



## Overview

- Mars Mission and Space Radiation Risks
- Health Standards Decision Framework

*Steve Davison, NASA-HQ, 30 min*

*David Liskowsky, NASA-HQ, 10 min*

## Space Radiation Environment

- Introduction
- Solar Energetic Particles
- Comparison and Validation of GCR Models
- GCR Radiation Environment Predictions
- Emerging GCR Data from AMS-2

*Chris St. Cyr, NASA-GSFC, 5 min*

*Allan Tylka, NASA-GSFC, 30 min*

*Tony Slaba, NASA-LaRC, 30 min*

*Nathan Schwadron, Univ. of NH, 30 min*

*Veronica Bindi, Univ. of Hawaii, 30 min*

## Radiation Health Risk Projections

*Eddie Semones, NASA-JSC, 45 min*

- NCRP Recommendations, Permissible Exposure Limits, Space Radiation Cancer Risk Model, Operations and In-Flight Solar Particle Event Mitigations

## Space Radiation R&T for Risk Mitigation

*Lisa Simonsen, NASA-LaRC, 45 min*

- Radiobiology Research Portfolio (Cancer, CNS, Cardio) and Spacecraft Shielding Design, Analysis, and Optimization