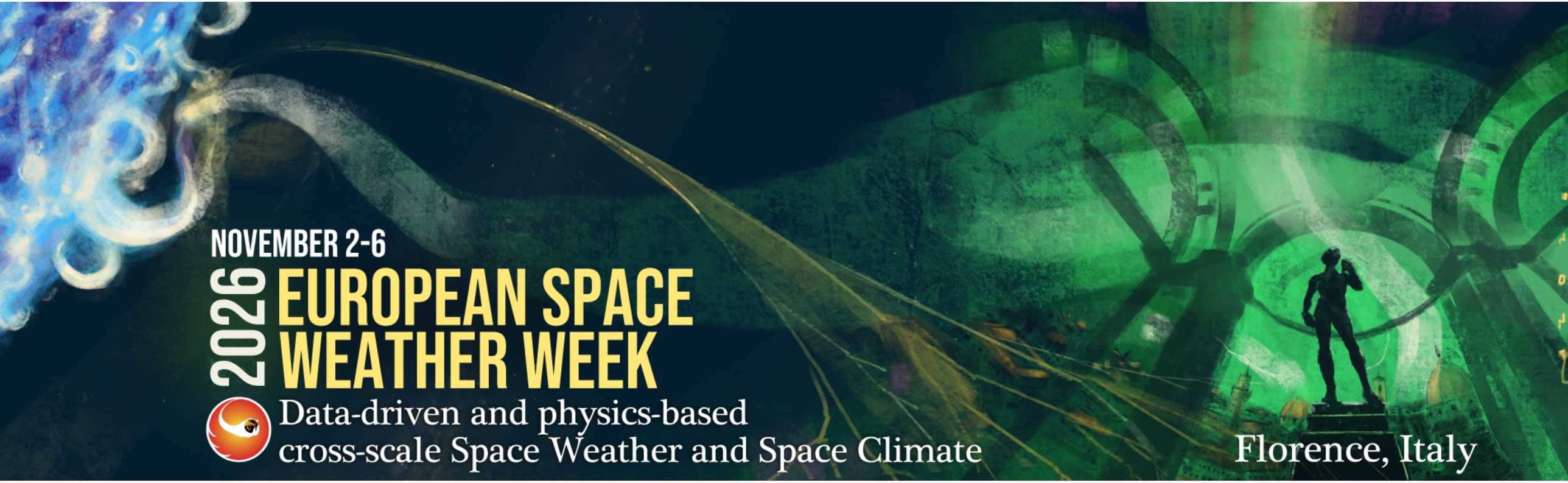
Space Weather Training Course



e-swan

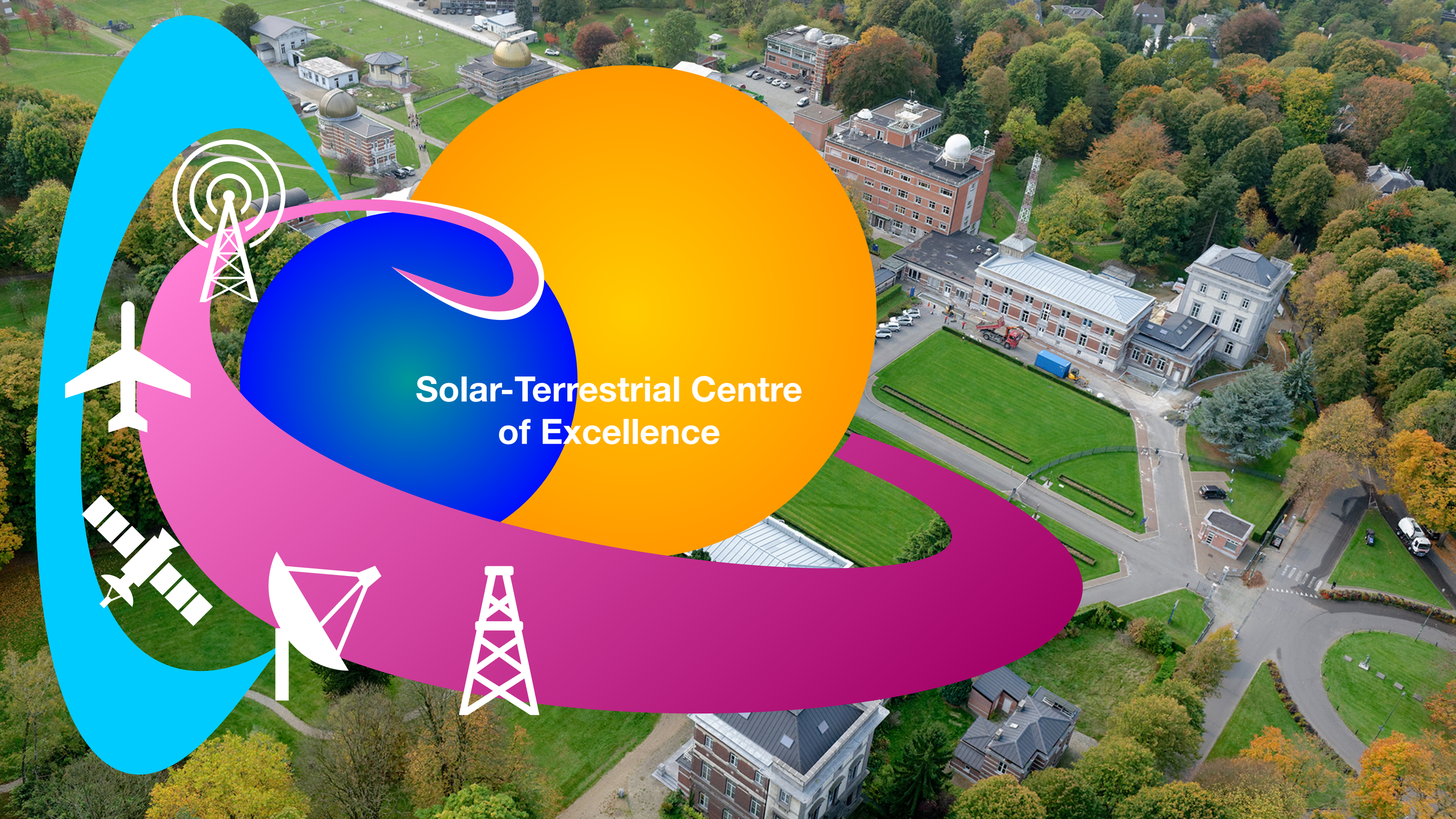
SWEC
Space Weather Education Centre

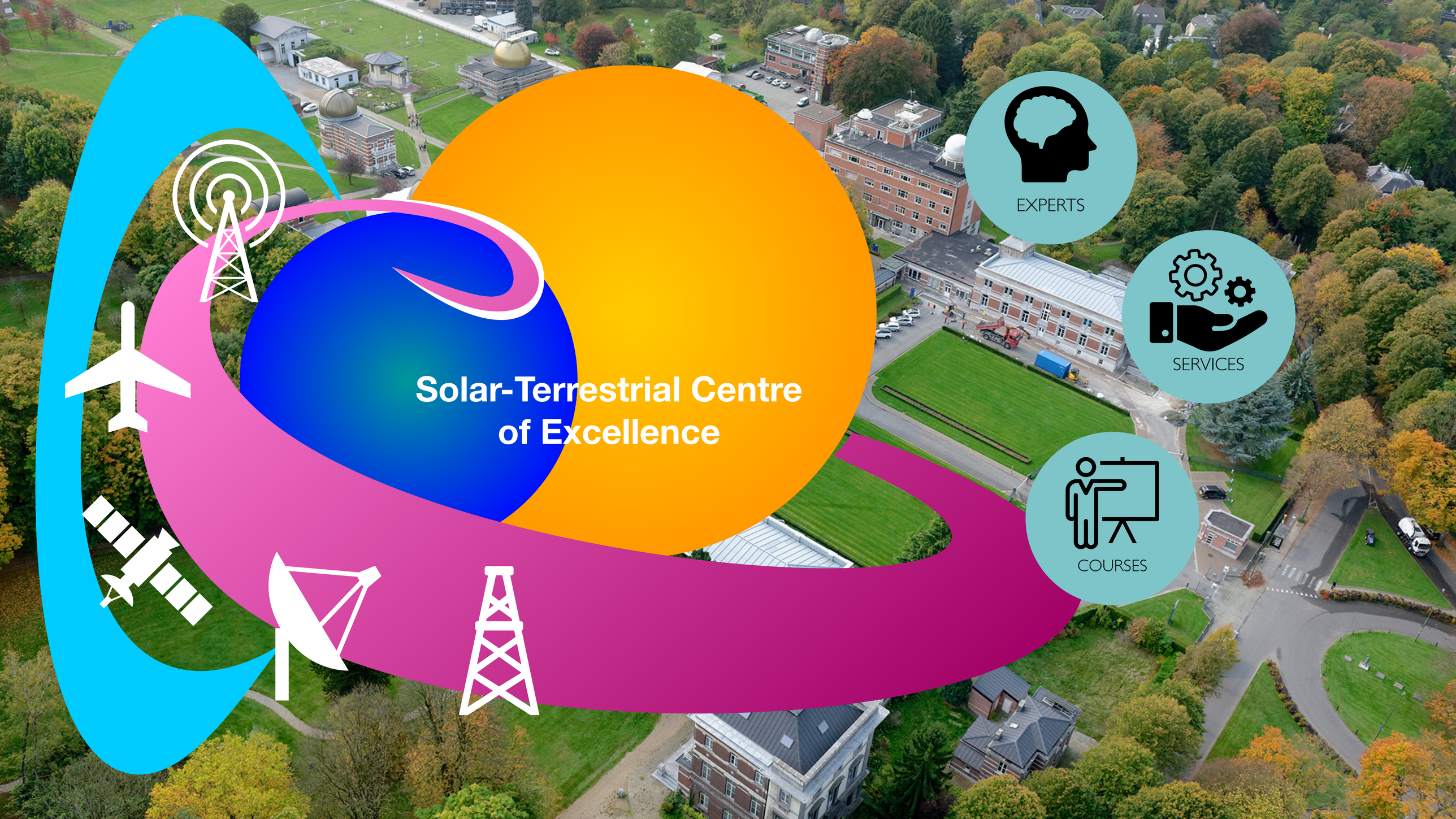
COMMUNITY COORDINATED MODELING CENTER

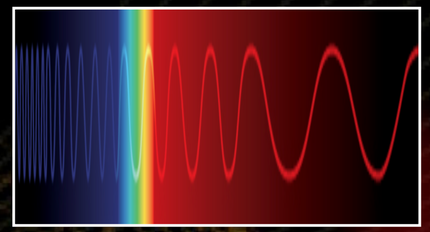

Rue Circulaire 3, Brussels, Belgium

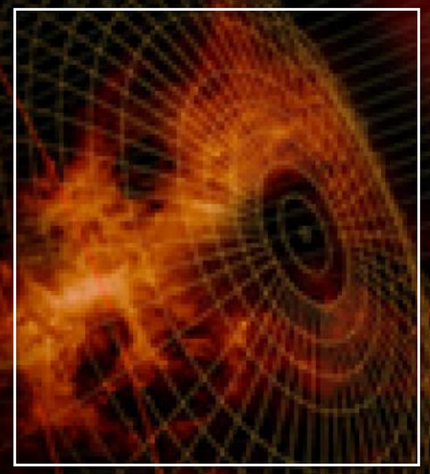

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Aeronomy
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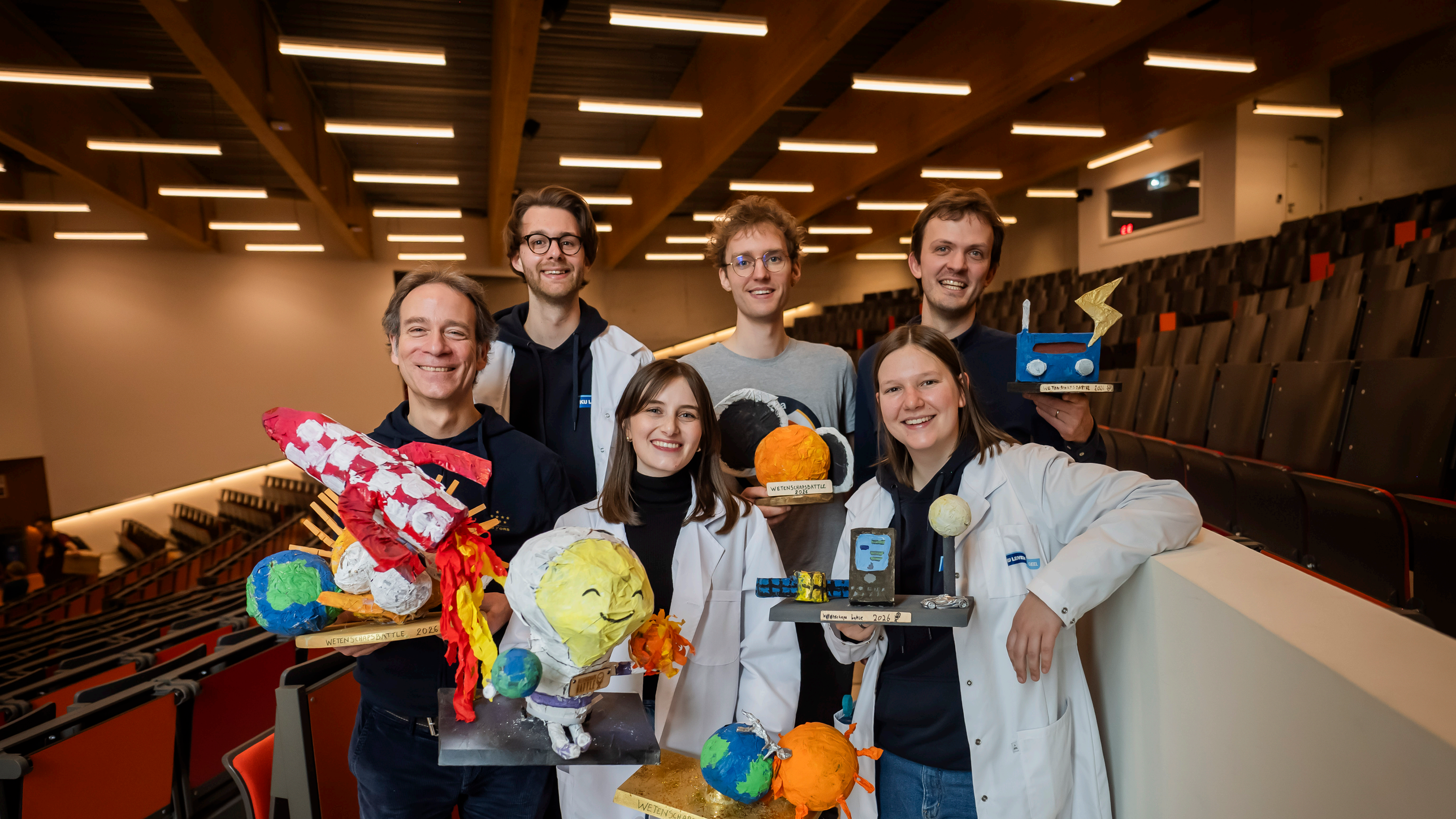


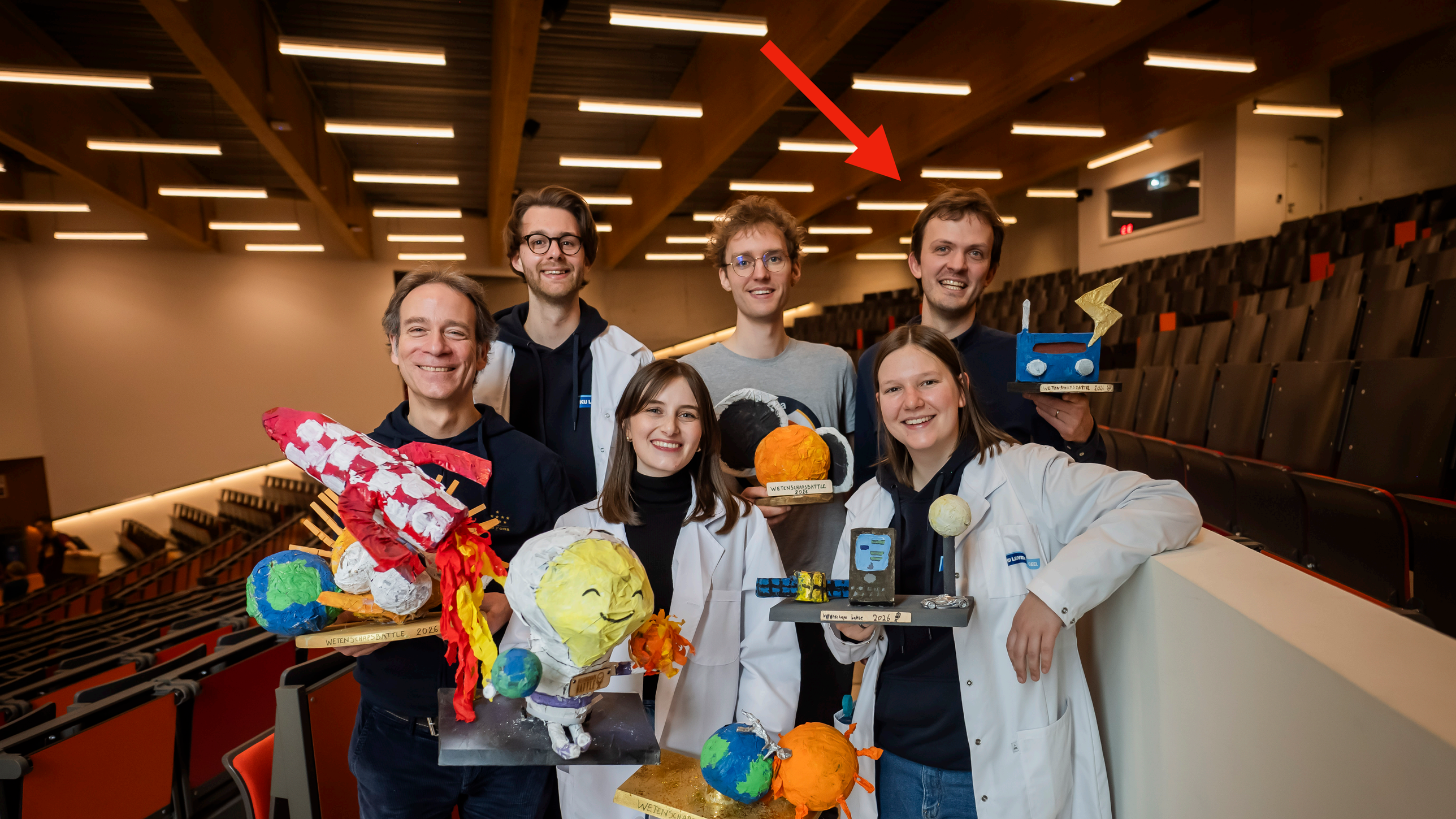




SPACE WEATHER

Why is this important?

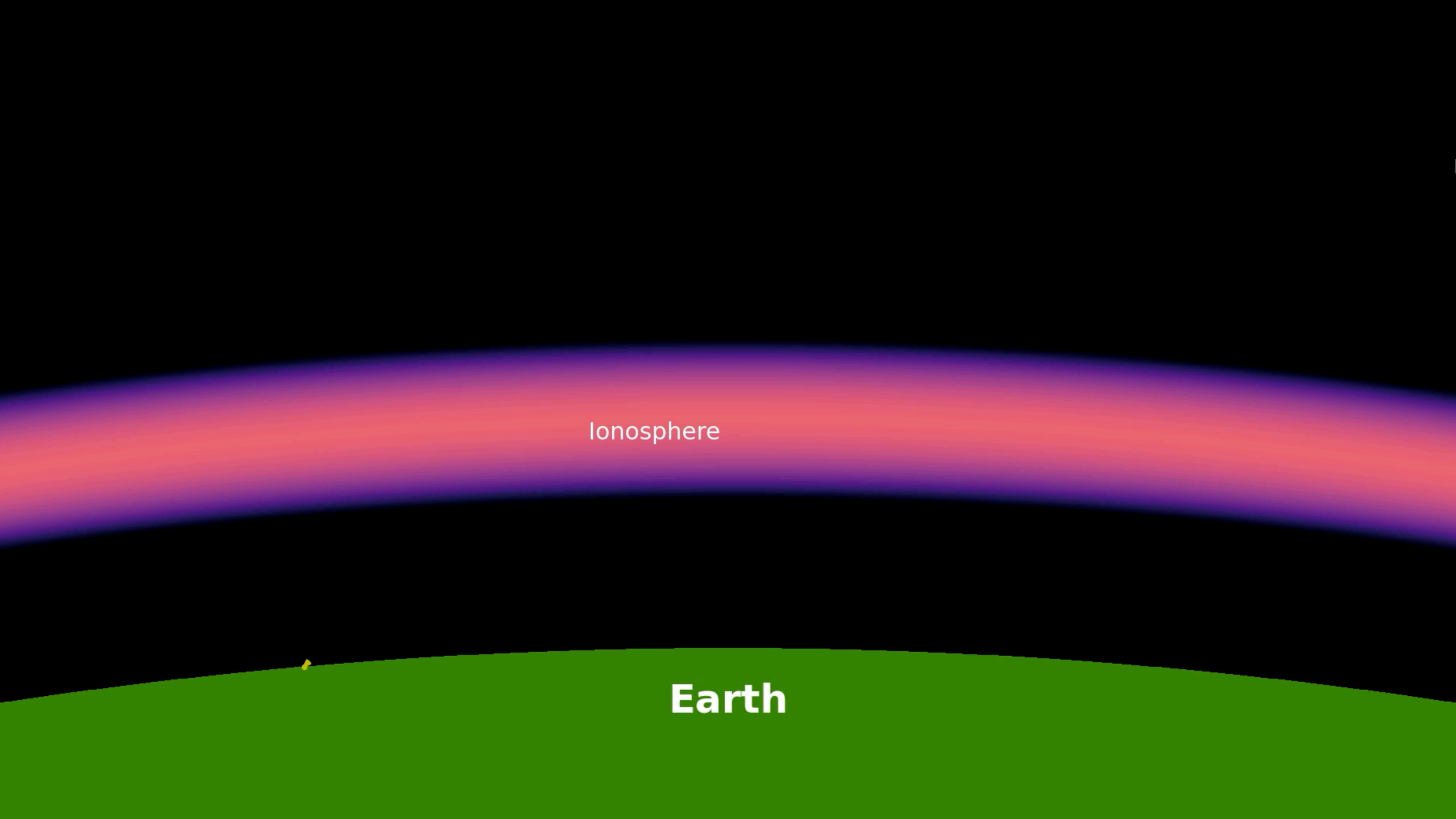

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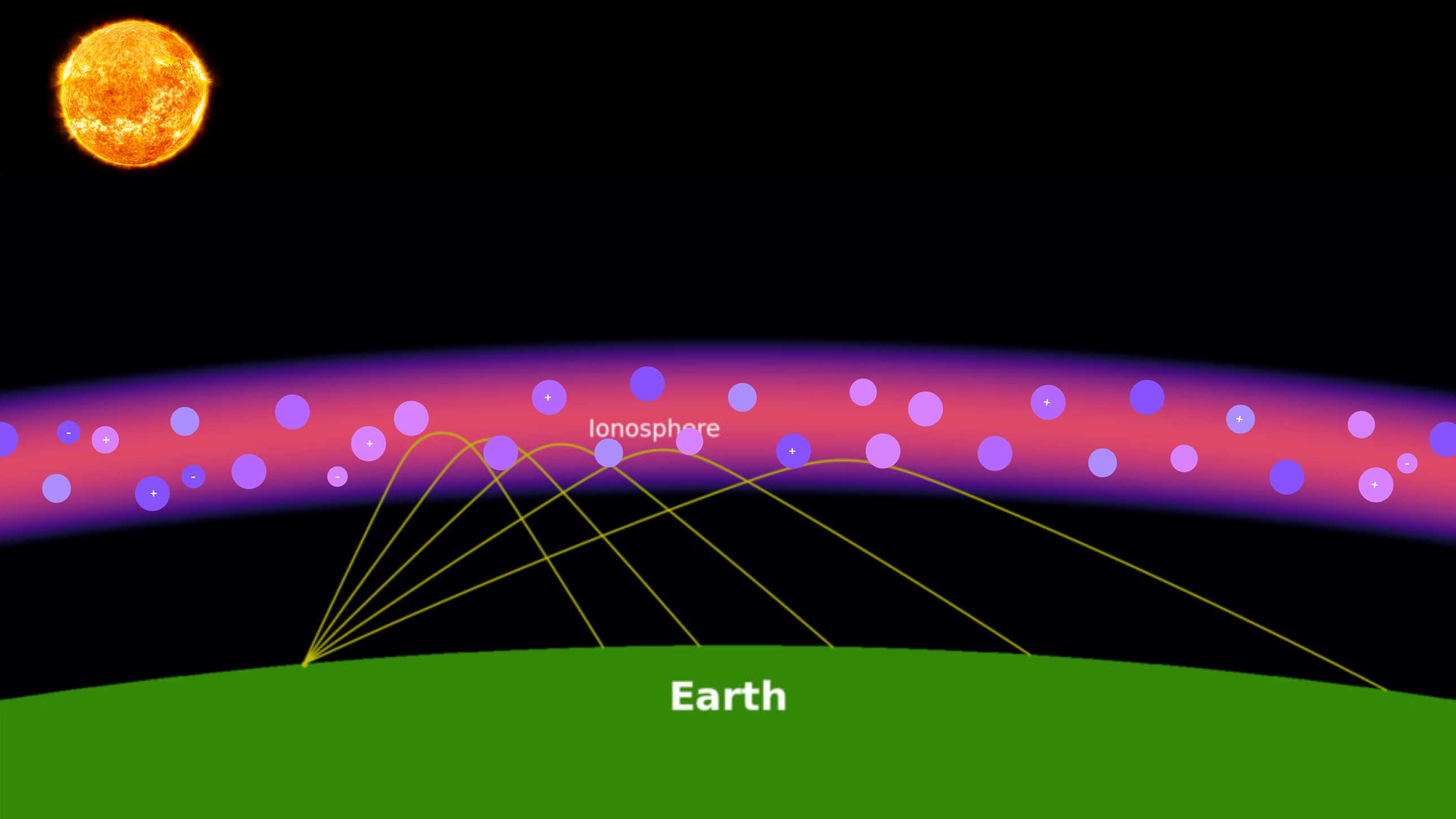

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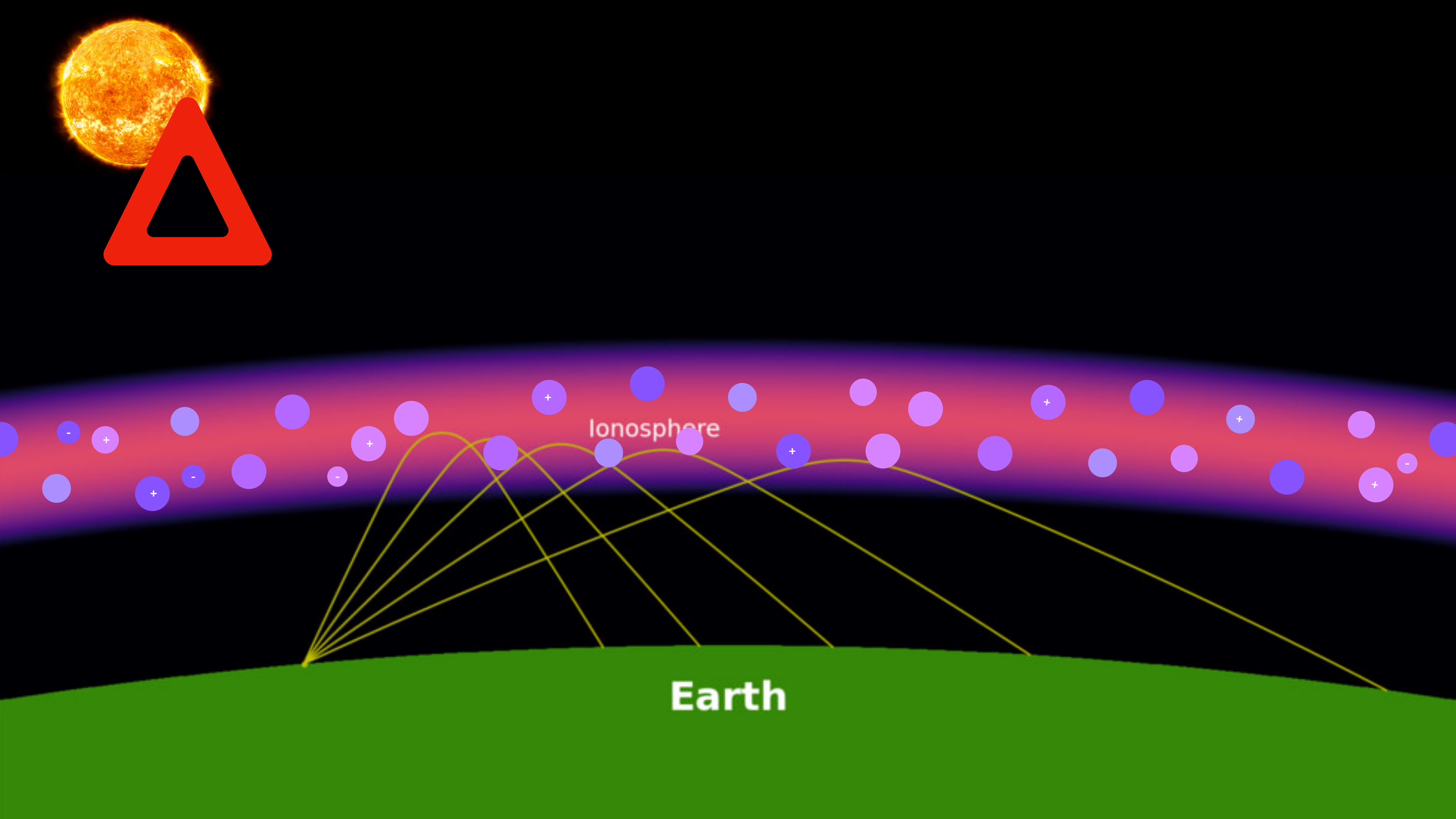


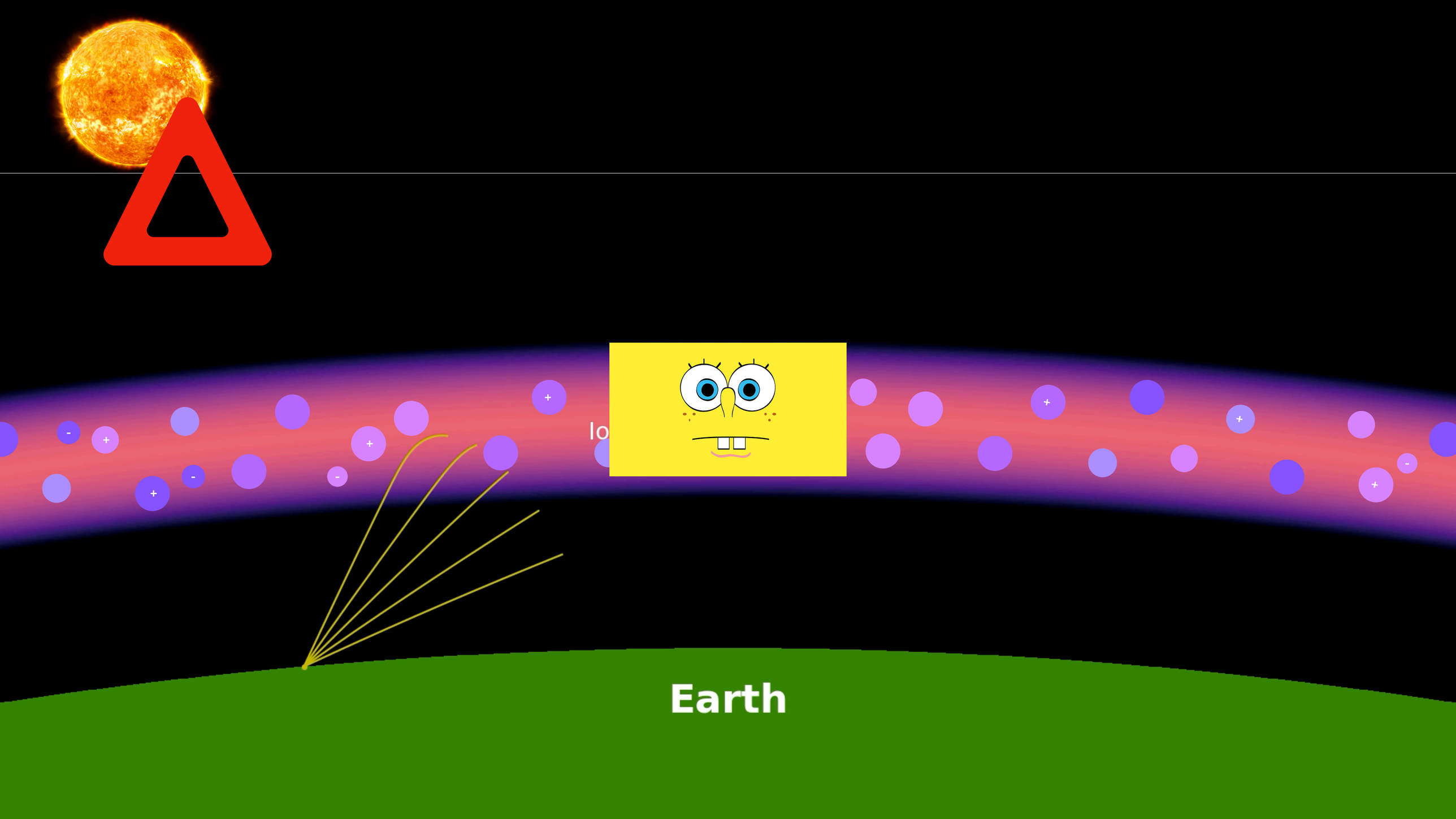
DEFENSIE


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Ionosphere
Earth


Ionosphere
Earth

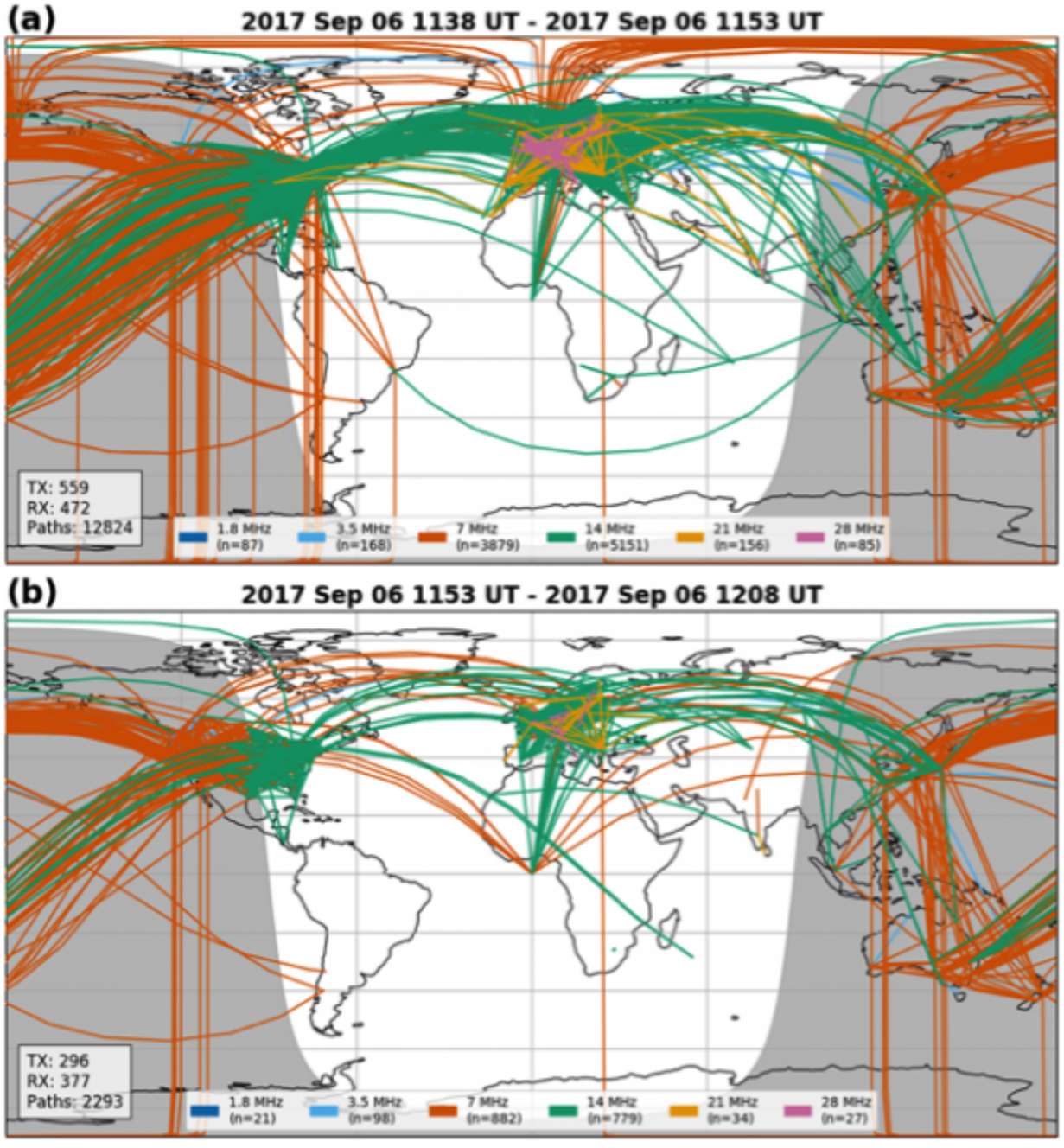

Ionosphere
Earth


Earth

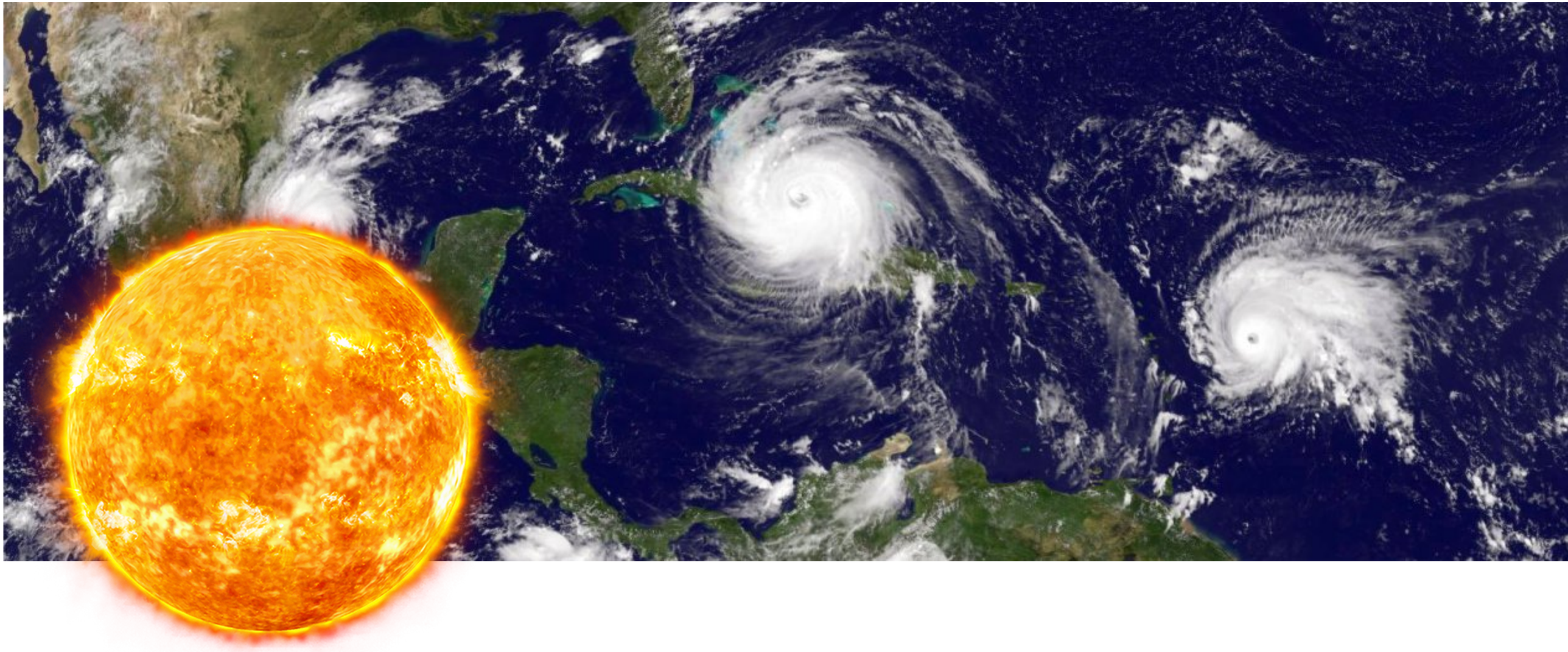
Sept 2017

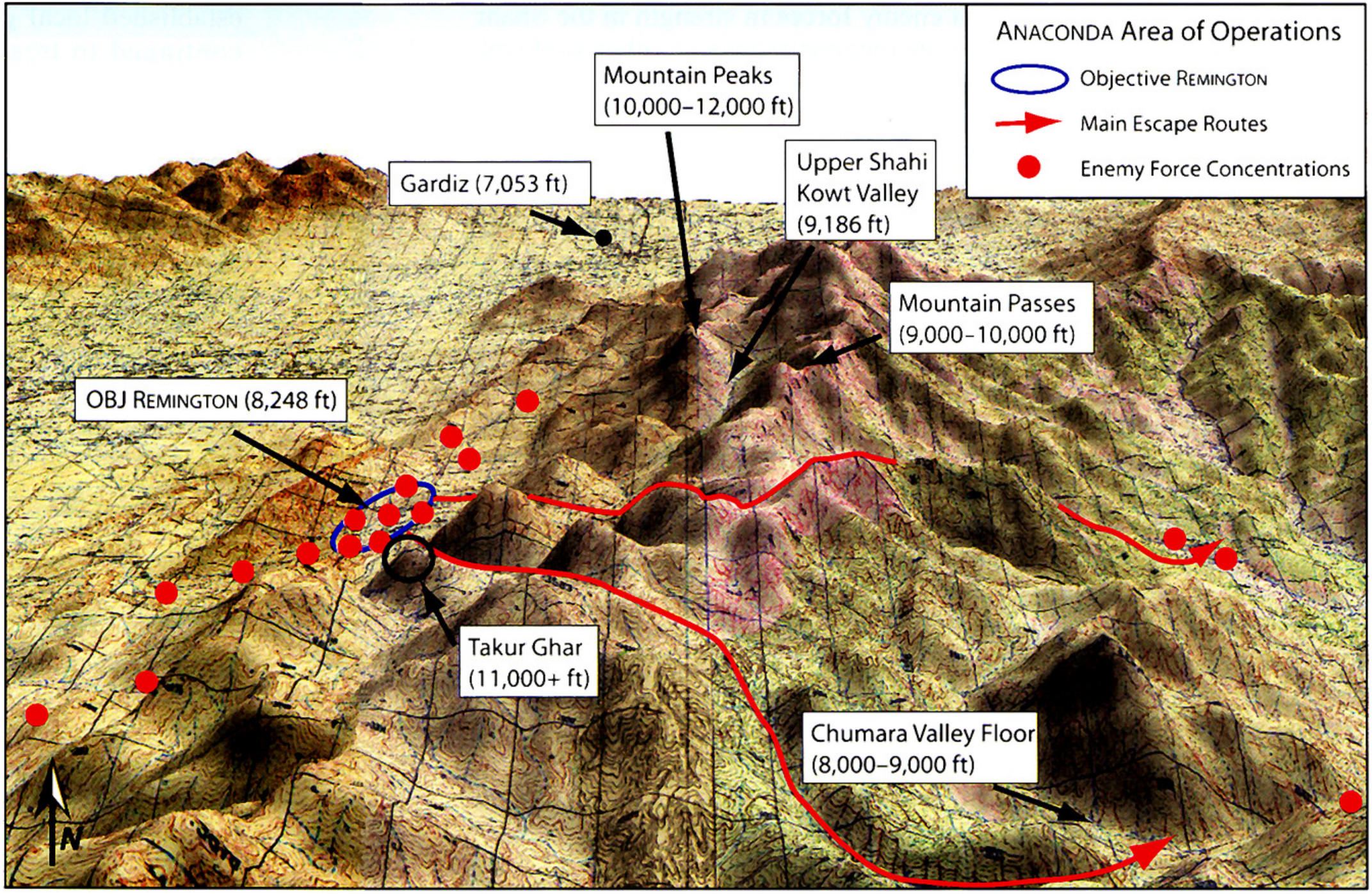
Sept 2017 - Hurricane train

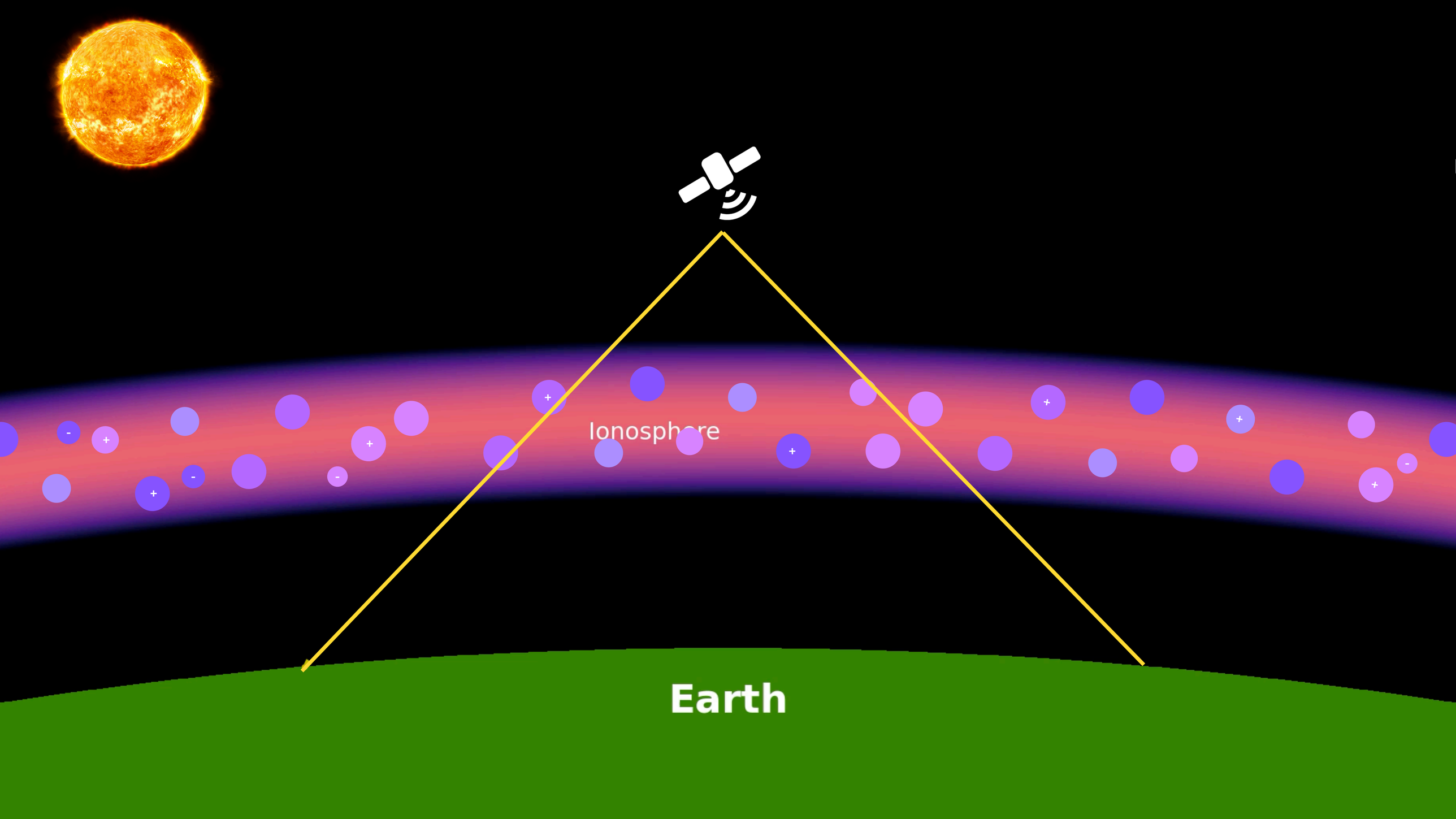


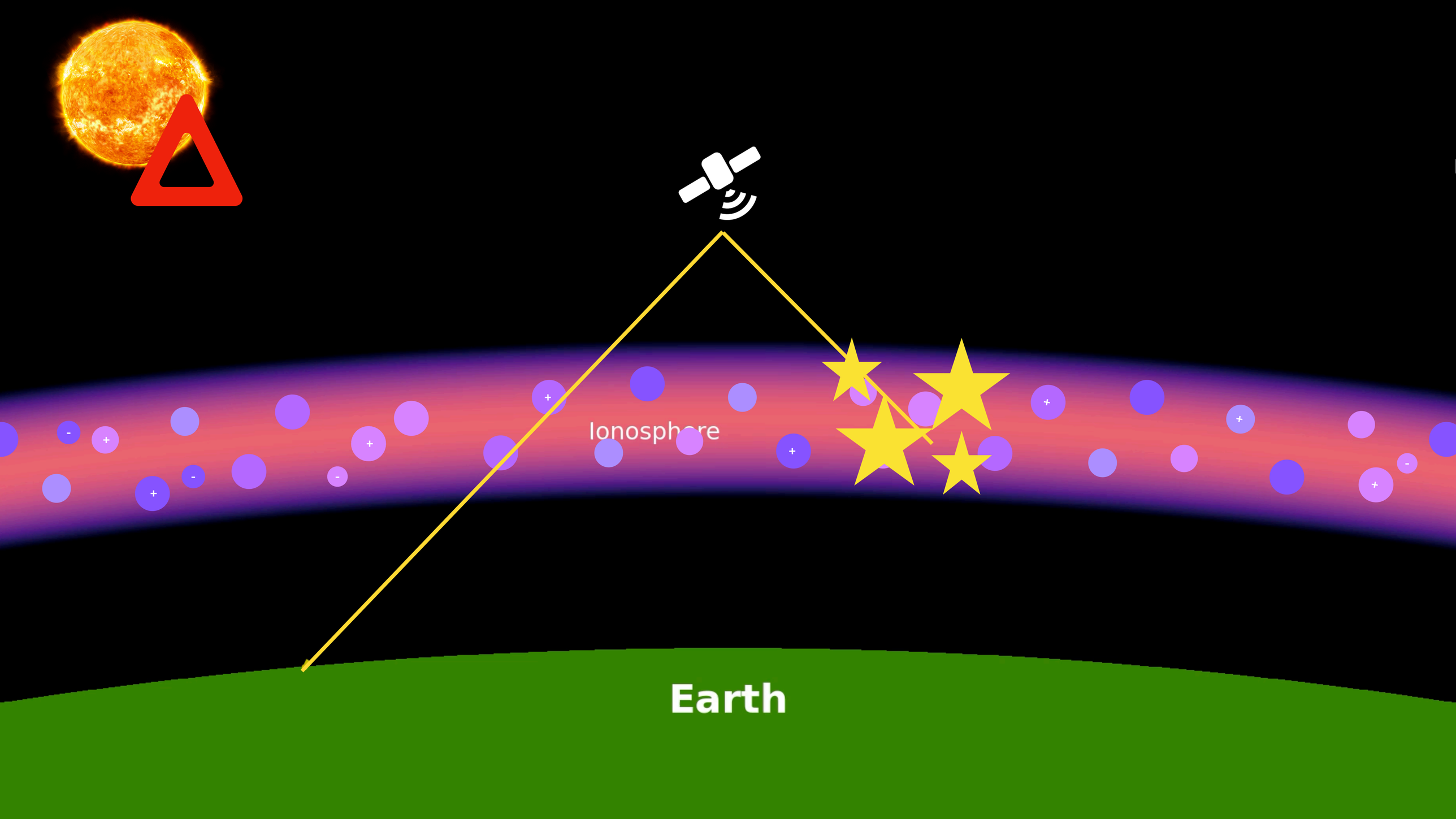

(a)
2017 Sep 06 1138 UT - 2017 Sep 06 1153 UT
TX: 559
RX: 472
Paths: 12824
1.8 MHz (n=87)
3.5 MHz (n=168)
7 MHz (n=3879)
14 MHz (n=5151)
21 MHz (n=156)
28 MHz (n=85)
(b)
2017 Sep 06 1153 UT - 2017 Sep 06 1208 UT
TX: 296
RX: 377
Paths: 2293
1.8 MHz (n=21)
3.5 MHz (n=98)
7 MHz (n=882)
14 MHz (n=779)
21 MHz (n=34)
28 MHz (n=27)

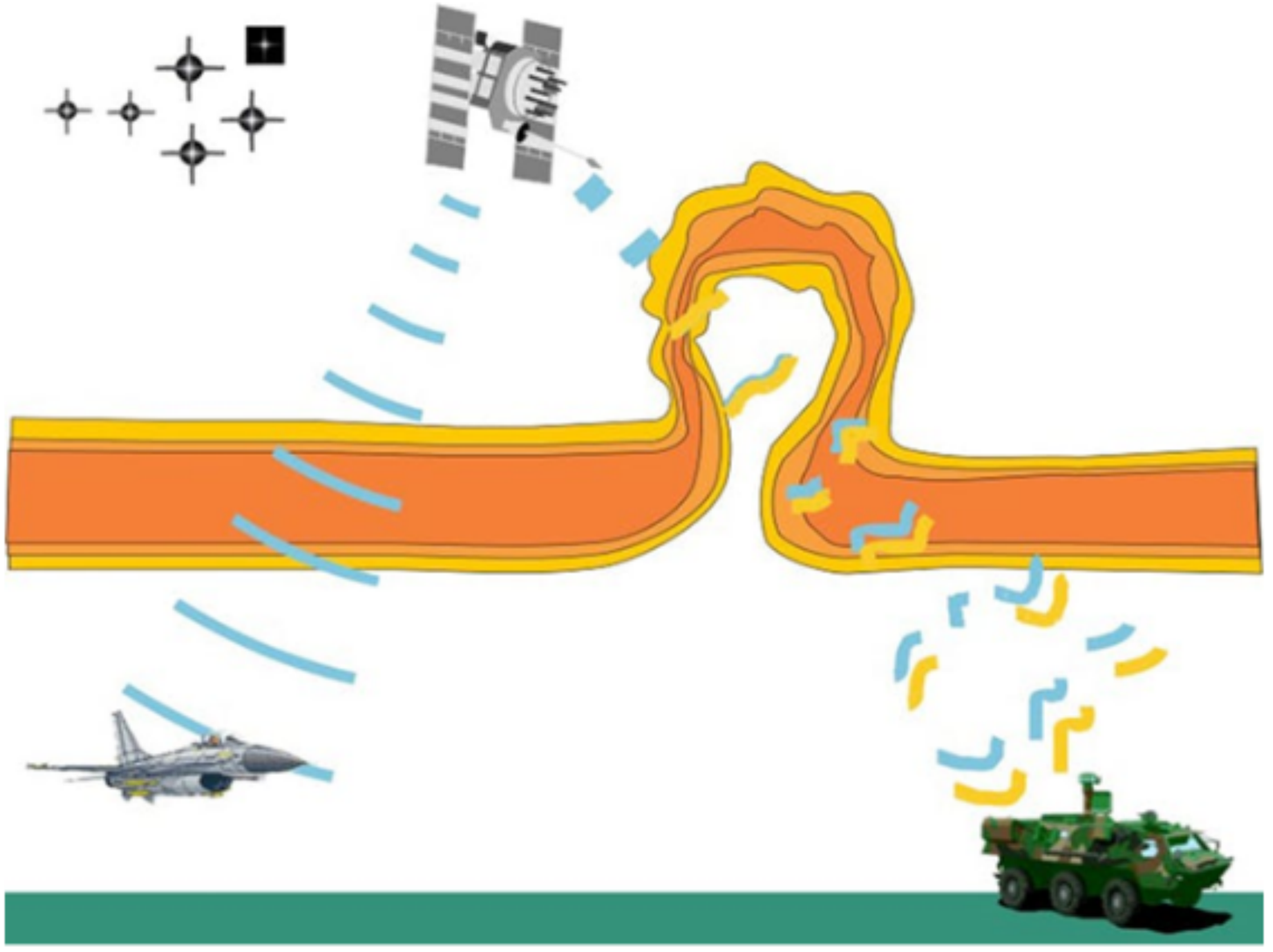
Sept 2017 - Earth and space storms were aligned




ANACONDA Area of Operations
Objective REMINGTON
Main Escape Routes
Enemy Force Concentrations
Mountain Peaks
(10,000–12,000 ft)
Gardiz (7,053 ft)
Upper Shahi
Kowt Valley
(9,186 ft)
Mountain Passes
(9,000–10,000 ft)
OBJ REMINGTON (8,248 ft)
Takur Ghar
(11,000+ ft)
Chumara Valley Floor
(8,000–9,000 ft)
N


Ionosphere
Earth


Ionosphere
Earth



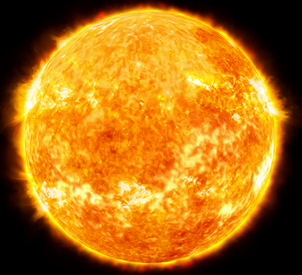
April 2010



As you are aware there was a very interesting geomagnetic storm period over the Easter period this year, this period was particularly significant as the disturbed space environment caused a number of spacecraft anomalies, including the well publicised Galaxy 15 failure suffered by our competitor Intelsat. The Presto Alerts and Daily Bulletins ('URSIGRAM') issued by SIDC at the time were superior to alternative products issued by NOAA SWPC, both in terms of timeliness and content.

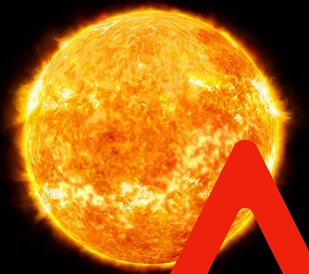
In general I find that the level of technical content and commentary included in your Daily Bulletins and other products are exactly what we need as a spacecraft operator, and I find that these products compare very favourably with the alternative products issued by NOAA SWPC. You are tending to include greater detail in your commentary regarding events observed on the sun and the effects likely to be experience at earth, we value this additional detail.

I hope these comments are of use and trust that your team will keep up the good work!





Earth





Earth

Los of altitude due to drag

Wed, Oct 12, 2022

Newsweek

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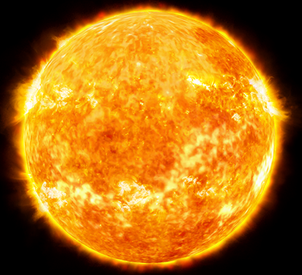
TECH & SCIENCE

'Destruction Event' From Sun Annihilated Dozens of SpaceX Satellites

BY ED BROWNE ON 9/16/22 AT 5:38 AM EDT

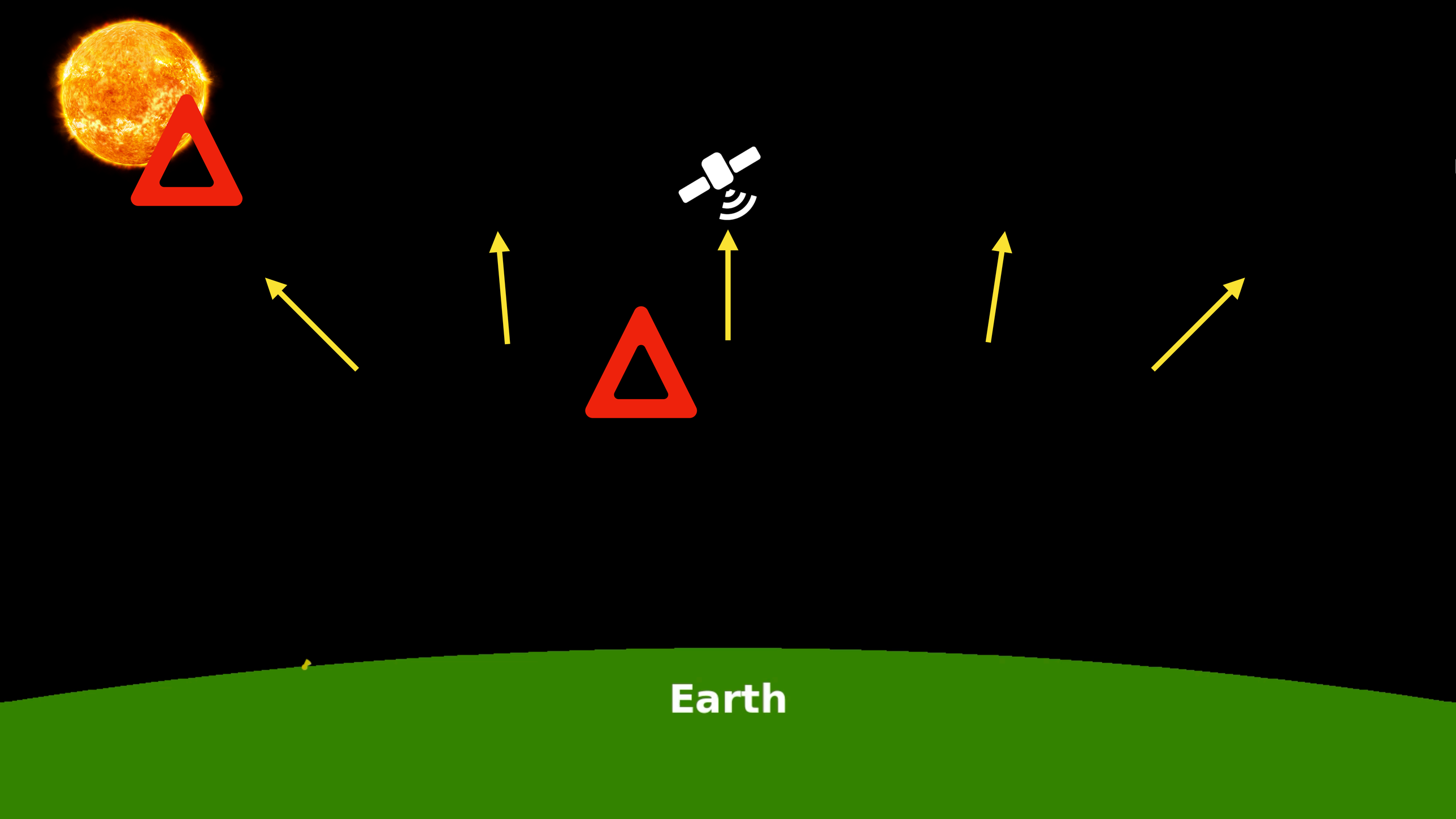








Earth


Earth

Things are not always what they seem.

