



---

## TABLES

The Planets as Seen from the Sun	15
Solar Temperatures	37
Solar Wind Velocities	50
Manifestations of Solar Activity	69
Earth's Radiation Belts	90
Solar Energy Received at the Earth	103
Energy and Corresponding Temperature of Atomic Particles	112
Solar Particles that Impinge upon the Earth	113
Distances in Units of the Radius of the Earth	129
Price of Admission for Charged Atomic Particles	132
Numbers of Solar and Cosmic Particles Incident Upon the Earth	135
Impacts of Solar Variability and Their Origin on the Sun	140
Energies of Charged Atomic Particles that Strike the Earth	142
Three Stages of a Magnetic Storm	146
Types of Auroral Displays	153
Upper Thermosphere Temperatures	154
Layers of the Ionosphere	159
Origins of Solar Radiation and Regions Affected	160
Impacts of Solar Variability and Their Societal Effects	162
Dose Rate of Galactic Cosmic Radiation at Aircraft Altitudes	169
Aircraft Altitudes in Relation to Atmospheric Features	170
Flight Paths and Hazards of Aircraft and Spacecraft	175
Manned Space Flights which have left the Magnetosphere	178
Orbital Altitudes and Proximate Atmospheric Features	187
Some Major Electric Power Disruptions	203
Recent Prolonged Episodes of Unusual Levels of Solar Activity	216
Useful Space Weather Predictions	238
Travel Times from the Sun to the Earth	241
Principal Hazards of Traveling Beyond the Magnetosphere	245
Spacecraft that now Study and Monitor the Sun-Earth System	252, 253