

EFLIGHT 2021 December 04 Saturday

T.E.I. Tours & Travel, Tim Todd – tei@teiglobal.com
total solar eclipse airborne intercept flights in two
chartered LATAM B787-8's...1m52s in lunar umbra

El Calafate

Rio Gallegos

Puerto Natales

Punta Arenas

Rio Grande

Ushuaia

Falkland Islands (Islas Malvinas)

488 knots cruise

"buffer" circle

"Blue" 41,000 ft

"Gold" 40,000 ft

447 knots

three course corrections so the wing's upward flex blocked view from fewer windows

totality 1m52s at solar elevation 4.7 degrees

– Now in 2022 –
Congratulations to T.E.I. on this grand success, in triumph over the pandemic!

Noting T.E.I.'s 2+ years of work overcoming innumerable obstacles, especially covid obstacles, to conduct this sole airborne observation of TSE 2021 anywhere worldwide...

A Punta Arenas airport (PUQ)
53.00s 70.85w: B787-8 Plane
"Blue" wheels-up 03:53 UTC
= 12:53am local, then Plane
"Gold" wheels-up 03:56 UTC

B totality run start (TRSTART)
06:24:10 UTC 52.27s 40.45w

C mid-eclipse intercept (MEI)
07:03:30 UTC* 56.16s 45.24w

D totality run end (TREND)
07:09:30 UTC 56.70s 46.09w

E "Gold" wheels-down at PUQ
09:23 UTC = 06:23am local,
then "Blue" at 09:33 UTC

* +/- 3 seconds

this chart shows eclipse path at sea level, whereas T.E.I.'s two airliners intercepted at 41,000 feet and 40,000 feet altitude where the path is offset – i.e. location of MEI, point C, was actually much closer to the centerline at altitude than it appears here

...with nearly 100 participants proudly telling family, friends, and colleagues about having joined this unique adventure!