

ARTEMIS II - IN PROGRESS

AUSTRALIA

Date and Time (AEDT)	Mission Elapsed Time	Event
2026/03/31 7:45:12 AM		Launch team arrives on station
2026/03/31 7:55:12 AM		Countdown clock begins
2026/03/31 7:55:12 AM		LOX/LH2 system preps for vehicle loading (9h)
2026/03/31 10:05:12 AM		Fill water tank for sound suppression system (4h)
2026/03/31 12:05:12 PM		Orion spacecraft power up (1h 30m)
2026/03/31 3:15:12 PM		Core stage power up (1h 20m)
2026/03/31 3:25:12 PM		ICPS power up (1h)
2026/03/31 5:50:12 PM		Final prep of RS-25 engines (4h 15m)
2026/03/31 10:50:12 PM		ICPS power down (0h 35m)
2026/04/01 12:05:12 AM		Charge Orion flight batteries to 100% (4h)
		Core stage composite overwrap pressure vessel (COPV) pressurization to flight pressure (9h)
2026/04/01 1:35:12 AM		Charge core stage flight batteries (7h)
2026/04/01 1:20:12 PM		ICPS power-up for launch (1h 20m)
2026/04/01 3:35:12 PM		Orion crew suit regulator leak checks (2h)
2026/04/01 6:05:12 PM		All non-essential personnel leave LC39B (1h 30m)
2026/04/01 7:20:12 PM		cavity inerting (2h 10m)
2026/04/01 8:20:12 PM		Ground Launch Sequencer (GLS) activation (1h 30m)
2026/04/01 9:00:12 PM		2h 45m built-in hold begins
2026/04/01 9:55:12 PM		Weather and tanking briefing (0h 50m)
2026/04/01 10:45:12 PM		GO/NO-GO for tanking
2026/04/01 10:45:12 PM		Orion cold soak (1h 15m)
2026/04/01 10:55:12 PM		Core stage LOX transfer line chilldown (0h 05m)
2026/04/01 10:55:12 PM		Core stage LH2 transfer line chilldown (0h 45m)
2026/04/01 11:10:12 PM		Core stage main propulsion system chilldown (0h 45m)
2026/04/01 11:40:12 PM		Core stage LH2 slow fill start (0h 30m)
2026/04/01 11:45:12 PM		T-8 hours 10 minutes and counting
2026/04/01 11:55:12 PM		Core stage LOX slow fill (0h 10m)
2026/04/02 12:05:12 AM		Core stage LOX fast fill (2h 50m)
2026/04/02 12:10:12 AM		Core stage LH2 fast fill (1h 20m)
2026/04/02 12:30:12 AM		ICPS LH2 chilldown (0h 35m)
2026/04/02 12:55:12 AM		Crew Wake up, Launch countdown status check
2026/04/02 1:05:12 AM		ICPS LH2 fast fill start (0h 45m)
2026/04/02 1:35:12 AM		Core stage LH2 topping (0h 5m)
2026/04/02 1:40:12 AM		Core stage LH2 replenish (until terminal count)
2026/04/02 1:50:12 AM		ICPS LH2 vent and relief test (0h 25m)
2026/04/02 2:15:12 AM		ICPS LH2 tank topping start (0h 10m)
2026/04/02 2:30:12 AM		ICPS LH2 replenish (until terminal count)
2026/04/02 2:55:12 AM		control) (0h 30m)
2026/04/02 2:55:12 AM		Core stage LOX topping (0h 35m)
2026/04/02 2:55:12 AM		ICPS LOX main propulsion system chilldown (0h 10m)

2026/04/02	3:05:12 AM	IPCS LOX fast fill (0h 45m)
2026/04/02	3:25:12 AM	Stage pad rescue
2026/04/02	3:25:12 AM	Closeout crew assemble
2026/04/02	3:30:12 AM	Core stage LOX replenish (until terminal count)
2026/04/02	3:35:12 AM	Flight crew weather brief
2026/04/02	3:50:12 AM	ICPS LOX vent and relief test (0h 15m)
2026/04/02	3:55:12 AM	Flight crew begins donning launch and entry suits
2026/04/02	4:05:12 AM	ICPS LOX topping (0h 20m)
2026/04/02	4:25:12 AM	ICPS LOX replenish (until terminal count)
2026/04/02	4:25:12 AM	All stages replenish
2026/04/02	4:25:12 AM	Start 1h 10m built-in hold
2026/04/02	4:25:12 AM	Closeout crew to white room (0h 15m)
2026/04/02	4:55:12 AM	Flight crew departs O&C suit room
2026/04/02	5:05:12 AM	Flight crew departs to Launch Complex 39B
2026/04/02	5:10:12 AM	Flight crew walkout
2026/04/02	5:10:12 AM	Orion preps for flight crew ingress (0h 25m)
2026/04/02	5:15:12 AM	Flight crew heads to white room (0h 10m)
2026/04/02	5:25:12 AM	Flight crew puts on helmet and gloves (0h 10m)
2026/04/02	5:35:12 AM	End of built-in 1h 10m hold
2026/04/02	5:35:12 AM	checks (0h 40m)
2026/04/02	5:55:12 AM	Crew module hatch preps and closure (0h 20m)
2026/04/02	6:10:12 AM	White room closeout complete
2026/04/02	6:25:12 AM	(0h 35m)
2026/04/02	7:15:12 AM	40m)
2026/04/02	7:55:12 AM	Launch abort system (LAS) hatch closure for flight (0h 10m)
2026/04/02	8:25:12 AM	imagery console
2026/04/02	8:45:12 AM	Closeout crew departs Launch Complex 39B (0h 10m)
2026/04/02	8:45:12 AM	Final NASA Test Director (NTD) briefing held
2026/04/02	8:55:12 AM	Built-in 30 minute hold begins
2026/04/02	9:10:12 AM	following final NTD briefing
2026/04/02	9:18:12 AM	Launch Director poll: GO/NO-GO for launch
2026/04/02	9:20:12 AM	Flight crew visors down
2026/04/02	9:21:12 AM	Flight crew short purge verification
2026/04/02	9:25:12 AM	Ground Launch Sequencer (GLS) initiates terminal count
2026/04/02	9:27:12 AM	Crew Access Arm retract
2026/04/02	9:29:12 AM	GLS go for core stage tank pressurization
2026/04/02	9:29:12 AM	Orion ascent pyros armed
2026/04/02	9:29:12 AM	Orion to internal power
2026/04/02	9:29:15 AM	Core Stage LH2 terminate replenish
2026/04/02	9:29:52 AM	LAS capability is available
2026/04/02	9:29:52 AM	NTD lets CDR know LAS capability is available
2026/04/02	9:30:32 AM	GLS go for LH2 high flow bleed check
2026/04/02	9:30:42 AM	Flight Termination System (FTS) armed
2026/04/02	9:31:12 AM	GLS go for core stage auxiliary power unit (APU) start
2026/04/02	9:31:12 AM	Core Stage APU start
2026/04/02	9:31:12 AM	Core stage LOX terminate replenish

2026/04/02	9:31:42 AM		ICPS LOX terminate replenish
2026/04/02	9:32:02 AM		GLS go for purge sequence 4
2026/04/02	9:33:10 AM		ICPS to internal battery power
2026/04/02	9:33:12 AM		Booster to internal battery power
2026/04/02	9:33:42 AM		Core stages switches to internal power
2026/04/02	9:33:52 AM		ICPS enters terminal countdown mode
2026/04/02	9:34:22 AM		ICPS LH2 terminate replenish
2026/04/02	9:34:39 AM		GLS sends "go for automated launch command"
2026/04/02	9:34:42 AM		Core stage flight computer to automated launch sequence
2026/04/02	9:35:00 AM		Hydrogen burnoff igniters initiated
2026/04/02	9:35:02 AM		GLS sends command for core stage engine start
2026/04/02	9:35:06 AM		RS-25 Main Engine Start
2026/04/02	9:35:11 AM		RS-25 engines at 100%
2026/04/02	9:35:12 AM	0:00:00	SRB Ignition
2026/04/02	9:35:12 AM	0:00:00	RS-25 main engines to 109%
2026/04/02	9:35:12 AM	0:00:00	Core Stage/ICPS/Orion Umbilicals separate
2026/04/02	9:35:12 AM	0:00:00	LIFTOFF
2026/04/02	9:35:12 AM	0:00:00	transfer control from LCC (Kennedy) to MCC (Houston)
2026/04/02	9:35:21 AM	0:00:09	Tower Clear - Initiate roll/pitch program
2026/04/02	9:36:08 AM	0:00:56	Mach 1
2026/04/02	9:36:22 AM	0:01:10	Max Q
2026/04/02	9:37:16 AM	0:02:04	<i>RS-25 Core Engines commanded to 85%</i>
2026/04/02	9:37:21 AM	0:02:09	SRB Separation
2026/04/02	9:37:20 AM	0:02:08	<i>RS-25 Core Engines commanded to 109%</i>
2026/04/02	9:38:30 AM	0:03:18	LAS Jett
2026/04/02	9:41:22 AM	0:06:10	SRB Atlantic splashdown
2026/04/02	9:43:13 AM	0:08:01	<i>RS-25 Core Engines down to 67%</i>
2026/04/02	9:43:17 AM	0:08:05	<i>LAS Atlantic impact</i>
2026/04/02	9:43:15 AM	0:08:03	Core Stage MECO
2026/04/02	9:43:30 AM	0:08:18	Core Stage/ICPS sep
2026/04/02	9:43:40 AM	0:08:28	ICPS RL10 nozzle extension
2026/04/02	9:55:12 AM	0:20:00	Orion solar panels deploy
2026/04/02	10:24:12 AM	0:49:00	ICPS perigee raise burn (2223 x 185 km)
2026/04/02	11:23:09 AM	1:47:57	ICPS apogee raise burn (70377 km)
2026/04/02	11:43:35 AM	2:08:23	Core stage Pacific splashdown
2026/04/02	12:59:30 PM	3:24:18	ICPS/Orion sep
2026/04/02	12:59:27 PM	3:24:15	Start ICPS/Orion prox ops demo
2026/04/02	2:10:12 PM	4:35:00	End ICPS/Orion prox ops demo
2026/04/02	2:27:12 PM	4:52:00	Start Orion departure burn
2026/04/02	2:35:12 PM	5:00:00	ICPS disposal burn
2026/04/02	2:39:12 PM	5:04:00	Deploy ATENEA (ARG) secondary payload
2026/04/02	2:40:12 PM	5:05:00	Deploy Space (SAU) Weather Cubesat-1 secondary payload
2026/04/02	2:41:12 PM	5:06:00	Deploy TACHELES (DEU) secondary payload
2026/04/02	2:42:12 PM	5:07:00	Deploy K-Rad Cube (KOR) secondary payload
2026/04/02	11:19:12 PM	13:44:00	Perigee raise burn

FLIGHT DAY 2		
Date and Time (AEDT)	MET	Event
2026/04/03 11:12:12 AM	25:37:00	Orion TLI burn
2026/04/04 9:00:12 AM	47:25:00	Orbital Trajectory Correction burn
FLIGHT DAY 3		
Date and Time (AEDT)	MET	Event
2026/04/04 9:42:12 AM	48:07:00	Orbital trajectory correction burn #1
2026/04/04 11:40:12 AM	50:05:00	Crew CPR demonstration
2026/04/04 3:00:12 PM	53:25:00	Communications test through Deep Space Network (DSN)
FLIGHT DAY 4		
Date and Time (AEST)	MET	Event
2026/04/05 8:47:12 AM	72:12:00	Orbital trajectory correction burn #2
2026/04/05 12:15:12 PM	75:40:00	Review lunar flyby imaging plan (shift 1)
2026/04/05 2:20:12 PM	77:45:00	Review lunar flyby imaging plan (shift 2)
2026/04/05 3:34:12 PM	78:59:00	<i>+4/06:59; typo for +3/06:59?</i>
FLIGHT DAY 5		
Date and Time (AEST)	MET	Event
2026/04/06 5:05:12 AM	92:30:00	demonstration <i>(time given as +3/20:30; typo for</i>
2026/04/06 1:58:12 PM	101:23:00	Orbital trajectory burn #3
FLIGHT DAY 6		
Date and Time (AEST)	MET	Event
2026/04/07 5:37:12 AM	117:02:00	the Earth
2026/04/07 7:50:12 AM	119:15:00	Crew prepares camera for lunar flyby
2026/04/07 8:20:12 AM	119:45:00	Lunar flyby and observation begins
2026/04/07 9:58:12 AM	121:23:00	Closest approach to the Moon
2026/04/07 10:01:12 AM	121:26:00	mission
2026/04/07 11:15:12 AM	122:40:00	Lunar flyby and observation complete
FLIGHT DAY 7		
Date and Time (AEST)	MET	Event
		<i>Flight Day 7 will primarily be off-duty time for the crew</i>
2026/04/08 4:22:12 AM	139:47:00	Orion exits lunar sphere of influence
2026/04/08 5:45:12 AM	141:10:00	Lunar flyby science debrief
2026/04/08 12:58:12 PM	148:23:00	Return trajectory correction burn #1

FLIGHT DAY 8

Date and Time (AEST)		MET	Event
2026/04/09	10:25:12 AM	169:50:00	Radiation shielding demonstration
2026/04/09	12:55:12 PM	172:20:00	Manual piloting demonstration

FLIGHT DAY 9

Date and Time (AEST)		MET	Event
2026/04/10	7:50:12 AM	191:15:00	Orthostatic intolerance garment assessment (shift 1)
2026/04/10	10:45:12 AM	194:10:00	Orthostatic intolerance garment assessment (shift 2)
2026/04/10	1:08:12 PM	196:33:00	Return trajectory correction burn #2

FLIGHT DAY 10

Date and Time (AEST)		MET	Event
2026/04/11	5:08:12 AM	212:33:00	Return trajectory correction burn #3
2026/04/11	7:05:12 AM	214:30:00	donning entry suits
2026/04/11	9:48:12 AM	217:13:00	Orion crew and service module separation
2026/04/11	9:51:12 AM	217:16:00	Crew module raise burn
2026/04/11	10:08:12 AM	217:33:00	Entry Interface at 400,000 feet feet * Drogue parachutes deploy at 25,000 feet main parachutes
2026/04/11	10:21:12 AM	217:46:00	Splashdown