COSPAR

Panel on Radiation Belt Environment Modeling (PRBEM)

15 April 2026



Chair:

Yoshi Miyoshi (Japan), 2024 – 2028* (miyoshi – at – isee.nagoya-u.ac.jp)

Vice-Chairs:

Antoine Brunet (France), 2024 – 2028*

Yuri Shprits (Germany), 2022 – 2026

Yihua Zheng (USA), 2022 – 2026

Intercommission/Panel/Task Group Liaisons:

SC C: O'Brien, P. (USA), 2018 – 2022

SC D3: Shprits, Y. (Germany/USA), 2018 – 2022

PSW: Jiggens, P. (ESA/ESTEC), 2022 – 2024*

TGCSS: Yoshi Miyoshi (Japan), 20023 – 2027

Terms of Reference:

The Panel was established to develop a standard model of the Earth's trapped radiation belts. The model should be based on experimental data using all available space data sources, while theoretical considerations will serve to guarantee optimal model construction and use, and internal consistency. The functionality of the model should be defined in terms of the needs of the user community. Guidelines should be defined for developing standardized radiation monitors. Where discrepancies exist between different data sources, the PRBEM should promote critical discussion to establish the quality of the data sets. The model should be updated as new data become available and as old data bases are fully evaluated and exploited. A liaison should be established and maintained with the international scientific and space engineering communities, such as the IACG and ISO TC20/SC14/WG14, in order to ensure the availability and usability of data and models

for radiation belt modeling and to encourage the sharing of modeling expertise.

For further details please visit the **PRBEM home page**.

* (after officer term) = second and final term in the office indicated