



XW-3 (CAS-9) Amateur Radio Satellite Launch Time Sequence

20211221

Alan Kung, BA1DU

Seq. No.	Time (UTC)	Satellite Location	Event
1	2021-12-26 03:11:31 T0-1466.9336 sec.	Taiyuan Satellite Launch Center	•Launch vehicle lift off
2	2021-12-26 03:35:58 T0	98.858°E 28.413°S	•XW-3 (CAS-9) satellite is separated from the launch vehicle •The satellite power up
3	2021-12-26 03:36:04 T0+6 sec.		•Solar array panels deployment
4	2021-12-26 03:36:33 T0+35 sec.		•UHF antenna deployment



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5	2021-12-26 03:36:36 T0+38 sec.	Western Australia	<ul style="list-style-type: none">●Power on the CW telemetry beacon●Power on the V/U linear transponder●GMSK telemetry transmission on Normal mode
6	2021-12-26 03:36:47 T0+49 sec.	Western Australia	<ul style="list-style-type: none">●VHF antenna deployment●The line transponder works in two-way communication state
7	2021-12-26 04:11:00 T0+2102sec.	South America	<ul style="list-style-type: none">●CW beacon on●Linear transponder on●GMSK telemetry on
8	2021-12-26 04:30:00 T0+3242 sec.	North America	<ul style="list-style-type: none">●CW beacon on●Linear transponder on●GMSK telemetry on
9	2021-12-26 04:42:43 T0+4005 sec.	Arctic, North America, Russia	<ul style="list-style-type: none">●CW beacon on●Linear transponder on●GMSK telemetry on●GMSK telemetry transmission mode changed to test mode.●The satellite will keep running in test mode for several orbits, and then back to normal mode.



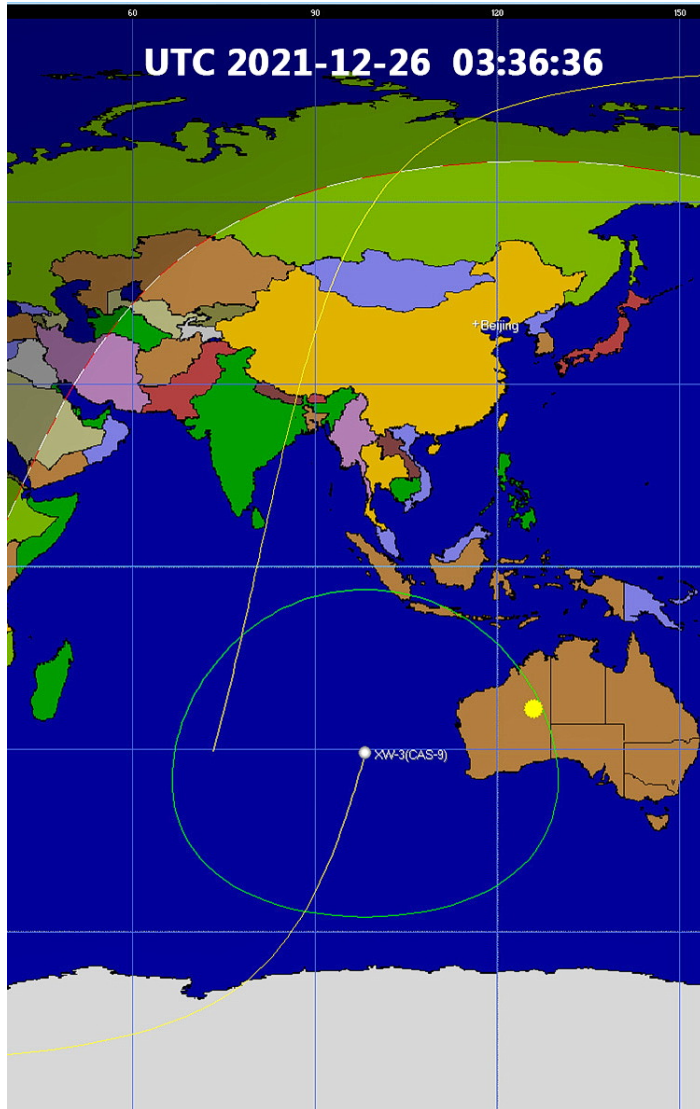
Seq. No.	Time (UTC)	Satellite Location	Event
10	2021-12-26 04:59:00 T0+4982 sec.	China, Central Asia, South Asia	<ul style="list-style-type: none">●CW beacon on●Linear transponder on●GMSK telemetry on (Test mode)
11	2021-12-26 08:14:00 T0+16682 sec.	West Asia, Middle East, Europe	<ul style="list-style-type: none">●CW beacon on●Linear transponder on●GMSK telemetry on (Test mode)

Two-Line Orbital Element:

XW-3(CAS-9)

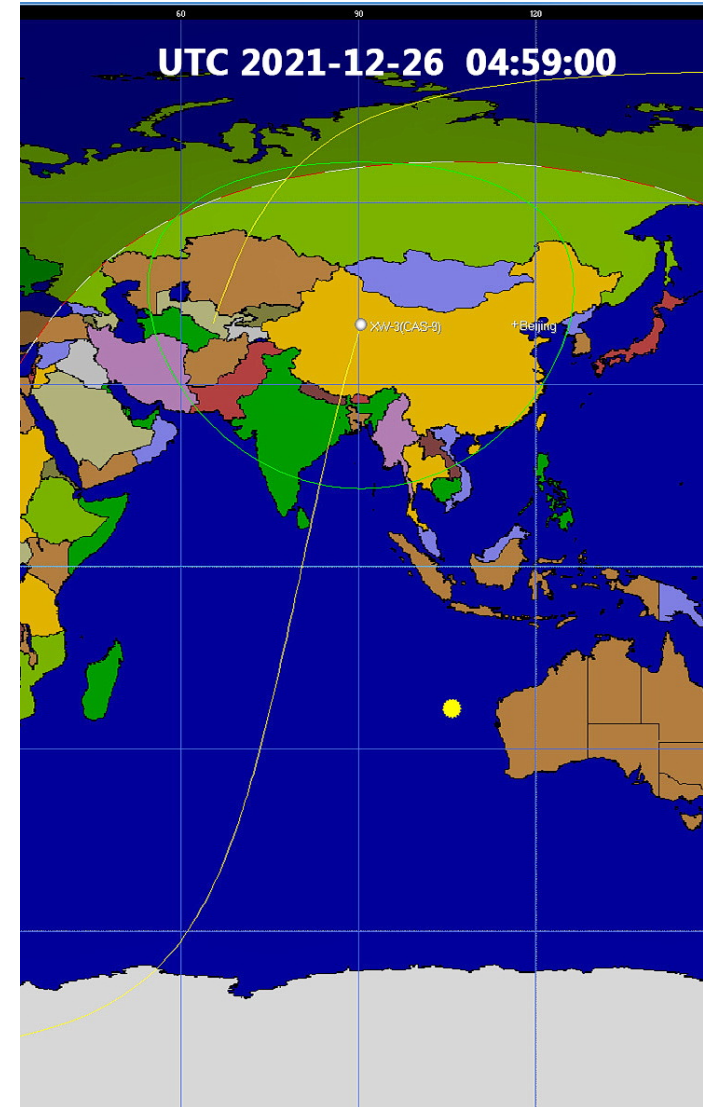
1 99999U 21360.14997609 .00000032 00000-0 10363-4 0 00007

2 99999 098.5836 072.3686 0004232 307.2415 261.3002 14.38559758000156





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