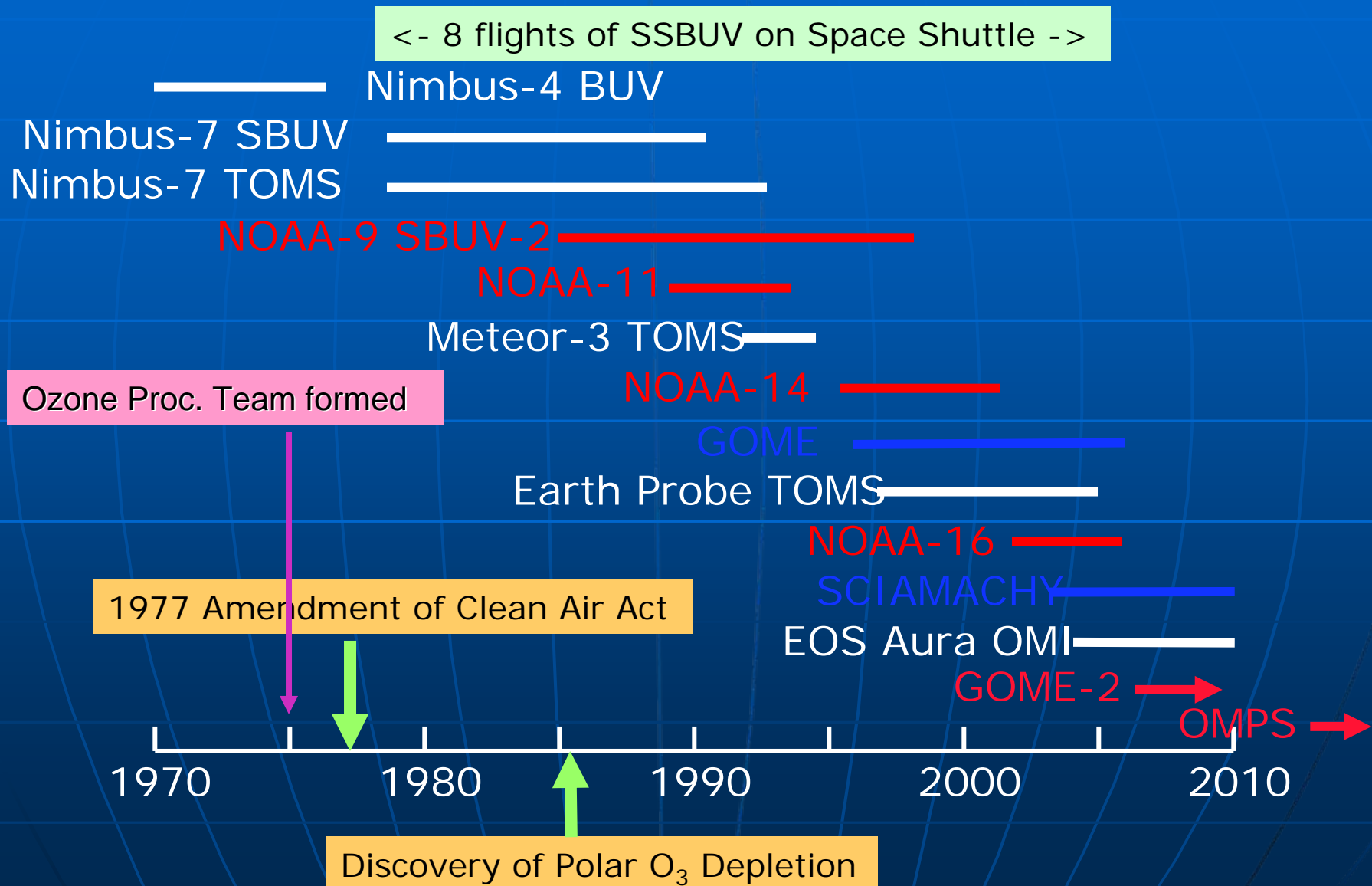




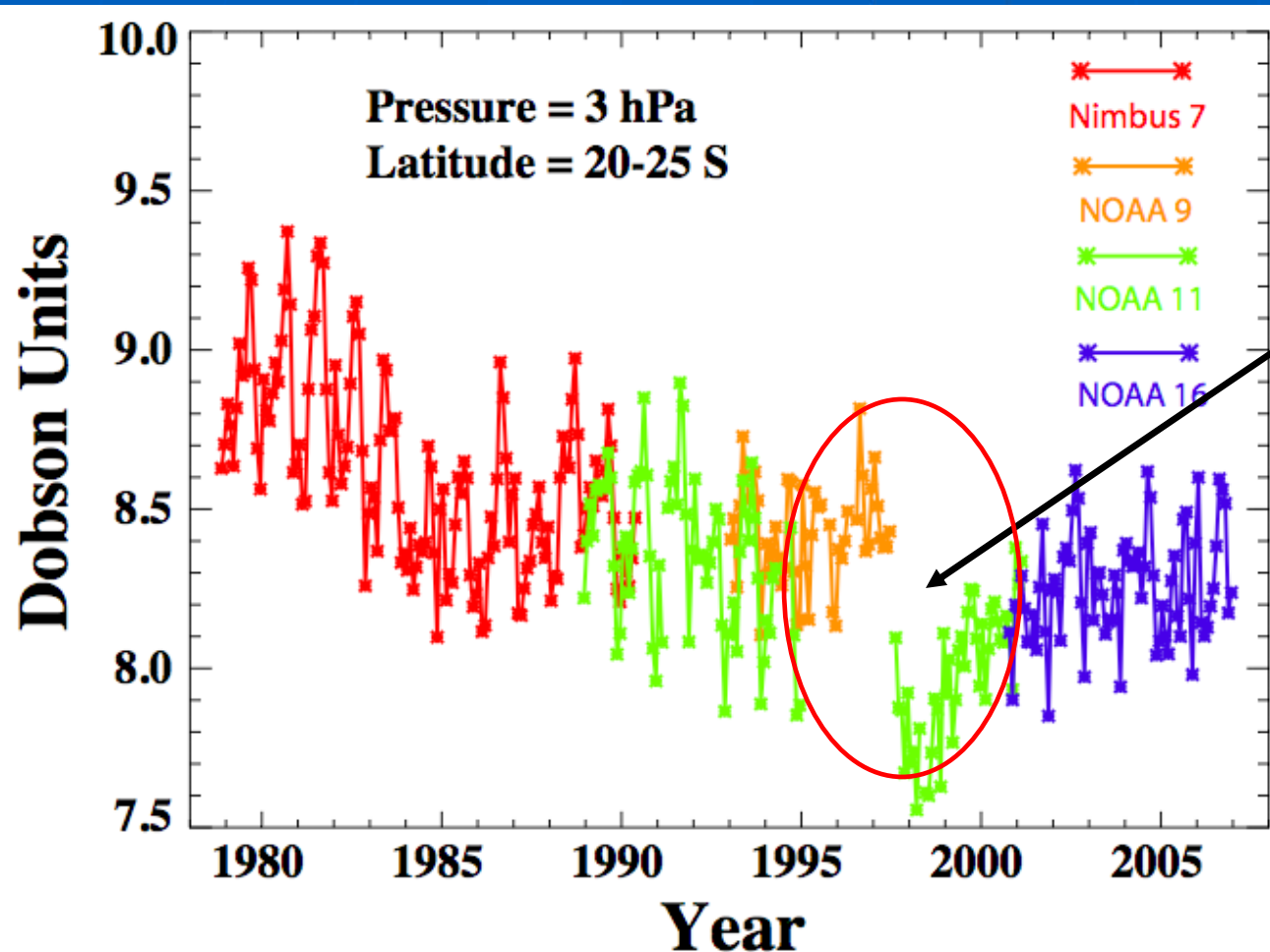
Issues in Creating a Long Term Multi-Sensor Ozone Data Record

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40 Years of BUV Observations



Data gaps are a problem in constructing a long term ozone data set



Major issue is establishing relative calibration when there is no overlap of instruments in good parts of drifting orbits; as in 1997 with NOAA 9 and NOAA 11.

Data from SAGE was used to bridge the calibration gap.

Global-scale ozone trends from TOMS and SBUV

Measurements: Total Column Ozone

- Future satellite measurements are needed to observe the expected recovery of ozone in response to the Montreal Protocol.
- Backscatter ultraviolet instruments (TOMS and SBUV) have been measuring the total column ozone amount almost continuously since 1978.
- We merged the data from various satellites for the past 25 years to create this data set. We will continue to incorporate new data from SBUV, OMI, and OMPS.

