

# **The Digital Universe Definitions**

**COLLABORATORS**

	<i>TITLE :</i> The Digital Universe Definitions		
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## Chapter 1

# The Digital Universe Definitions

### 1.1 Definitions

Definitions are available in the following two categories:

Astronomy

Computers

### 1.2 Astronomical Terminology

A.U.

aberration

absolute zero

aether

albedo

altitude

analemma

annual

angstrom

apparent position

aphelion

apogee

areographic

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asterism

asteroid

astronomical unit  
atomic time

autumnal equinox

azimuth

Bayer designation

belt

binary star

black hole

blink comparator

celestial equator

celestial poles

celestial sphere

Centaur

Cepheid

chromosphere

circumpolar

cluster

cluster, globular

cluster, open (galactic)

comet

conjunction

conjunction, inferior

conjunction, superior

constellation

contact

convection

convection zone

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core

corona

cosmology

counterglow

crescent

declination

deep sky

diurnal

doppler shift  
dynamical time

earthshine

eclipse, annular

eclipse, lunar

eclipse, partial

eclipse, solar

eclipse, total

ecliptic

ecliptic coordinate system

ecliptic latitude

ecliptic longitude

eccentricity

ejecta blanket

elongation

ephemeris

ephemeris time

epoch

escape velocity

equation of time

equatorial coordinate system

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filament  
fireball  
fission  
Flamsteed number  
flare  
fusion  
galactic coordinate system  
galactic latitude  
galactic longitude  
galaxy  
galaxy, Seyfert  
gas giant planet  
gegenschein  
geocentric  
gibbous  
graben  
granulation  
GST  
H-R diagram  
heliocentric  
heliographic  
heliopause  
horizon coordinate system  
hour angle  
Hubble's Law  
hydrogen-alpha line  
IAU  
IC object  
inclination

Julian Date

kelvin

Kuiper Belt

leap second

leap year

libration

light year

limb

limb darkening

local time

LST

LT

magnitude

magnitude, absolute

magnitude, apparent

magnitude, B-V

magnitude, limiting

magnitude, visual

meridian

messier object

meteor

meteor shower

meteorite

meteoroid

Milky Way

minor planet

nadir

naked eye

nebula

nebula, emission

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nebula, absorption

nebula, planetary

nebula, reflection

neutron star

NGC object

nova

nova, recurrent

nutation

oblate

obliquity

occultation

Oort cloud

opposition

orbital elements

parallax

parallax, geocentric or diurnal

parallax, heliocentric or annual

parsec

penumbra

perigee

perihelion

perturbation

phase angle

photosphere

position angle

precession

prominence

proper motion

pulsar

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quadrature

quasar

radiant

radiative zone

reflecting telescope

refracting telescope

refraction

retrograde

revolution

right ascension

rotation

rotation, differential

Saros

selenographic

semidiameter

semimajor axis

Seyfert galaxy

sidereal  
sidereal time

solstice

spectrum

spectral classification

spicule

sunspot

supernova

synodic

System I

System II

System III

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syzygy  
TAI

TD  
TDB  
TDT

terminator

terrestrial planet

topocentric

transit

twilight

umbra  
universal time (UT)

UT0  
UT1  
UTC

variable star

variable, Algol systems

variable, Beta Canis Majoris

variable, Beta Lyrae

variable, Cepheids

variable, Cluster

variable, Dwarf Cepheids

variable, Dwarf Eclipsing

variable, Dwarf Novae

variable, Ellipsoidal

variable, Flare stars

variable, Irregular

variable, Long period

variable, Lyrid systems

variable, Nova-like stars

variable, R Corona Borealis

variable, Recurrent Novae

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variable, RR Lyrae  
variable, RV Tauri  
variable, Semi-regular  
variable, SS Cygni  
vernal equinox  
white dwarf  
year, anomalistic  
year, Besselian (tropical)  
year, eclipse  
year, Gaussian  
year, Gregorian  
year, Julian  
year, sidereal  
zenith  
ZHR  
zodiac  
zodiacal light  
zone

### 1.3 Computer Terminology

gadget  
hypertext  
radio button

### 1.4 Aberration

This information is not provided with the demonstration version of "The Digital Universe". Please consult Ordering The Digital Universe for more information on how to obtain a registered version.

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## 1.5 Absolute Zero

This information is not provided with the demonstration version of "The Digital Universe". Please consult Ordering The Digital Universe for more information on how to obtain a registered version.

## 1.6 Æther

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## 1.7 Albedo

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## 1.8 Altitude

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## 1.9 Analemma

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## 1.10 Annual

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## 1.11 Angstrom

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## 1.12 Apparent Position

This information is not provided with the demonstration version of "The Digital Universe". Please consult Ordering The Digital Universe for more information on how to obtain a registered version.

## 1.13 Aphelion

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## 1.14 Apogee

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## 1.15 Areographic

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## 1.16 Asterism

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## 1.17 Asteroid

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## 1.18 Astronomical Unit

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## 1.19 Autumnal Equinox

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## 1.20 Azimuth

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## 1.21 Bayer designation

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## 1.22 Belt

This information is not provided with the demonstration version of "The Digital Universe". Please consult Ordering The Digital Universe for more information on how to obtain a registered version.

## 1.23 Binary Star

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## 1.24 Black Hole

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## 1.25 Blink Comparator

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## 1.26 Celestial Equator

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## 1.27 Celestial Poles

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## 1.28 Celestial Sphere

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## 1.29 Centaurs

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## 1.30 Chromosphere

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## 1.31 Globular Cluster

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## 1.32 Open Cluster

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### **1.33 Comet**

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### **1.34 Conjunction**

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### **1.35 Inferior Conjunction**

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### **1.36 Superior Conjunction**

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### **1.37 Constellation**

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### **1.38 Contact**

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### **1.39 Convection**

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## 1.40 Convection Zone

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## 1.41 Core

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## 1.42 Corona

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## 1.43 Cosmology

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## 1.44 Crescent

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## 1.45 Declination

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## 1.46 Deep Sky

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## 1.47 Diurnal

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## 1.48 Doppler Shift

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## 1.49 Earthshine

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## 1.50 Eclipse, Annular

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## 1.51 Eclipse, Lunar

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## 1.52 Eclipse, Partial

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## 1.53 Eclipse, Solar

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### **1.54 Eclipse, Total**

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### **1.55 Ecliptic**

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### **1.56 Ecliptic Coordinates**

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### **1.57 Ecliptic Latitude**

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### **1.58 Ecliptic Longitude**

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### **1.59 Eccentricity**

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### **1.60 Ejecta Blanket**

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## 1.61 Elongation

This information is not provided with the demonstration version of "The Digital Universe". Please consult Ordering The Digital Universe for more information on how to obtain a registered version.

## 1.62 Ephemeris

This information is not provided with the demonstration version of "The Digital Universe". Please consult Ordering The Digital Universe for more information on how to obtain a registered version.

## 1.63 Ephemeris Time (ET)

This information is not provided with the demonstration version of "The Digital Universe". Please consult Ordering The Digital Universe for more information on how to obtain a registered version.

## 1.64 Epoch

This information is not provided with the demonstration version of "The Digital Universe". Please consult Ordering The Digital Universe for more information on how to obtain a registered version.

## 1.65 Escape velocity

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## 1.66 Equation of Time

This information is not provided with the demonstration version of "The Digital Universe". Please consult Ordering The Digital Universe for more information on how to obtain a registered version.

## 1.67 Equatorial Coordinates

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## 1.68 Fireball

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## 1.69 Fission

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## 1.70 Flamsteed number

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## 1.71 Solar Flares

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## 1.72 Fusion

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## 1.73 Galactic Coordinates

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## 1.74 Galactic Latitude

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## 1.75 Galactic Longitude

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## 1.76 Galaxy

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## 1.77 Seyfert Galaxy

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## 1.78 Gas Giant Planet

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## 1.79 Gegenschein, or Counter glow

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## 1.80 Geocentric

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## 1.81 Gibbous

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## 1.82 Graben

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## 1.83 Granulation

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## 1.84 Heliocentric

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## 1.85 Heliographic

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## 1.86 Heliopause

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## 1.87 Horizon Coordinate System

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## 1.88 Hour Angle

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## 1.89 Hubble's Law

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## 1.90 Hydrogen Alpha line

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## 1.91 IAU (International Astronomical Union)

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## 1.92 IC Objects

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## 1.93 Inclination

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## 1.94 Julian Date

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## 1.95 Kelvin

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## 1.96 Kuiper Belt

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## 1.97 Leap Second

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## 1.98 Leap Year

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## 1.99 Libration

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## 1.100 Light Year

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## 1.101 Limb

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## 1.102 Limb Darkening

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### **1.103 Magnitude**

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### **1.104 Absolute Magnitude**

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### **1.105 Apparent Magnitude**

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### **1.106 B-V Magnitude**

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### **1.107 Limiting Magnitude**

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### **1.108 Visual Magnitude**

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### **1.109 Meridian**

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### **1.110 Messier Objects**

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### **1.111 Meteor**

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### **1.112 Meteor Shower**

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### **1.113 Meteorite**

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### **1.114 Meteoroid**

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### **1.115 Milky Way**

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### **1.116 Nadir**

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### **1.117 Naked Eye**

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### **1.118 Nebula**

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### **1.119 Emission Nebula**

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### **1.120 Absorption Nebula**

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### **1.121 Planetary Nebula**

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### **1.122 Reflection Nebula**

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### **1.123 Neutron Star**

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### **1.124 NGC Objects**

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### **1.125 Nova**

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### **1.126 Nutation**

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### **1.127 Oblate**

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### **1.128 Obliquity**

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### **1.129 Occultation**

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### **1.130 Oort Cloud**

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### **1.131 Opposition**

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### **1.132 Orbital Elements**

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### **1.133 Parallax**

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### **1.134 Geocentric, or Diurnal Parallax**

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### **1.135 Heliocentric, or Annual Parallax**

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### **1.136 Parsec**

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### **1.137 Penumbra**

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### **1.138 Perigee**

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### **1.139 Perihelion**

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### **1.140 Perturbation**

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### **1.141 Phase Angle**

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### **1.142 Photosphere**

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### **1.143 Position Angle**

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### **1.144 Precession**

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### **1.145 Prominences and Filaments**

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### **1.146 Proper Motion**

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### **1.147 Pulsar**

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### **1.148 Quadrature**

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### **1.149 Quasar**

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### **1.150 Radiant**

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### **1.151 Radiative Zone**

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### **1.152 Reflecting Telescope**

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### **1.153 Refracting Telescope**

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### **1.154 Refraction**

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### **1.155 Retrograde**

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### **1.156 Revolution**

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### **1.157 Right Ascension**

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### **1.158 Rotation**

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### **1.159 Differential Rotation**

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### **1.160 Saros**

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### **1.161 Selenographic**

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### **1.162 Semidiameter**

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### **1.163 Semimajor Axis**

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### **1.164 Sidereal**

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### **1.165 Solstice**

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### **1.166 Spectrum**

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### **1.167 Spectral Classification**

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### **1.168 Spicule**

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### **1.169 Sunspot**

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### **1.170 Supernova**

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### **1.171 Synodic**

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### **1.172 System I**

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### **1.173 System II**

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### **1.174 System III**

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### **1.175 Syzygy**

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### **1.176 Terminator**

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### **1.177 Terrestrial Planet**

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### **1.178 Topocentric**

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### **1.179 Transit**

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### **1.180 Twilight**

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### **1.181 Umbra**

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### **1.182 Variable Star**

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### **1.183 Algol Systems**

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### **1.184 Beta Canis Majoris variable**

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### **1.185 Cepheids**

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### **1.186 Circumpolar**

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### **1.187 Cluster**

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### **1.188 Dwarf Cepheid variable**

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### **1.189 Dwarf Eclipsing variables**

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### **1.190 Dwarf Novae, or SS Cygni variables**

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### **1.191 Ellipsoidal variables**

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### **1.192 Flare Stars**

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### **1.193 Irregular variables**

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### **1.194 Long period variables**

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### **1.195 Lyrid systems, or Beta Lyrae variable stars**

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### **1.196 Nova-like stars**

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### **1.197 R Corona Borealis variables**

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### **1.198 Recurrent Nova**

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### **1.199 Cluster, or RR Lyrae variables**

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### **1.200 RV Tauri variable**

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### **1.201 Semi-regular variables**

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### **1.202 Vernal Equinox**

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### **1.203 White Dwarf**

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### **1.204 Anomalistic Year**

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### **1.205 Besselian (Tropical) Year**

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### **1.206 Eclipse Year**

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### **1.207 Gaussian Year**

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### **1.208 Gregorian Year**

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### **1.209 Julian Year**

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### **1.210 Sidereal Year**

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### **1.211 Zenith**

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### **1.212 ZHR (Zenithal Hourly Rate)**

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### **1.213 Zodiac**

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### **1.214 Zodiacal light**

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### **1.215 Zone**

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### **1.216 Gadgets & Requesters**

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### **1.217 Hypertext**

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### **1.218 Radio Button**

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