



Artist's rendition of the Upper Atmosphere Research Satellite (UARS) superimposed on a sunrise view of the Atlantic Ocean off the coast of Jacksonville, Florida on February 23, 2003. NASA's UARS satellite is one of 48 different international Earth-observing satellites used throughout this book. It was deployed from Space Shuttle Discovery on September 14, 1991 and raised to an orbital altitude of 600 km where it provided observations of the Earth's atmospheric chemical composition until the end of 2005, circling the globe for over 5000 days. (Photograph from the International Space Station, NASA image number ISS006-E-32544.)