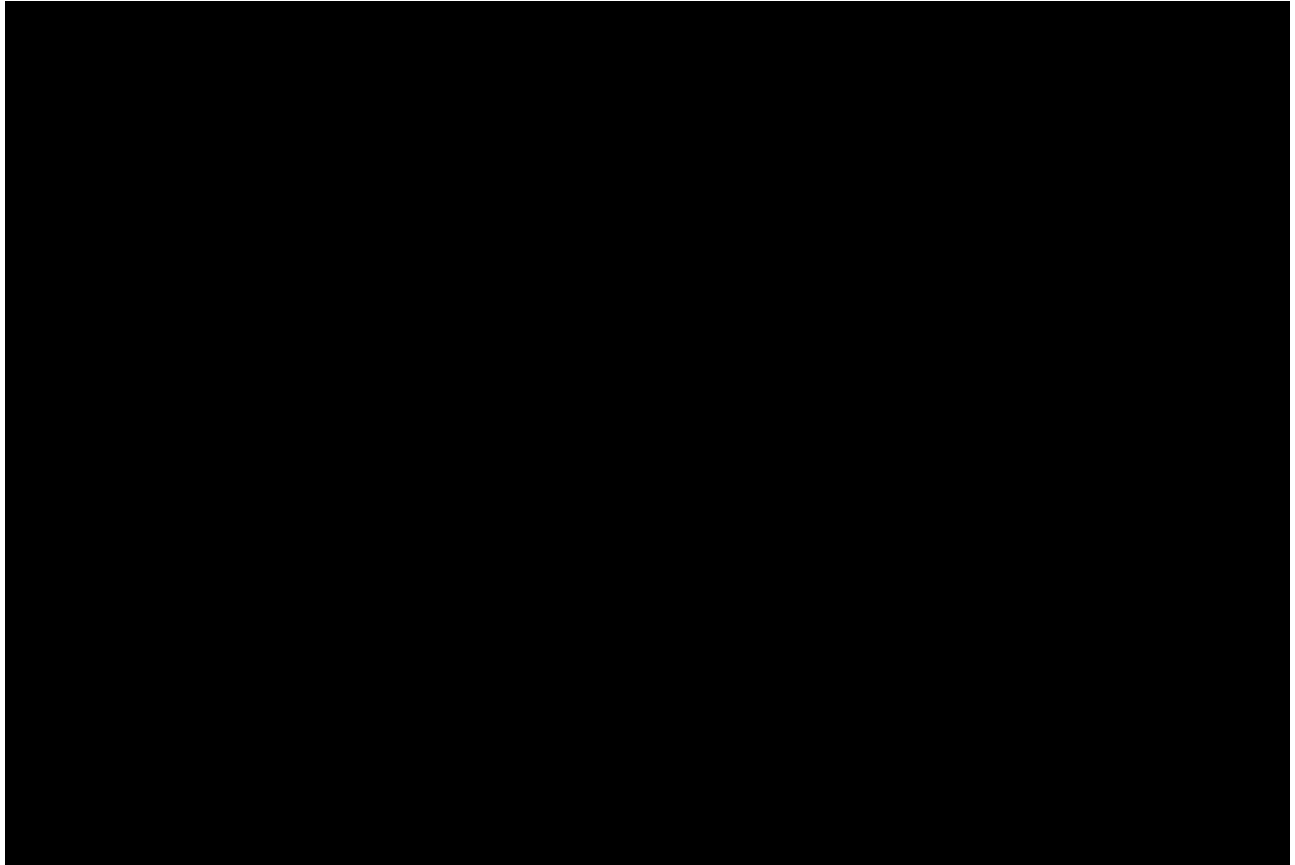
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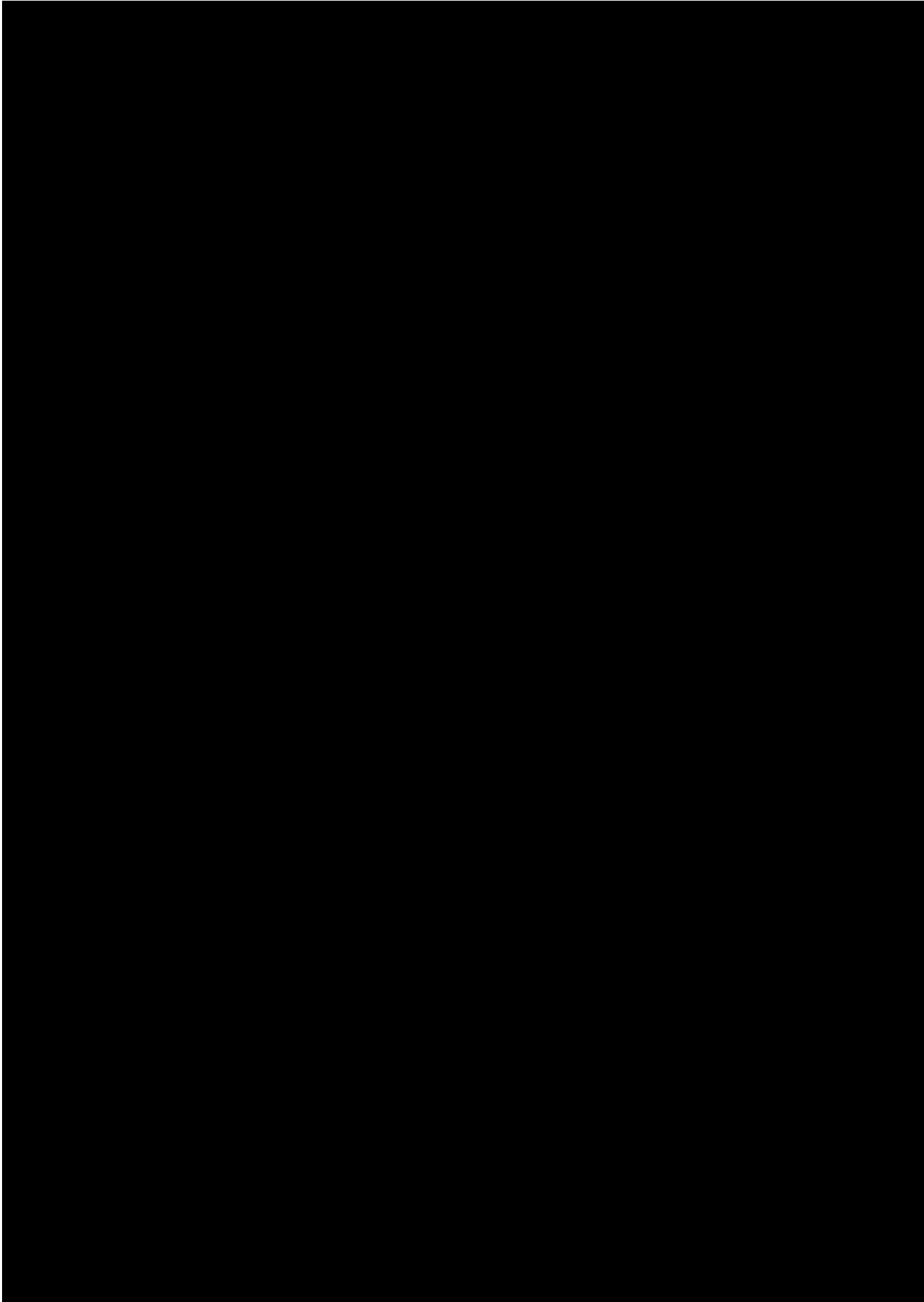
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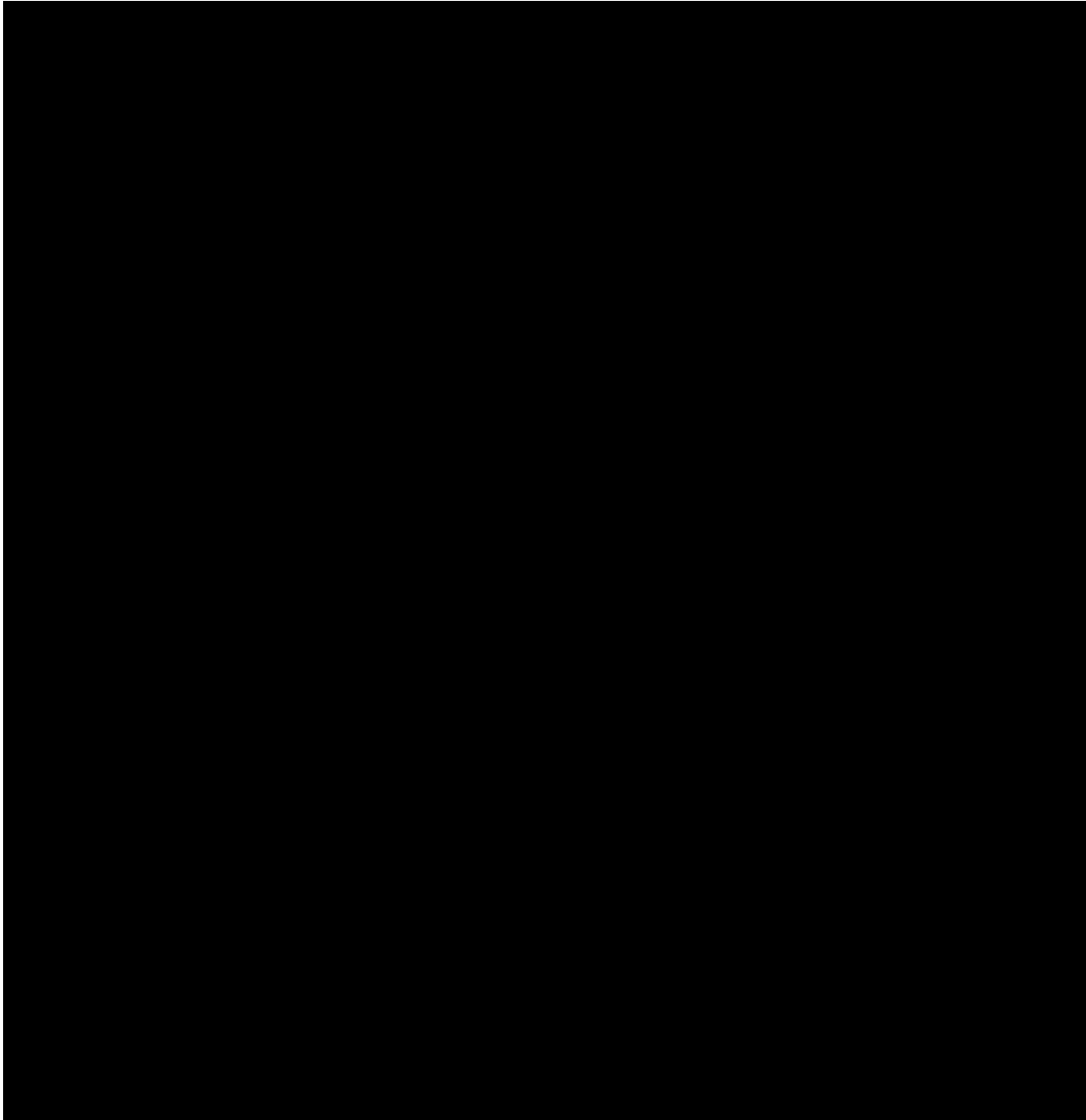
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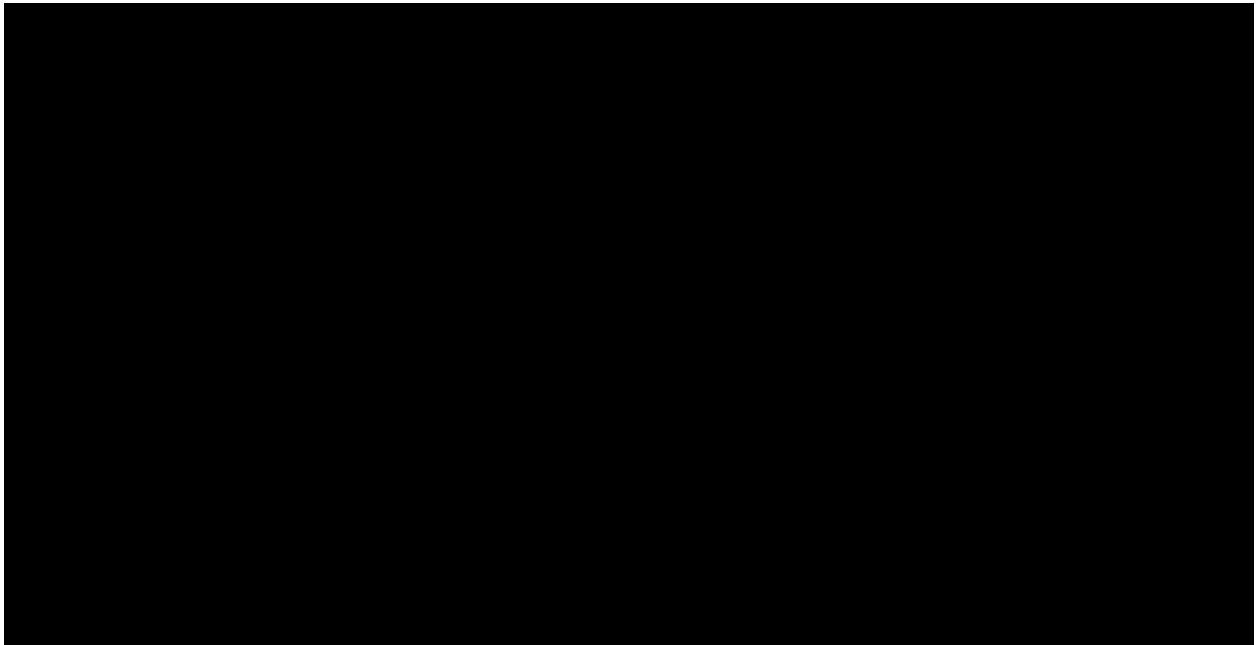
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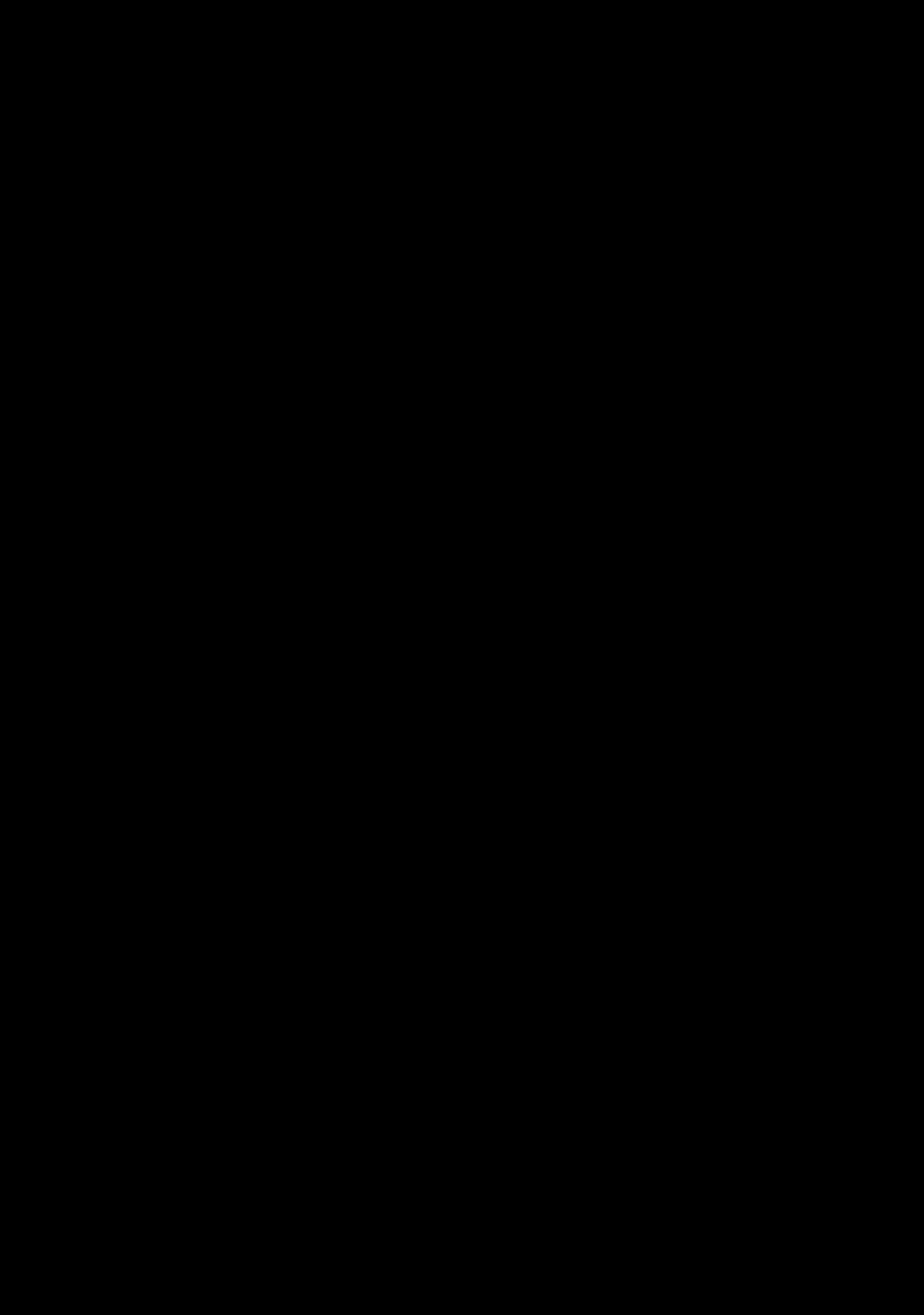
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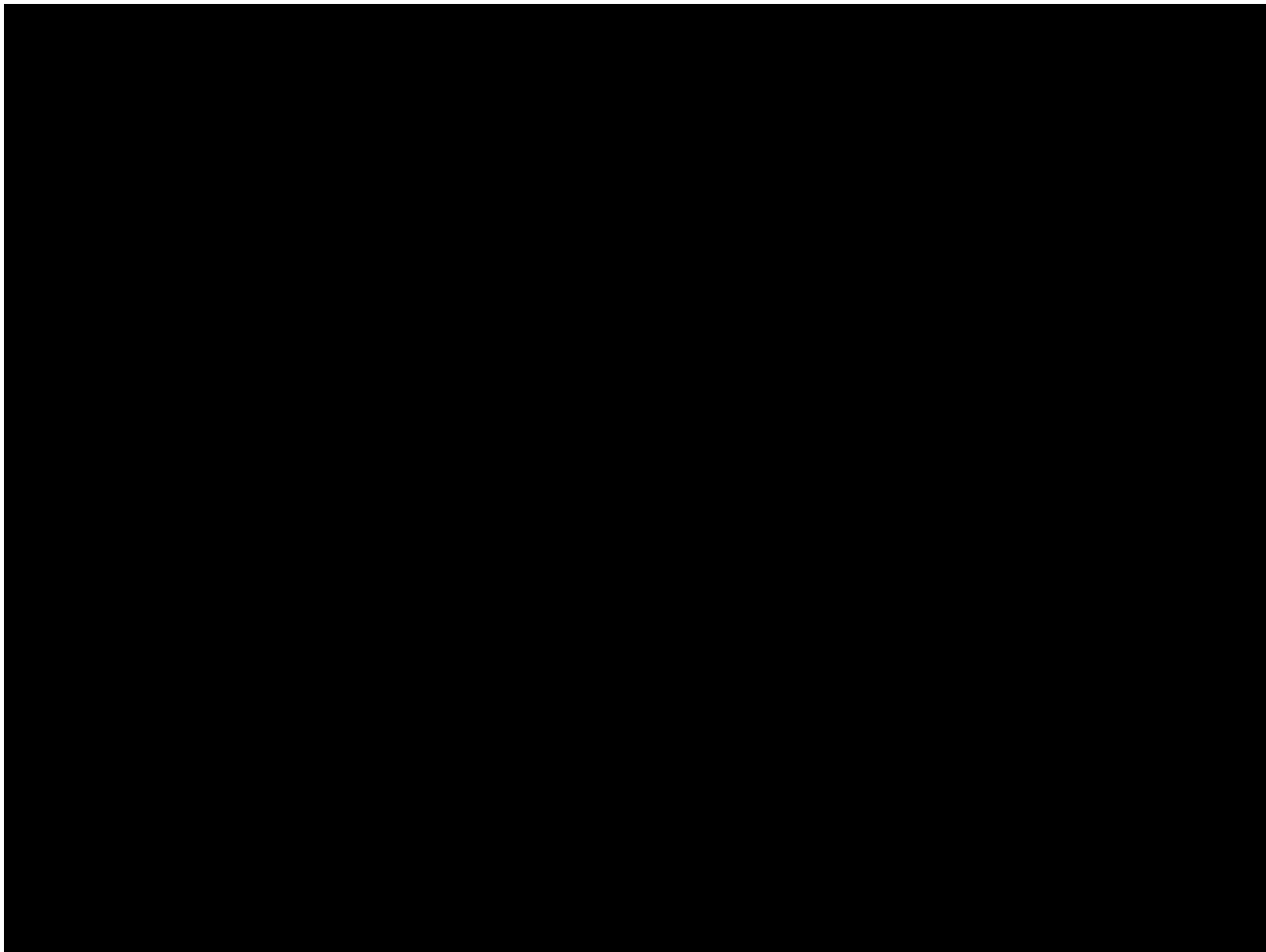
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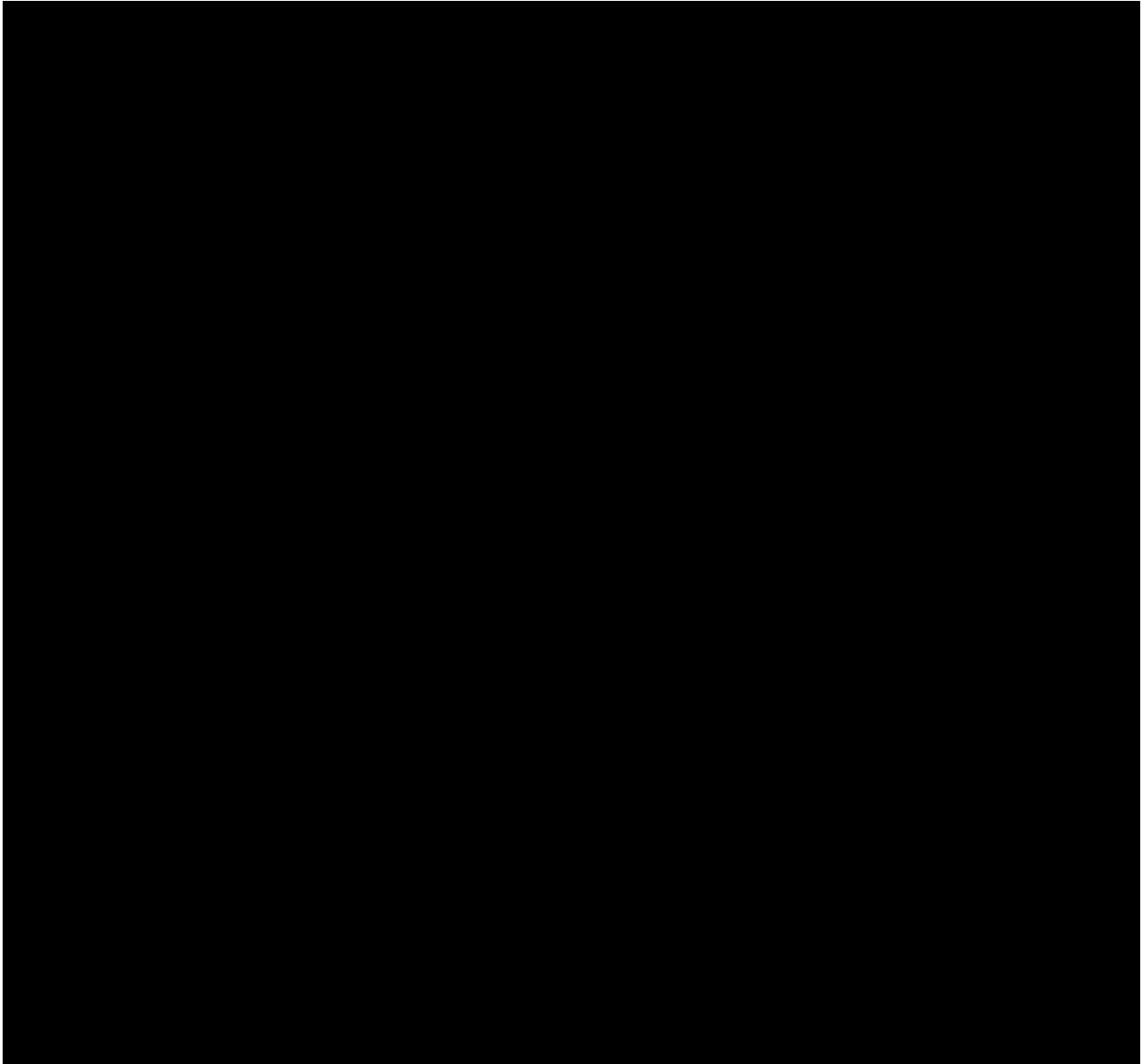
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**From:** [Stone, Brian](#)  
**To:** [Pasquantino, John C. EOP/OMB](#)  
**Subject:** Re: historical funding for NCAR  
**Date:** Wednesday, December 17, 2025 12:37:36 PM

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Super helpful. Many of these already track with what we consider aligned. Thanks for sharing and will use this to inform our response to you.

**Brian Stone**

**Chief of Staff**

Performing the Duties of the NSF Director

**Office:** [703-292-7458](tel:703-292-7458)

**Mobile:** [703-389-5688](tel:703-389-5688)

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**From:** Pasquantino, John C. EOP/OMB <[John\\_Pasquantino@omb.eop.gov](mailto:John_Pasquantino@omb.eop.gov)>  
**Sent:** Wednesday, December 17, 2025 12:23:34 PM  
**To:** Stone, Brian <[brian.stone@nsf.gov](mailto:brian.stone@nsf.gov)>  
**Subject:** [EXTERNAL] - RE: historical funding for NCAR

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**From:** Pasquantino, John C. EOP/OMB  
**Sent:** Wednesday, December 17, 2025 11:56 AM  
**To:** 'Stone, Brian' <[brian.stone@nsf.gov](mailto:brian.stone@nsf.gov)>  
**Subject:** FW: historical funding for NCAR

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**From:** Black, Sam EOP/OMB <[Samuel\\_J\\_Black@omb.eop.gov](mailto:Samuel_J_Black@omb.eop.gov)>  
**Sent:** Wednesday, December 17, 2025 11:39 AM  
**To:** Pei, Yi EOP/OMB <[Liuvi.N.Pei@omb.eop.gov](mailto:Liuvi.N.Pei@omb.eop.gov)>; Flocken, Nicholas I. EOP/OMB <[Nicholas.I.Flocken@omb.eop.gov](mailto:Nicholas.I.Flocken@omb.eop.gov)>  
**Cc:** Pasquantino, John C. EOP/OMB <[John\\_Pasquantino@omb.eop.gov](mailto:John_Pasquantino@omb.eop.gov)>; Sampson, William F. EOP/OMB <[William.F.Sampson@omb.eop.gov](mailto:William.F.Sampson@omb.eop.gov)>; Levenbach, Stuart EOP/OMB <[Stuart.Levenbach@omb.eop.gov](mailto:Stuart.Levenbach@omb.eop.gov)>  
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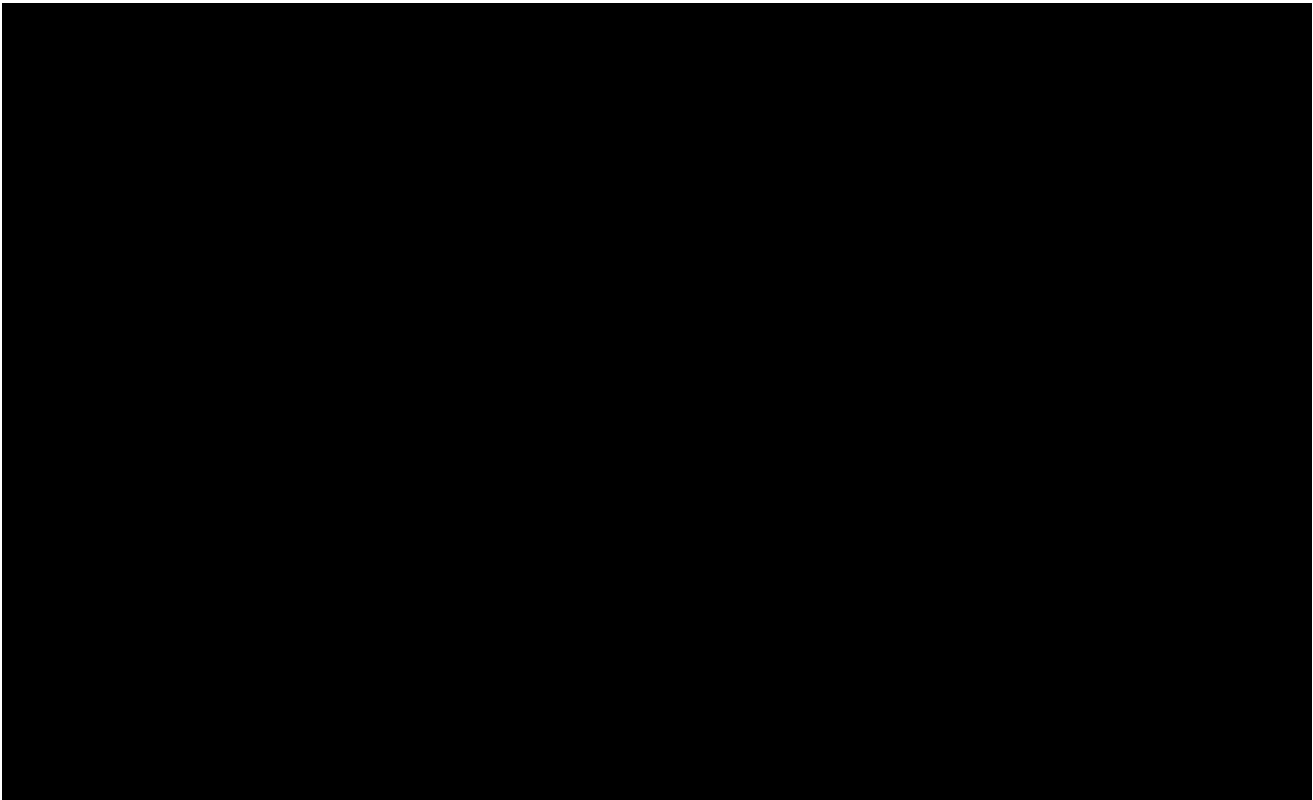
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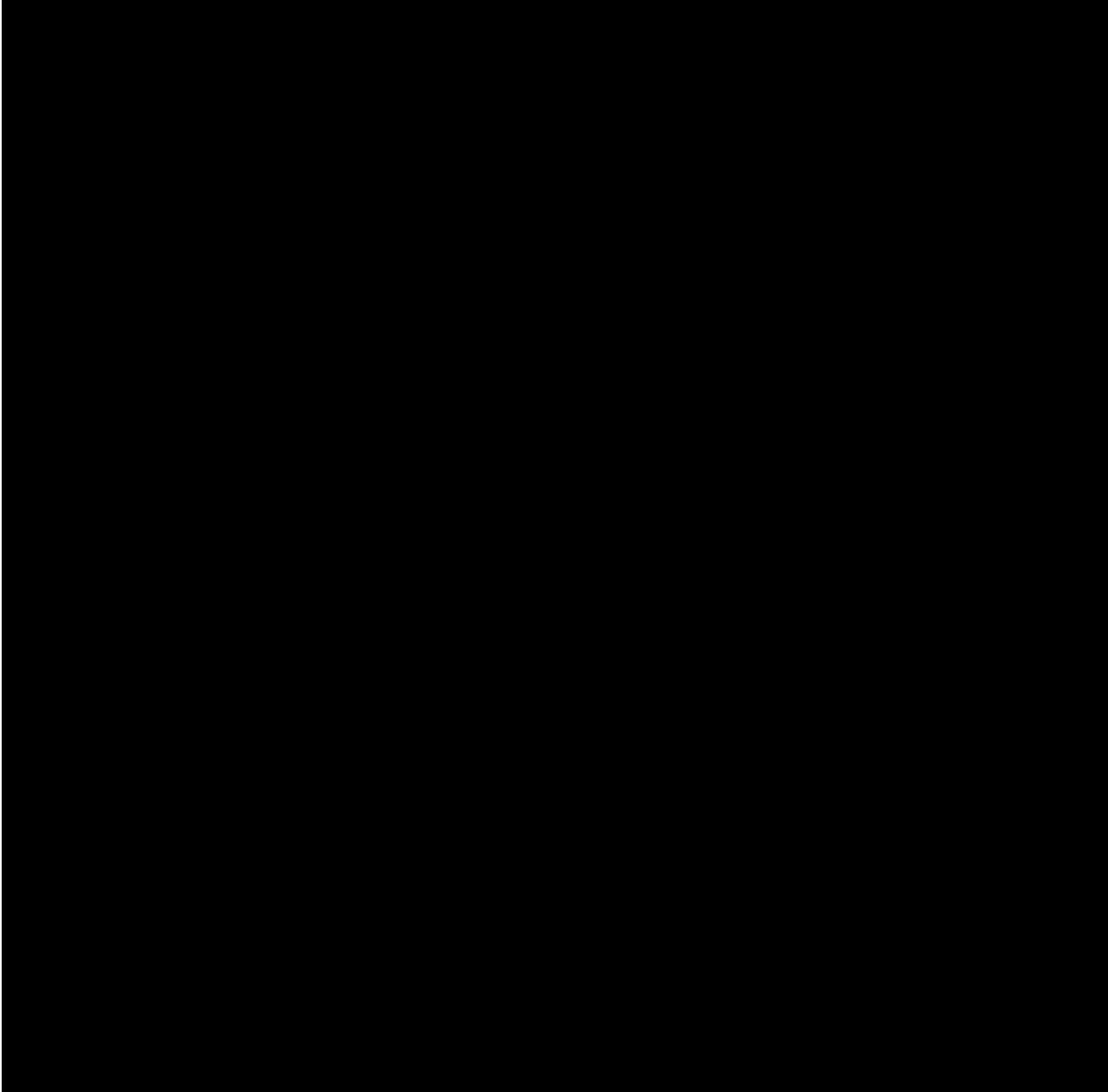
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**Sent:** Wednesday, December 17, 2025 9:57 AM  
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**To:** [Stone, Brian](#)  
**Subject:** [EXTERNAL] - RE: historical funding for NCAR  
**Date:** Wednesday, December 17, 2025 12:25:31 PM  
**Attachments:** [NCAR Policy Aligned Keep List.docx](#)

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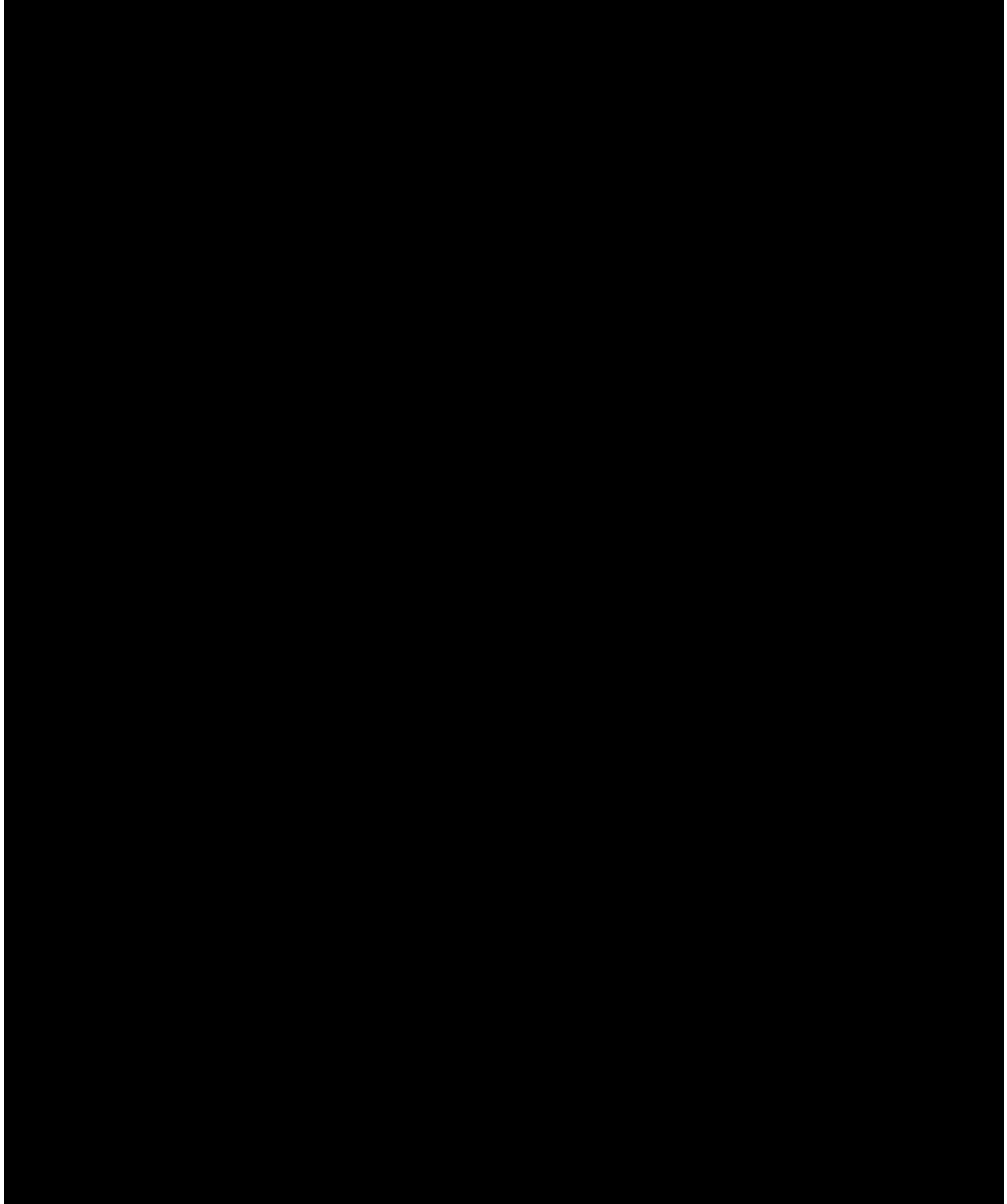
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## **Policy Aligned Functions**

### Modeling

- Weather (MPAS)
- Fire weather (WRF-Fire)
- Water (WRF-Hydro)
- Space weather (WACCM-X, MAGE)

Blurb: NOAA's highest priority is improving weather modeling. NCAR developed MPAS with Universities. NOAA recently made the decision to switch from its previous model (FV3) to the NCAR-developed model (MPAS). This model is the future of weather forecasting and will enable NOAA to reclaim forecasting superiority. Other NCAR-developed models for fire weather, space weather, and water are also aligned with Administration priorities and will enable improvements to keep Americans safe.

### Compute

- Derecho (large supercomputer)
- Casper (smaller supercomputer)
- CIRRUS (cloud infrastructure system)

Blurb: NCAR's supercomputer assets allow the modeling community and universities to collaborate and improve forecasting techniques. These facilities are located at Cheyenne, Wyoming.

### Aircraft

- Gulfstream V
- C-130
- King Air

Blurb: NCAR has three research aircraft that are all used for weather, air chemistry/quality, and space weather research. These aircraft could be transitioned to NOAA's fleet of aircraft to continue research needs and operational mission resilience (for example, NOAA's hurricane hunter fleet)

## Labs

- Research Applications Lab
- Mesoscale & Microscale Meteorology Lab
- High Altitude Observatory
- Computational & Information Systems Lab
- Atmospheric Chemistry Observations & Modelling Lab

Blurb: These NCAR labs are responsible for research related to policy aligned priorities of weather, fire weather, space weather, and water modeling. They also manage and support the observation networks that are needed for research improvements. For example, the High Altitude Observatory manages the Mauna Loa Solar Observatory in Hawaii which improves our space weather knowledge and research.

## **Locations with existing aligned programs**

- Oklahoma
- North Carolina
- Florida
- Wisconsin
- Pennsylvania

## **Other Functions**

- Education, Engagement & Early-Career Development
- Earth Observing Lab
- Climate & Global Dynamics Lab

Blurb: These NCAR labs and their research/mission can be best supported by transitioning to better-aligned university programs across the country. For instance, the Education lab's mission can be assisted by University programs and may be duplicative with federal agency Education programs. Likewise, the Earth Observing Lab works on instrument fabrication, which is also tasked within federal agencies already. Aligning these lab functions with existing academic programs will yield improved research and provide a better value for the American taxpayer.