

Meteor Showers

Meteor Shower	Begin	Peak	End	RA	DEC	km/s	ZHR	Class	Parent Body
Jan Leonids	Dec 30	Jan 02	Jan 05	10	+24	60	<2	Weak	
Quadrantids	Dec 28	Jan 03	Jan 12	15	+50	41	120	Major	2003 EH1
Zeta Aurigids	Dec 14	Jan 13	Jun 16	05	+39	14	<2	Weak	5731 Zeus 1998 VP4
Coronae Borealids	Jan 11	Jan 15	Jan 18	17	+30	49	<2	Weak	
Canum Venaticids	Jan 13	Jan 15	Jan 18	14	+38	56	<2	Weak	
Lambda Bootids	Jan 17	Jan 17	Jan 18	15	+45	41	<2	Weak	
Jan Xi Ursae Majorids	Jan 16	Jan 18	Jan 20	11	+33	44	<2	Weak	
Nu Bootids	Jan 16	Jan 18	Jan 20	14	+13	67	<2	Weak	
Gamma Ursae Minorids	Jan 18	Jan 20	Jan 24	15	+67	30	<2	Weak	
Eta Corvids	Jan 18	Jan 23	Jan 26	13	-17	69	<2	Weak	
Jan Comae Berenicids	Jan 21	Jan 24	Jan 27	13	+15	65	<2	Weak	
Alpha Coronae Borealids	Jan 27	Jan 28	Feb 05	15	+26	57	<2	Weak	
Feb Epsilon Virginids	Jan 29	Feb 04	Feb 09	13	+11	64	<2	Weak	
Feb Eta Draconids	Feb 03	Feb 04	Feb 06	15	+61	32	<2	Weak	
Pi Hydrids	Feb 04	Feb 07	Feb 15	14	-21	55	<2	Weak	
Alpha Centaurids	Jan 28	Feb 08	Feb 21	14	-59	56	6	Minor	
Theta Centaurids	Jan 23	Feb 10	Mar 12	15	-44	66	3	Minor	
Chi Capricornids	Jan 29	Feb 13	Feb 28	21	-24	?	?	?	
Omega Centaurids	Feb 12	Feb 14	Feb 16	13	-55	48	<2	Weak	
Theta Centaurids	Feb 12	Feb 14	Feb 16	13	-29	65	<2	Weak	
Beta Herculis	Feb 13	Feb 14	Feb 16	16	+25	53	<2	Weak	
Feb Mu Virginids	Feb 16	Feb 26	Mar 04	16	-02	62	<2	Weak	
March Lyncids	Jan 25	Mar 07	May 15	124	+50	16	20	Major	252P/LINEAR
Xi Herculis	Mar 10	Mar 12	Mar 15	17	+48	35	<2	Weak	
Gamma Normids	Mar 23	Mar 24	Mar 28	16	-51	68	<2	Weak	
Kappa Serpentids	Apr 01	Apr 05	Apr 07	15	+18	46	4	Minor	
Zeta Cygnids	Apr 03	Apr 05	Apr 10	20	+40	40	<2	Weak	
Delta Aquiliids	Apr 07	Apr 09	Apr 13	20	+12	63	<2	Weak	
Sigma Leonids A	Apr 08	Apr 15	Apr 25	13	+03	19	<2	Weak	
Virginids	Mar 22	Apr 17	Apr 26	12	+10	20	5	Minor	
April Piscids	Apr 08	Apr 20	Apr 29	00	+07	?	?	?	
April Rho Cygnids	Apr 11	Apr 22	May 04	21	+44	42	<2	Weak	
Apr Lyrids	Apr 16	Apr 22	Apr 25	18	+34	49	18	Major	C/1861 G1 (Thatcher)
Pi Puppids	Apr 15	Apr 23	Apr 28	07	-45	18	var	Variable	26P/Grigg-Skjellerup

Class I = Major (>10/hour)
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Delta Piscids	Apr 24	Apr 24	Apr 24	01	+12	69	<2	Weak	
H Virginids	Apr 29	May 01	May 03	14	-11	17	<2	Weak	
Gamma Aquiliids	May 05	May 08	May 12	20	+14	66	<2	Weak	
Eta Aquariids	Apr 19	May 06	May 28	23	-01	66	55	Major	1P/Halley
Omega Cetids	May 05	May 07	Jun 09	01	-07	38	8	Minor	
Eta Lyrids	May 03	May 08	May 14	19	+44	43	3	Minor	
Theta 2 Sagittariids	May 09	May 13	May 14	20	-33	67	<2	Weak	
Alpha Scorpiids	Apr 21	May 15	May 26	16	-29	33	3	Minor	
Daytime May Arietids	May 04	May 16	Jun 06	03	+18	28	4	Minor	
May Beta Capricornids	May 16	May 19	May 21	20	-15	68	<2	Weak	
Omicron Cetids	May 05	May 20	Jun 02	02	-04	?	?	?	
Camelopardalids	May 23	May 24	May 24	08	+79	19	2	Minor	
South Omega Scorpiids	May 23	May 31	Jun 15	17	-22	26	5	Minor	
North Omega Scorpiids	May 23	May 31	Jun 15	17	-15	23	5	Minor	
June Mu Cassiopeiids	May 31	Jun 01	Jun 05	00	+53	42	<2	Weak	
Arietids	May 22	Jun 07	Jul 02	03	+24	37	54	Major	1566 Icarus
June Rho Cygnids	Jun 14	Jun 14	Jun 16	21	+44	48	<2	Weak	
South June Aquilids	Jun 09	Jun 16	Jul 02	19	-05	39	3	Minor	
Northern June Aquilids	Jun 10	Jun 16	Jun 26	20	-10	41	<2	Weak	
June Lyrids	Jun 11	Jun 16	Jun 21	20	+44	3	9	Minor	
Delta Piscids	Jun 20	Jun 23	Jun 26	01	+05	69	<2	Weak	
June Bootids	Jun 23	Jun 24	Jun 25	15	+48	18	var	Variable	
June Iota Pegasids	Jun 24	Jun 24	Jun 26	22	+29	59	<2	Weak	
Pi Cetids	Jun 16	Jun 26	Jul 04	02	-12	68	4	Minor	
Jun Scutids-Eta Serpentids	Jun 02	Jun 27	Jul 29	+278	-04		2-4	Minor	
Sigma Capricornids	Jun 19	Jun 27	Jul 24	20	-07	41	<2	Weak	
Tau Aquariids	Jun 27	Jun 28	Jul 06	23	-12	66	7	Minor	
F Ophiuchids	Jun 29	Jun 29	Jul 01	18	+07	17	<2	Weak	
Pi Piscids	Jun 11	Jul 01	Jul 25	01	+25	67	<2	Weak	
Jul Pegasids	Jun 30	Jul 10	Aug 03	23	+11	68	4	Minor	
Jul Phoenicids	Jun 24	Jul 12	Jul 18	02	-48	48	4	Minor	
c-Andromedids	Jun 26	Jul 12	Jul 20	02	+47	60	<2	Weak	
Psi Cassiopeiids	Jul 12	Jul 16	Jul 18	03	+70	46	<2	Weak	
Tau Cetids	Jul 20	Jul 21	Jul 23	02	-18	65	<2	Weak	

Class I = Major (>10/hour) Class II = Minor (>2/hour) Class III = Variable Class IV = Weak (<2/hour)

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North Delta Aquariids	Jul 15	Jul 26	Aug 25	23	+00	42	4	Minor	
Jul Gamma Draconids	Jul 25	Jul 27	Jul 29	19	+50	26	<2	Weak	
Piscis Austrinids	Jul 15	Jul 28	Aug 10	23	-30	35	5	Minor	
Beta Cassiopeids	Jul 03	Jul 29	Aug 19	24	+59	52	10	Major	
Alpha Capricornids	Jul 03	Jul 30	Aug 15	20	-10	23	5	Minor	
Southern Delta Aquariids	Jul 12	Jul 30	Aug 23	23	-16	41	16	Major	
Beta Perseids	Jul 24	Aug 07	Aug 20	03	+37	67	<2	Weak	
Eta Eridanids	Aug 03	Aug 09	Aug 14	03	-13	65	6	Minor	
Perseids	Jul 17	Aug 13	Aug 24	03	+58	59	100	Major	109P/Swift-Tuttle
Kappa Cygnids	Aug 03	Aug 18	Aug 25	19	+59	25	3	Minor	
Theta Piscids	Aug 08	Aug 19	Sep 01	23	04	39	<2	Weak	
Aug Gamma Cepheids	Aug 22	Aug 28	Sep 01	00	+77	41	<2	Weak	
Gamma Doradids	Aug 27	Aug 28	Sep 03	04	-50	42	5	Minor	
Alpha Aurigids	Aug 28	Sep 01	Sep 05	06	+39	66	6	Minor	
Sep Epsilon Perseids	Sep 05	Sep 09	Sep 21	03	+40	64	5	Minor	
Sep Lyncids	Sep 07	Sep 09	Sep 18	06	+55	59	<2	Weak	
Sep Iota Cassiopeiids	Sep 10	Sep 14	Sep 16	03	+64	55	<2	Weak	
Sep Pi Orionids	Sep 16	Sep 18	Sep 20	04	+06	66	<2	Weak	
Beta Aurigids	Sep 21	Sep 22	Sep 25	06	+48	69	<2	Weak	Kiess (C/1911 N1)
Delta Aurigids	Sep 23	Sep 26	Sep 29	05	+57	61	<2	Weak	Kiess (C/1911 N1)
Sep-Oct Lyncids	Sep 27	Sep 28	Sep 30	07	+47	65	<2	Weak	
Oct Camelopardalids	Oct 05	Oct 05	Oct 06	11	+78	44	<2	Weak	
Draconids	Oct 06	Oct 08	Oct 10	17	+54	20	var	Variable	21P/Giacobini-Zinner
Southern Taurids	Sep 10	Oct 10	Nov 20	02	+09	27	5	Minor	Comet Encke
Delta Aurigids	Oct 10	Oct 11	Oct 18	06	+44	64	2	Minor	
Psi Aurigids	Oct 09	Oct 13	Oct 16	07	+43	67	<2	Weak	
Oct Ursa Majorids	Oct 14	Oct 15	Oct 18	09	+64	52	<2	Weak	
Tau Cancrids	Oct 09	Oct 17	Oct 25	08	+29	67	<2	Weak	
Gamma Piscids	Oct 14	Oct 17	Oct 21	01	+16	20	<2	Weak	
Epsilon Geminids	Oct 14	Oct 18	Oct 27	07	+27	70	3	Minor	C/1964 N1 (Ikeya)
Oct Lyncids	Oct 16	Oct 20	Oct 24	07	+64	63	<2	Weak	
Orionids	Oct 02	Oct 21	Nov 07	06	+16	66	20	Major	1P/Halley
Eta Taurids	Oct 15	Oct 24	Oct 29	03	+23	45	<2	Weak	
Leo Minorids	Oct 19	Oct 24	Oct 27	11	+37	62	2	Minor	

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Lambda Ursa Majorids	Oct 24	Oct 27	Nov 01	10	+48	61	<2	Weak	
S. Lambda Draconids	Oct 24	Oct 27	Nov 02	11	+48	62	<2	Weak	
Kappa Ursae Majorids	Nov 02	Nov 05	Nov 09	09	+45	62	<2	Weak	
Chi Taurids	Nov 04	Nov 05	Nov 08	04	+25	46	<2	Weak	
Andromidids	Oct 26	Nov 08	Nov 20	01	+30	16	var	Variable	
Northern Taurids	Oct 20	Nov 12	Dec 10	04	+22	29	5	Minor	Comet Encke
Nov Iota Aurigids	Nov 01	Nov 15	Nov 23	05	+33	36	8	Minor	
Leonids	Nov 06	Nov 17	Nov 30	10	+22	71	15	Major	55P/Tempel. Tuttle
Alpha Monocerotids	Nov 15	Nov 21	Nov 25	08	+01	65	var	Variable	
Nov Iota Draconids	Nov 22	Nov 22	Dec 01	12	+69	41	<2	Weak	
Nov Orionids	Nov 13	Nov 28	Dec 07	06	+15	44	3	Minor	
Dec Phi Cassiopeiids	Nov 26	Dec 01	Dec 05	01	52	14	<2	Weak	
Dec Kappa Draconids	Dec 02	Dec 03	Dec 06	12	+70	41	<2	Weak	
Psi Ursa Majorids	Dec 01	Dec 04	Dec 16	11	+43	60	<2	Weak	
Sigma Hydrids	Nov 24	Dec 06	Dec 21	08	+02	58	3	Minor	
Dec Phoenicids	Nov 28	Dec 06	Dec 09	01	-53	18	var	Variable	289P/Blanpain
Alpha Draconids A	Dec 05	Dec 07	Dec 18	13	+60	41	<2	Weak	
Puppis-Velids	Dec 01	multiple	Dec 15	08	-45	40	10	Major	
Monocerotids	Nov 27	Dec 09	Dec 17	07	+08	42	2	Minor	C/1917 F1 (Mellish)
Eta Hydrids	Dec 10	Dec 12	Dec 18	09	+01	63	<2	Weak	
Geminids	Dec 04	Dec 14	Dec 17	07	+33	35	120	Major	3200 Phaethon
Dec Chi Virginids	Dec 08	Dec 16	Dec 24	12	-11	69	<2	Weak	
Comae Berenicids	Dec 12	Dec 16	Dec 23	12	+18	65	3	Minor	
Dec. Leonis Minorids	Dec 05	Dec 20	Feb 04	11	+30	64	5	Minor	
Ursids	Dec 17	Dec 22	Dec 26	14	+76	33	10	Major	8P/Tuttle
Dec Sigma Virginids	Dec 06	Dec 23	Dec 31	13	+04	68	<2	Weak	
c Velids	Dec 27	Dec 28	Dec 30	09	-54	39	<2	Weak	
Alpha Draconids B	Dec 26	Dec 29	Jan 01	14	+53	41	<2	Weak	
Alpha Hydrids	Dec 22	Dec 31	Jan 07	08	-07	43	<2	Weak	
Coma Berenicid	Dec 24	Dec 31	Jan 03	12	+12	70	5	Minor	

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