

Molecular Clouds on Microsoft Access

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Molecular Clouds Catalogue on Microsoft Access

This molecular clouds database has 84 molecular clouds of which 33 are shown on Stellarium.

If you are au fait with MS Access you will be able to apply the search and query tools directly to the programme file to investigate aspects of the Molecular Clouds database.

Some demonstrations on how the file can be used to study molecular clouds have been given in this tutorial so that people who do not have the database can still benefit from its features.

Types of Information (Database Fields)

Cloud Label:		Cloud Name:		Constellation:	
MBM Number:	Clouds in the MBM catalogue are numbered.	Alternative Name:		Constellation Rank:	Numerical label
On Stellarium:		Type:	Object type	Surface Brightness:	mag/arc min ²
		Magnitude:		Contrast Index:	
		Distance:	Using lightyears		

Right ascension and declination for J2000 epoch.

Right ascension and declination for Christmas Australis (1 am BST 25th June 2021)

Size 1 (major axis size) Size 2 (minor axis size)

Notes:

The form in the database called "Molecular Clouds" shows this information ...

Molecular Clouds

Molecular Clouds

Cloud Label:
Cloud Name:
Constellation:

MBM Number:
Alternative Name:
Const Rank:

On Stellarium:
Type:
Surface Brightness:

Magnitude:
Contrast Index:

Distance (LY):

RA Hours J2000:	RA Mins J2000:	RA Secs J2000:	Dec Degrs J2000:	Dec Mins J2000:	Dec Secs J2000:
<input type="text" value="20"/>	<input type="text" value="13"/>	<input type="text" value="17.05"/>	<input type="text" value="-1"/>	<input type="text" value="-20"/>	<input type="text" value="-52.8"/>

RA Hours Xmas A:	RA Mins Xmas A:	RA Secs Xmas A:	Dec Degrs Xmas A:	Dec Mins Xmas A:	Dec Secs Xmas A:
<input type="text" value="20"/>	<input type="text" value="14"/>	<input type="text" value="24.64"/>	<input type="text" value="-1"/>	<input type="text" value="-16"/>	<input type="text" value="-54.1"/>

Size 1 Degs:	Size 1 Mins:	Size 1 Secs:	X	Size 2 Degs:	Size 2 Mins:	Size 2 Secs:
<input type="text" value="9"/>	<input type="text" value="30"/>	<input type="text" value="0"/>		<input type="text" value="0"/>	<input type="text" value="10"/>	<input type="text" value="0"/>

Notes:

Record: 1 of 84 | No Filter | Search

↑ Click on the arrow keys to show different molecular clouds.

1. [Molecular Clouds within Given Constellations.](#)

Use the query “Constellations” which gives the constellations for the molecular clouds.

Cloud Name	Constellation	Const Rank	On Stellarium
MBM 41	Draco	2	
MBM 43	Draco	2	
MBM 44	Draco	2	
MBM 26	Camelopardalis	3	
LDN 1389	Camelopardalis	3	Yes
LBN 594	Cassiopeia	4	Yes
LBN 613	Cassiopeia	4	Yes
LBN 515	Cepheus	5	Yes
LDN 1262	Cepheus	5	Yes
LDN 1274	Cepheus	5	Yes
LDN 863	Cygnus	7	Yes
LDN 1075	Cygnus	7	Yes
PK 093+05.1	Cygnus	7	Yes
MBM 42	Hercules	9	
MBM 40	Hercules	9	
MBM 27	Ursa Major	13	
MBM 30	Ursa Major	13	
MBM 32	Ursa Major	13	
MBM 28	Ursa Major	13	
MBM 29	Ursa Major	13	
MBM 31	Ursa Major	13	
MBM 23	Lynx	15	
MBM 25	Lynx	15	
MBM 24	Lynx	15	
LDN 1512	Auriga	16	Yes

Constellations			
Cloud Name	Constellation	Const Rank	On Stellarium
MBM 56	Pegasus	20	
MBM 55	Pegasus	20	
MBM 1	Pegasus	20	
MBM 54	Pegasus	20	Yes
MBM 53	Pegasus	20	
MBM 49	Pegasus	20	
MBM 50	Pegasus	20	
LDN 797	Vulpecula	23	Yes
LDN 758	Sagitta	24	Yes
SNR G049.2-00.5	Aquila	25	Yes
LBN 111	Aquila	25	Yes
LDN 767	Aquila	25	Yes
LDN 507	Serpens Cauda	27	Yes
LDN 1688	Ophiuchus	28	Yes
MBM 57	Ophiuchus	28	
LDN 146	Ophiuchus	28	Yes
LDN 183	Serpens Caput	29	Yes
MBM 39	Serpens Caput	29	
MBM 35	Serpens Caput	29	
MBM 38	Serpens Caput	29	
MBM 34	Libra	32	
LDN 134	Libra	32	Yes
MBM 33	Libra	32	
MBM 45	Sagittarius	34	
SNR G001.1-00.1	Sagittarius	34	Yes
SNR G012.8-00.2	Sagittarius	34	Yes
MBM 47	Aquarius	36	
MBM 48	Aquarius	36	
MBM 46	Aquarius	36	

Cloud Name	Constellation	Const Rank	On Stellarium
MBM 2	Pisces	37	
MBM 3	Pisces	37	
MBM 4	Pisces	37	
MBM 52	Pisces	37	
MBM 51	Pisces	37	
MBM 12	Aries	38	
MBM 9	Aries	38	
MBM 16	Aries	38	
MBM 14	Aries	38	
MBM 11	Aries	38	
MBM 8	Aries	38	yes
MBM 7	Aries	38	
MBM 6	Aries	38	
MBM 5	Aries	38	
MBM 13	Aries	38	
MBM 19	Taurus	39	
LDN 1569	Taurus	39	Yes
MBM 17	Taurus	39	
LDN 1670	Puppis Borealis	51	Yes
LDN 1588	Orion	54	Yes
LBN 913	Orion	54	Yes
LBN 921	Orion	54	Yes
LDN 1594	Orion	54	Yes
LDN 1571	Orion	54	Yes
MBM 10	Eridanus Borealis	56	
LDN 1642	Eridanus Borealis	56	Yes
MBM 21	Eridanus Borealis	56	
MBM 22	Eridanus Borealis	56	
MBM 15	Eridanus Borealis	56	
RCW 38	Vela	69	Yes

2. [Constellations](#)

The following table shows how the 84 listed molecular clouds are distributed across various constellations.

Constellation	Number of molecular clouds		Constellation	Number of Molecular clouds
Draco	3		Libra	3
Camelopardalis	2		Sagittarius	3
Cassiopeia	2		Aquarius	3
Cepheus	3		Pisces	5
Cygnus	3		Aries	10
Hercules	2		Taurus	3
Ursa Major	6		Puppis Borealis	1
Lynx	3		Orion	5
Auriga	1		Eridanus Borealis	5
Pegasus	7			
Vulpecula	1		Vela	1
Sagitta	1			
Aquila	3			
Serpens Cauda	1			
Ophiuchus	3			
Serpens Caput	4		TOTAL	84

3. [Molecular Clouds in the MBM Catalogue](#)

The following 57 molecular clouds are listed as MBM objects.

MBM Clouds					
Cloud Name	Alternative N	MBM Numb	Constellation	On Stellarium	
MBM 1	G110.18-41.23	1	Pegasus		
MBM 2	G117.37-52.28	2	Pisces		
MBM 3	G131.28-45.68	3	Pisces		
MBM 4	G133.52-45.3	4	Pisces		
MBM 5	G145.96-49.08	5	Aries		
MBM 6		6	Aries		
MBM 7		7	Aries		
MBM 8	G151.75-3868	8	Aries	yes	
MBM 9	G156.52-44.71	9	Aries		
MBM 10		10	Eridanus Borealis		
MBM 11	G157.98-35.06	11	Aries		
MBM 12		12	Aries		
MBM 13	G161.59-35.89	13	Aries		
MBM 14	G162.45-31.87	14	Aries		
MBM 15		15	Eridanus Borealis		
MBM 16		16	Aries		
MBM 17	G167.53-26.61	17	Taurus		
LDN 1569	MBM 18	18	Taurus	Yes	
MBM 19	G186.03-29.93	19	Taurus		
LDN 1642	MBM 20	20	Eridanus Borealis	Yes	
MBM 21	G208.42-28.39	21	Eridanus Borealis		
MBM 22		22	Eridanus Borealis		
MBM 23	G171.83+26.72	23	Lynx		
MBM 24	G172.27+26.97	24	Lynx		
MBM 25		25	Lynx		
MBM 26		26	Camelopardalis		
MBM 27	G141.33+45.45	27	Ursa Major		
MBM 28	G141.43+35.2	28	Ursa Major		
MBM 29	G142.27+36.17	29	Ursa Major		

MBM Clouds					
Cloud Name	Alternative N	MBM Numb	Constellation	On Stellarium	
MBM 30		30	Ursa Major		
MBM 31		31	Ursa Major		
MBM 32		32	Ursa Major		
MBM 33		33	Libra		
MBM 34	IRAS 15462-0542	34	Libra		
MBM 35	G6.56+38.13	35	Serpens Caput		
LDN 134	MBM 36	36	Libra		Yes
LDN 183	MBM 37	37	Serpens Caput		Yes
MBM 38	G8.22+36.34	38	Serpens Caput		
MBM 39	G11.39+36.22	39	Serpens Caput		
MBM 40		40	Hercules		
MBM 41	G89.61+38.42	41	Draco		
MBM 42	G90.59+38.04	42	Hercules		
MBM 43		43	Draco		
MBM 44	G91.99+36.8	44	Draco		
MBM 45	G9.8-28.02	45	Sagittarius		
MBM 46	G40.54-35.47	46	Aquarius		
MBM 47	G41.00-35.85	47	Aquarius		
MBM 48	G40.57-36.61	48	Aquarius		
MBM 49		49	Pegasus		
MBM 50	G70.02-31.16	50	Pegasus		
MBM 51	G73.31-51.52	51	Pisces		
MBM 52	G74.42-51.25	52	Pisces		
MBM 53		53	Pegasus		
MBM 54		54	Pegasus		Yes
MBM 55	G89.19-40.94	55	Pegasus		
MBM 56	G103.08-26.07	56	Pegasus		
MBM 57	G5.10+30.84	57	Ophiuchus		