

[Your Name]
[Your Address]
[City, State, ZIP Code]
[Email Address]
[Phone Number]
[Date]

[Congressional Leader's Name]
[Congressional Leader's Address]
[City, State, ZIP Code]

Dear [Congressional Leader's Name],

I am writing to urge you to support an increase in NASA's science budget to ensure that the Geospace Dynamics Constellation (GDC) and DYNAMIC missions are developed and launched by the end of the decade. The recent 2025 Presidential Budget Request called for the cancellation of GDC and did not include funding for the companion DYNAMIC mission. As a constituent who is passionate about space weather and its potentially dire effects on our technological society, I urge you to act to ensure these critical missions receive the needed support to proceed. The full cost of DYNAMIC is only \$250M with about \$20M needed to start the program. GDC has been in “pause” and needs a level of funding for FY 25 consistent with that established by the Independent Review Board to move forward with the mission as originally envisaged in the 2013 Decadal Survey.

GDC and DYNAMIC are the only NASA missions in planning which study the Earth's thermosphere and ionosphere and how they respond to both space weather and also to waves traveling up from the lower atmosphere. Studying this altitude region provides the U.S. with strategic economic and military capabilities. The thermosphere and ionosphere have become increasingly important because processes that occur there have profound impacts on our technological infrastructure, including satellite communications, satellite orbits, GPS systems, and power grids. Space weather can have dangerous impacts on these crucial systems, yet our understanding of the relevant processes is woefully lacking. The cancellation of the GDC mission and the insufficient funding for the DYNAMIC mission represent a significant setback in our efforts to understand the thermosphere and ionosphere and forecast the effects of space weather. Without adequate monitoring of these atmospheric regions, which is required to improve space weather forecasting capabilities, we are vulnerable to potentially catastrophic disruptions that could have far-reaching consequences for our economy and national security.

GDC and DYNAMIC were deemed top priority in the National Academies of Science's Heliophysics decadal survey, which was commissioned by Congress. Without sufficient funding, these missions cannot move forward, leaving critical gaps in our knowledge and capabilities. Investing in these missions is essential for safeguarding our technological infrastructure.

As my elected representative, I urge you to join me in advocating for the necessary resources to support these vital missions. Your attention to this matter is much appreciated, and I look forward to your support in ensuring the success of the GDC and DYNAMIC missions.

Sincerely,
[Your Name]