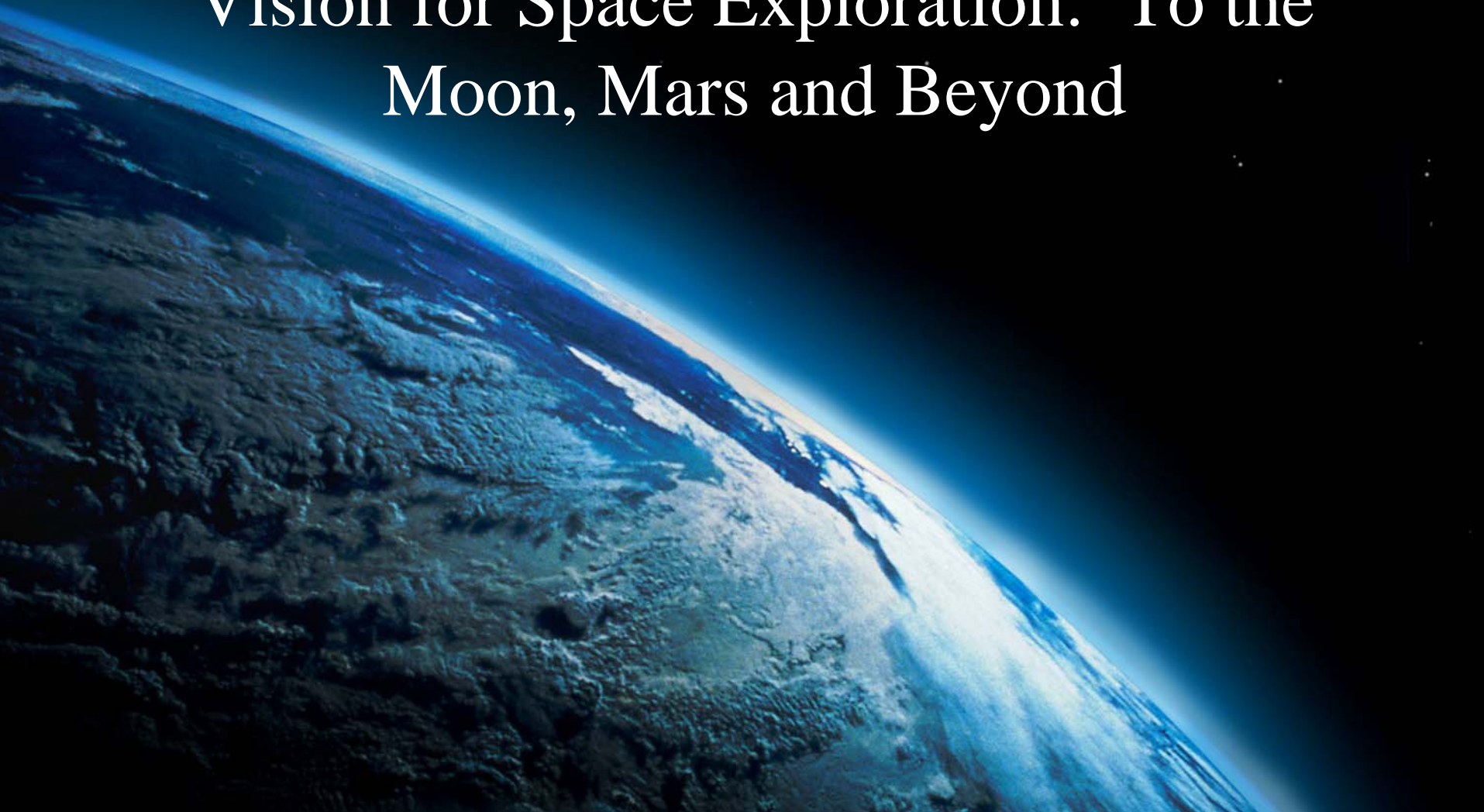


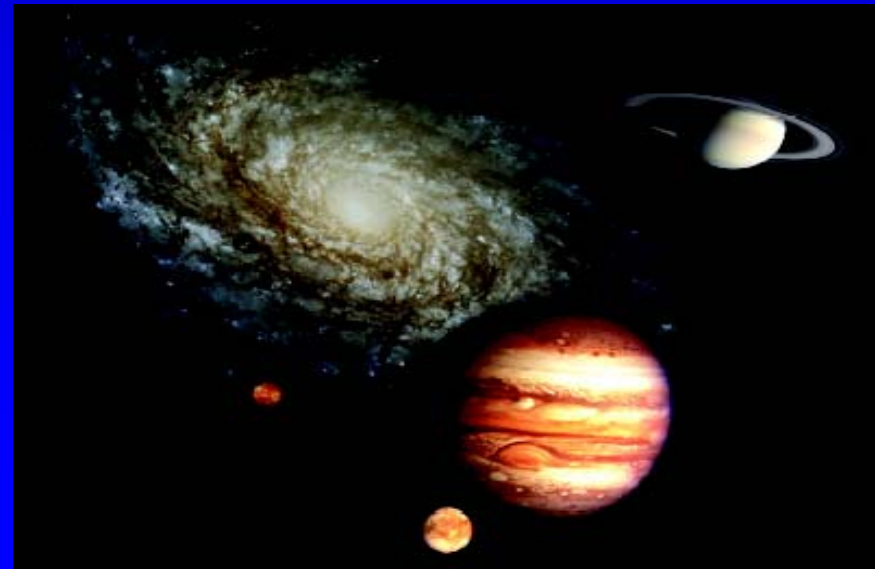


# Vision for Space Exploration: To the Moon, Mars and Beyond



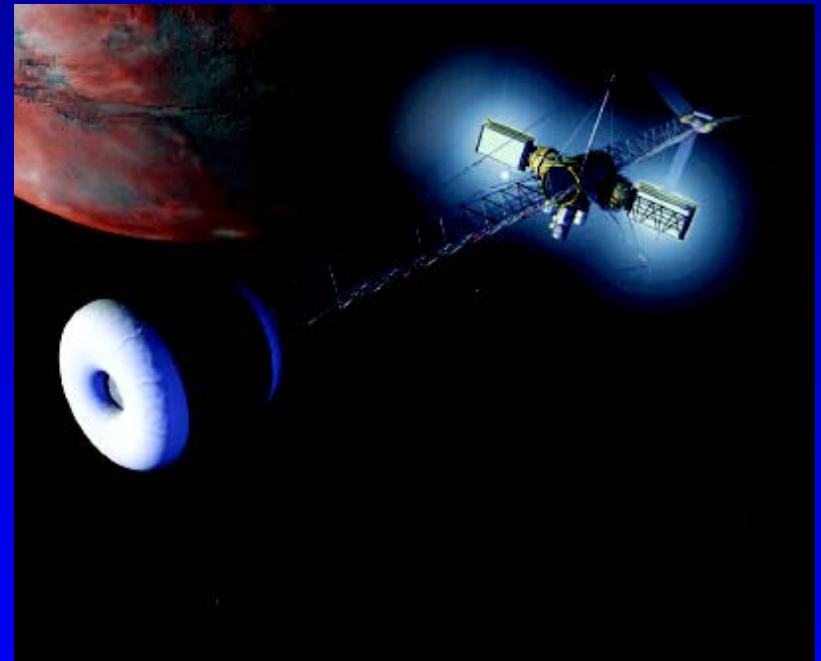
# Background

- On January 14, 2004, US President Bush proclaimed a new exploration initiative for NASA---go to the Moon by 2020, Mars next and beyond Mars later
- NASA working on architecture and funding for new initiative
  - Tentative plans include completing ISS development by 2010, ending Shuttle flights by 2010 and re-directing other funding to exploration priorities



# Current Initiatives

- Some of ARISS USA team currently participating in exploration initiative
  - Frank Bauer was on the NASA “Blue Team” to develop requirements and flesh out architecture
  - Debbie Brown-Biggs (NASA HQ Education) has requested Rosalie White and Frank Bauer to develop tentative plans/ideas for the role of amateur radio in the exploration initiative
  - Frank Bauer is on the Strategic Roadmapping Team for Lunar Exploration



# The Future

- ARISS team developing Exploration Initiative strategy
- ARISS's solid performance and outstanding international teamwork is recognized and respected by the Space Agencies
- Some hardware thoughts:
  - Repeater on the moon?
  - Mars telecom satellite?
  - Hamsats at Moon-Earth libration point?
  - Audio? Video? Astronaut psych ops support?
- The challenges will be high due to the long path lengths
- The time to act is **NOW**, while interest within NASA is high



# Conclusions

- Phase 1 and a portion of the Phase 2 hardware has been delivered on ISS on 5 launches
- Multi-mode, multi operations capability is now a reality on ISS
- Payload provides an outstanding Educational Outreach foundation for ISS
- ARISS's solid performance and outstanding international teamwork is recognized and respected by the Space Agencies
- We are now positioned to venture beyond Earth orbit---IS AMSAT READY??



**Frank Culbertson During Scout Jamboree on the Air**

# ARISS Information

<http://www.rac.ca/ariss>

