

Aviation Experiment Questionnaire



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This questionnaire is intended to obtain background information from the Aviation Experiment participants and others in the aviation industry to gauge the level of familiarity with space weather disturbances, general space weather products, and ICAO space weather advisories.

Please answer any of the following questions that you can based on your experience. Feel free to skip any questions that are outside your expertise. Also, feel free to forward this questionnaire to others you may know in the industry who have knowledge about space weather and may have opinions about existing space weather products and improvements that could be made.

Please indicate your role in the aviation industry (e.g., air traffic controller, pilot, flight scheduler, flight attendant, etc.).

Your answer

Have you experienced space-weather-related issues in any of these categories (check all that apply)?

- ☐ HF-radio communication problems
- ☐ Limited GNSS accuracy
- ☐ Elevated radiation levels
- ☐ I have not experienced space-weather-related flight issues
- ☐ Other:



Which SWPC products have you used for situational awareness (check all that apply)?

- ☐ D-Region Absorption Product (DRAP)
- ☐ Solar flare forecasts
- ☐ Solar flare alerts (R scale)
- ☐ Solar energetic particle event forecasts
- ☐ Solar energetic particle event warnings
- ☐ Solar energetic particle event alerts (S scale)
- ☐ Geomagnetic activity forecasts
- ☐ Geomagnetic activity watches
- ☐ Geomagnetic activity warnings
- ☐ Geomagnetic activity alerts (G scale)
- ☐ I have not used SWPC products for situational awareness
- ☐ Other:



Which SWPC products have you used to aid decision making before or during a specific event (check all that apply)?

- ☐ D-Region Absorption Product (DRAP)
- ☐ Solar flare forecasts
- ☐ Solar flare alerts (R scale)
- ☐ Solar energetic particle event forecasts
- ☐ Solar energetic particle event warnings
- ☐ Solar energetic particle event alerts (S scale)
- ☐ Geomagnetic activity forecasts
- ☐ Geomagnetic activity watches
- ☐ Geomagnetic activity warnings
- ☐ Geomagnetic activity alerts (G scale)
- ☐ I have not used SWPC products for situational awareness
- ☐ Other:

If you have not used SWPC products for space weather events, what are the reasons (check all that apply)?

- ☐ Unaware that the event was caused by space weather
- ☐ Uncertain which SWPC products pertained to the event
- ☐ Uncertain how to use the products to inform decisions
- ☐ Existing products were not sufficiently timely or accurate to be actionable
- ☐ Existing products didn't address the specific space weather conditions
- ☐ Unable to find the relevant information in a timely manner
- ☐ Other:



Which of the ICAO advisories have you used or are you aware of being used (check all that apply)?

- ☐ Amplitude scintillation
- ☐ Phase scintillation
- ☐ Total Electron Content
- ☐ Post-storm Maximum Usable Frequency (MUF) depression
- ☐ Auroral absorption
- ☐ Polar cap absorption
- ☐ Shortwave fadeout
- ☐ Radiation
- ☐ I have not used nor am I aware of uses of the ICAO advisories

If you have used or are aware of uses of the ICAO advisories, please describe the actions that were taken, the utility of the advisories and any suggestions you may have for improving them.

Your answer

If you have not used or are unaware of uses of the ICAO advisories, please indicate why you think they were not used.

Your answer



If you have experienced HF-communication issues due to space weather events, what changes in existing products or new products would enable you to make more effective decisions before or during an event?

Your answer

If you have experienced GNSS navigation issues due to space weather events, what changes in existing products or new products would enable you to make more effective decisions before or during an event?

Your answer

If you have experienced radiation issues due to space weather events, what changes in existing products or new products would enable you to make more effective decisions before or during an event?

Your answer

What suggestions do you have for how space weather information should be communicated to aviation-industry users?

Your answer

If an information dashboard would be useful, what suggestions do you have for what information should be available and how it should be organized?

Your answer



What question should we have asked you?

Your answer

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