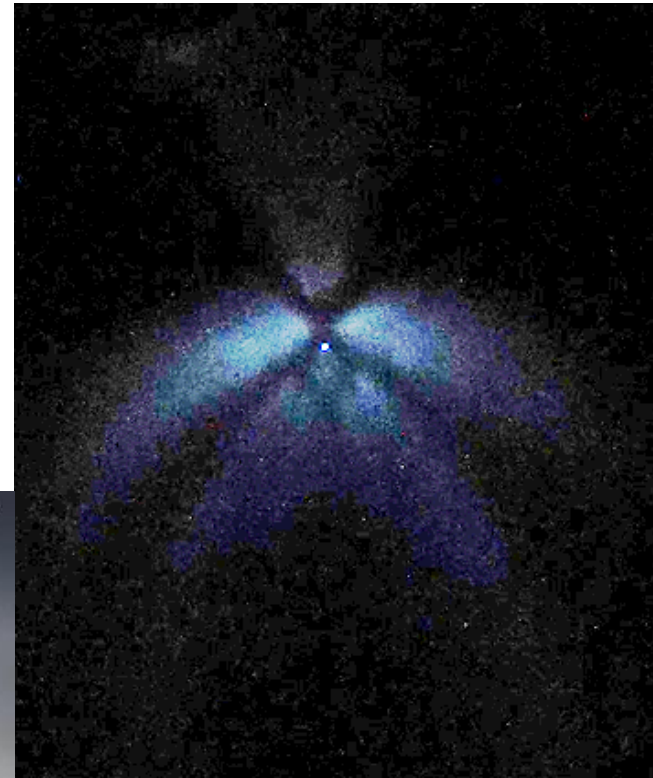


# OBSERVATIONS OF SOYUZ MS11 LAUNCH ON DEC 3, 2018



FINAL REPORT  
JAMES OBERG  
jamesEoberg  
@comcast.net  
DEC 10, 2018

# OVERVIEW

- Soyuz MS-11 [«Союз МС-11»] was launched December 3, 2018, at 14:31 Moscow Time [11:31 GMT]
- The mission launch schedule had been impacted by the failure of the previous manned Soyuz vehicle Soyuz MS-10 on October 6
- Quite by chance, the new launch date provided the same uncommon solar illumination conditions which in the past occasionally created wide-area visibility from the ground as well as from the ISS
- Clear weather in regions along the ascent path provided thousands of startled witnesses a sky spectacle, and many of them had videocams
- Observers made standard visual records of routine ascent through third stage burnout and Soyuz spacecraft separation.
- On ISS, Alexander Gerst filmed the entire ascent backlit by twilight.
- Also as usual, many witnesses interpreted the object as a UFO.

# See comparison report

## Soyuz launch & ascent observations from International Space Station and from ground/airborne observers on December 15, 2015



Soyuz TMA-19M 2015/12/15  
11:03:09 UTC  
from Baykonur

James Oberg  
September 24, 2016  
**FINAL REV 1**

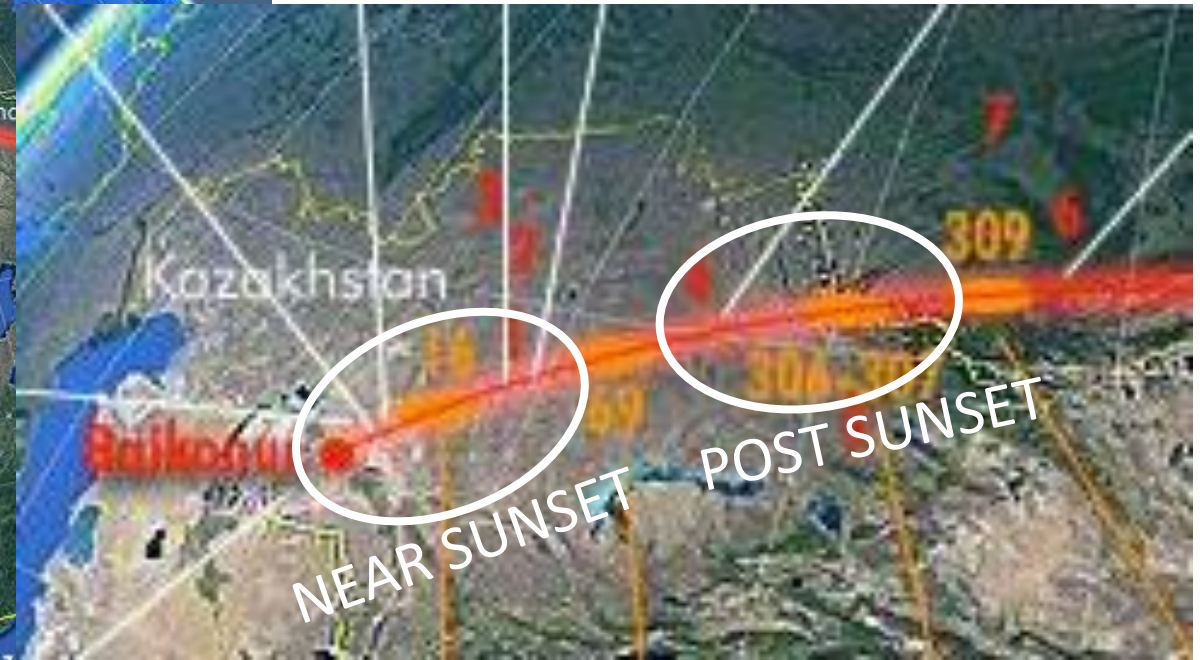
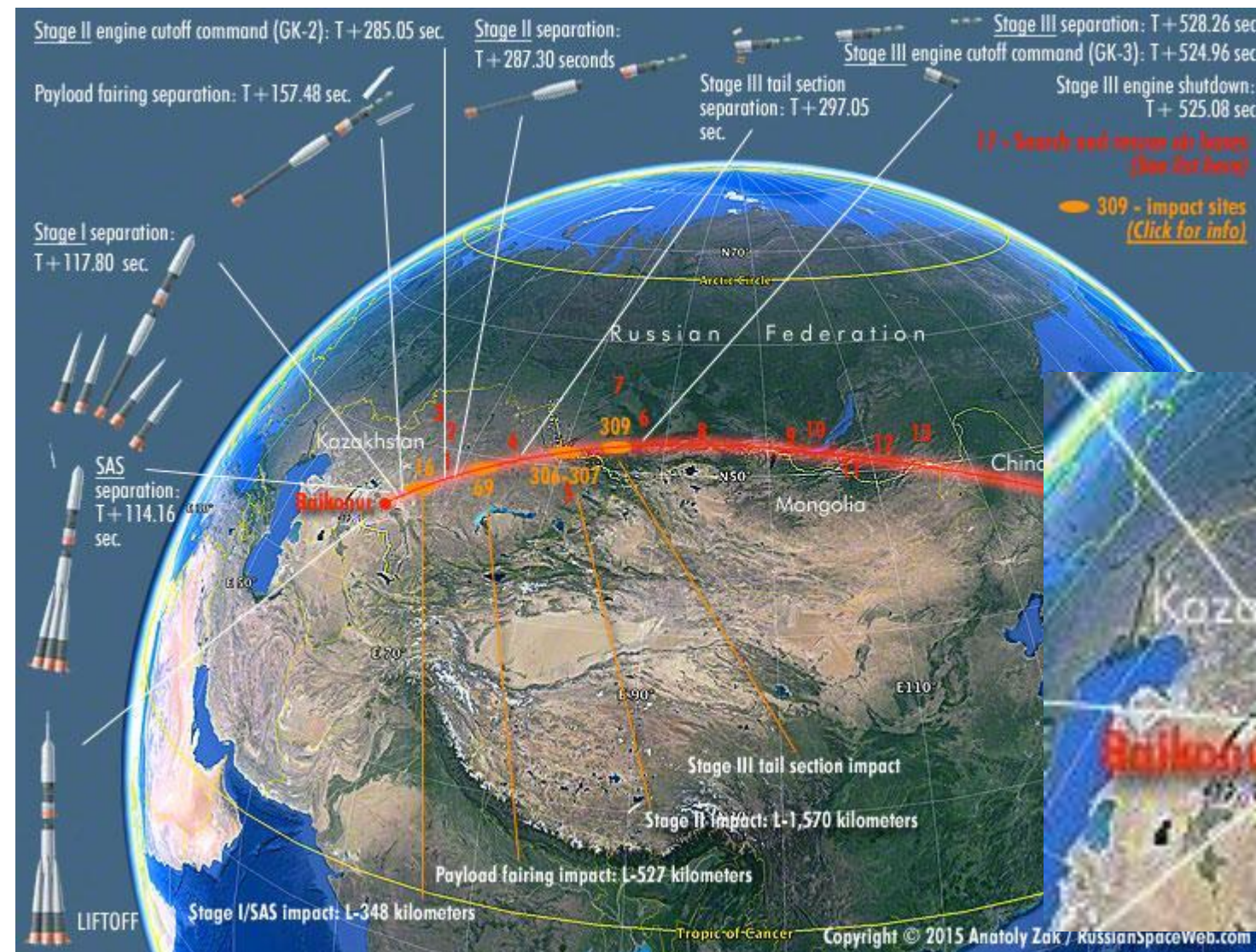
**All media please verify any  
material prior to quotation or  
other reference utilization**

[http://satobs.org/seesat\\_ref/misc/Soyuz\\_launch\\_4.pdf](http://satobs.org/seesat_ref/misc/Soyuz_launch_4.pdf)



# Standard Soyuz ascent from Baykonur Cosmodrome

AT LAUNCH TIME ON DECEMBER 4 THE EARLY PORTION OF THE PATH WAS OVER REGIONS AT SUNSET OR SOON AFTER, AND SKIES WERE TOO BRIGHT FOR PLUME VISIBILITY. ONLY THE LATER MINUTES WERE OVER REGIONS OF DARK-ENOUGH SKIES.

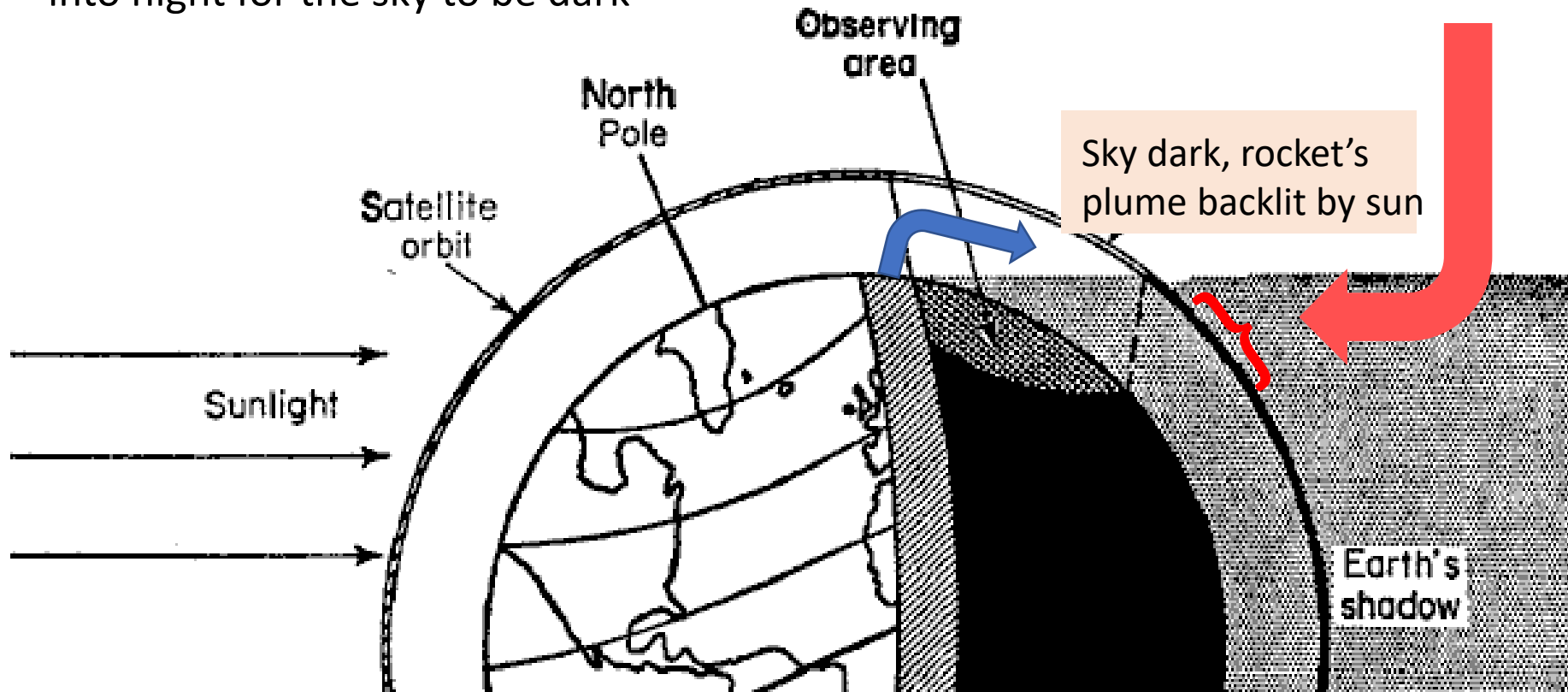


[https://scontent-dfw1-1.xx.fbcdn.net/hphotos-xtp1/v/t1.0-9/12341334\\_10206547917229680\\_1985048528225802288\\_n.jpg?oh=17645639f4ef6b24c9ac238699795e3a&oe=57174AAE](https://scontent-dfw1-1.xx.fbcdn.net/hphotos-xtp1/v/t1.0-9/12341334_10206547917229680_1985048528225802288_n.jpg?oh=17645639f4ef6b24c9ac238699795e3a&oe=57174AAE)

# Evening twilight visibility of ascent plume

As with observing artificial satellites, the target must be high enough to be sunlit while the observer is far enough into night for the sky to be dark

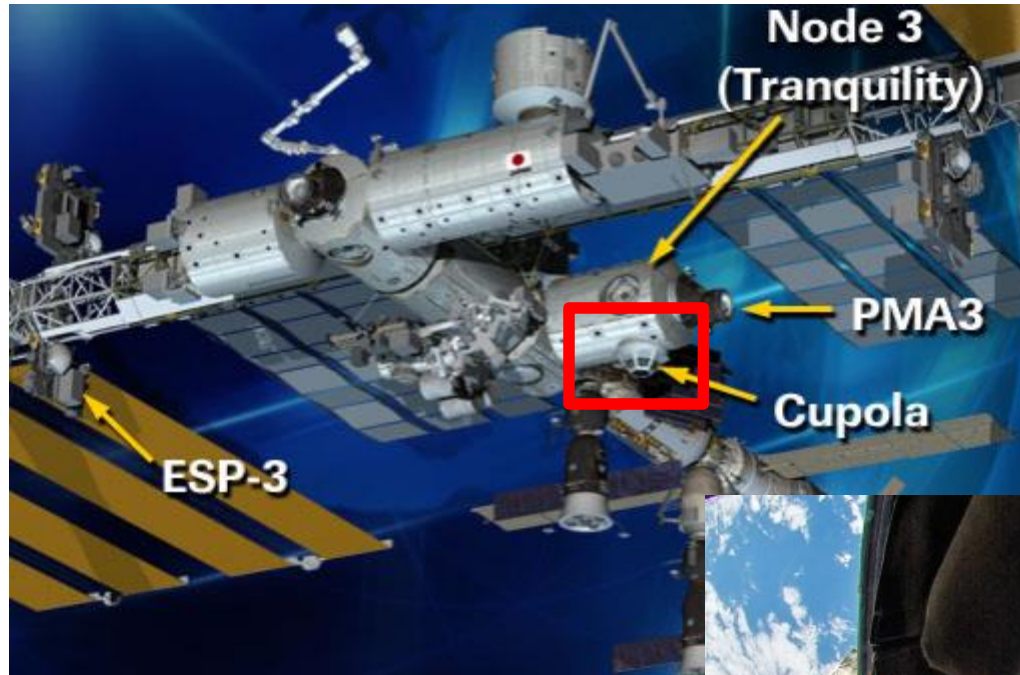
**Position of International Space Station during observation of ascent, with plume backlit by sun below the western horizon [no glare]**





# International Space Station

## "Cupola" observation module



**CREWMAN ALEXANDER  
GERST HAD ALREADY  
OBSERVED ROCKET  
LAUNCHES ON HIS  
PREVIOUS FLIGHT**



Earth is 'down',  
below ISS

Astronaut Alexander  
Gerst on watch

<https://www.faz.net/aktuell/wissen/weltraum/der-astronaut-alexander-gerst-auf-der-iss-15622704/dpa-15622685.html>



SOYUZ MS11 OBSERVATIONS



# INTERNATIONAL SPACE STATION WAS PERFECTLY POSITIONED TO OBSERVE THE ENTIRE ASCENT



[June 15, 2014] ESA astronaut Alexander Gerst accidentally spots twilight launch of Plesetsk 'Soyuz' with GLONASS navsat  
[http://www.jamesoberg.com/ISS\\_crew\\_spots\\_second\\_russian\\_rocket\\_rev\\_c.pdf](http://www.jamesoberg.com/ISS_crew_spots_second_russian_rocket_rev_c.pdf)



**PRE-FLIGHT BRIEFING ON ROCKET SPOTTING**



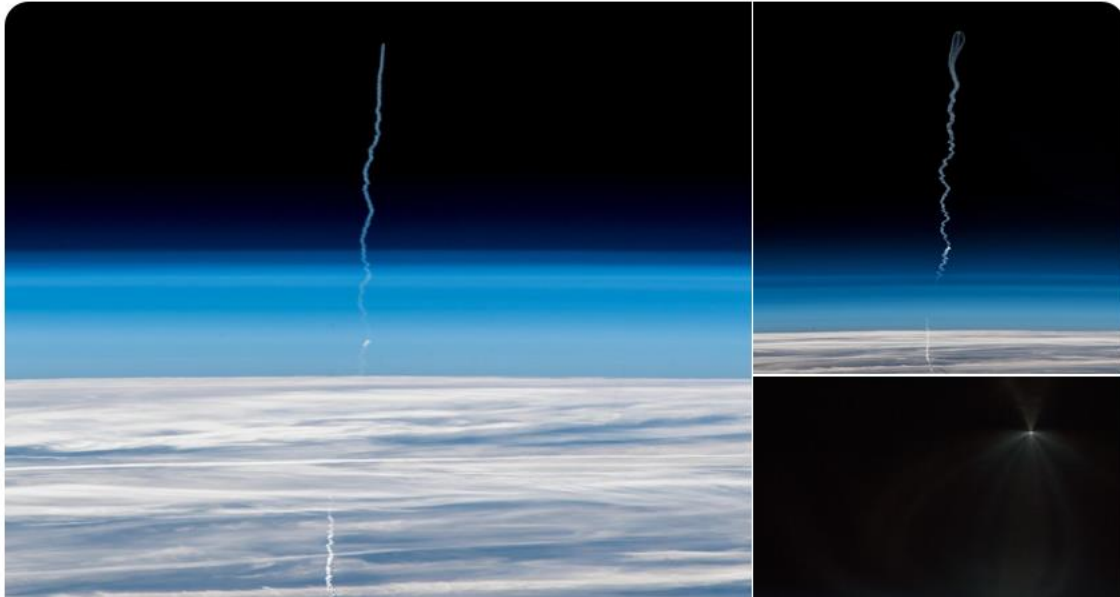
Alexander Gerst

@Astro\_Alex

Follow



Congratulations to the Russian Space Agency @roscosmos and all international partners for a flawless launch of #SoyuzMS11. And welcome to space, @Astro\_DavidS, @AstroAnimal and Oleg! #Exp57 #Exp58 #Horizons



December 5 tweet from ESA'S Gerst on his observation of Soyuz ascent

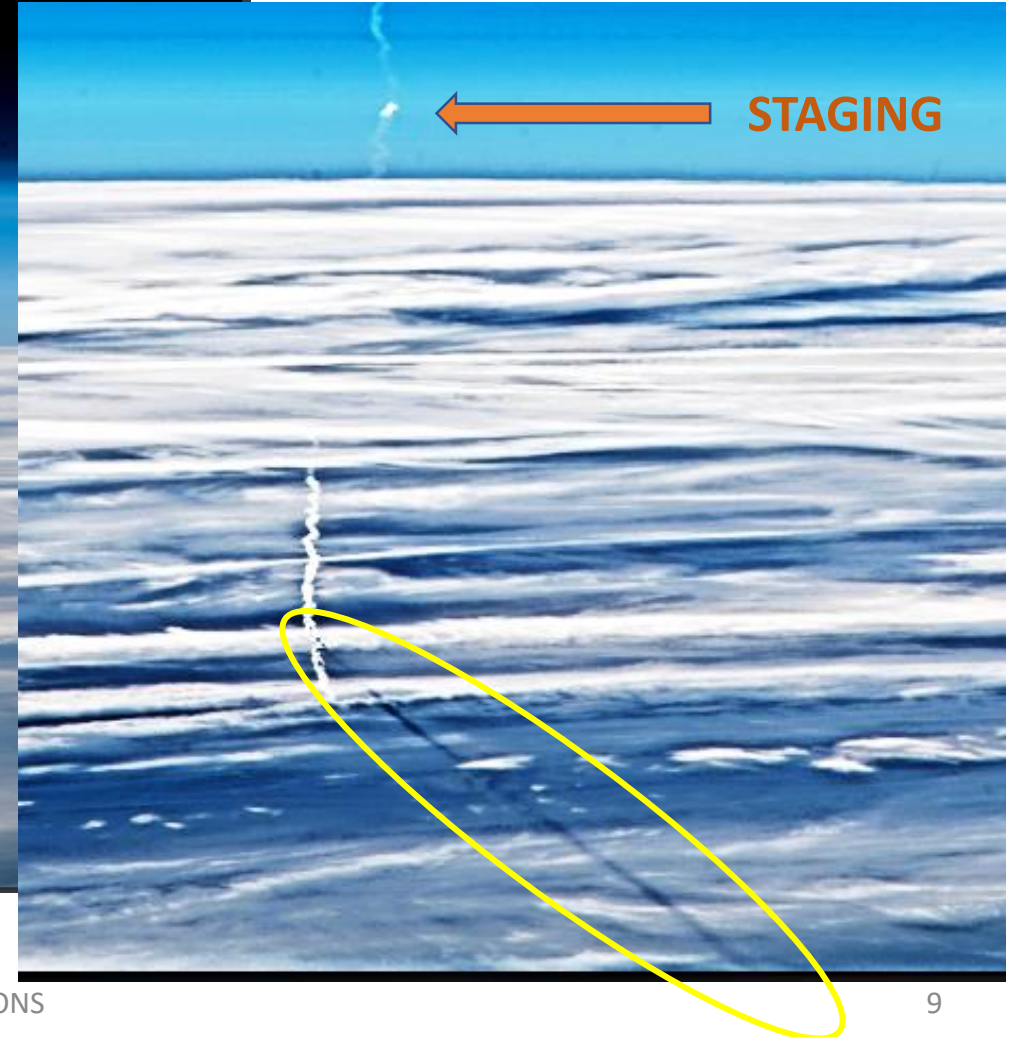
[NASA JSC PAO said they had no photos, only ESA – since ISS was in 3-crew state that's plausible]

[https://twitter.com/Astro\\_Alex/status/1069584125391224832/photo/1?ref\\_src=twsrc%5Etfw%7Ctwcamp%5Etweetembed%7Ctwterm%5E1069584125391224832&ref\\_url=https%3A%2F%2Fwww.space.com%2F42611-soyuz-crew-rocket-launch-astronaut-photos.html](https://twitter.com/Astro_Alex/status/1069584125391224832/photo/1?ref_src=twsrc%5Etfw%7Ctwcamp%5Etweetembed%7Ctwterm%5E1069584125391224832&ref_url=https%3A%2F%2Fwww.space.com%2F42611-soyuz-crew-rocket-launch-astronaut-photos.html)



# FIRST IMAGE – STILL IN ATMOSPHERE

**NOTE PLUME SHADOW  
ON CLOUD DECK [BELOW,  
CONTRAST ENHANCED]**



Sun azimuth 232°, elev 004°, 31 min to sunset

12/3/2018

SOYUZ MS11 OBSERVATIONS

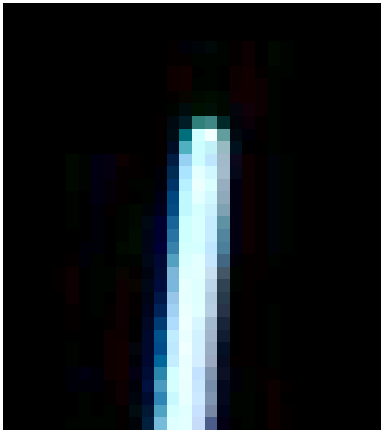
# SECOND MS-11 IMAGE AS PLUME BEGIN TO SPREAD ABOVE KARMAN LINE [80-100 KM]

IMAGE FROM  
ESA VIDEO

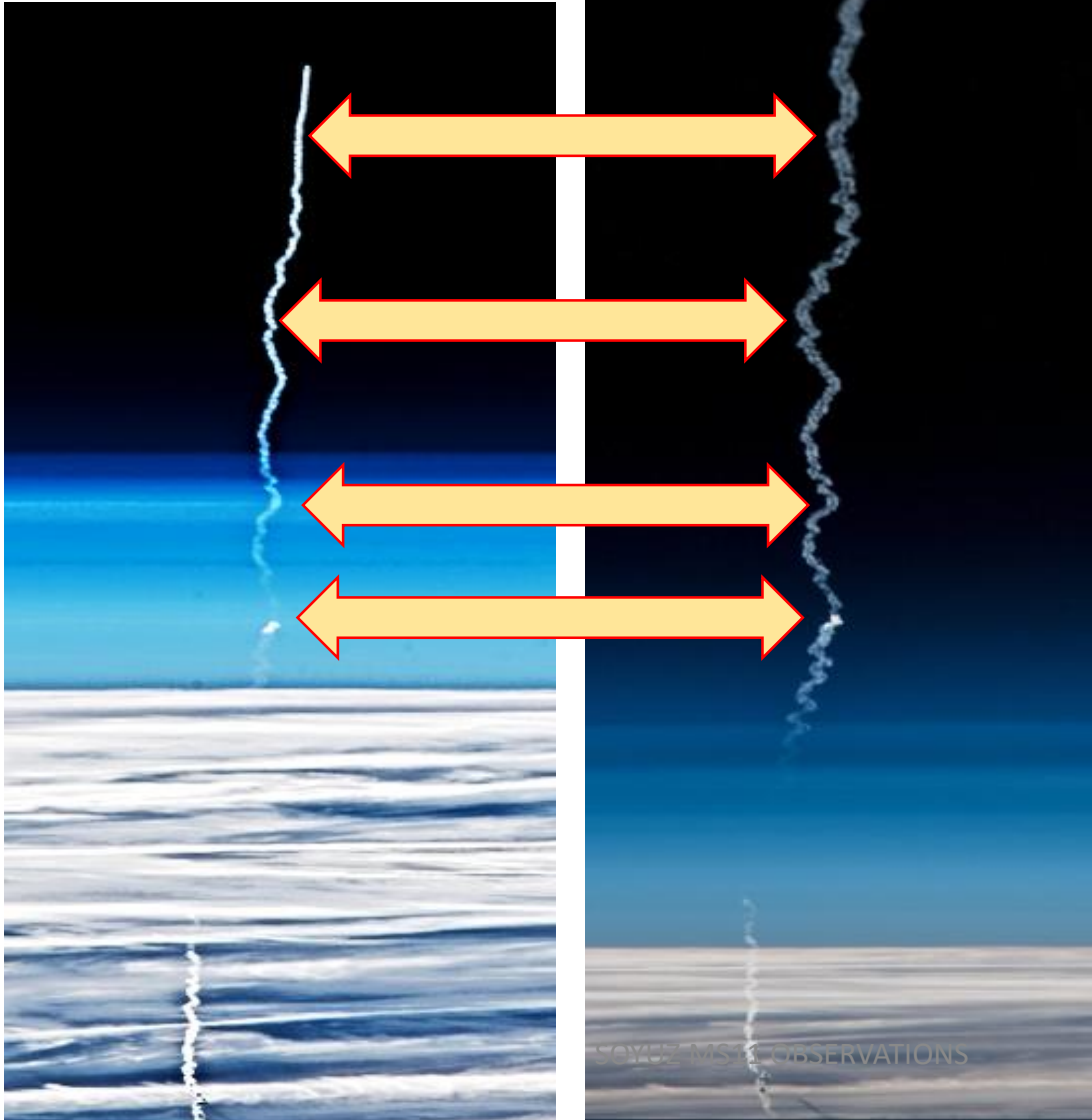




PLUME-CENTERED VIEW SHOWS THE HORIZON DROPPING AS RANGE TO ISS GROWS, CHANGING THE PERSPECTIVE



NO DETAIL VISIBLE IN ENLARGEMENT OF ROCKET IMAGE

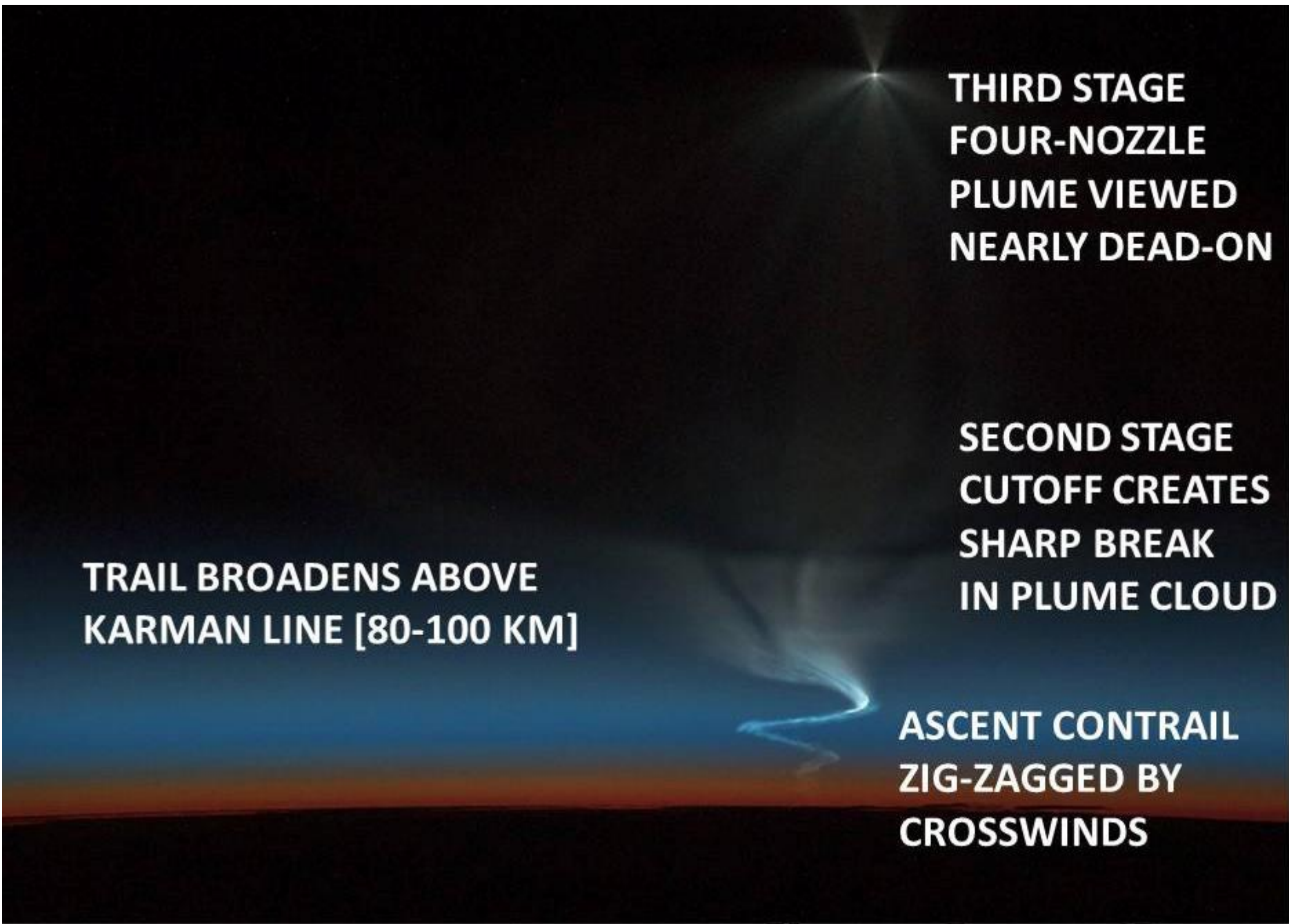


NOTE CORRESPONDING KINKS IN ASCENT TRAIL DIMINISH IN SIZE AS THE TIME-SINCE-FORMATION GROWS [LESS TIME FOR CROSSWINDS EFFECT TO VISIBLY ACCUMULATE]

ABOUT FIVE MINUTES INTO FLIGHT, THE ISS HAS ADVANCED SO FAR ALONG ITS ORBIT THAT THE WESTERN SKY HAS DARKENED CONSIDERABLY BUT THE SOYUZ, CLOSER TO THE TERMINATOR LINE, IS STILL HIGH ENOUGH TO BE SUNLIT EVEN THOUGH THE ISS IS NOT [TOO FAR EAST].







**THIRD STAGE  
FOUR-NOZZLE  
PLUME VIEWED  
NEARLY DEAD-ON**

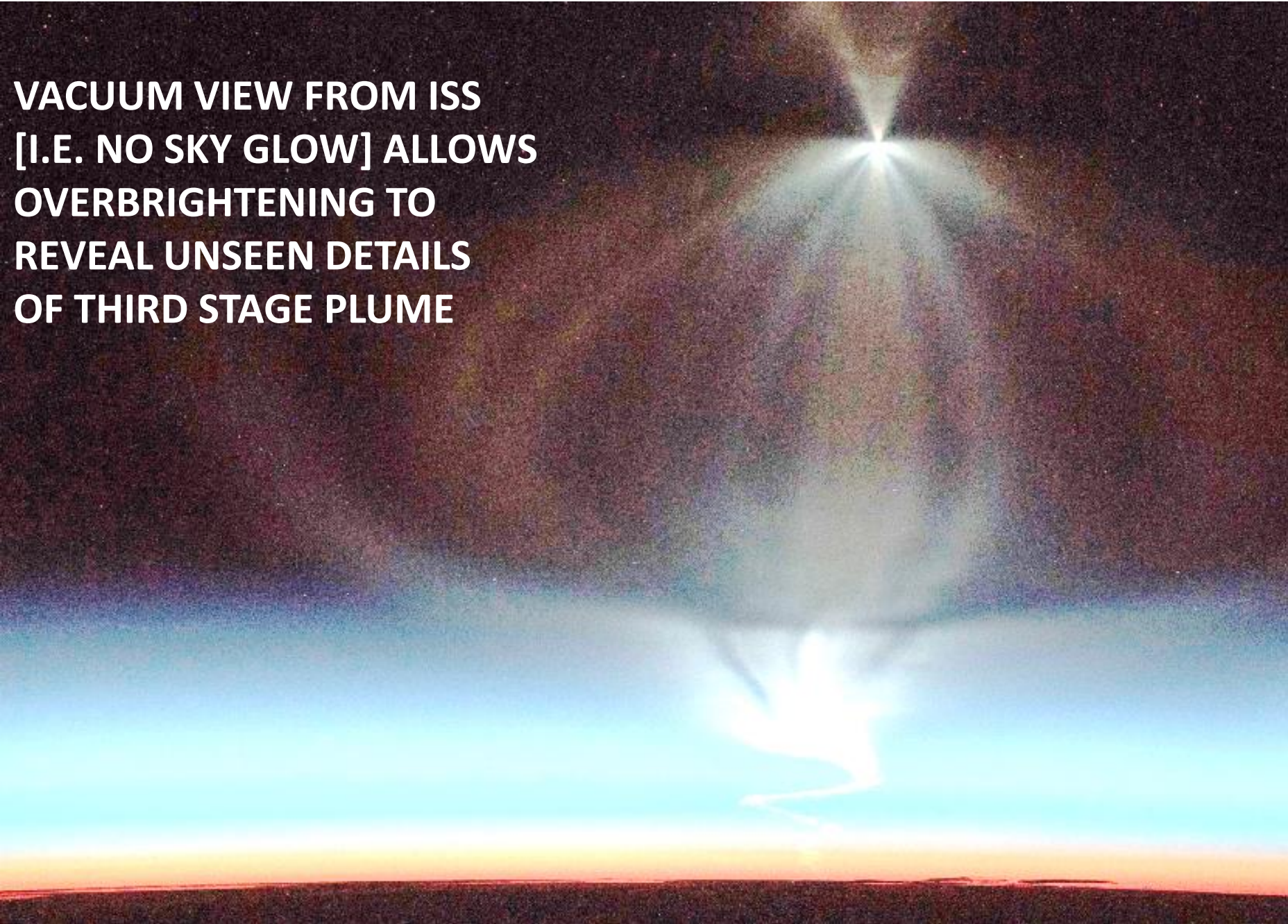
**SECOND STAGE  
CUTOFF CREATES  
SHARP BREAK  
IN PLUME CLOUD**

**TRAIL BROADENS ABOVE  
KARMAN LINE [80-100 KM]**

**ASCENT CONTRAIL  
ZIG-ZAGGED BY  
CROSSWINDS**

Interpretation  
of visible features  
of ISS-based image

**VACUUM VIEW FROM ISS  
[I.E. NO SKY GLOW] ALLOWS  
OVERBRIGHTENING TO  
REVEAL UNSEEN DETAILS  
OF THIRD STAGE PLUME**



EYEBALL-UNNOTICEABLE  
FEATURES CAN OFTEN BE  
BROUGHT OUT BY OVER-  
BRIGHTENING IMAGES,  
AND HERE WE CAN SEE  
THE PLUME BOUNDARY  
OF THE SECOND STAGE  
SHUTDOWN AND THE  
SEPARATE PLUMES OF  
THE FOUR ENGINES IN  
THE THIRD STAGE.



# SOURCE OF ASCENT IMAGERY

## “Soyuz spacecraft launch timelapse seen from space”

[https://youtu.be/aL\\_YjsR5XiM](https://youtu.be/aL_YjsR5XiM)

- HI RES version [123 meg] can be downloaded from here:
- [http://www.esa.int/spaceinvideos/Videos/2018/12/Soyuz\\_spacecraft\\_launch\\_timelapse\\_seen\\_from\\_space](http://www.esa.int/spaceinvideos/Videos/2018/12/Soyuz_spacecraft_launch_timelapse_seen_from_space)
- **Released:** 05/12/2018
- **Length** 00:00:59
- **Copyright** ESA/NASA
- **Description** This is what three astronauts being launched into space looks like – seen from space. ESA astronaut Alexander Gerst took this timelapse sequence from the International Space Station’s Cupola observatory on 3 December 2018.
- Inside the Soyuz MS-11 spacecraft were NASA astronaut Anne McClain, Canadian Space Agency astronaut David Saint-Jacques and Roscosmos astronaut and Soyuz commander Oleg Kononenko. The trio blasted into orbit at 11:31 GMT from the Baikonur cosmodrome in Kazakhstan and docked with the International Space Station just six hours later.
- ALSO AT <https://www.facebook.com/ESAAlexGerst/videos/366785697415249/>



THE PRECEDING M11  
IMAGES WERE FROM  
A FILM SEQUENCE  
MADE BY ALEXANDER  
GERST IN THE ISS  
CUPOLA. REVIEWING  
THAT WHOLE HI-DEF  
SEQUENCE PROVIDED  
ADDITIONAL UNSEEN  
DRAMATIC SCENES

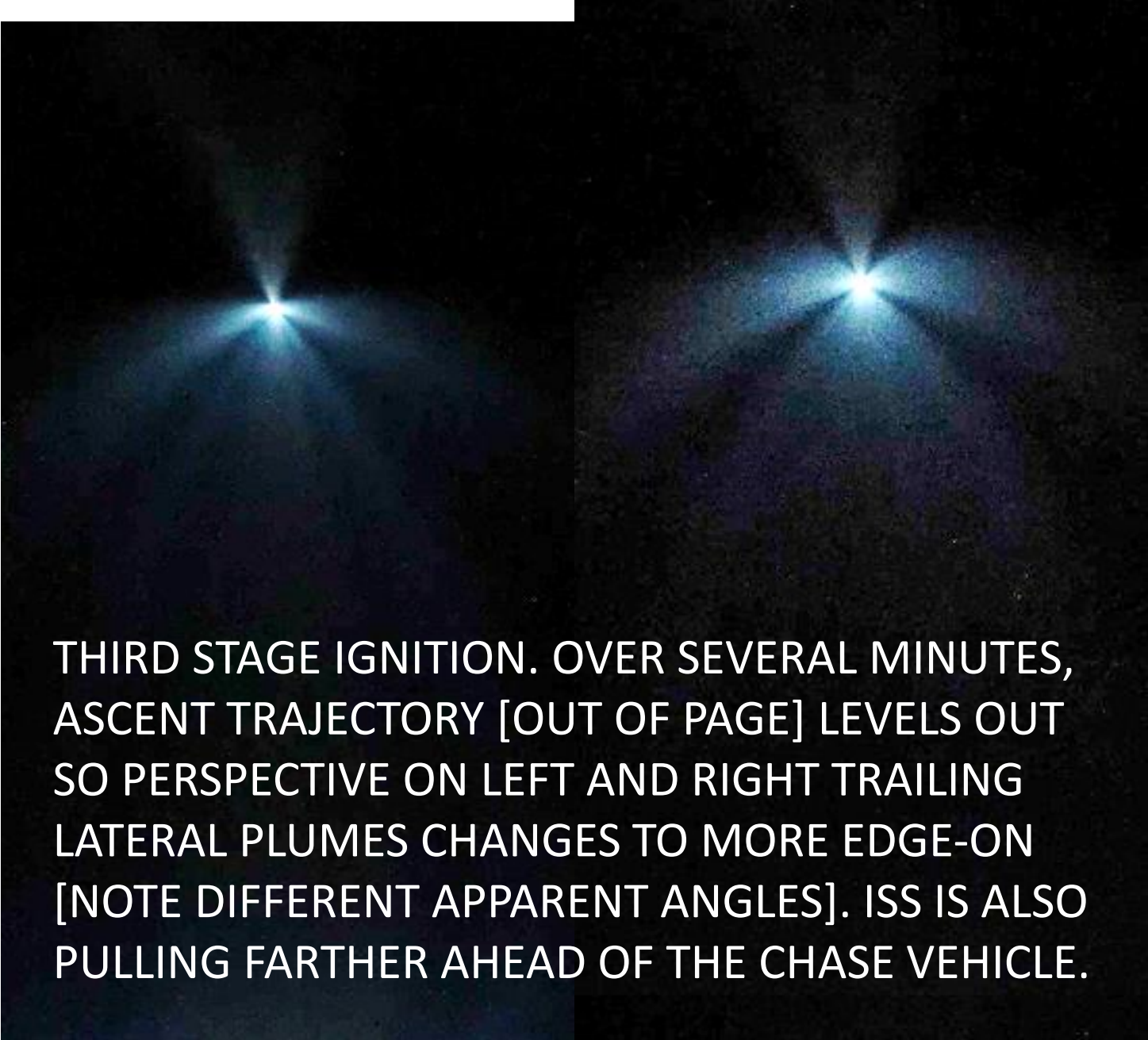






SECOND STAGE  
SHUTDOWN

12/3/2018



THIRD STAGE IGNITION. OVER SEVERAL MINUTES,  
ASCENT TRAJECTORY [OUT OF PAGE] LEVELS OUT  
SO PERSPECTIVE ON LEFT AND RIGHT TRAILING  
LATERAL PLUMES CHANGES TO MORE EDGE-ON  
[NOTE DIFFERENT APPARENT ANGLES]. ISS IS ALSO  
PULLING FARTHER AHEAD OF THE CHASE VEHICLE.

SOYUZ MS11 OBSERVATIONS

17

GERST [2018] VS  
KELLY [2015] VIEW  
OF TRAILING SOYUZ  
ENGINE PLUMES



12/3/2018

Scott Kelly @StationCDRKelly  
#Soyuz blasts through the atmosphere on its  
way to @Space\_Station! #SoyuzTMA19M  
[Image# ISS046e01388 just after stage-3 ignition]



SOYUZ MS11 OBSERVATIONS

18



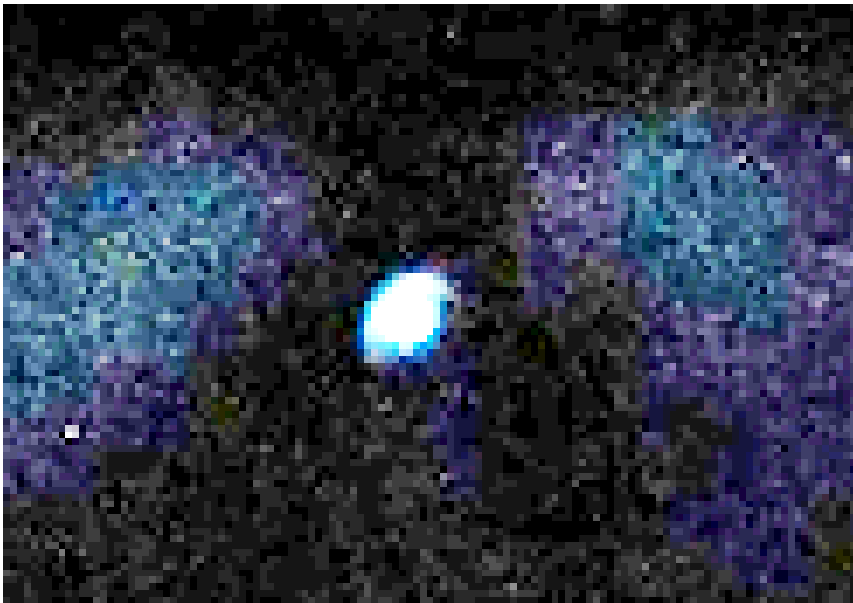
THIRD STAGE SHUTDOWN AND RAPID SEPARATION OF ENGINE PLUMES.  
WHITE BLOB THAT SOON APPEARS IN CENTER IS PROPELLANT DUMP  
CLOUD FROM THIRD STAGE TO GENTLY SEPARATE THE TWO VEHICLES.

SEPARATION PLUME FORMS A FAT  
SPIRAL AS UPPER STAGE BEGINS TO  
TUMBLE – A NORMAL APPEARANCE

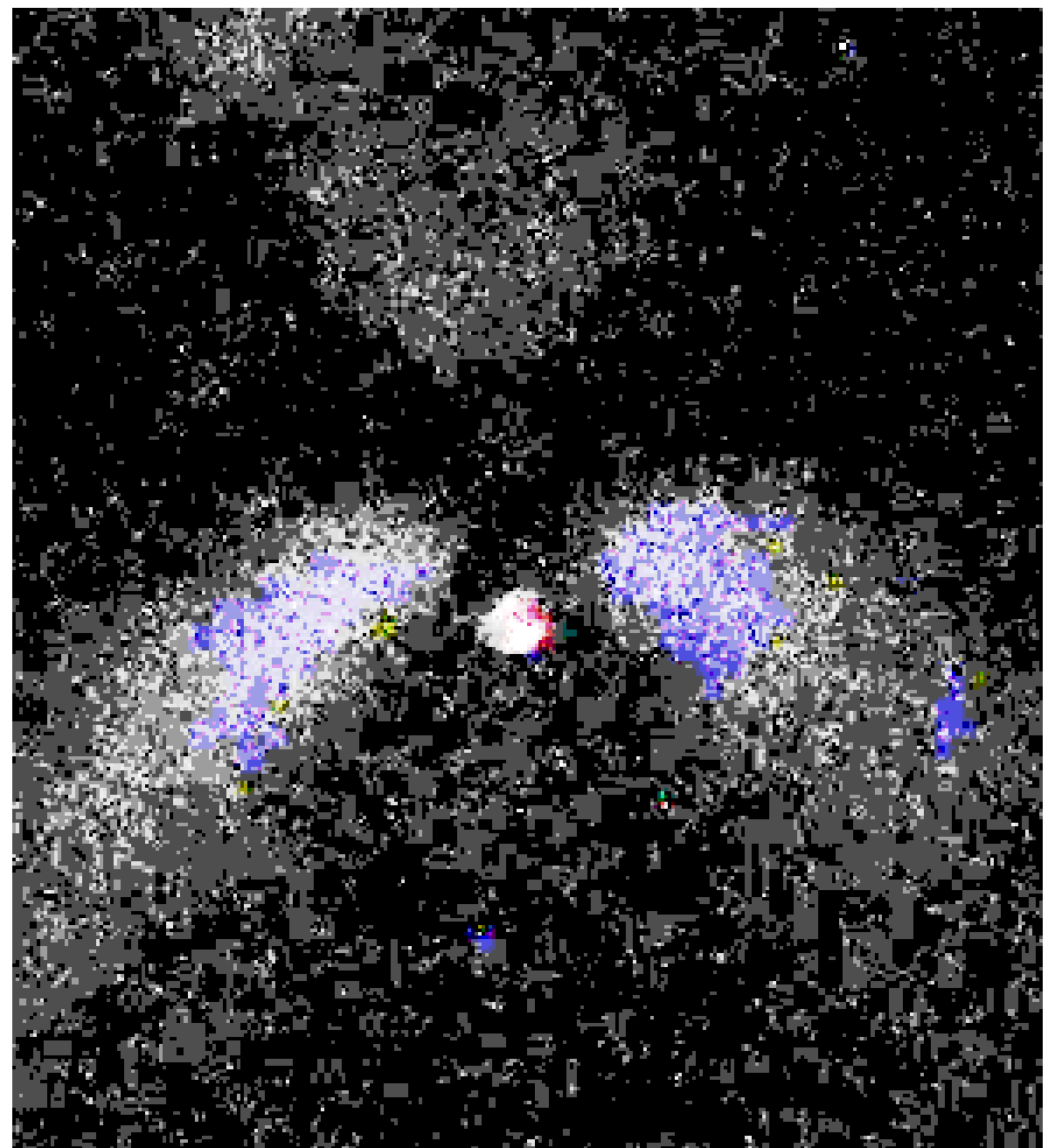
EXTREME  
BLOWUP



**BRIGHTENED AND MAGNIFIED:**  
FINAL VIEW OF DUMP CLOUD AS  
ENGINE PLUMES DEPART AND  
DISPERSE. NOTE CLOUD [AND  
NEARBY BUT INVISIBLE SOYUZ]  
DROP BELOW CENTER OF PLUMES  
DUE TO PERSPECTIVE [IT IS IN A  
LOWER ORBIT & CLOSER TO ISS]



12/3/2018



SOYUZ MS11 OBSERVATIONS

20

# THE SAME 'FAT SPIRAL' CLOUD HAS BEEN SEEN FOR YEARS



## STANDARD FEATURE OF SOYUZ LAUNCHES SEEN AT TWILIGHT



Soyuz-TMA-M (Baykonur, 2015) [left, right] ISS view, Novokuznetsk  
Soyuz-GLONASS (Plesetsk, 2013) [left, right] ISS view, Omsk view  
Soyuz 2015 Kazakhstan [below]



12/3/2018



SOYUZ MS11 OBSERVATIONS



21

# RUSSIAN COMPUTER MODELING OF SEP PLUME

[<https://www.youtube.com/watch?v=f4hVNNYyFws>]

**Anton Sergeyev [Антон Сергеев]**

Uploaded on Dec 22, 2011



[https://www.youtube.com/watch?v=ya\\_xTsseCxc&feature=youtu.be](https://www.youtube.com/watch?v=ya_xTsseCxc&feature=youtu.be)

02:28



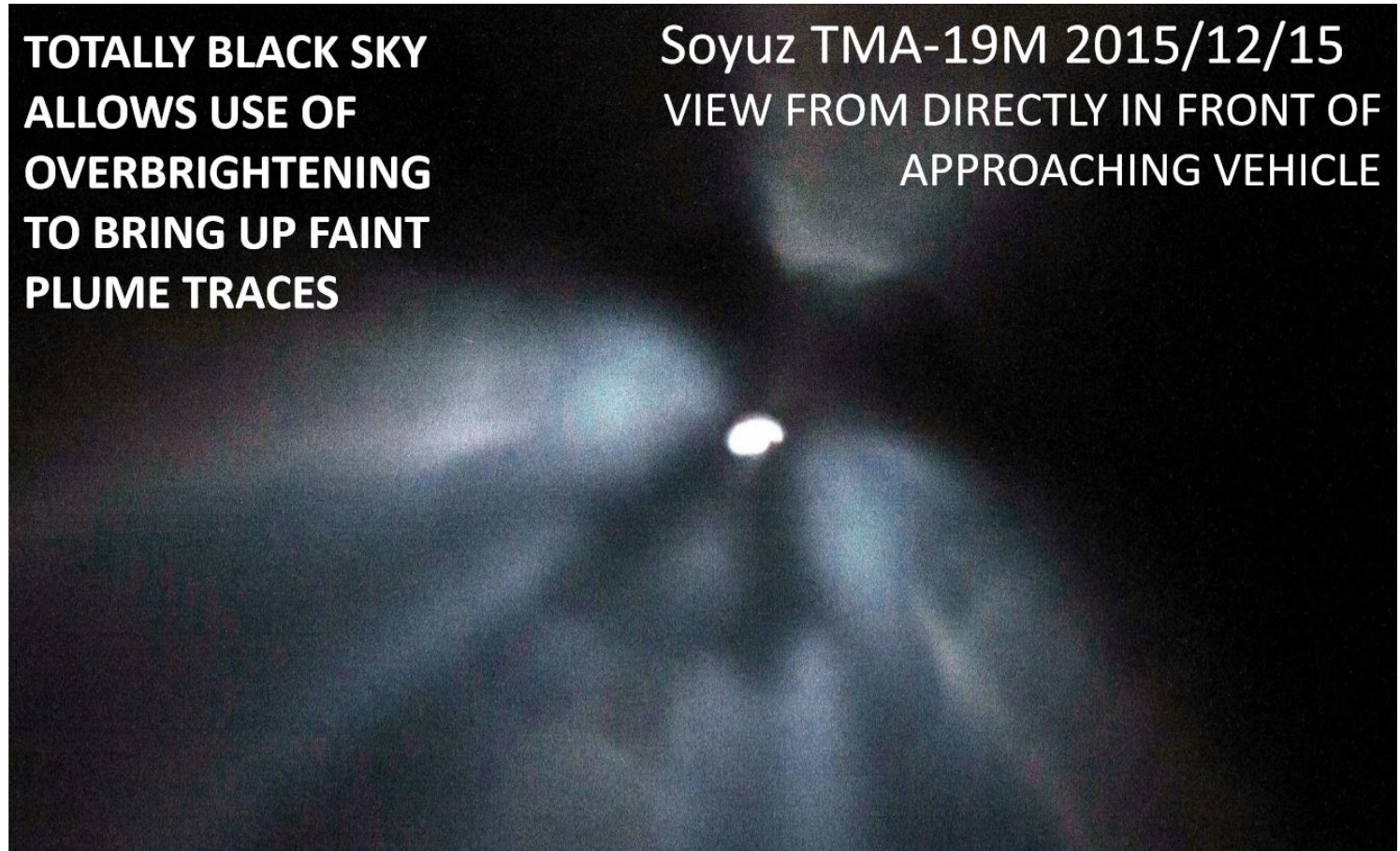
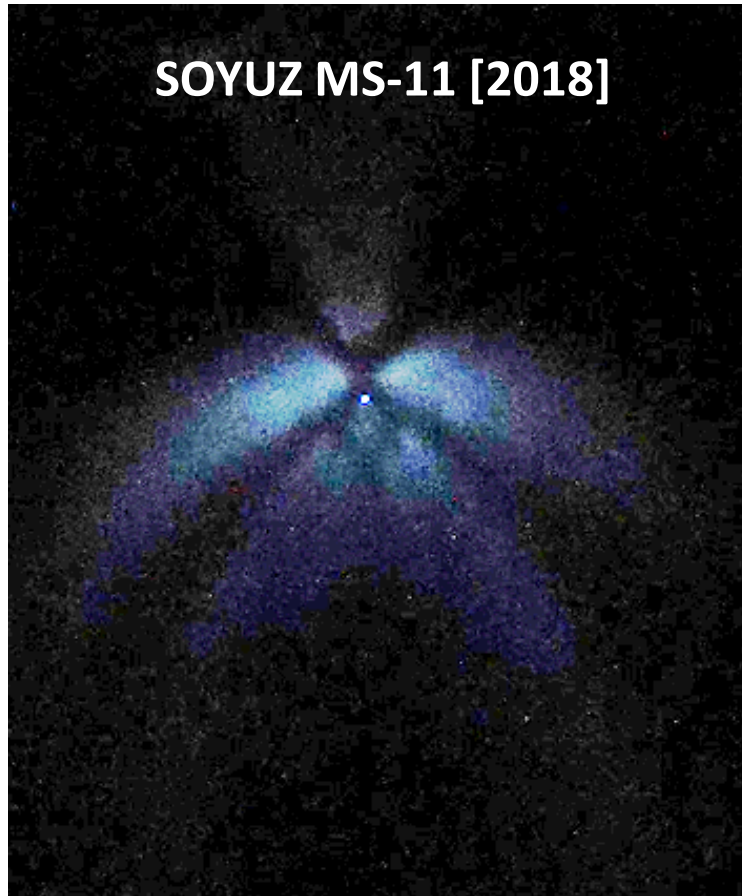
# COMPARE ISS VIEW OF MS-11 [2018] TO TMA-19M [2015]



**MS-11**



# THIRD STAGE SHUTDOWN PLUME PATTERNS - IDENTICAL



**HIGHER DETAIL IN 2015 VIEWS PROBABLY DUE TO KELLY'S USE OF STILL CAMERA WITH BIG LENS**



# OFF-ANGLE STAGE 3 SHUTDOWN PERSPECTIVE

**BY CHANCE,  
ASTRONAUT  
ALEXANDER  
GERST [ESA]  
ON THE ISS  
RECORDED  
A SIMILAR  
SOYUZ LAUNCH  
AND COMMA  
CLOUD IN 2014**

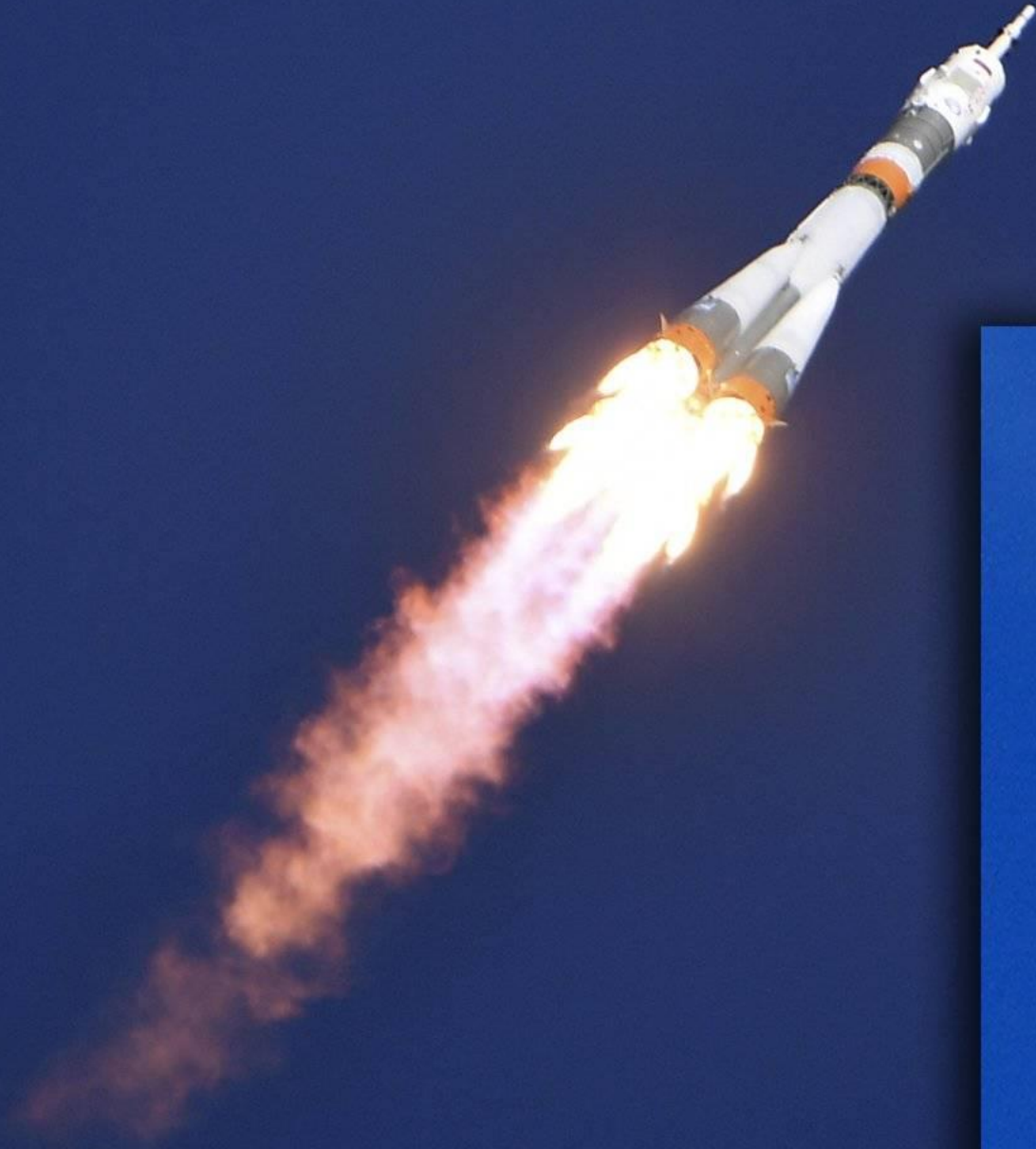
**SIGNIFICANTLY  
OUT-OF-PLANE**



Identical  
“comma”  
flare imaged  
from ISS on  
earlier [Gerst]  
accidental  
observation of  
Soyuz booster  
navsat launch  
from Plesetsk  
[2014 june 15]



# COMPARE ASCENT VIEWS FROM LAUNCH FAILURE



<https://www.space.com/42110-soyuz-rocket-launch-failure-seen-from-space.html>

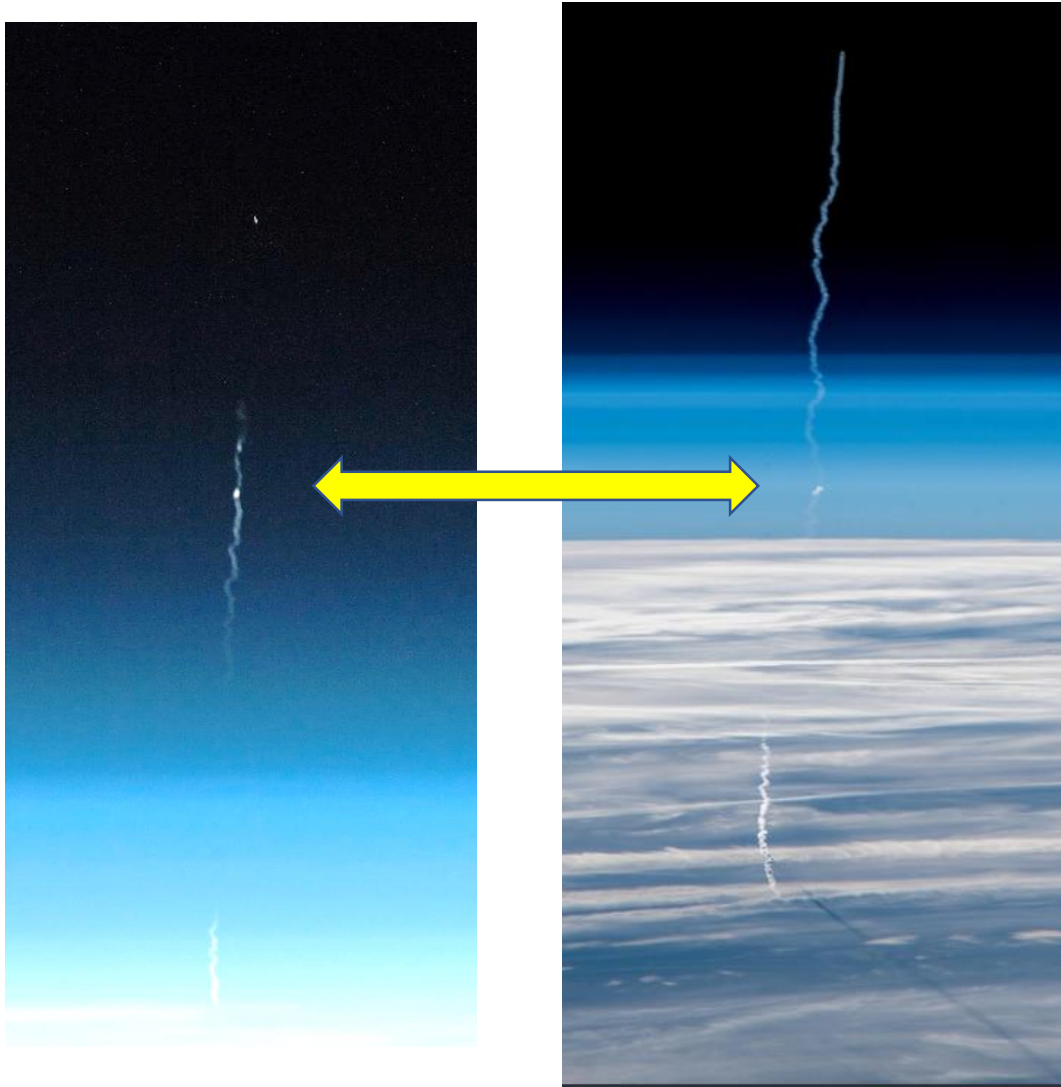


12/3/2018

SOYUZ MS11 OBSERVATIONS

27

# DIFFERENCES – SOYUZ-MS10 VERSUS SOYUZ-MS11



SOYUZ LAUNCH ABORT TWO MONTHS EARLIER OCCURRED AT FIRST STAGE SEPARATION [LEFT] WHILE MS11 FLEW RIGHT PAST THAT ROADMARK AND CONTNUED TO CLIMB [RIGHT]. HORIZON POSITIONING DEPENDS ON SOYUZ RANGE-TO-ISS WHICH WAS A LITTLE DIFFERENT FOR THE TWO LAUNCHES. VISIBILITY ONLY OCCURS FOR QUICK RENDEZVOUS PROFILES WITH SMALL PHASE ANGLE, THE STANDARD 2-DAY PROFILE USUALLY LAUNCHES WITH THE SOYUZ SO FAR BEHIND ISS IT IS OVER THE HORIZON AND SO NOT VIEWABLE.



# RARE ON-BOARD CAMERA CAPTURES MS-10 COLLISION



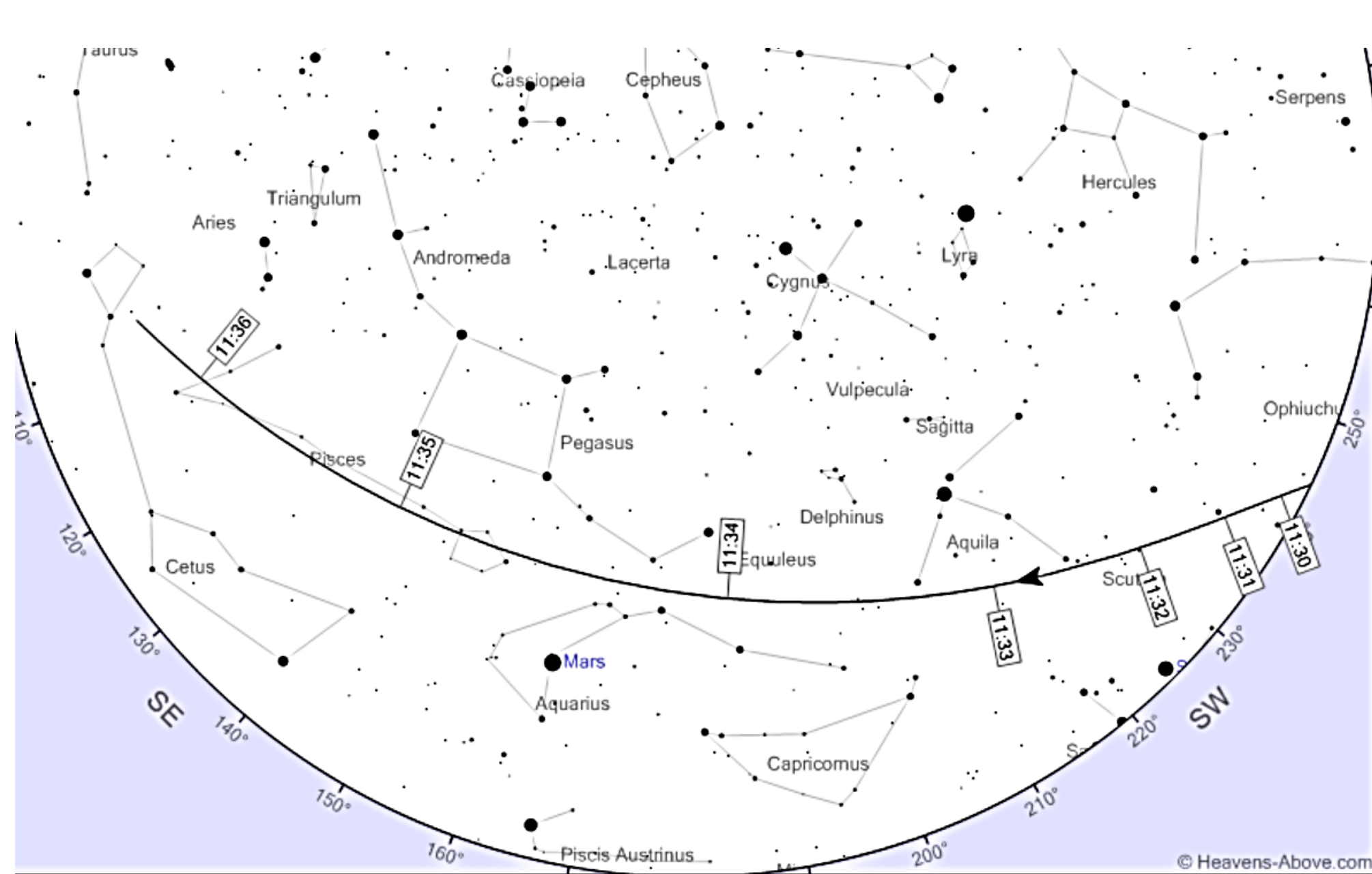
**SHOULD BE  
OVER HERE**

12/3/2018

SOYUZ MS11 OBSERVATIONS

# Ground observations

- OBSERVING REGION LIMITED
- CLOUD COVER NOT DETERMINABLE
- ISS WOULD HAVE PASSED OVER 4-5 MINUTES AHEAD OF PLUME,
- VISIBLE BUT APPARENTLY UNNOTICED

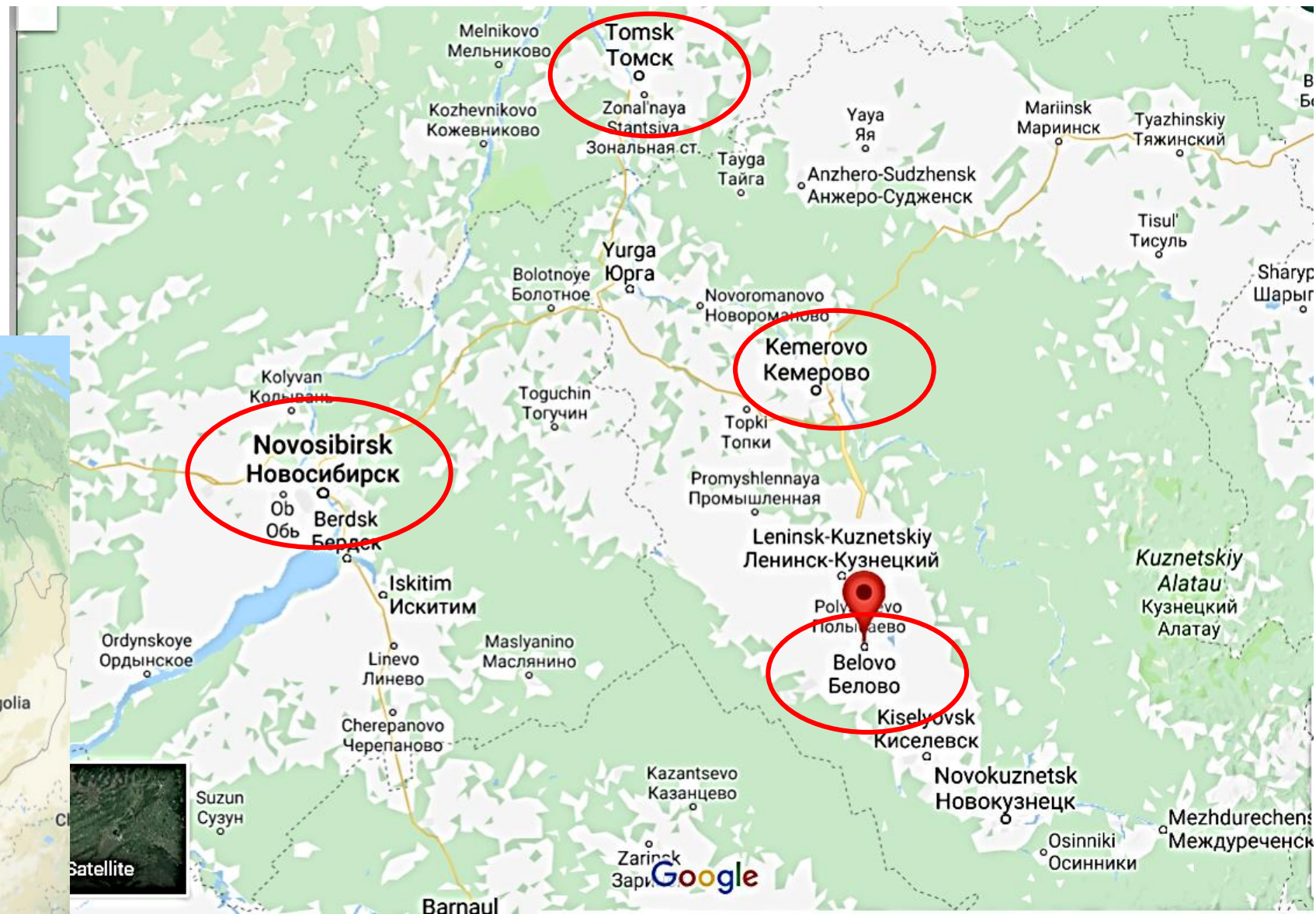
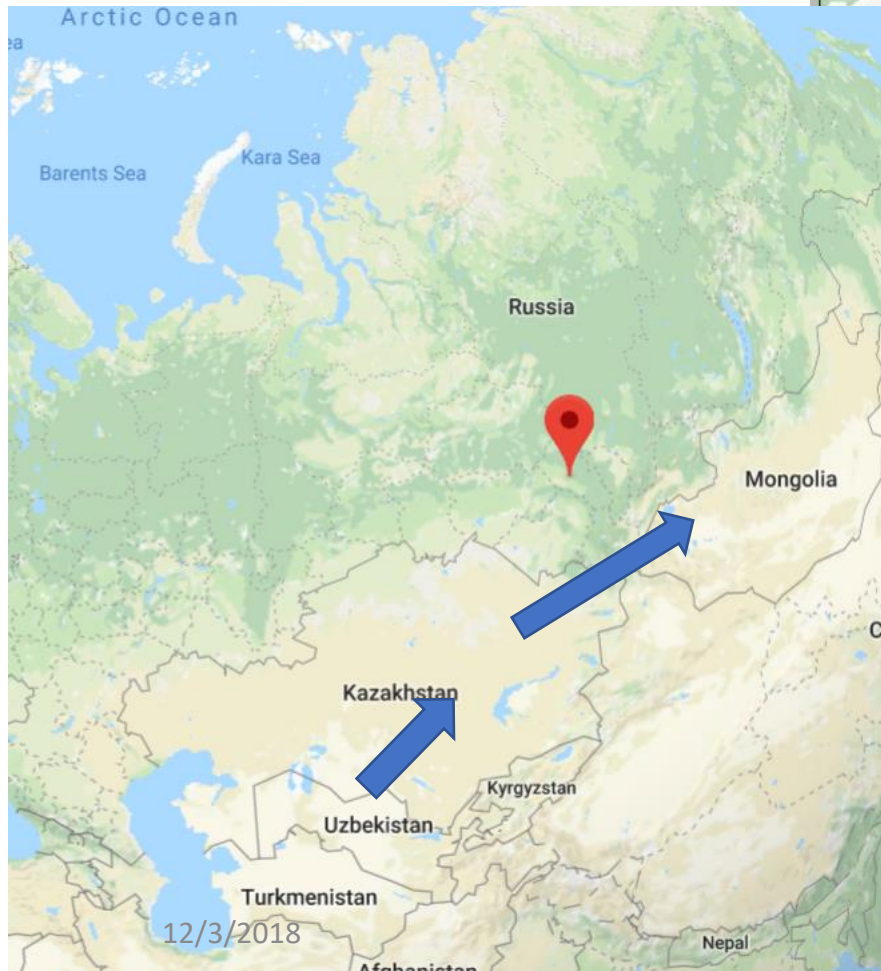


ISS visibility at Novosibirsk on Dec 3 [GMT] shows pass in southern sky and entering earth shadow in southeast. Soyuz was a few minutes behind at half its altitude.

That's exactly as determined by examining plume photos for detectable background star field [see next pages]



# REGION OF SIGHTINGS



Novosibirsk, Tomsk, Kemerovo, Belovo,  
Kuybyshev, Kargat & Kuzbass [west of Novosib]

ETC

SOYUZ M511 OBSERVATIONS

# Yevgeny Larin from Kemerovo captures moment of third stage shutdown and separation thrusting

ENGINE PLUME IS DROPPING  
BEHIND SOYUZ AT 3000 M/SEC  
WHILE EXHAUSTED BOOSTER  
VENTS SURPLUS PROPELLANT  
TO GENTLY PULL AWAY FROM  
UNSEEN CREW SPACECRAFT

**SIDE VIEW**


**FRONT VIEW**

[https://vk.com/video-70683182\\_456241744](https://vk.com/video-70683182_456241744) [12 seconds into video]

12/8/2018

SOYUZ MS10 OBSERVATIONS

Compare Yevgeny Larin photo to Dec 2015 Soyuz launch [same sun illumination as Dec 4 launch] shows 3<sup>rd</sup> stage shutdown and engine plume dropping behind, plus prop dump plume for Soyuz separation



**PHOTO ORIENTATION  
IS ARBITRARY SINCE  
THIS 2015 SOYUZ WENT  
ALMOST DIRECTLY OVER  
THE GROUND OBSERVER**



# Full story....

- Полёт корабля могли наблюдать и жители Кузбасса. Как рассказал Сибдепо кемеровчанин **Евгений Ларин**, он снял его на видео около 18:40.
- .... Некоторые кузбассовцы не знали о запуске ракеты и сообщили в комментариях, что приняли объект за НЛО.
- **The flight of the ship could be observed by the residents of Kuzbass. As Yevgeny Larin from Kemerovo told Sibdepo, he filmed it around 18:40.**
- **... Some Kuzbass people did not know about the launch of the rocket and reported in the comments that they took the object as a UFO.**
- Video [https://vk.com/video-70683182\\_456241744](https://vk.com/video-70683182_456241744)

Также ракету заметили жители Ленинска-Кузнецкого, а **Максим Брауде**, находясь в селе Черемичкино Топкинского района, успел сфотографировать её.

**Also, the rocket was noticed by the residents of Leninsk-Kuznetsky, and Maksim Braude, while in the village of Cheremichkino, Topkinsky district, managed to photograph it.**



<http://sibdepo.ru/wp-content/uploads/2018/12/MweWyR3X1wM.jpg>

SOYUZ MS11 OBSERVATIONS

**ENLARGEMENT**  
estimated time exposure  
about ten or twenty seconds



<http://sibdepo.ru/wp-content/uploads/2018/12/MweWyR3X1wM.jpg>

12/3/2018

SOYUZ MS11 OBSERVATIONS

37



# Maksim Braude photo 2



<http://sibdepo.ru/wp-content/uploads/2018/12/CQtmEWGjUmE.jpg>

# Maksim Braude photo 3 [pans to left]



[left] lower right corner of photo 3;  
[right] far left edge of photo 2



<http://sibdepo.ru/wp-content/uploads/2018/12/tuffkQpsUA0.jpg>

12/3/2018

SOYUZ M561 OBSERVATIONS



12/3/2018

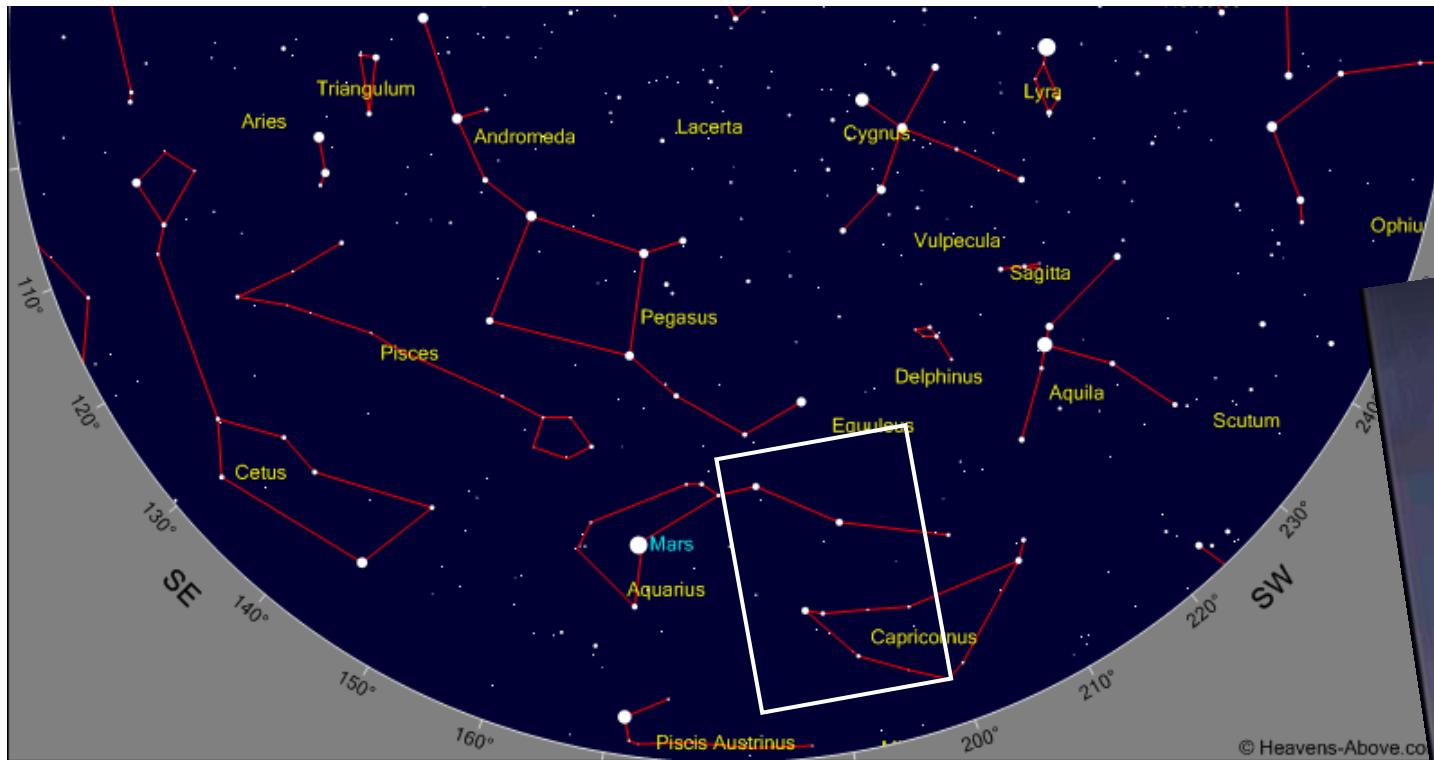


SOYUZ MS11 OBSERVATIONS

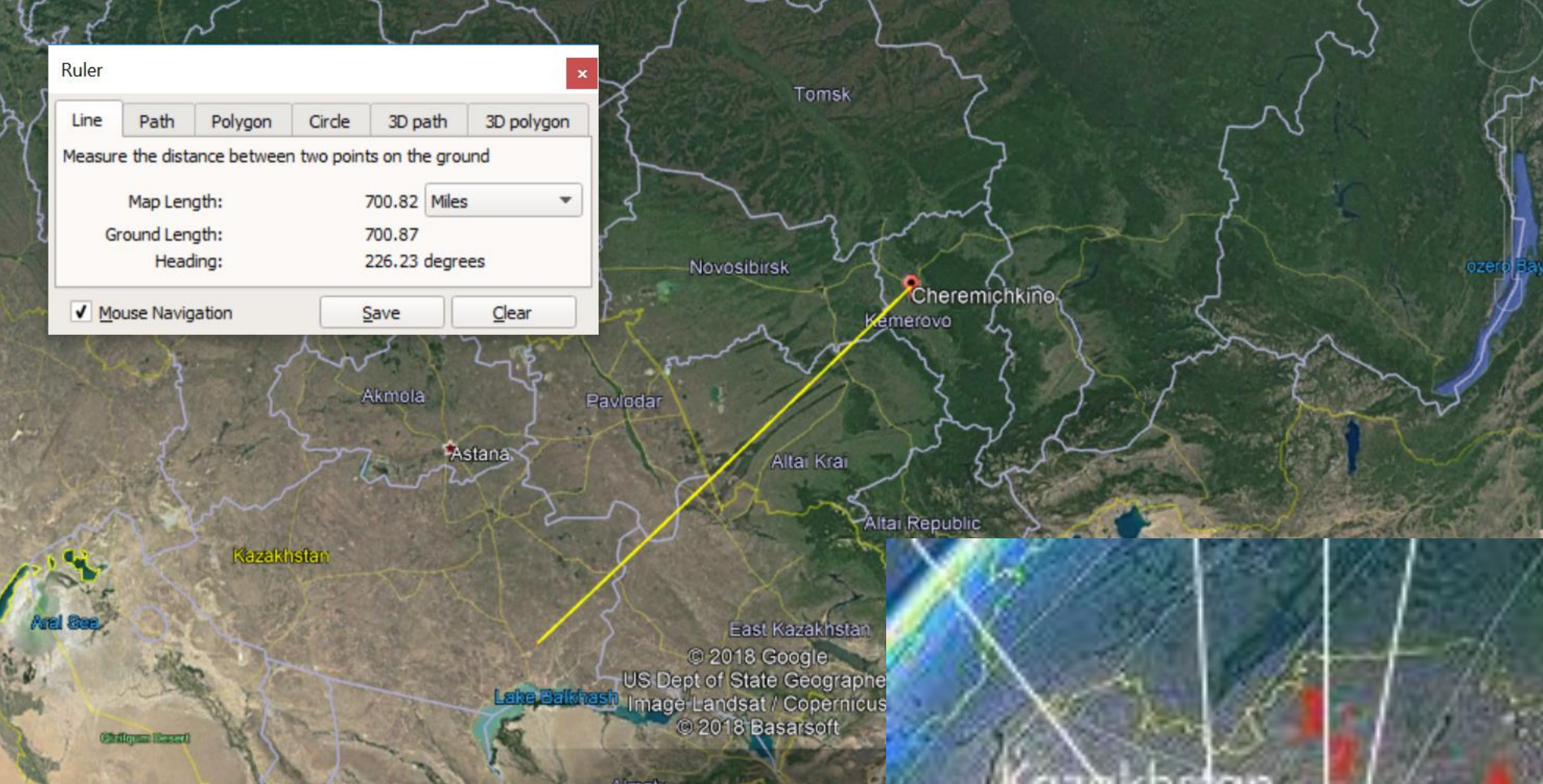


40





- **Cheremichkino, GMT + 6**
- ([55.1535°N, 85.8552°E](#))
- Az 220-30, el 30-35
- MATCHES PREDICTED ISS PATH



# BRAUDE-3 DERIVED AZIMUTH

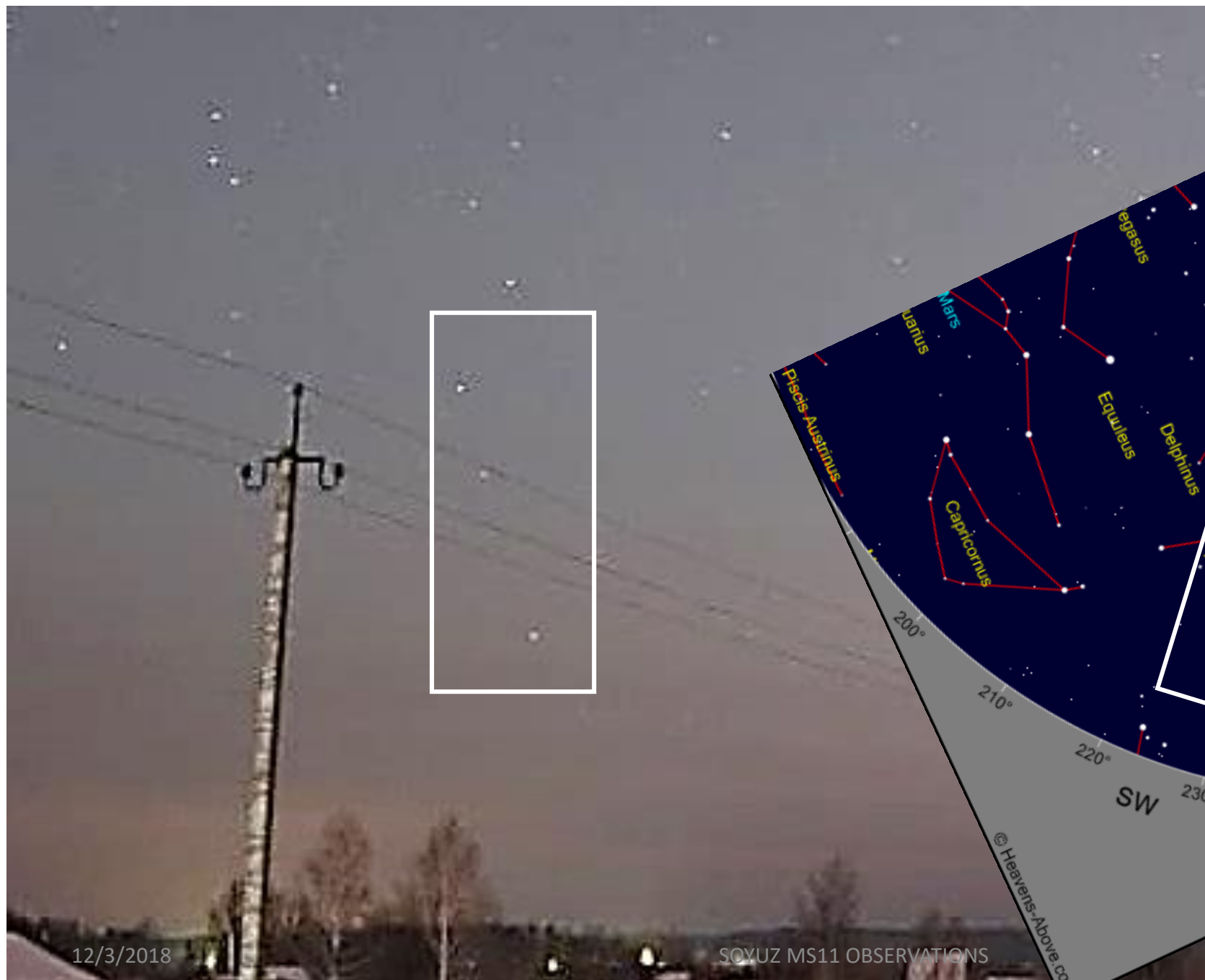
Range 350 miles  
El 35 deg  
 $\text{Alt} = 350 \times \tan[35]$





Braude-2 photo  
**may** show it's in  
the 'Aquila'  
constellation  
azimuth 255

THIS MATCHES  
THE PREDICTED  
ISS PATH



12/3/2018

SOYUZ MS11 OBSERVATIONS



# NOVOSIBIRSK IMAGE



<https://pbs.twimg.com/media/Dth4NYMW4AESgAP.jpg:large>

12/3/2018

SOYUZ MS11 OBSERVATIONS

44

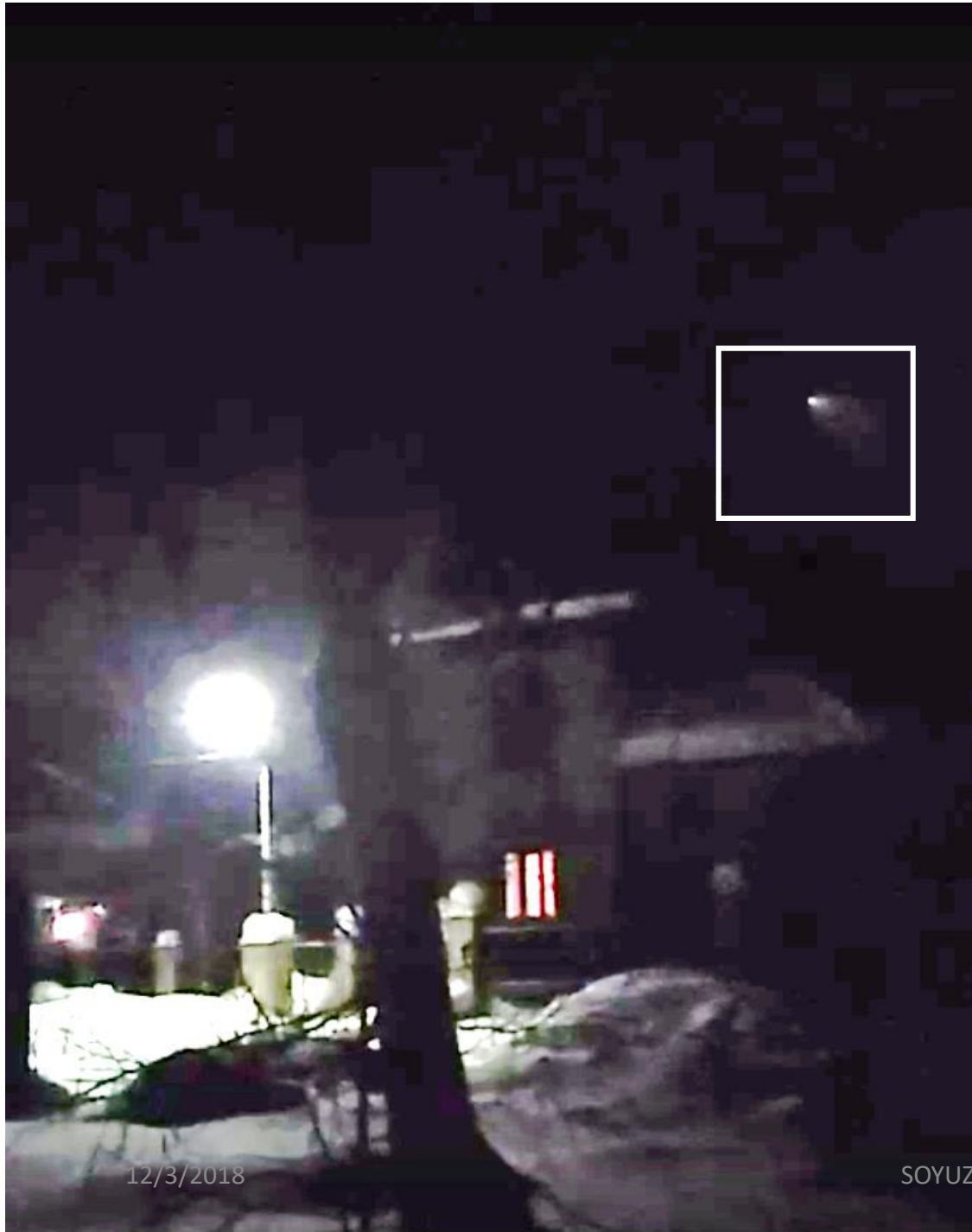
НЛО над Новосибирском сегодня! Потерпело крушение!  
Летела как комета! Упала в студ городке!

UFO over Novosibirsk today! Been wrecked! Flew like a comet!  
Fell in the stud[ent?] village!

[https://youtu.be/zXpKEqr\\_jR8](https://youtu.be/zXpKEqr_jR8)

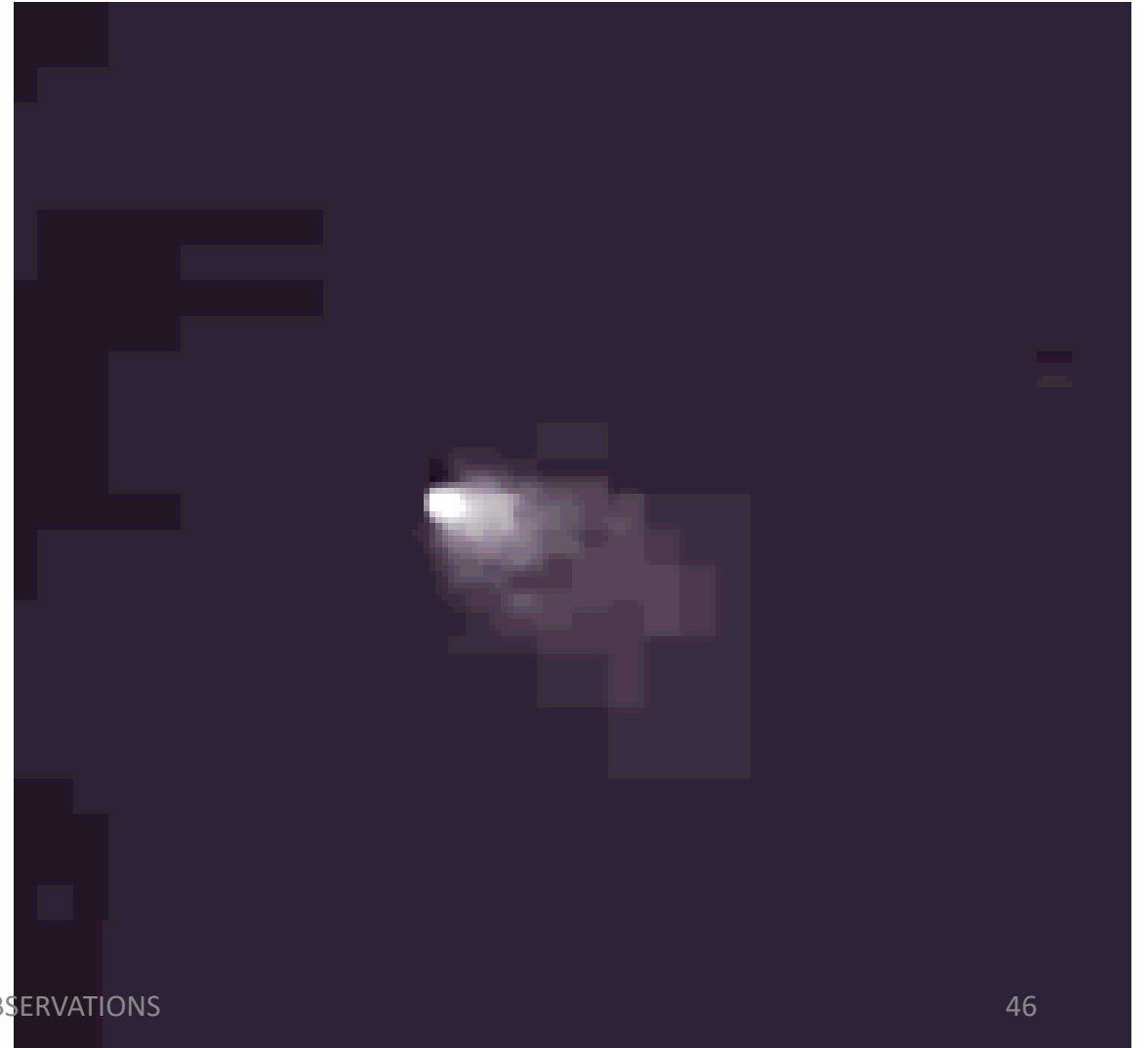
- belhak ru // Dec 3, 2018 == Сегодня над новосибирском потерпело крушение инопланетное летательное средство. Упало в студ городке. Инопланетян срочно госпитализировали. Они пахожи были на людей только гораздо выше ростом и у них по четыре пальца. Это первый контакт! Мы все умрём. Провительство скрывает это и выдаёт это как некие ракеты запущенные с байканура. Ракеты с байканура запускаются совсем в другую сторону...
- **Today, an alien aircraft has crashed over Novosibirsk. It fell onto the university. The aliens were urgently hospitalized. They were only people much taller and had four fingers. This is the first contact! We all will die. Powers-that-be hides it and gives it out like some kind of rockets launched from Baykonur. Rockets from Baykonur are launched in a completely different direction ...**
- **SOUNDS LIKE A 'FAKE NEWS' HOAX**

‘belhak ru’ photo & blowup  
[https://youtu.be/zXpKEqr\\_jR8](https://youtu.be/zXpKEqr_jR8)



12/3/2018

SOYUZ MS11 OBSERVATIONS



46

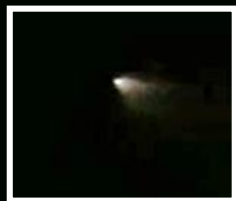


# Комета над Томском, 3.12.2018

## COMET OVER TOMSK

<https://youtu.be/mHXNCVQvfS0>

- ‘не влезай убьет’ // Dec 3, 2018 == В небе над Томском 3.12.2018 в 18:30 заметили комету, с лучами похожую на медузу, видно не очень но похожая на эту [https://www.youtube.com/watch?v= pi8o...](https://www.youtube.com/watch?v=pi8o...) пишите в комментариях, что это может быть??? если не комета
- “danger! Keep out”: **In the sky over Tomsk on 12/03/2018 at 18:30, a comet was noticed, with rays similar to a jellyfish, one can see not very but like this [Jun 28, 2011 Almaty launch video]. Write in the comments what could it be ??? if not comet.**



Video from user ID  
'danger! Keep out'



12/3/2018



SOYUZ MS11 OBSERVATIONS

Снял НЛО на камеру. **CAUGHT UFO ON CAMERA**

[https://youtu.be/PwMj7Vlp\\_qY](https://youtu.be/PwMj7Vlp_qY)

***Oberg: DESCRIPTION OF APPARENT END OF ROCKET BURN***

- Хороший Человек // Dec 3, 2018 == В городе Каргат в 18:35 03.12.18 заметили какой-то объект в небе. В начале нам показалось что это просто комета, но потом это штука как-будто испарилась на 2-3 сек маргнула и я думал это всё и перестал снимать, но потом заметили, что эта штука стала падать резко в низ и ещё стала красного цвета.
- In the city of Kargat, at 18:35 12/03/18, some object was noticed in the sky. In the beginning it seemed to us that it was just a comet, but then **this thing seemed to evaporate for 2-3 seconds, it blinked** and I thought that was all and I stopped taping, but then we noticed that this thing began to fall sharply lower and also became red.




В НЕБЕ НАД КЕМЕРОВОМ ЗАМЕТИЛИ НЛО  
IN THE SKY OVER KEMEROVO THEY NOTICED A UFO  
Ксения Сушина //3 декабря 2018, 20:39



## Ксения Сушина [KSENIYA SUSHINA] WRITES:

- Вечером в понедельник, 3 декабря, в небе над Кемеровом пролетел неопознанный объект — очевидцы странного явления сообщили об этом в соцсетях. Несмотря на то, что в Сети ранее появилась информация о запуске ракеты к МКС несколькими часами ранее, пользователи усомнились в том, что это — именно ракета.
- On Monday evening, December 3, an unidentified object flew in the sky over Kemerovo - eyewitnesses of the strange phenomenon reported this on social networks. Despite the fact that the web previously appeared information about the launch of a rocket to the ISS a few hours earlier, users questioned that it was really a rocket.
- – *Приблизительно в 19:00 это пролетело в небе над Кемерово. Что это?* — спрашивает один из очевидцев в кемеровском паблике в популярной соцсети.
- “At about 19:00 it flew in the sky over Kemerovo. What is it?” asked one of the witnesses from the Kemerovo public on the popular social network.
- По мнению некоторых пользователей, объект является кораблём пришельцев — НЛО.
- According to some users, the object is a ship of aliens – a UFO.

## В НЕБЕ НАД КЕМЕРОВОМ ЗАМЕТИЛИ НЛО

Ксения Сушина 3 декабря 2018, 20:39  2132

Кузбасс | Общество



Вечером в понедельник, 3 декабря, в небе над Кемеровом пролетел неопознанный объект — очевидцы странного явления сообщили об этом в соцсетях. Несмотря на то, что в Сети ранее появилась информация о запуске ракеты к МКС несколькими часами ранее, пользователи усомнились в том, что это — именно ракета.

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соцсети.

ORIGINAL  
WEBSITE  
ARTICLE



# Readers' comments

- **Аркадий Майер** -- Дрон кто-то запустил, пол кемерово в панике нашествие нло
- Someone launched a drone, **half of Kemerovo is in a panic** of a ufo invasion
- **Алексей Шмыгов** == Никогда не видели, КАК среди ночи ступени ракеты освещают небо, что становится светло, как днём? Тогда вам на территории, на которые проецируется траектория полета ракеты. Траекторию сменили? А то раньше южный Алтай освещался по ночам. И даже ступени падали в огороды.
- **Have you ever seen HOW in the middle of the night the rocket stages light up the sky, so that it becomes light as day? Then you are in the territory on which the rocket's flight path is projected. Trajectory changed? And earlier the southern Altai was lit at night. And even the stages fell into vegetable gardens..**
- **Серёжа Глазков** == Над чусовитином очень низко про летало потом исчезло
- Over Chusovitin **it flew about, very low**, then disappeared

# more

- **Олег Неткачев** == В это же время в небе над Промышленной что то пролетало и осветило небо. Объект видимо был далеко и крупный раз в одно и тоже время его увидели на территории более 100км...
- At the same time, in the sky above Promyshlennaya [district in western Kemerovo Oblast], something flew by **and lit up the sky**. The object was apparently far away and a large time at the same time he was seen on the territory of more than 100km ...
- **Олег Неткачев** х°Ранасеа°х == Не похоже на ракету, вовсе не тарелка... Похоже на Астероид , который пролетел относительно рядом с Землей...
- Not like a rocket, not a saucer at all ... It looks like an asteroid that flew relatively close to the Earth ...
- Олег Неткачев == А что, именно тарелку запускали? Дай пруфы тогда. А ты в курсе вообще, как ракета при запуске выглядит? На Байконуре работаешь?
- And what, exactly, they launched a saucer? Give proof then. Do you know at all how a rocket at launch looks like? Do you work at Baykonur?
- **Олег Неткачев** == Может быть два объекта было...А может и не одного ...Показалось...Какая разница. Дальше будем жить и работать...
- **Maybe there were two objects** ... And maybe not one ... It seemed ... What a difference. We will continue to live and work ...

# JO engages commentators for further info

- I envy your experience. Here is a previous example of the exact same appearance. It was a launching from the cosmodrome.
- Я завидую твоему опыту. Вот предыдущий пример того же самого вида. Это был запуск с космодрома.  
[http://satobs.org/seesat\\_ref/misc/Soyuz\\_launch\\_4.pdf](http://satobs.org/seesat_ref/misc/Soyuz_launch_4.pdf)
- =====
- ALSO COMPARE 'TOMSK SPIRAL UFO' REPORT [unmanned Soyuz]
- [http://satobs.org/seesat\\_ref/misc/tomsk\\_spiral\\_ufo\\_2006.pdf](http://satobs.org/seesat_ref/misc/tomsk_spiral_ufo_2006.pdf)



Новости Чтиво ▾ Фото ▾ Спецпроекты Фотоконкурс



## Думали, что НЛО: кузбассовцы публикуют фото и видео полёта космического корабля «Союз»

*Ракета-носитель успешно стартовала с первой стартовой площадки Байконура.*

3 декабря ракета-носитель «Союз-ФГ» с пилотируемым кораблем «Союз МС-11» стартовала с первой стартовой площадки Байконура. Как пишет ТАСС со ссылкой на Роскосмос, впоследствии корабль вышел на околоземную орбиту и начал автономный полёт к МКС.

<http://sibdepo.ru/news/dumali-cto-nlo-kuzbassovtsy-publikuyut-foto-i-video-polyota-kosmicheskogo-korablya-soyuz.html>

**They thought UFOs:** Kuzbass people publish photos and videos of the Soyuz spacecraft

[note: Kemerovo Oblast, also known as Kuzbass (Кузбáсс) after the Kuznetsk Basin

“Sibdepo” website  
on “Siberian depot”

# Witness account [translation needs work]

- Veniamin Kuzyomkin == Я в юрге вчера видел примерно 7,8 часов вечера невру правда сам удевлён кажизь это НЛО как Хабаровске ашь сам целый карабль показали по tv у меня ашь волосы на голове встали
- **Yesterday in Yurga [a town in Kemerovo Oblast, Russia, located on the Tom river] I saw about 7 or 8 o'clock in the evening. Nevru [??] was really dressed like this UFO like Khabarovsk [JO: big city in far eastern Siberia] you yourself showed a whole ship on tv. I have hair on my head standing up**

# Видео: полёт космического корабля "Союз" кузбассовцы приняли за НЛО <https://youtu.be/0bJ9D3qofXk>

**Video: flight of the  
Soyuz spacecraft  
Kuzbassers took  
for a UFO**

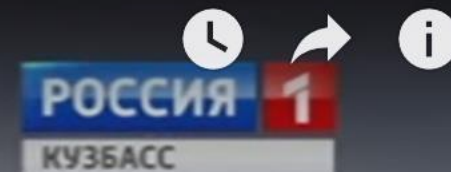


Вести. Кузбасс  
Published on Dec 3, 2018



Видео: полёт космического корабля "Союз" кузбассовцы приняли за НЛО

11:38 -28°



“BRAUDE 3” PHOTO  
USED ON TELEVISION  
CORRECTLY IDENTIFIED  
AS ‘FLIGHT OF SOYUZ’

ВЕСТИ КУЗБАСС СМОТРИТЕ НОВОСТИ «ВЕСТИ КУЗБАСС» В «INSTAGRAM»: @VESTI42

12/9/2018

0:04 / 0:26

SOYUZ MS11 OBSERVATIONS

59



**COMPARE 'BRAUDE 3' TO THIS  
DECEMBER 2015 NOVOSIBIRSK  
IMAGE OF SOYUZ WITH MOON IN  
VIEW [WHICH PROVIDED PRECISE  
LINE-OF-SIGHT AZIMUTH WITH  
HEAVENS-ABOVE.COM RESULTS]**



[http://siberiantimes.com/PICTURES/OTHERS/Soyuz-launch-in-Siberia/inside\\_lantern.jpg](http://siberiantimes.com/PICTURES/OTHERS/Soyuz-launch-in-Siberia/inside_lantern.jpg)

12/3/2018

SOYUZ MS11 OBSERVATIONS

60

# Новосибирск. НЛО. [NOVOSIBIRSK. UFO]

<https://youtu.be/ZWEBSVRxIOA>

- Инцидент Новосибирск // Dec 3, 2018 == Неопознанный летающий объект пролетел в небе над Новосибирском Над Новосибирском замечан космический объект или что-то другое, сообщают наши подписчики. Двигалось довольно быстро. В какой-то момент пропало и шлейф закончился, но через мгновение появился снова. Еще больше интересного и полезного в нашем паблике "Инцидент Новосибирск"
- **An unidentified flying object flew in the sky over Novosibirsk. A space object or something else is seen above Novosibirsk, our subscribers report. Moved pretty fast. At some point, it disappeared and the train ended, but after a moment it appeared again. Even more interesting and useful in our public "Incident Novosibirsk" [https://vk.com/incident\\_nsk](https://vk.com/incident_nsk)**
- Олег Берёзки == Рарара кета **Rah=rah=rah –cket!**
- Slavka plays 2 == Я тоже видел! Также снял **Also saw it. Photographed it.**



# novosibirsk



12/3/2018

SOYUZ MS11 OBSERVATIONS



**"INCIDENT  
NOVOSIBIRSK"  
NEWS BLOG**

**INCIDENT  
NOVOSIBIRSK**

# Новосибирск. НЛО над Новосибирском

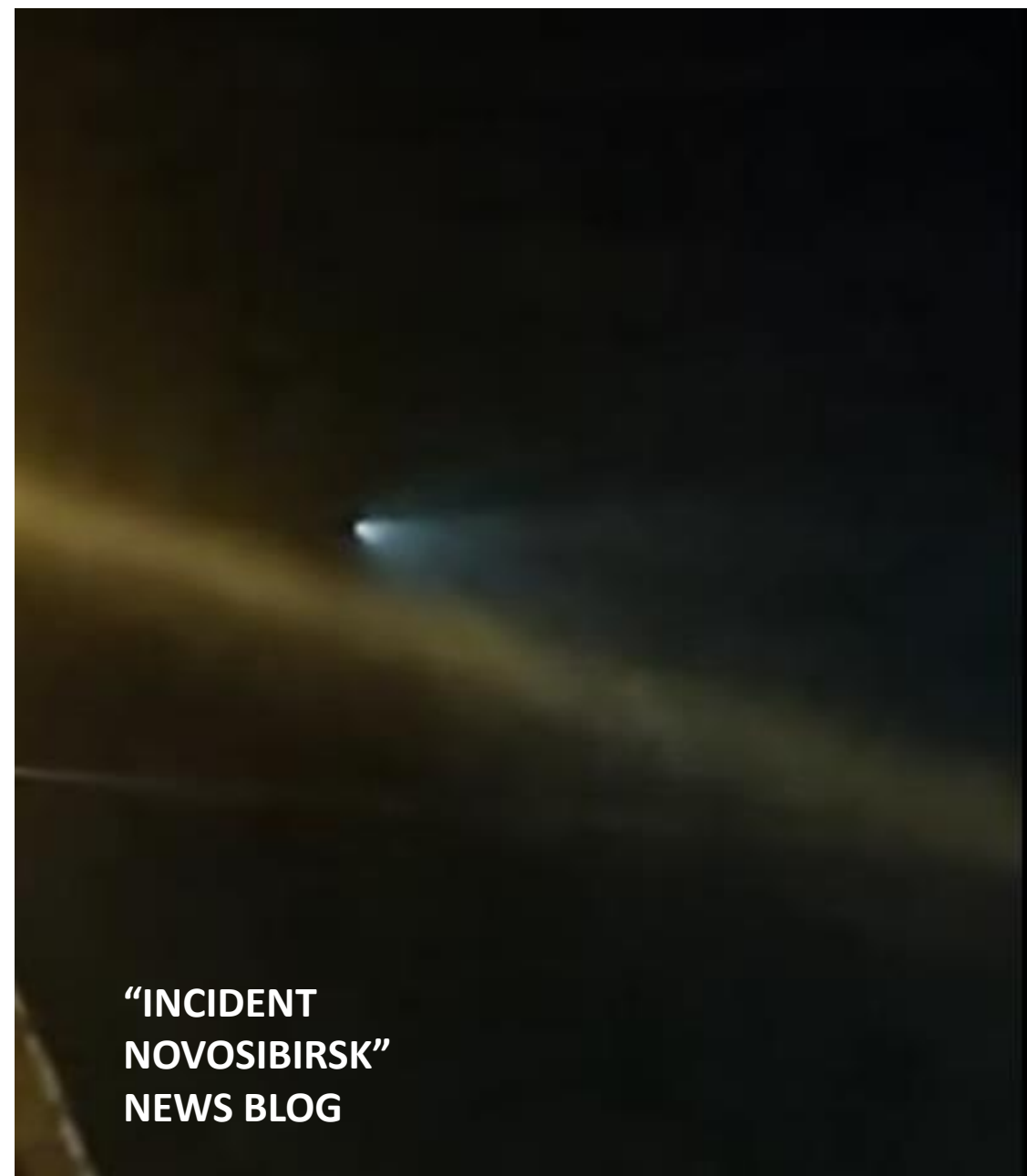
## NOVOSIBIRSK. UFO OVER NOVOSIBIRSK.

<https://youtu.be/zqrbX5YLFvw>

- Лера Волкова == Эм.. в эту хуйню поверят только дети. Это обычный самолёт. **Um ... only children will believe this garbage. This is an ordinary plane.**
- PUT IN WHO LOW == Нее, не самолёт. Это ракета. Я как служивый в РВСН тебе говорю /// **She is not a plane. This is a rocket. I, as a serviceman in the Strategic Missile Forces, am telling you**
- belhak ru == Я тоже эту хуйню заснял. Летела как камета. Но говорят была ракета. Типо. **I also filmed this garbage. Flew like a camet. But they say it was a rocket.**
- Кирилл Некрасов == Ёбаное всё, это ж тополь, бедный Петя.
- **Fuc4ing everything, it's a Topol missile, poor Peter**



ИНЦИДЕНТ  
НОВОСИБИРСК



“INCIDENT  
NOVOSIBIRSK”  
NEWS BLOG

<https://youtu.be/zqrbX5YLFvw>

12/3/2018

SOYUZ MS11 OBSERVATIONS



Новосибирск.  
Объект в небе.  
Novosibirsk  
Object in the sky.



<https://youtu.be/CijAS87TYE0>

12/3/2018

SOYUZ MS11 OBSERVATIONS

# Все происшествия Столицы Сибири

## All incidents of the capital of Siberia

[https://vk.com/incident\\_nsk](https://vk.com/incident_nsk)

- Anton Izvekov == Над Куйбышевом тоже пролетала.
- Over Kuibyshev it also flew.
- Maxim Minin = В Линево тоже видно было.
- It was also visible in Linevo.
- Vitaly Neizvestnykh == на Затулинке, прям хорошо было видно
- on Zatulinka, it was clearly visible
- Yulia Erdeli == Что больные совсем? я тоже видела.это самолет
- What is sick at all? I also saw it. It was a plane
- Alexey Butsykh == Был такой , пропал быстро , зрелище конечно красивое
- There was one, disappeared quickly, of course a beautiful sight

# more

- Konstantin Stezhko -- Это нас отчего то отвлекли проверяйте карманы и цены на АЗС ,а может завтра в новостях ,прилетали пацаны с соседней планеты , нужно помочь , кароче деньги есть, ну-ка попрыгайте .
- **This is why we are distracted, check the pockets and prices at the gas station, and maybe tomorrow in the news, the boys came from the neighboring planet, you need help, there is money, well, jump.**
- Оксана== Вообще, ребят, это действительно НЛО! Больше вам скажу, перед дефолтом в 90е та же хрень была! Как щас помню ! Прямо в каждом уголке необъятной России видели вот такие объекты, и стали на время пропадать! Во так вот! Так что, скоро всё случится!
- **In general, guys, this is really a UFO! I'll tell you more, before the collapse in the 90s the same crap was! How right now I remember! Right in every corner of immense Russia, we saw such objects, and people began to disappear for a while! It was so! So, soon everything will happen!**

# more

- Alexey Alexeevich == Блин а почему я раньше ракет в небе новосибирска не замечал... И почему Байконур? Что космодром восточный так и не запустили в работу?
- **Damn, why did I not notice the rockets in the sky of Novosibirsk before ... And why Baikonur? What the eastern cosmodrome never launched?**
- Vasily Ivanov == да это бред. Не видно в Сибире ракет с Байконура. По ходу вояки что-то запускали.
- **yes it is nonsense. Missiles from Baikonur are not seen in Sibe . The fighters just launched something.**
- Alexander Fadeev == всегда видно было! Но не всегда позволяла погода или время суток
- **Always [they] were visible! But the weather or time of day did not always allow it.**



# And more

- Irina Poroshina == Я почему то так и подумала что это космический корабль а не НЛО...у них скорость на много быстрее.а этот литей так мягко и не торопясь
- **For some reason I thought that this is a spacecraft and not a UFO ... their speed is much faster. And this weather is so soft and not hurrying**
- Oksana Mikhaylovskaya == Точно такое видела в детстве, в Тогучине, в 1978 году зимой, часов в 20.00-21.00, перепугалась страшно, домой забежала, родителей и брата на улицу вызвать, орала, что на небе что-то с хвостом летит, не верили, пока сами не увидели. Летело плавно и бесшумно. До сих пор помню.
- **I saw exactly this in my childhood, in Toguchin, in 1978 in the winter, at 8.00-21.00, I was terribly frightened, ran home, called my parents and brother on the street, shouted that there was something flying in the sky, they did not believe, did not see it. Flew smoothly and silently. I still remember.**
- Vitaly Simonok == До сих пор вы считаете, что ракеты летят в космос по горизонтали?
- **Do you still think that rockets are flying horizontally into space?**

# Yet more

- Vladimir Sevostyanov == Возможно это нло.я подобный объект уже видел много лет назад где то в конце 90 х.но не в самом новосибирске а в области.в тот раз через некоторое время свет исчез и осталась летающая тарелка которая вскоре растворилась в сумерках.было это летом около 11ти вечера.
- **Perhaps this is a UFO. I had already seen a similar object many years ago somewhere in the late 90s. But not in Novosibirsk itself, but in the region. At that time, after some time, the light disappeared and a flying saucer remained, which soon dissolved in the twilight. 11 pm**
- Ivan Ivanych == Владимир, я тоже видел в детстве, в августе, 1993 года, ужасное чувство было, до сих пор вспоминаю это с холодом по спине, яркий светящийся шар, диаметром около 20 метров пролетел над землёй, от которого шёл жар, и завис на минуту над лесом, потом так же быстро улетел, вся природа замерла на несколько минут, даже воздух замер.

Если честно, то я чуть не обосрался от страха...

- **Vladimir, I also saw in my childhood, in August, 1993, there was a terrible feeling, I still remember it with a cold on the back, a bright luminous ball, about 20 meters in diameter, flew over the ground, from which there was heat, and hung for a minute above the forest, then just as quickly flew away, all nature froze for a few minutes, even the air froze. ?? To be honest, I almost crap from fear ...**
- Ivan Ivanych == Странно, почему она не упала?
- **Strange, why did it not fall?**

# Petr Scheglov



[https://vk.com/photo-99099155\\_456464572](https://vk.com/photo-99099155_456464572)

12/3/2018

SOYUZ MS14 OBSERVATIONS



[Nikita Beloshapko](#)

<https://pp.userapi.com/c845216/v845216096/14f5c9/suxshuL6K4c.jpg> left],  
<https://sun6-4.userapi.com/c543106/v543106392/4ea44/uxQo0ZzE0MI.jpg> right



“INCIDENT  
NOVOSIBIRSK”  
NEWS BLOG



TWO PHOTOS  
IN QUICK  
SUCCESSION

NOTE HOW THE  
PHOTOGRAPHER  
MOVES TO LEFT  
IN 2<sup>ND</sup> IMAGE

Unknown  
sources

[https://pp.userapi.com/c845216/v845216096/14f5dc/knlVj\\_pqj\\_M.jpg](https://pp.userapi.com/c845216/v845216096/14f5dc/knlVj_pqj_M.jpg) [left]

<https://pp.userapi.com/c845216/v845216096/14f5d2/yOq3QC4zuRI.jpg> [right]



By Anastasiya  
Shchukina,  
Viktora Usa street,  
Novosibirsk, Russia



<https://sun6-3.userapi.com/c543106/v543106414/3bd28/DhYUEwxexOIM.jpg>

12/3/2018

SOYUZ MS11 OBSERVATIONS



НЛО в городе белово.

## UFO in the city of Belovo

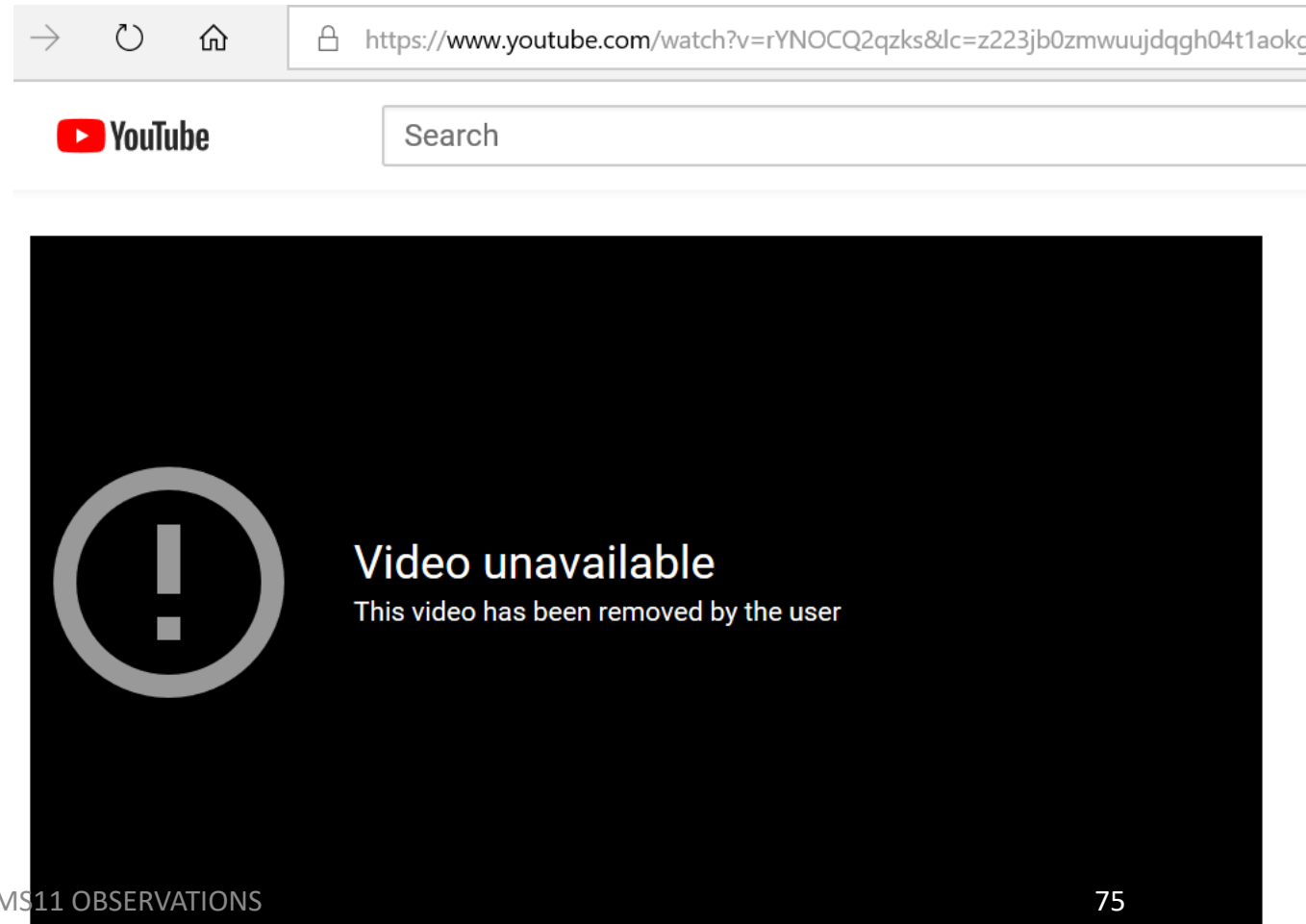
<https://youtu.be/rYNOCQ2qzks>

Belovo (Russian: Белово) is a town in Kemerovo Oblast, Russia, located on the Bachat River 170 kilometers (110 mi) south of Kemerovo.

- Denis Sobyenin // Dec 3, 2018
- Вчера вечером, в 3-м микрорайоне, пролетело не известный объект.
- Yesterday evening, in this county, an unknown object flew by.

=====

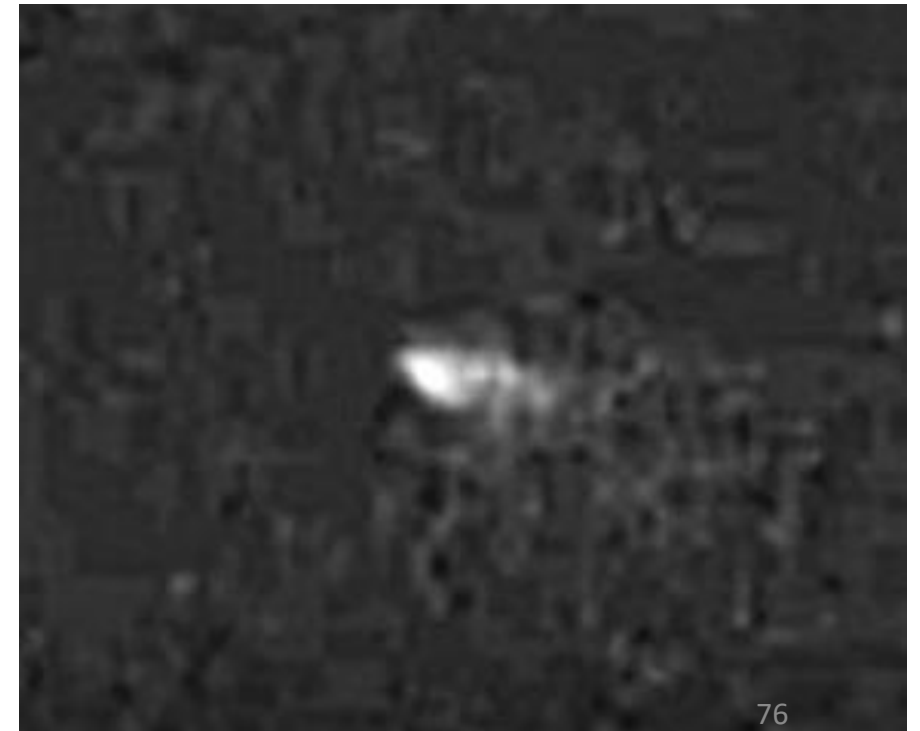
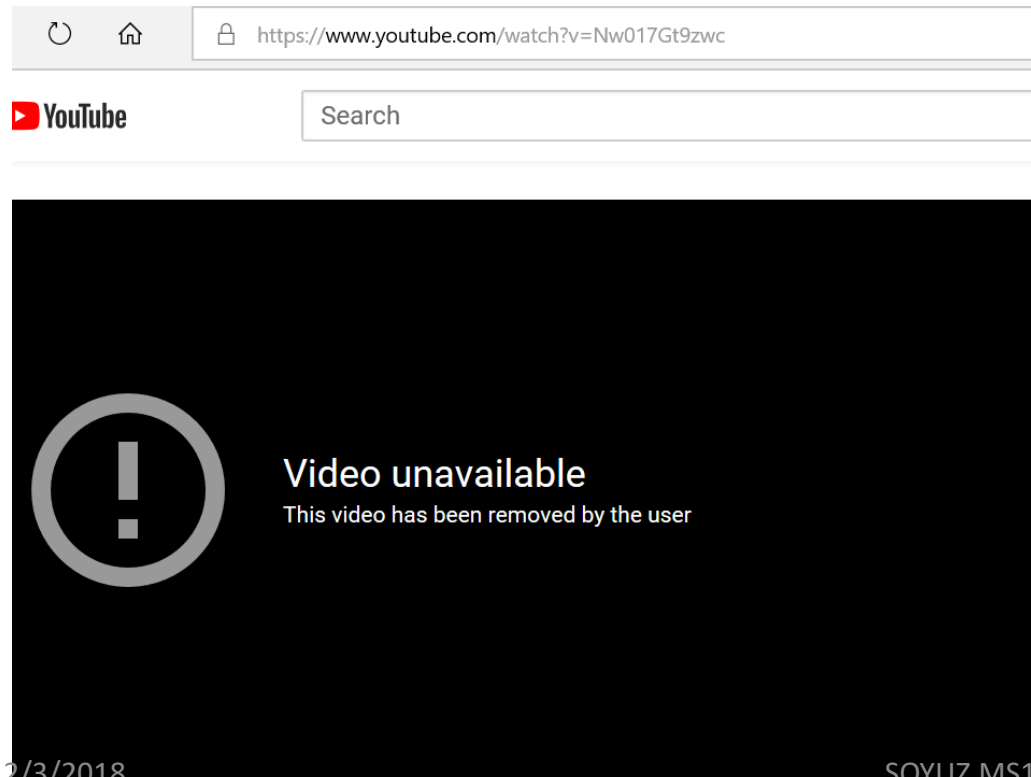
Following brief exchange of comments with me, Sobyenin deleted his video.



# НЛО в небе над Томском! Шок!

## UFO in the sky over Tomsk. Shock!

- <https://www.youtube.com/watch?v=Nw017Gt9zwc>
- [also shows video of 2006 spiral] [then video was deleted]





НЛО над Северском 03.12.18  
<https://youtu.be/FgjkxvaZKCM>

Red Star // Dec 4, 2018 == No comments

## UFO OVER SEVERSK



Seversk is a closed city in Tomsk Oblast, Russia, located 15 kilometers northwest of Tomsk on the right bank of the Tom River

“Red Star” // Dec 4, 2018  
Joined Nov 22, 2018



12/3/2018



SOYUZ MS11 OBSERVATIONS

# SUMMARY

- IMAGES FROM ISS SHOWED STANDARD LAUNCH SEQUENCE VIEWS; CLOUD DECK SHADOW OF EARLY PLUME WAS FORTUITOUS DUE TO METEOROLOGICAL CONDITIONS
- COMPARISON WITH LAUNCH ABORT IMAGERY IDENTIFIES SMALL BLIP AS FIRST STAGE SEP
- CHANGING VIEWING PERSPECTIVE ON THE DYNAMIC AND COMPLEX PLUME PATTERN DRIVES HOME THE THREE DIMENSIONAL NATURE OF THE OBSERVED EPHEMERAL CLOUD
- DOWNRANGE OBSERVATIONS WERE APPARENTLY ALL ACCIDENTAL [PRE-POSITIONED AMATEURS FROM PREVIOUS LAUNCHES EVIDENTLY ABSENT?]
- WITNESS COMMENTS WERE STANDARD MIX OF 'UFO INTERPRETATIONS' AND CORRECT ROCKET IDENTIFICATION. SOME WITNESSES RECALLED SIMILAR SIGHTINGS FROM CHILDHOOD
- MANY MISUNDERSTANDINGS OF 'WHAT A ROCKET SHOULD LOOK LIKE' ECHOED COMMENTS FROM U.S. VIEWERS OF LOCAL LAUNCHES
- AZIMUTH DETERMINATION BY STAR BACKGROUND IDENTIFICATION VALIDATED BY COMPARISON WITH PREDICTED VISIBLE ISS PASS SEVERAL MINUTES EARLIER
- SOME DOWNRANGE IMAGES AND WITNESS COMMENTS SEEM TO INDICATE OBSERVATION OF THIRD STAGE SHUTDOWN AND VEHICLE SEPARATION
- RESEARCH TECHNIQUE OF SEARCHING ALL POSSIBLE WEBSITE TOPICS AGAIN DEMONSTRATED VALUE IN QUEST FOR ANOMOLOUS DIAGNOSTIC IMAGES
- ONCE AGAIN, PUTTING ALL THESE CLUES TOGETHER SIDE-BY-SIDE YIELDED NEW INSIGHTS –
- AND WAS FUN