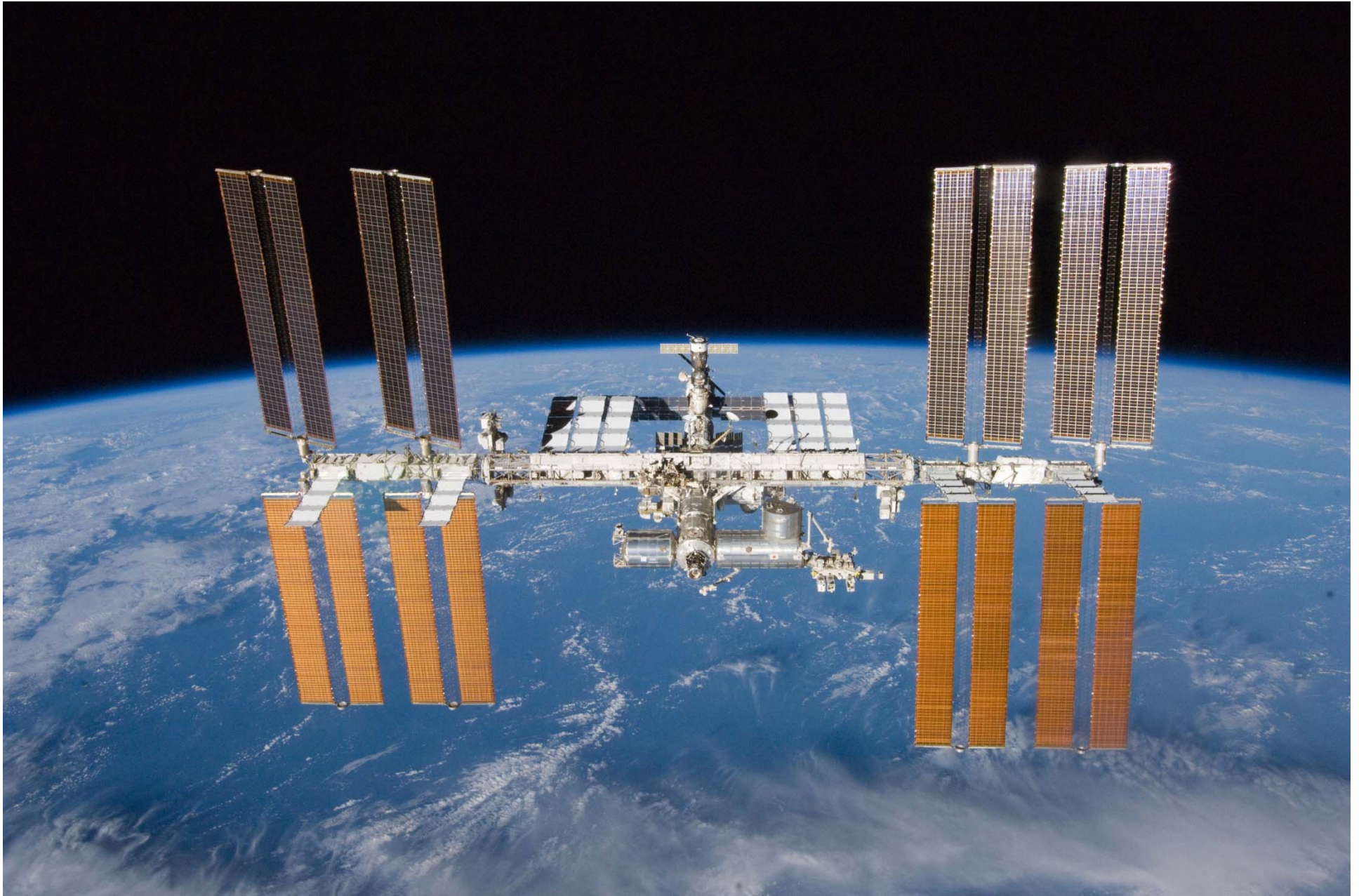


Dick Flagg AH6NM



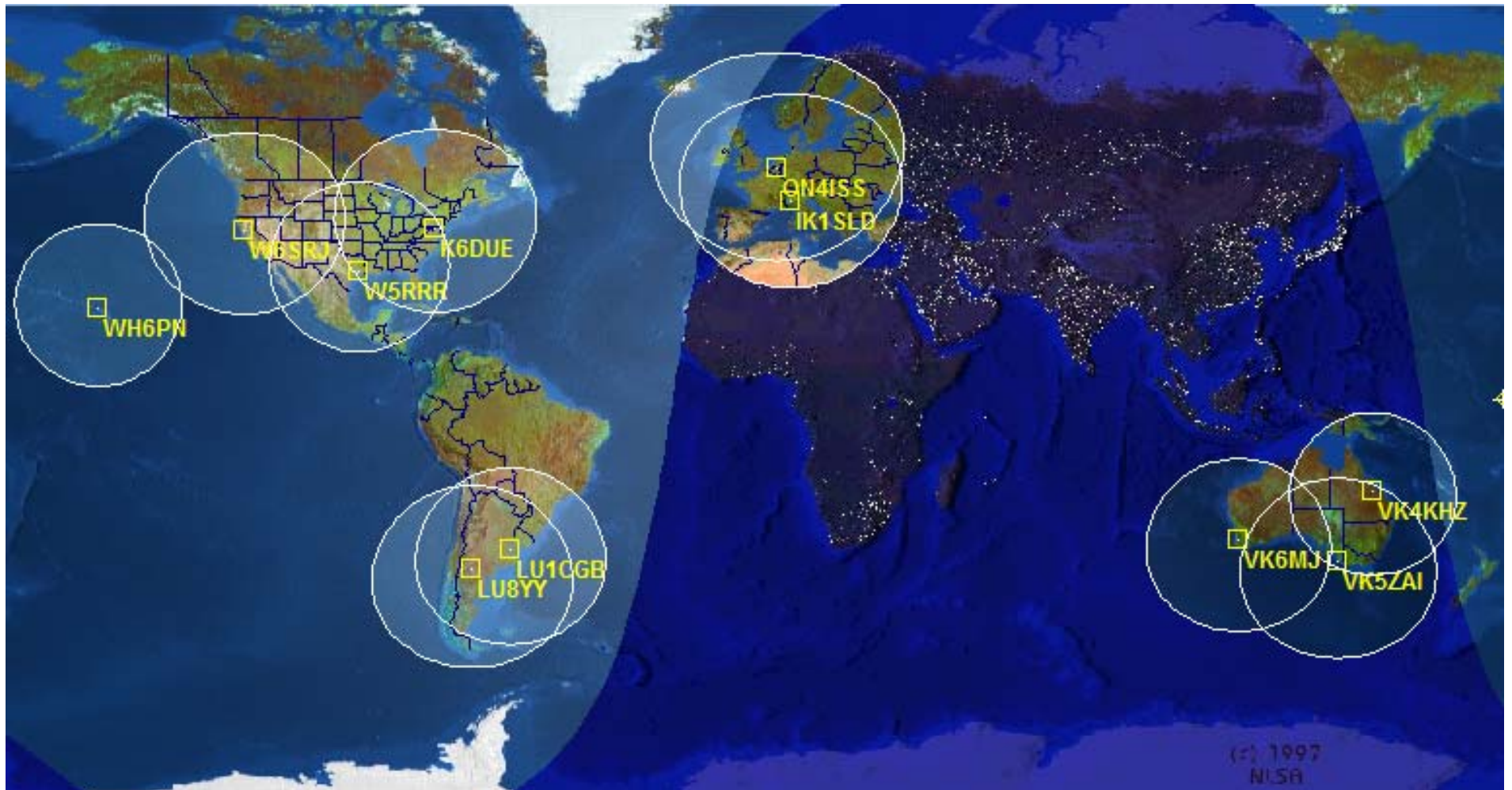


Space Segment – Licensed Crew, Antennas, Radio

Contact Planning

- **School Application**
 - Educational plan
- **School constraints**
 - Direct / telebridge
 - Location, times available
- **ISS constraints**
 - Crew availability
 - ISS orbital position

Telebridge Network



Hawaii Telebridge Station History

- McKinley HS 1990 – 1992 (SAREX)
- Sacred Hearts Academy (SHA) 1993 to present (SAREX and ARISS)
- SHA station built w/ school funds and assistance from GTE Mobilenet
 - Betty White, Nancy Rocheleau (WH6PN)
 - Mike Scott (N6GOZ), Steve Teegarden (WH6IC), Bob Hlivak (NH6XO), Peter Brown (KH6IRT), Rich Weigand AH6MC/W7MTN)
- First Telebridge Contact in 1993
- Radio Club – 250 students over the years
- Over 40 ham licenses



Student Participation

- Station Prep – (SOP)
 - Confirm settings for transceiver
 - Update computer orbital elements
 - Update computer clock
 - Check telephone
 - Generate ephemeris for manual tracking
 - Verify proper antenna motion
 - Run Signal Strength Recorder







Sacred Hearts Academy

SAREX - ARISS Contacts

- 46 SAREX (Shuttle)
 - 15 Personal (family, friends of crew)
- 69 ARISS (ISS)
- 19 States, 17 Countries
- Total to date 115 Space contacts
- 15 Q per contact = over 1700 questions
- 100 present at each contact = 10,000 viewed ham radio in action