
ATLAS
GOES S

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00:00:00,080 --> 00:00:04,040
NASA Launch Commentator Mike Curie: We are very pleased to be joined by NASA’s GOES-S

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00:00:04,040 --> 00:00:09,010
launch manager and a member of the Kennedy Space Center Launch Services Program, Tim

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00:00:09,010 --> 00:00:10,010
Dunn.

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00:00:10,010 --> 00:00:11,010
Congratulations, Tim.

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00:00:11,010 --> 00:00:12,460
GOES-S Launch Manager Tim Dunn: Thank you so much, Mike.

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00:00:12,460 --> 00:00:13,599
Glad to be here.

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00:00:13,599 --> 00:00:16,230
Curie: It seemed to be a picture-perfect countdown.

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00:00:16,230 --> 00:00:17,500
Dunn: Wow.

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00:00:17,500 --> 00:00:18,500
This was smooth.

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00:00:18,500 --> 00:00:23,650
They don’t all come this way, but when they do, we truly appreciate them.

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00:00:23,650 --> 00:00:28,510
Really, we did not say one word on the Anomaly Net the entire day.

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00:00:28,510 --> 00:00:29,640
And so, you like that.

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00:00:29,640 --> 00:00:30,970
That’s a good countdown.

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00:00:30,970 --> 00:00:33,480
Curie: And weather cooperated with you as
well.

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00:00:33,480 --> 00:00:34,750
Dunn: Gorgeous weather.

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00:00:34,750 --> 00:00:40,691
Obviously, if you saw any of the outside shots
here in the local Cape Canaveral area, you

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00:00:40,691 --> 00:00:42,940
knew it was a “chamber of commerce” day.

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00:00:42,940 --> 00:00:44,850
So really appreciate that.

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00:00:44,850 --> 00:00:49,350
You may have heard some discussion on upper-level
winds; that was really about the only thing

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00:00:49,350 --> 00:00:51,210
we were discussing.

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00:00:51,210 --> 00:00:57,100
Had a little bit of a disturbance at about
45,000 feet that we had to just model correctly

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00:00:57,100 --> 00:01:04,000
to ensure that Atlas V could smoothly fly
through that regime and maintain its controllability.

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00:01:04,000 --> 00:01:09,940

So once we got that well in hand, about the last half hour or so of the countdown, there

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00:01:09,940 --> 00:01:15,820
was really nothing else to monitor, other than an exceptional team – a tremendous

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00:01:15,820 --> 00:01:16,820
team.

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00:01:16,820 --> 00:01:24,360
I'll tell you, working with the United Launch Alliance team on Atlas V is a real pleasure.

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00:01:24,360 --> 00:01:31,730
Watching the NASA Launch Services Program engineering team manage a countdown, watching

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00:01:31,730 --> 00:01:38,730
what our chief engineer and his team do, seeing how our spacecraft customer from Goddard Space

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00:01:38,730 --> 00:01:44,620
Flight Center, the GOES-S project program, how they come and they integrate in for that

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00:01:44,620 --> 00:01:49,550
last few months leading up to launch, and then to execute all of that on launch day,

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00:01:49,550 --> 00:01:54,800
and to receive tremendous range support that we get from the United States Air Force here

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00:01:54,800 --> 00:02:02,450
with the 45th Space Wing, just watching this multi-disciplined team do its thing, it's

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00:02:02,450 --> 00:02:05,530
just so rewarding to watch.

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00:02:05,530 --> 00:02:06,770
I love it.

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00:02:06,770 --> 00:02:11,230
I feel so honored to be a very small part
of this team.

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00:02:11,230 --> 00:02:16,880
It's just a thrill, especially when it all
ends in launch success, and mission success,

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00:02:16,880 --> 00:02:23,150
for GOES-S and this cutting-edge weather capability
that our nation will now have.

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00:02:23,150 --> 00:02:27,370
Curie: Yeah, all of what you said is very
true.

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00:02:27,370 --> 00:02:34,030
It is an amazing team of people that stretches
across the country with United Launch Alliance

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00:02:34,030 --> 00:02:36,140
and the NASA teams.

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00:02:36,140 --> 00:02:45,040
How long has this whole launch process been
for GOES-S?

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00:02:45,040 --> 00:02:46,760
How long have you been working this launch?

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00:02:46,760 --> 00:02:51,600
Dunn: Well, specific to GOES-S, we've been
working about 15 months, just on GOES-S, because

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00:02:51,600 --> 00:02:56,820

15 months ago we were here launching GOES-R,
its predecessor, which is now on orbit and

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00:02:56,820 --> 00:02:59,260
providing great weather data for our use.

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00:02:59,260 --> 00:03:04,849
So, kind of, GOES-R and -S together, has been
a multi-year development that's been in

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00:03:04,849 --> 00:03:08,560
work for probably about the past five to seven
years.

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00:03:08,560 --> 00:03:14,050
So, all of that, there's a lot of work that
goes into a launch day like this.

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00:03:14,050 --> 00:03:18,800
Curie: Will you be our NASA Launch Manager
when we come around to GOES-T?

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00:03:18,800 --> 00:03:21,239
Dunn: We're not sure.

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00:03:21,239 --> 00:03:26,879
Looking forward to GOES-T. Looks like that's
going to be in a couple of years, in 2020.

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00:03:26,879 --> 00:03:34,830
Omar Baez, our other program launch director,
and I, we sort of flip coins and decide who

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00:03:34,830 --> 00:03:36,270
does which launch.

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00:03:36,270 --> 00:03:40,430
But if it's my turn, I'd be honored to
do it.

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00:03:40,430 --> 00:03:41,860
Omar would, likewise.

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00:03:41,860 --> 00:03:42,860
Curie: Okay.

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00:03:42,860 --> 00:03:49,260
Well, this will be a great process watching
that all develop, and we'll be standing

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00:03:49,260 --> 00:03:52,769
by for the solar array deploy on GOES-S.

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00:03:52,769 --> 00:04:00,620
The beginning of about a 22-day timeline as
it gets ready to get into action.

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00:04:00,620 --> 00:04:03,990
But up until this point it's been a terrific
launch campaign.

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00:04:03,990 --> 00:04:05,100
Dunn: Right.

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00:04:05,100 --> 00:04:09,730
So I'll just say for a moment this is a
huge year for Launch Services Program.

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00:04:09,730 --> 00:04:15,170
This is the first of six launches that our
program has this year, so very busy year for

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00:04:15,170 --> 00:04:16,459
us.

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00:04:16,459 --> 00:04:20,549
Working from both coasts, here at the cape
as well as Vandenberg, and downrange in the

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00:04:20,549 --> 00:04:22,460
Pacific at Kwajalein.

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00:04:22,460 --> 00:04:26,460
So, Pegasus will fly a payload for us.

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00:04:26,460 --> 00:04:32,300
Our first flight on the Delta IV Heavy vehicle,
we'll go out to Vandenberg and do another

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00:04:32,300 --> 00:04:36,639
Atlas from Vandenberg with a Mars mission
from the west coast of the United States – we've

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00:04:36,639 --> 00:04:38,720
never gone interplanetary from the west coast.

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00:04:38,720 --> 00:04:41,009
That's going to be a thrill.

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00:04:41,009 --> 00:04:45,770
And we're launching a Falcon 9 here from
the cape with SpaceX, just next month, in

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00:04:45,770 --> 00:04:46,889
April.

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00:04:46,889 --> 00:04:51,900
And then one that's a little close to my
heart, the very final Delta II, will launch

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00:04:51,900 --> 00:04:55,680
this year from Vandenberg carrying the ICESat-2
mission.

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00:04:55,680 --> 00:04:58,529
Curie: You're very fond of Delta II.

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00:04:58,529 --> 00:04:59,529
Dunn.

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00:04:59,529 --> 00:05:00,529
I am fond.

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00:05:00,529 --> 00:05:05,419
I love Atlas V, I love them all, but Delta
II will always have a special place in my

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00:05:05,419 --> 00:05:06,419
heart.

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00:05:06,419 --> 00:05:11,319
Curie: I remember you talking about you can
love just one of your children – you do

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00:05:11,319 --> 00:05:15,000
love all of your children, but you do have
a special place in your heart for the Delta

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00:05:15,000 --> 00:05:16,000
II.

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00:05:16,000 --> 00:05:19,770
Well, thank you again for stopping by, Tim,
and congratulations again today on such a

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00:05:19,770 --> 00:05:24,150
culmination of a wonderful launch campaign
and a beautiful launch of GOES-S.

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00:05:24,150 --> 00:05:25,150
Dunn: Great.

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00:05:25,150 --> 00:05:26,150
Thank you, Mike.