

AMSAT- OSCAR 40

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Agenda

- *Phase 1 & Phase 2*
- *Phase 3*
- *Communications range*
- *Features*
- *Frequencies and equipment*

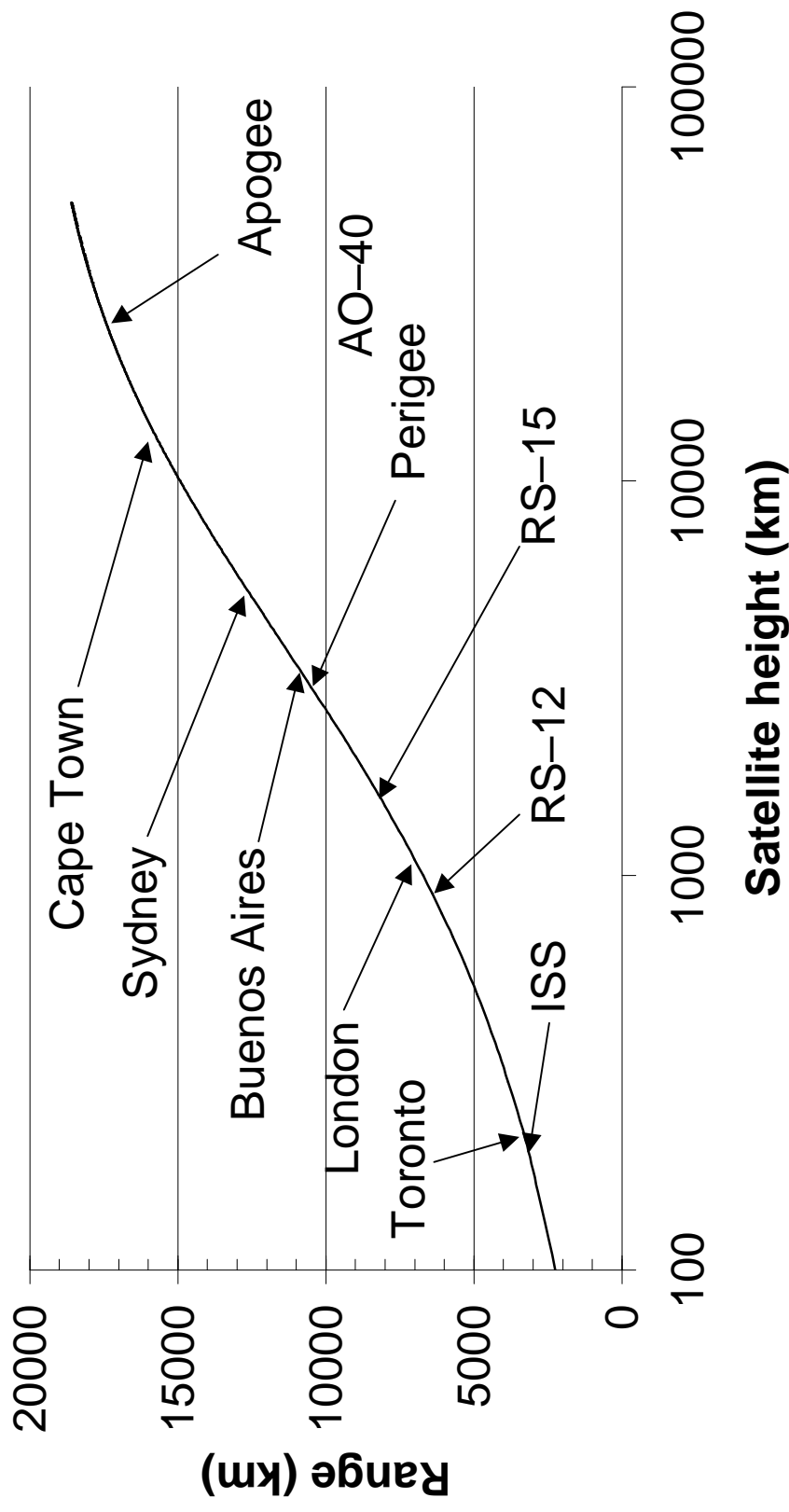
Phase 1 & Phase 2

- *Phase 1: low orbit, short life*
- *OSCAR-1*
- *Phase 2: low orbit, long life*
- *OSCAR-6 through OSCAR-8*
- *Current applications*

Phase 3

- *High orbit, long lifetime*
- *Phase 3A: launch failure, 1980*
- *Phase 3B: OSCAR-10, 1983--present*
- *Phase 3C: OSCAR-13, 1988--1996*
- *Phase 3D: OSCAR-40, 2000--present*

Communications range



Features

- *High power, directional antennas*
- *3-axis stabilization*
- *Microwave communication*
- *IF matrix*
- *LEILA*

Frequencies and equipment

- *Up: 146, 435, 1268, 5670 MHz*
- *Down: 146, 435, 2400, 10450, 24050 MHz*
- *Uplink power: 5–50 watts*
- *Antennas: yagi, helix, dish*
- *New, kit, surplus, homebrew*