AIAA Houston Section Weekly Status from Douglas Yazell: Diversity, Climate, History and Three Sister Sections: France, Ethiopia and Peru, Saturday, 9/10/2022

Views expressed in this document are opinions of the author and do not necessarily reflect views of AIAA.

The Starry Night, 1889, Vincent van Gogh. Image credits: Wikipedia

Grand Canyonscope

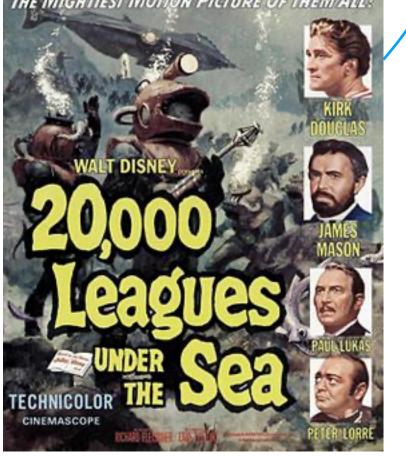
From Wikipedia, the free encyclopedia

Grand Canyonscope is a Donald Duck animated short released in 1954.^[1] It was Disney's second cartoon filmed in CinemaScope (following Toot, Whistle, Plunk and Boom), and was produced to accompany Disney's first CinemaScope film 20,000 Leagues Under the Sea. (One joke has J. Audubon Woodlore breaking the fourth wall stating to the tourists in the CinemaScope version, "Uh, spread out, folks, this is CinemaScope." or in the flat version, "Uh, spread out, folks, this is a big canyon.")

See Slide 2 (Diversity)

Image: Wikipedia.

MIGHTIEST MOTION PICTURE OF THEM ALL



This weekly document, my status report, is published here. The full link is: www.aiaahouston.org/history_technical_committee/#news

Slide 2-Diversity-The ultimate pivot, June 2, 2020 Slide 3-Climate-Net zero by 2050, the ultimate sense of urgency Slide 4-AIAA Houston Section International Activities Committee (IAC) Slide 5-France-USA Sister Sections (www.3af-mp.fr) <u>Slide 6</u>-**Ethiopia**-USA Sister Sections (<u>www.ethiosss.org</u>) Slide 7-Peru-USA Sister Sections Slide 8-Mexico-AIAA Region IV: Mexico, TX, OK, AR, & NM Slide 9-Mexico-AIAA Region IV & paired with AIAA Houston Section Slide 10-AIAA Houston Section History technical committee



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Photo of Fess Parker as Davy Crockett from the television miniseries Davy Crockett. This episode is "Davy Crockett Goes to Congress". Date: This early miniseries aired on the television program Disneyland from 1954 to 1955. The press release is undated but says the episode was to air 27 April. This is most likely from 1955 as the series began airing in December 1954 and continued through December 1955. Source: eBay photo (Wikipedia).

See <u>Slide 2</u> (Diversity)

Win a beautiful new Hudson Hornet, Wasp or Rambler



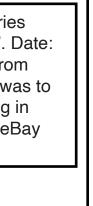
COMING SOON at your local theater, Walt Disney's Feature Movie, "Davy Crockett, King of the Wild Frontier," starring Fess Parker.

Shown above is **Davy Crockett** (Fess Parker), standing beside the beautiful Hudson Hornet Custom Hollywood Hardtop to be given as 1st grand prize along with the trip to Disneyland for you, Mother and Dad.



1955 Hudson Hornet Custom Hollywood Hardtop









Goals and Objectives GOAL 1: DIVERSITY AND INCLUSION ARE WIDELY RECOGNIZED

WITHIN THE AIAA COMMUNITY AS ESSENTIAL TO THE MISSION AND VISION OF THE INSTITUTE.

The 2021-2023 AIAA Diversity Plan

OBJECTIVE 1: Increase awareness within the AIAA community of the importance of diversity and inclusion.

he Disney+ advisory (<u>www.disney.com/storiesmatter</u>):

"This program includes negative depictions and/or mistreatment of people or cultures. These stereotypes were wrong then and are wrong now. Rather than remove this content, we want to acknowledge its harmful impact, learn from it and spark conversation to create a more inclusive future together.

"Disney is committed to creating stories with inspirational and aspirational themes that reflect the rich diversity of the human experience around the globe.

- "To learn more about how stories have impacted society, please visit www.disney.com/StoriesMatter."

The Horse in the Gray Flannel Suit

The Computer Wore Tennis Shoes

The Love Bug Smith!

Rascal

In the middle of this documentary, the judge says the shooter lives with a good family in a nice neighborhood. It cuts to the mother later at home crying about that, saying the judge spoke as if she belongs in a neighborhood with rampant drug crimes, in a house with a leaky roof and rat infestations, something like that. I had already told myself that hearing "nice neighborhood" from the judge is the problem. Milwaukee Wisoconsin had so much crime that the shooting victim Claude Motley had moved to Charlotte North Carolina. When he was shot in Milwaukee, he had returned for the 25th high school reunion. Racism is systemic; a structure, not an event.

AIAA started our work with diversity in 2015. The current diversity and inclusion strategic plan includes Black History Month. "We need to make the ultimate pivot ...," wrote our executive director on June 2, 2020. "... opposition to whiteness is not the same as opposition to white people." [George Lipsitz, in his 1998 book, on page viii] Whiteness is a divide and dominate strategy and a pyramid scheme. One of many experts providing that explanation is Jacqueline Battalora, whose 2013 book is Birth of a White Nation. Its second edition was first published in 2021. [Douglas Yazell, September 10, 2022]

Below is a list of short and long Disney movies on Disney+ which start by presenting the advisory (www.disney.com/storiesmatter) for about 12 seconds. Today, 9/10/2022, I expanded this list by five to increase from nine to fourteen.

- 1. Donald Duck in Beach Picnic (1939) [8 minutes] 2. Dumbo (1941)
- 3. Saludos Amigos (1942)
- 4. The Three Caballeros (1944)
- 5. Peter Pan (1953)

- 7. Swiss Family Robinson (1960)
- 8. Those Calloways (1955)
- 9. Davy Crockett (1955)
- 10. The Plausible Impossible (1956)
- 11. The Jungle Book (1967)
- original version. It has been edited for content."]
- 13. The Aristocats (1970)
- 14. The Castaway Cowboy (1974, starring James Garner)

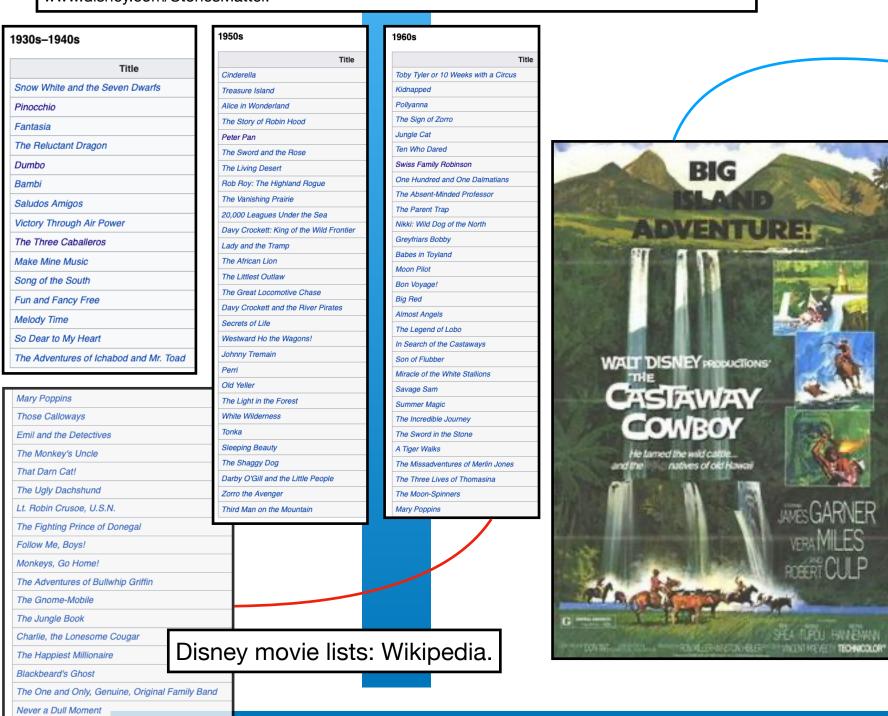
FEATURES

LIST: Houston has 12 statues and paintings on display depicting **Confederate leaders, the Civil War** and slavery

Ana Gonzalez, Digital Associate Producer

Published: June 12, 2020, 8:13 PM

History



Diversity

6. Donald Duck in Grand CanyonScope (1954) [6 minutes and 50 seconds]

12. The Adventures of Bullwhip Griffin (1967) [Disney+: "This film has been modified from its

Tags: Houston, Statues, Art, Juneteenth, Slavery, Civil War, Confederacy, Local, Texas,

WHEN CLAUDE GOT SHOT

Premiered May 9, 2022

Solution Directed by Brad Lichtenstein

After being shot in the face by a teenager, can law student Claude find it in himself to forgive his attacker?



ABOUT THE DOCUMENTARY

In Milwaukee, a 15-year-old attempted to carjack law student Claude Motley and shot him in the face. Through multiple surgeries and catastrophic health care bills, the effects of gun violence upends Claude's life. Yet he still finds himself torn between punishment for the young man and the injustice of mass incarceration for Black men and boys. Can he find mercy in his heart for his attacker?

AIAA Statement on Diversity, Equality, and Inclusion from AIAA Executive Director Dan Dumbacher, Written Monday, June 2, 2020.

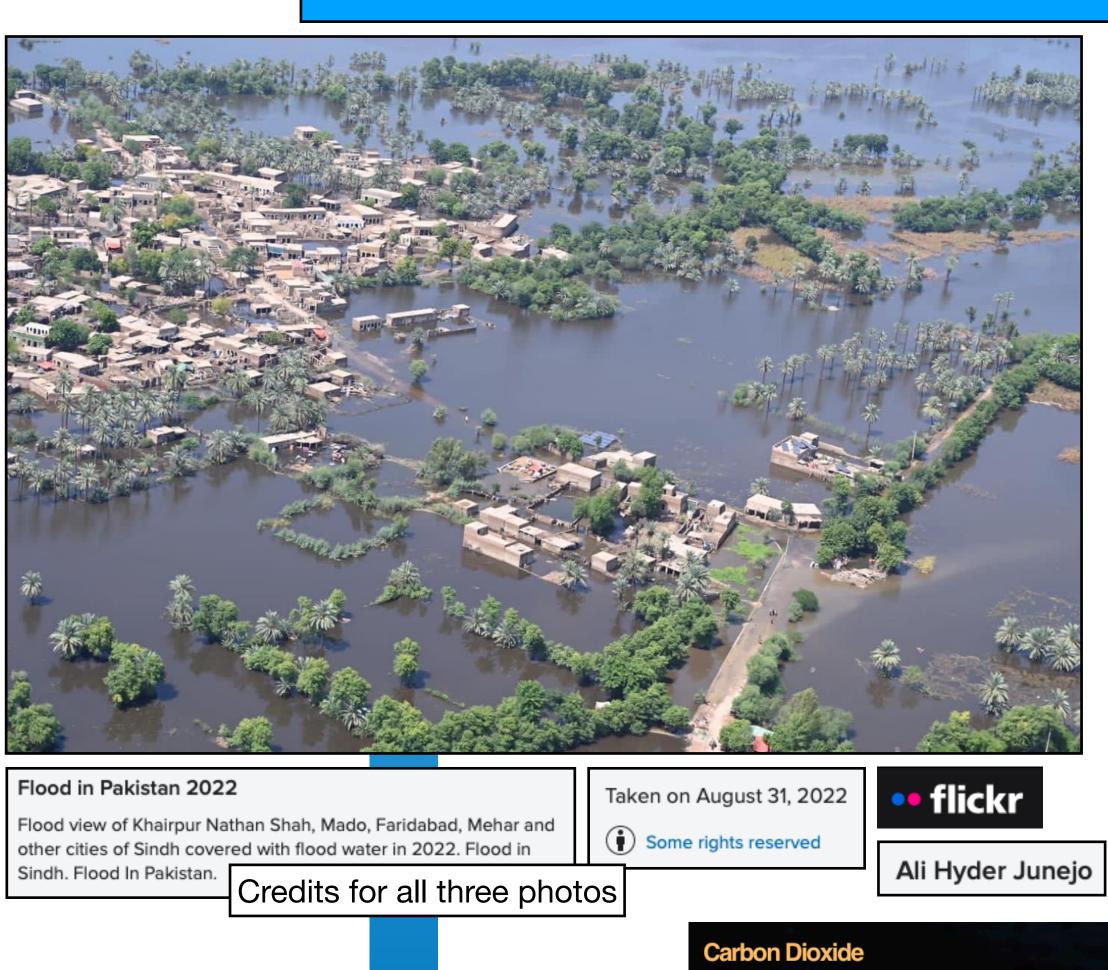
"We need to make the ultimate pivot..."











GLOBAL TEMPERATURE

 $1.01^{\circ C \text{ since 1880}}$ 0.85 - (-0.16) 1/20/2022

Global Temperature **↑419** `**1.01** °C since 1880 **GLOBAL CLIMATE CHANGE** Vital Signs of the Planet Ice Sheets Sea Level J427 billion metric tons per year inches since January 1993 **14** +

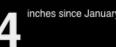
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Climate

..the ultimate sense of urgency...





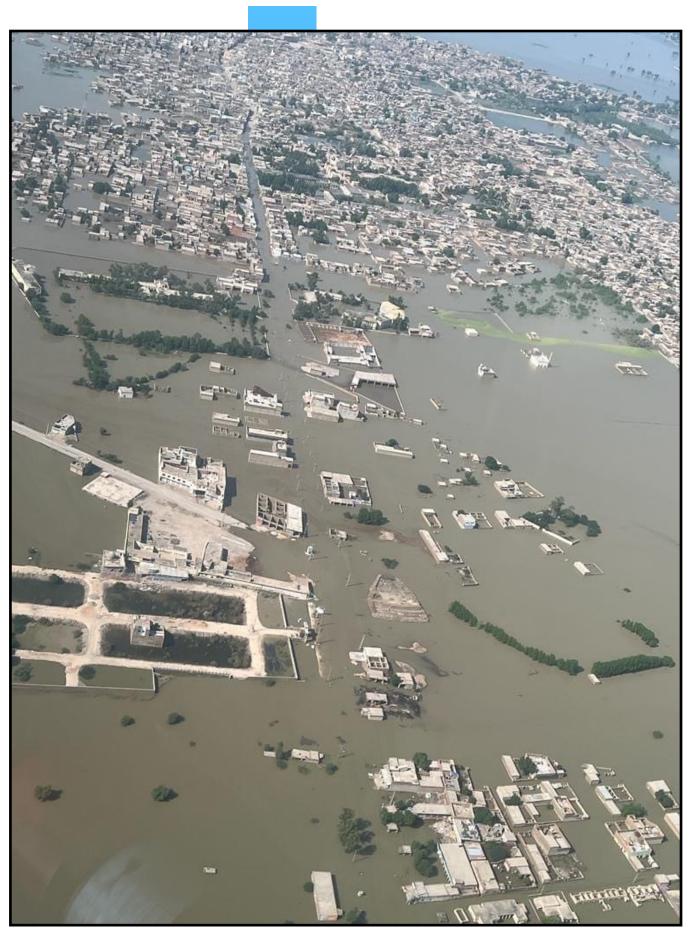


Arctic Sea Ice Extent 13 cent per decade since 1979

Ocean Warming



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alain.chevalier31@yahoo.fr francis.guimera@orange.fr douglas.yazell@me.com tulubesha@yahoo.com tharegot@gmail.com jackysumac@yahoo.com



AIAA Houston Section sister sections

France-USA: <u>www.3af-mp.fr</u> France: Francis Guimera, preceded by Alain Chevalier Houston: Douglas Yazell

Ethiopia-USA: Ethiopia: Tulu Besha Bedada, PhD and Berhan Gessesse, PhD Houston: Thomas Haregot

Peru-USA: Houston: Jackelynne Silva-Martinez Peru: Julio Valdivia, Saul Perez

AIAA Houston Section International Activities Committee (IAC) Chair: Douglas Yazell, douglas.yazell@me.com





•• flickr

ERIC SALARD

Taken on July 14, 2022

• Some rights reserved

KC-135 ARMEE DE L'AIR 31-CL

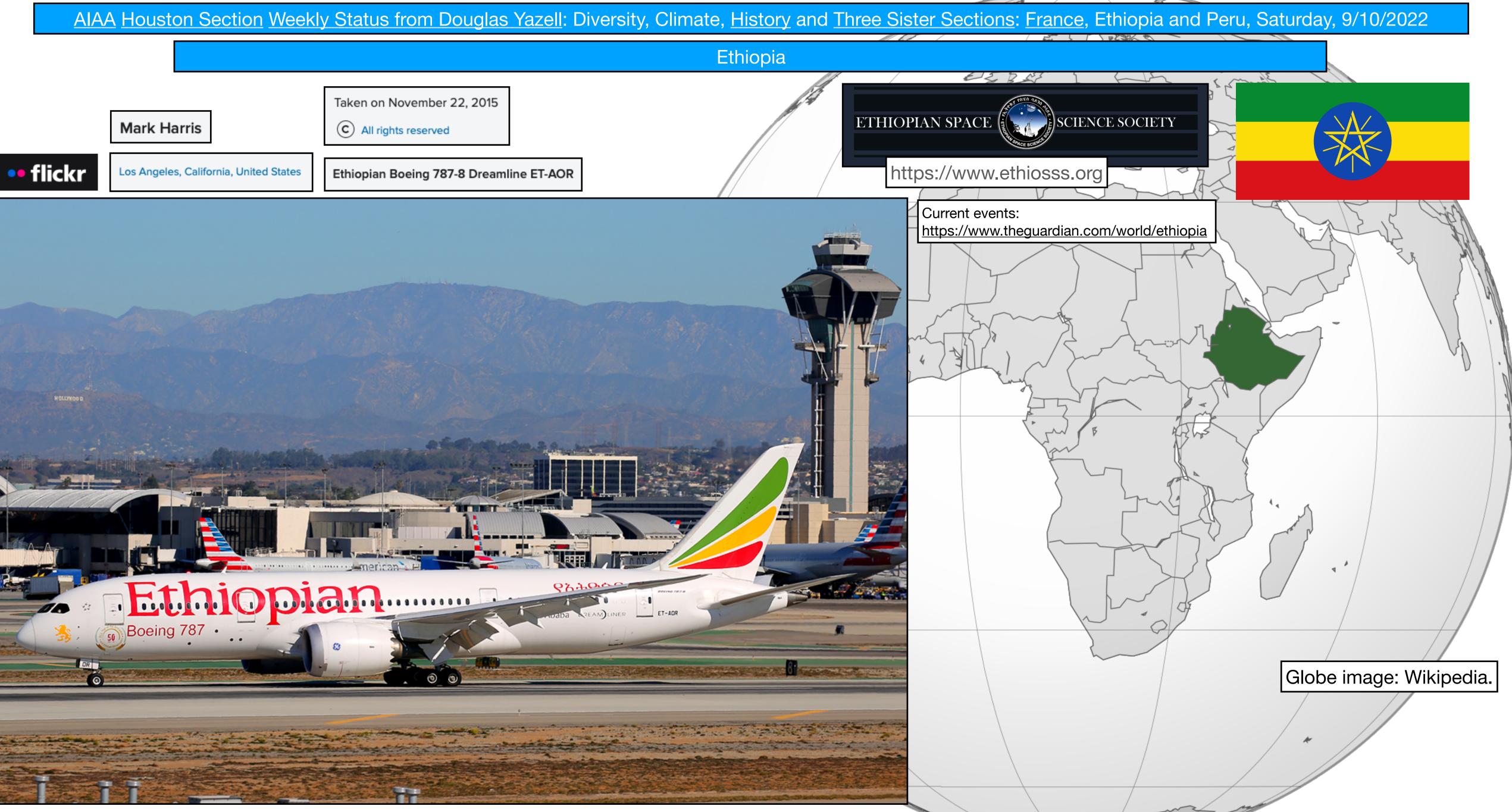
MSN 18700 Boeing C-135FR Stratotanker FRENCH AIR FORCE / ARMEE DE L'AIR ET DE L'ESPACE PARIS

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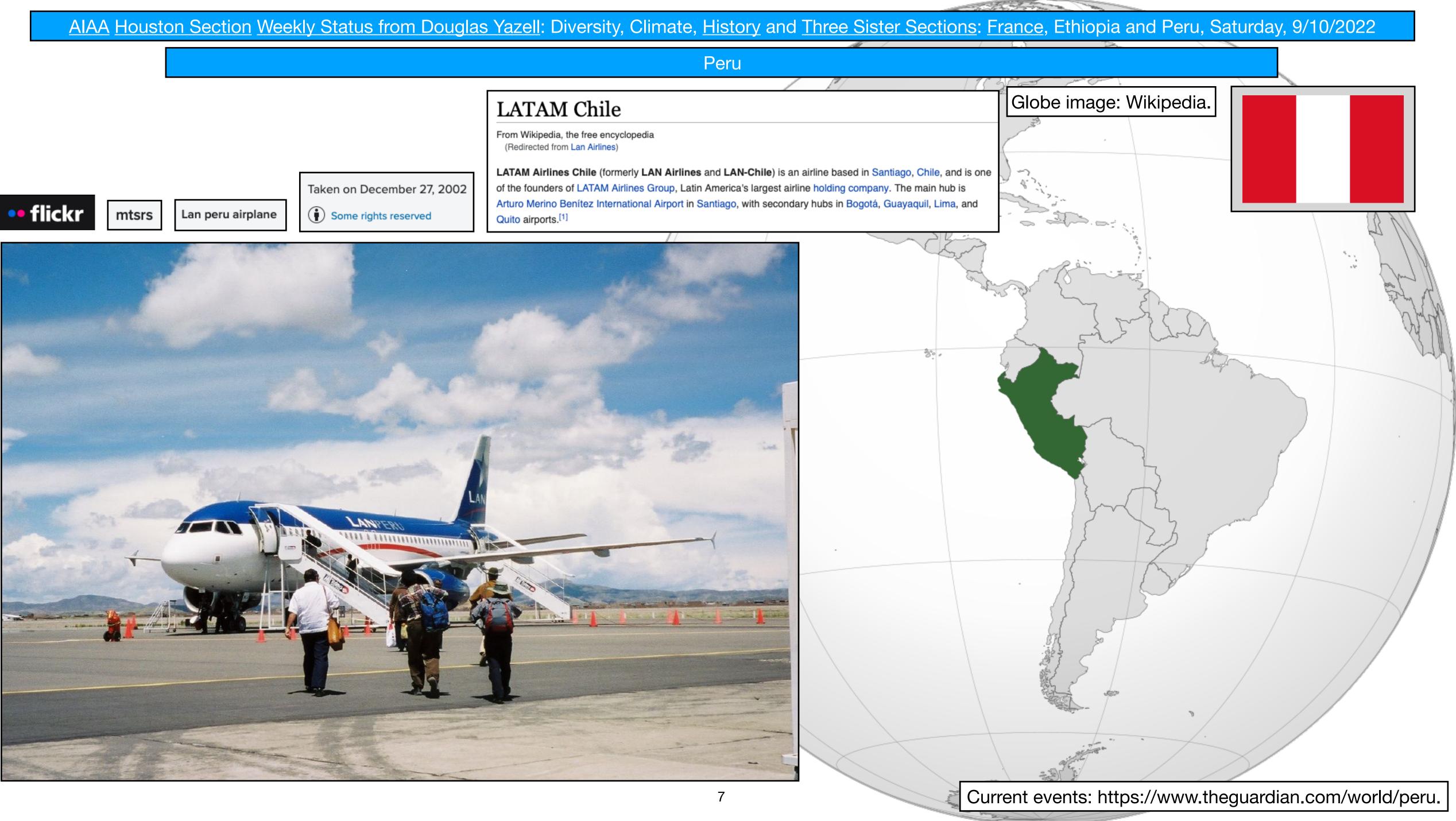






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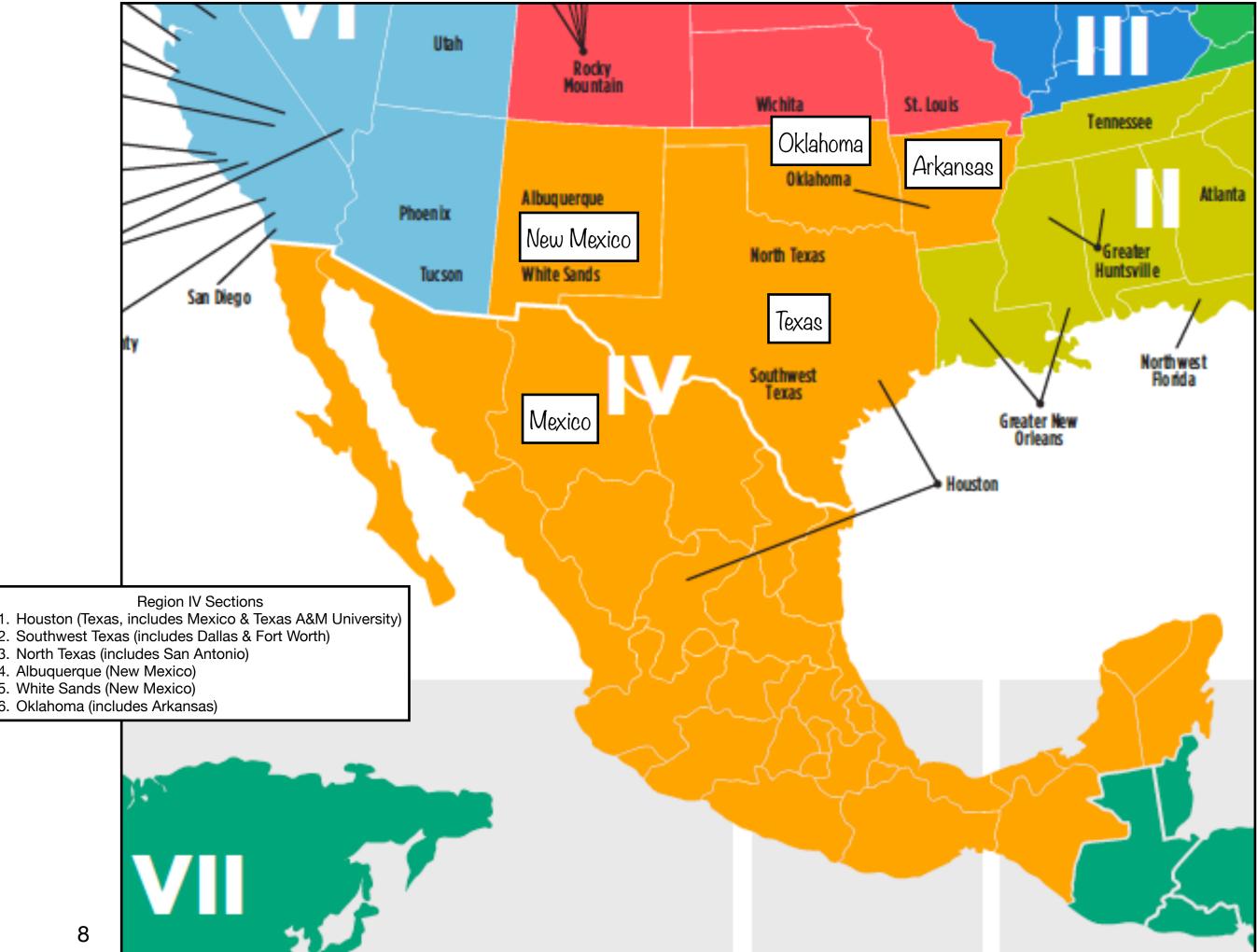
(Redirected from Lan Airlines)







AIAA Houston Section: Mexico and the Section's territory in Texas AIAA Region VII (International) and Region IV (Mexico and four states of the USA)





Mexico News Daily

Pemex denies massive methane leak reported in Gulf of Mexico

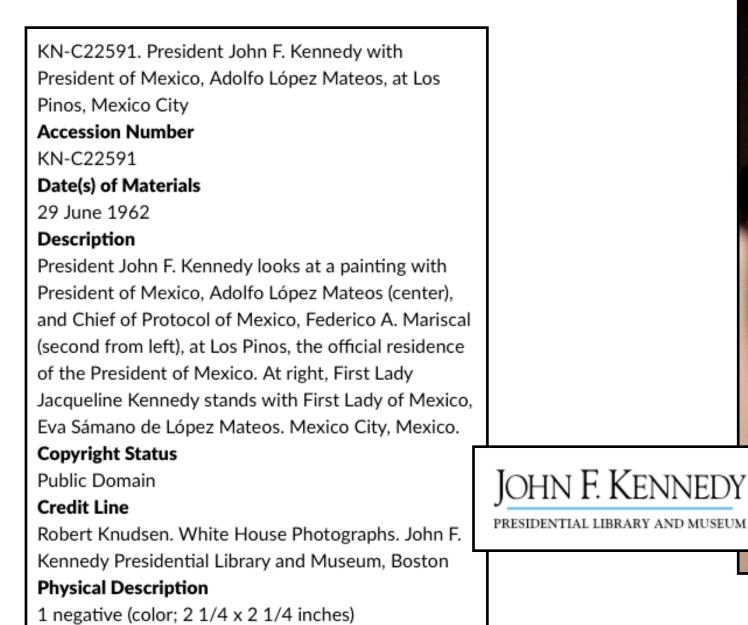
Pemex said the scientists should have asked them for information about the quantity of methane emitted

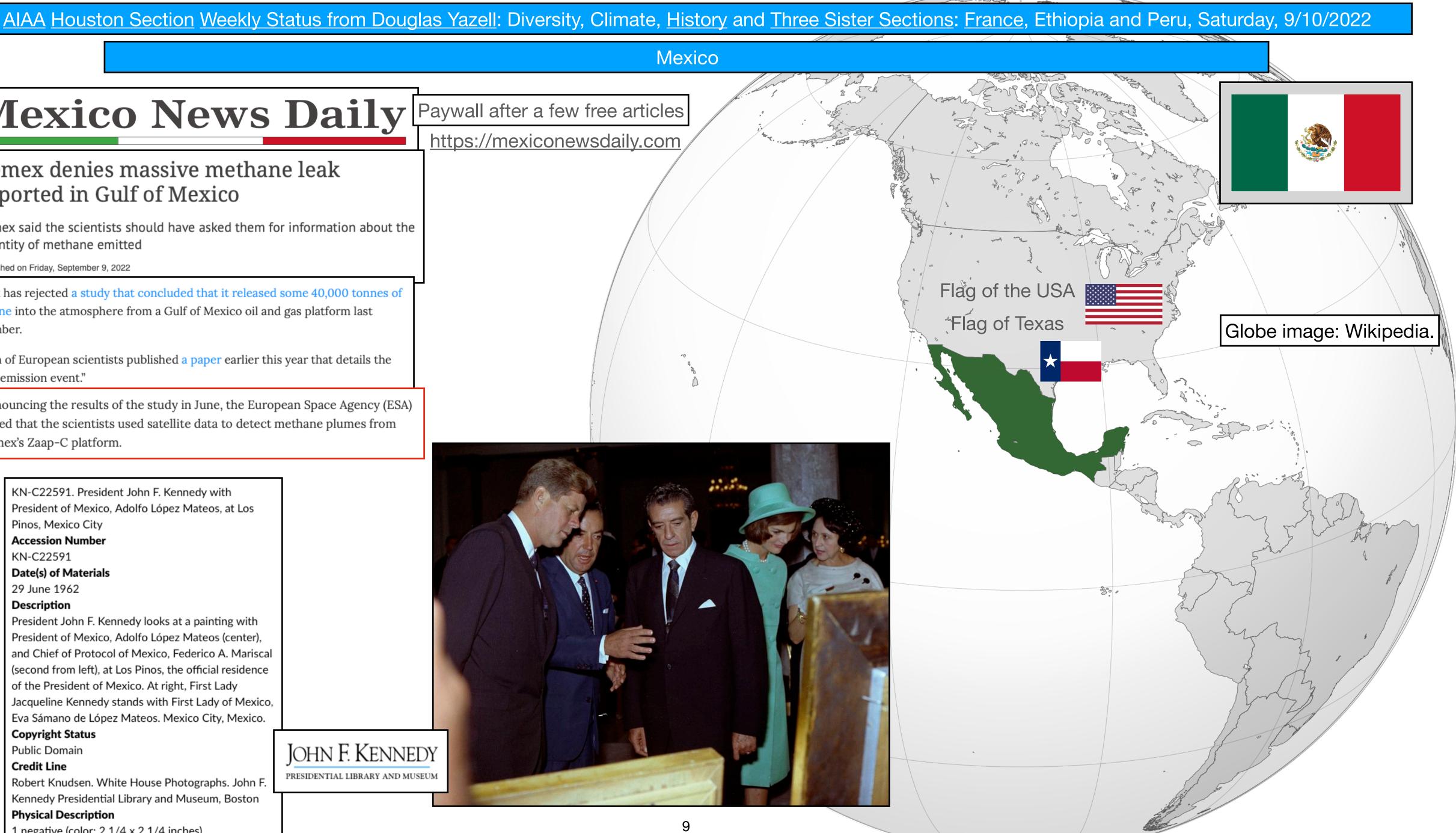
Published on Friday, September 9, 2022

Pemex has rejected a study that concluded that it released some 40,000 tonnes of methane into the atmosphere from a Gulf of Mexico oil and gas platform last December.

A team of European scientists published a paper earlier this year that details the "ultra-emission event."

Announcing the results of the study in June, the European Space Agency (ESA) noted that the scientists used satellite data to detect methane plumes from Pemex's Zaap-C platform.





AIAA Houston Section <u>History Technical Committee</u> Chair-Douglas Yazell



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AIAA Houston Section www.aiaa-houston.org

Final Visit to Hubble



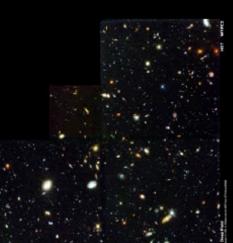












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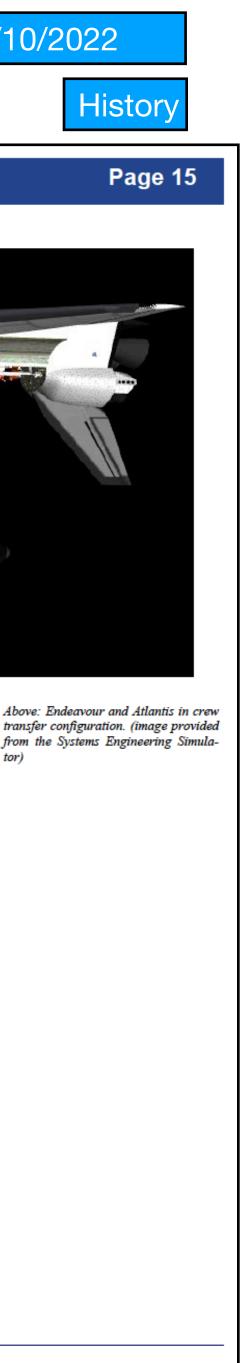
Feature Article

Not only has NASA gone (ISS) for an extended period to great efforts to prevent dam- while the rescue orbiter could age to the Orbiter during as- be readied for flight. With ISS have to come within close prox cent, the space agency has also used as a staging point for the imity to one another on orbit. taken some measures to detect crew of the damaged orbiter. damage once it arrives on orbit. ample time should be available rives, the STS-125 orbiter Tools and techniques have been developed that provide some ability to execute repairs

Special thanks to AIAA Houston Section webmaster Amy Efting who arranged a NASA tour for Daryl Schuck, Steve Everett, and Douglas Yazell. We toured the Systems Engineering Simulator (SES) to tart preparations for this



Right: (Unofficial) mission patches for STS-400



Preparing for Rescue DARYL SCHUCK

to a damaged orbiter. NASA orbiter was not fit for return. realizes that, despite its best efforts, there still remains the STS-125, the next and final possibility that damage could occur that may not be adereturn of the crew. Therefore, a Since HST is in a completely means to rescue the crew using different orbit from ISS, it is a second shuttle has been denot feasible to use ISS as a

A potential rescue mission mission is readied. The dambe discovered that an Orbiter was unable to return due to irreparable damage sustained missions, but still include them along with its crew, would

numbered as STS-300 series the rescue even before STSand are paired with nominal missions. These "Launch on

having the shuttle crew stay on much more immediate response Once the HST crew was

HST crev In that case, two orbiters Once STS-400 (Endeavor) ar-

to initiate and complete train- (Atlantis) is approached with ing of the rescue crew after the payload bays perpendicular to determination that the original each another in order to minimize possibility of impact. En-However, in the case of deavor would then utilized the Shuttle Remote Manipulator Hubble Space Telescope (HST) System (SRMS) - or robotic servicing mission, the rescue arm - to grapple onto the grap quately reparable to ensure safe scenario changed significantly. ple fixture of the inspection boom on Atlantis. Both orbiters would then enter free drift, and they would be reoriented rela safe haven' while a rescue tive to one another and subse quently assume a combined would be carried out should it aged orbiter would only be able 'gravity gradient' attitude, conto sustain the crew for a maxi- serving precious fuel.

Once the two shuttles were mechanically linked via the during ascent. In order to dif- double that time). For HST, the SRMS, the crews would have to ferentiate these rescue missions "on need" approach no longer be transferred to the rescue orfrom the regularly scheduled worked and the rescue orbiter, biter individually in EVA suits. Those suits might not be option the flight manifests, they are have to be prepared to execute mally sized for all the crew, but they would serve the purpose of 125 launches, launching in as allowing them to be transported little as seven days after the by "prime" EVA crewmembers Need" missions would involve STS-125 launch. Therefore, a with properly sized suits.

the International Space Station would be required to rescue the transferred, the STS-400 mis-



mum of 23 days (as compared

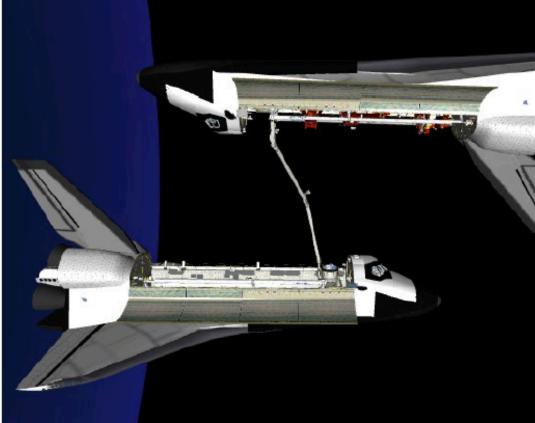
to ISS, which could serve for

ALAA Houston Horizons Spring 2009 Page 14

sion would return with seven crewmembers in the middeck and four on the flight deck. The combined crews make up a larger group than those that usually fly on an orbiter, but is a necessary exception if a rescue were required. Time spent on orbit prior to deorbiting would be kept to a minimum.

The fate of the damaged orbiter remains somewhat unknown, although there have been some considerations for allowing the orbiter to return unmanned. The default plan is for the damaged orbiter to be disposed by ditching it into the ocean, although there have been some efforts made to provide a more palatable alternative. In order to provide the capability to command the orbiter to perform the deorbit burn and reentry sequence to a landing site (the preferred landing site is White Sands Test Facility in California), an approach called the "Remote Control Orbiter" (RCO) has been devised, including a newly fabricated wiring harness which would have to be installed. One of these cables already exists on ISS, but a second cable may be readied to be available for the HST mission. The RCO cable enables commands essential to the re-entry and landing sequence, such as deployment of the air data probes and landing gear, to be sent and executed via ground commands.

A primary facility for preparing the STS-400 crew (which is made up of crewmembers already preparing for information during the ap-STS-126, the next scheduled proach. Once within reach, the mission) is the Systems Engineering Simulator (SES) at NASA-JSC. Rescue mission training conducted in the SES facility includes the end to end Trajectory Control Sensor mission rendezvous and grap- (TCS) that is typically used for pling phases of the rescue mis- ISS rendezvous and docking.



sion. The SES provides an environment where interaction of the crew during these critical phases, requiring well orchestrated cooperation on the flight deck, can be practiced. The facility includes "out the window" visuals projected by an array of eight projectors onto a dome-shaped screen, provide a high fidelity simulation that combines with the flight deck environment.

The Shuttle flight deck is a very constrained space in which the crew needs to practice working together in order to smoothly progress through the complex sequence of operations of the approach and grapple and subsequent ungrapple and departure. The crew utilizes simulated handheld LIDAR to collect range crew operates the SRMS for which the flying characteristics have been realistically modeled. Also modeled is the Crews would also use the Payload and General Support Computer (PGSC) laptops throughout the sequence.

The SES complements other training facilities, most notably the Shuttle Mission Simulator (SMS), which provides a much more comprehensive simulation of the shut tle's systems, and the Dynamic Skills Trainer (DST), which provides the same high fidelity operation of the SRMS as the SES cockpits, but in a desktop platform.

Combined with a suite of other training facilities, the crew will be well prepared to perform well in such a challenging and time critical scenario. Should it occur, it could be NASA's finest hour, perhaps rivaling Apollo 13 - rescuing 7 crewmembers, and demonstrating once again that NASA is ready to step up to the challenges that human spaceflight will inevitably present.

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