





ASTRONOMICAL DIARY

PREPARED BY ASTRONOMICAL PUBLICATION AND PLANETARIUM UNIT, SPACE SCIENCE AND ASTRONOMY SECTION

ASTRONOMICAL EVENTS, AUGUST 2024

DATE	EVENT	TIME
09	Moon at Apogee (Distance = 405,237.984 km)	09:31 a.m.
12	Perseids meteor shower (ZHR = 150)	---
14	Close approach of Jupiter and Mars	10:53 p.m.
15	Conjunction of Jupiter and Mars	01:00 a.m.
21	Close approach of Waning Gibbous Moon and Saturn	10:41 a.m.
21	Conjunction of Waning Gibbous Moon and Saturn	11:02 a.m.
21	Moon at Perigee (Distance = 360,288.526 km)	01:02 p.m.
27	Close approach of Waning Crescent Moon and Jupiter	07:32 p.m.
27	Conjunction of Waning Crescent Moon and Jupiter	08:43 p.m.
28	Close approach of Waning Crescent Moon and Mars	07:48 a.m.
28	Conjunction of Waning Crescent Moon and Mars	08:22 a.m.
28	Planetary Alignment of Mercury, Mars, Jupiter, Uranus, Neptune, and Saturn	---
31	Aurigids meteor shower (ZHR = 6)	---

PHASES OF THE MOON

	New Moon Aug 04 07:13 p.m.
	First Quarter Aug 12 11:19 p.m.
	Full Moon Aug 20 02:26 a.m.
	Last Quarter Aug 26 05:26 p.m.

RISE AND SET TIMES OF PLANETS

DATE	MERCURY		VENUS		MARS		JUPITER		SATURN	
	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set
Aug 01	07:22 am	07:41 pm	06:49 am	07:25 pm	01:14 am	02:05 pm	01:43 am	02:34 pm	08:39 pm	08:33 am*
Aug 11	06:39 am	06:54 pm	07:01 am	07:27 pm	01:02 am	01:55 pm	01:10 am	02:02 pm	07:58 pm	07:51 am*
Aug 21	05:29 am	05:50 pm	07:12 am	07:28 pm	12:49 am	01:44 pm	12:37 am	01:29 pm	07:17 pm	07:09 am*
Aug 31	04:36 am	05:07 pm	07:23 am	07:28 pm	12:37 am	01:33 pm	12:03 am	12:56 pm	06:35 pm	06:27 am*



WR 124: A PRELUDE TO SUPERNOVA

A Rarely Seen Wolf-Rayet Star

A Wolf-Rayet star is a unique prelude to the renowned conclusion of an enormous star: the supernova. This extremely unusual and short-lived type of super-hot stars is undergoing a severe transitioning phase that is characterized by a fierce mass ejection. NASA's James Webb Space Telescope captured optical image of a Wolf-Rayet Star, WR 124, gleaming brilliantly at the very center, surrounded by nebula M1-67. This image will enable astronomers to investigate matters that were previously merely theoretical. WR 124 is situated 15,000 light years away in the constellation of Sagitta.

Notes:

[1] All times displayed are in Philippine Standard Time (PhST)

[2] *following day

"tracking the sky...helping the country"

Science Garden Compound, Senator Miriam P. Defensor-Santiago Avenue
Brgy. Central, Quezon City, Metro Manila, Philippines

Telephone Number: 8-284-0800 loc 3015, 3016, 3017
Website: <https://bagong.pagasa.dost.gov.ph>