

METEOR SHOWER CALENDAR

JANUARY

MAX zhr

Coma Berenicids Dec 12-Jan 23 (A)

Quadrantids Jan 1 – 6 (B)

Jan 4

FEBRUARY

Aurigids Feb 9 (C)

Delta Leonids Feb 26 (D)

MARCH

Virginids Mar-April (E)

Sigma Leonids Mar 23-May 13 (F)

APRIL

Virginids Mar-April (E)

Apr 10

Sigma Leonids Mar 23-May13 (F)

Apr 17

Lyrids Apr 19-25 (G)

Apr 22

Eta Aquarids Apr 24-May 20 (H)

MAY

Sigma Leonids Mar 23-May13 (F)

Eta Aquarids Apr 24-May 20 (H)

May 4

JUNE

June Lyrids Jun10-21 (I)

June 16

Tau Herculids Jun 3 (J)

June 3

June Draconids Jun 28 (K)

June 28

JULY

Delta Aquarids July 15-Aug 15 (L)

July 28

Alpha Capricornids July 15-Aug 10 (M)

July 30

Southern Iota Aquarids Mid July-Mid Aug (N)

Northern Iota Aquarids Mid July-Sept 20 (O)

Perseids July 25-Aug 18 (P)

AUGUST

Delta Aquarids July 15-Aug 15 (L)

Alpha Capricornids July 15-Aug 10 (M)

Southern Iota Aquarids Mid July-Mid Aug (N)

Aug 5

Northern Iota Aquarids Mid July-Sept 20 (O)

Aug 20

Perseids July25-Aug 18 (P)

Aug 12

Northern Delta Aquarids Aug 12 (Q)

Aug 12

Kappa Cygnids Early Aug-Early Oct (R)

Aug 18

SEPTEMBER

Northern Iota Aquarids Mid July-Sept 20 (O)	
Kappa Signids Early Aug-Early Oct (R)	
Southern Piscids Sept and Oct (S)	Sept 20
Annual Andromedids Sept 25-Nov 12 (T)	
Northern Piscids Sept 25-Oct19 (U)	
Northern Taurids Sept 19-End Nov (V)	
Southern Taurids Late Sept-Early Dec (W)	

OCTOBER

Kappa Signids Early Aug-Early Oct (R)	
Southern Piscids Sept and Oct (S)	
Annual Andromedids Sept 25-Nov 12 (T)	Oct 3
Northern Piscids Sept 25-Oct 19 (U)	Oct 12
Northern Taurids Sept 19-End Nov (V)	
Southern Taurids Late Sept-Early Dec (W)	Oct 31
Draconids Oct 6-10 (X)	Oct 8
Orionids Oct 16-26 (Y)	Oct 22

NOVEMBER

Annual Andromedids Sept 25-Nov 12 (T) **	
Northern Taurids Sept 19-End Nov (V)	Nov 13
Southern Taurids Late Sept-Early Dec (W)	
Leonids Nov 15-20 (Z)	Nov 17
Monocerotids Nov 27-End Dec (Ab)	

DECEMBER

Southern Taurids Late Sept-Early Dec (W)	
Monocerotids Nov 27-End Dec (Ab)	Dec 10
Ursids Dec 17-25 (Ac)	Dec 22
Geminids Dec 7-15 (Ad)	Dec 13
Coma Berenicids Dec 12-Jan 23 (A)	

** The **Andromedid** Shower (different from Annual Andromedids) produced big storms on November 27 in the years 1872 and 1885. From Periodic Comet Biela which had split in two several returns earlier.

NAME	ZHR	RADIANT	REMARKS
A Coma Berenecids			65kps
B Quadrantids From debris ejected by near Earth Asteroid 2003EH	100	Ursa Major	Many faint
C Aurigids		Near Capella	
D Delta Leonids	5		Weak
E Virginids	5		Slow, long paths
F Sigma Leonids Storms 1599, 1833, 1866 and 1966			
G Lyrids About 3 days after max bright fireballs which can be dense (1982- 80zhr) From Comet Thatcher (This comet observed in 1861 will not return for approx 415 years)	10	Near Virgo	Bright
H Eta Aquarids Very fast streaks and trails. From Comet Halley	40		65kps
I June Lyrids	8		Bluish colour
J Tau Herculids			Slow
K Draconids From Comet Pons-Winnecke		East of Mizar	
L S.Delta Aquarids	20	Fomalhaut in Piscis	
M Alpha Capricornids Bright. Sometimes fireballs.	5		
N S. Iota Aquarids	5		
O N.Iota Aquarids			
P Perseids Sometimes 2 or more appear and fly off in different directions. From Comet Swift Tuttle. Bright and flaring with trails.	60-70		
Q N.Delta Aquarids	2-5		
R Kappa Cygnids			
S S.Picids			
T Annual Andromedids			
U N.Picids			
V N.Taurids			Slow/bright
W S.Taurids Taurid showers from Comet Encke			
X Draconids Not detectable every year. From Comet Giacobini-Zinner. Meteor Storm 1946-2000 in 5 hours. Again in 1998 up to 700 observed.			
Y Orionids From Comet Halley. Fireballs observed 3 days after max.	25	Between Orion and Gemini	
Z Leonids When earth passes near parent Comet Tempel-Tuttle (orbital period 33 years) many thousands of meteors per hour observed	100	Algieba in Leo	Fastest meteor shower
Ab Monocerotids			Weak
Ac Ursids Meteor Storms in 1945 and 1986		N.W of Kochab in Ursa Minor	
Ad Geminids	100		Slow and bright