

From: [Gardiner, Dawn](#)
To: [Combs, Brett A](#)
Subject: Fw: SpaceX and Mig Birds.
Date: Tuesday, April 11, 2023 1:46:22 PM

From: Stone, Kelli L <kelli_stone@fws.gov>
Sent: Thursday, February 16, 2023 2:39 PM
To: Gardiner, Dawn <dawn_gardiner@fws.gov>
Subject: Re: SpaceX and Mig Birds.

the video is proof of the magnitude of these events, even the narrator talks about the magnitude - it being huge and starts to say "that is the last...." I imagine the rest of the sentence could be "you would want to be".

There must be big impacts to birds. Even if Stephanie didn't find carcasses, it seems possible some of them could have burned up? Regardless of direct mortality at the moment of launching (and it seems hard to believe that some birds were not killed?) but damage to birds hearing, internal injuries, the huge shock of that explosion the stress that caused.

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From: Gardiner, Dawn <dawn_gardiner@fws.gov>
Sent: Thursday, February 16, 2023 10:30 AM
To: Stone, Kelli L <kelli_stone@fws.gov>
Subject: SpaceX and Mig Birds.

Sorry, the previous email did not contain a video but an article. Can we schedule a TEAMS meeting with you and me, Chris Perez, Stephanie Bilodeau, Ernesto Reyes, and Mary Orms about what we think/wonder about might be going on for birds at the Boca Chica site?

Here is drone imagery of the test. It did not capture the birds but you get a sense of the effects...

<https://www.youtube.com/watch?v=8A5c202tjvg>



SpaceX Starship Booster RECORD 31-Engine Static Fire (LIVE)

SpaceX's Starship Booster 7 lit up 31 of its 33 Raptor 2 engines for a record-breaking static fire. This was streamed live on my Local's page. According to Elon Musk, "Team turned off 1 engine just before start & 1 stopped itself, so 31 engines fired overall. But still enough engines to

www.youtube.com

Dawn

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"The success of every woman should be the inspiration to another. We should raise each other up. Make sure you're very courageous: be strong, be extremely kind, and above all be humble. "

— **Serena Williams**