

NASA Chat: Orionids, Planets, Constellations Brighten October Skies
Expert Mitzi Adams
October 20, 2012

Moderator Brooke: Welcome, everyone. We're ready for questions about the the Orionids -- let's get this party started!

Dj: when does it stary?

Moderator Mitzi: The meteor shower is best viewed after midnight local time.

Caroline: Will we be able to see any meteors?-- I haven't seen any yet.

Moderator Mitzi: The Orionids meteor shower will begin as soon as we can see Orion in the sky, but we might see other meteors that are not associated with the Orionid meteor shower at any time. Also, there could be some Orionids visible as Orion is rising.

Nick: What is the best direction to look tonight, North ?

Moderator Mitzi: The best way to view any meteor shower is to lie on your back and look up. It's probably best to have your feet pointed towards south.

Steve: can the meteor shower be viewd in massachusetts?

Moderator Mitzi: Yes. The meteor shower can be viewed all over the Earth after midnight local time.

Markd: Hello, it's day time here in Australia, I'm wondering if it's likely we will see it at all or not?

Moderator Mitzi: You probably won't see any during the day, but you can see them after midnight where you are as long as you are in an area where the sky is dark.

becca2921: can the meteors collide with each other

Moderator Mitzi: It's possible.

Rod_W.: I see Jupiter so will most or all of the meteors be to the Right of jupiter, in the southeast sky?

Moderator Mitzi: The meteors will appear to come from the constellation Orion, which hasn't risen yet in Huntsville. After midnight, you should have a good opportunity to see the Orionids if the sky is clear where you are.

Moderator Brooke: Thanks for the flood of great questions. We're working on answers, so please don't leave if you don't see your answer right away. We're enjoying your sky reports -- tell us what you're seeing as you watch the Orionids tonight.

mauro77: can i see the orionids from Ecuador?

Moderator Mitzi: Yes, you can see the Orionids from Ecuador.

pair23: hi, what are the bright strs seen in the stream?

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Moderator Mitzi: There aren't any really bright stars in the stream. The telescope is pointed toward the north and Polaris is just below the field of view.

JoeBlatz: Good evening all, clear skies here in Baltimore, MD

Moderator Mitzi: The skies here in Huntsville are really clear and beautiful.

DSKanasa: What time should Kansas area be really seeing the best of it?

Moderator Mitzi: The best time to view any meteor shower is just after midnight local time.

Pike: When is the best time to view the meteors on the East Coast?

Moderator Mitzi: The best time to view any meteor shower is just after midnight local time.

Dj: does it start around 11 o'clock?

Moderator Mitzi: The best time to view any meteor shower is just after midnight local time.

Markd: is it likely to pose any threat to us? and will they just look like shooting stars?

Moderator Mitzi: There is no threat to us and they are shooting stars. Actually, they are dust the size of a pea or a grain of sand that are burning up in our atmosphere.

Pinacs: midnight eastern time?

Moderator Mitzi: The best time to view any meteor shower is just after midnight local time.

NASA_ADDICT; Local Time?

Moderator Mitzi: The best time to view any meteor shower is just after midnight local time.

AlyssaAdams348: Which are the other sights expected to be seen tonight?

Moderator Mitzi: Jupiter is rising in the east and Venus will rise in the east before dawn.

AlyssaAdams348: When is the peak of the meteor showers expected to happen around Newport, NH?
Zip code 03773

Moderator Mitzi: The peak will be between 3 and 6 a.m. your time.

Dan: what's the brightest in the middle of the live feed?

Moderator Mitzi: The stars in the field of view are part of the Little Bear, Ursa Minor.

Smiles669: Hi im in southwestern ontario, Grande Pointe to be exact. When would be the best time for me to see the meteors? Also, do i need a telescope to see mars, venus, and sirius

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Moderator Mitzi: The best time to view any meteor shower is just after midnight local time. Local time is the time where YOU are.

Thecrazykid: what part of the sky is the feed coming from?

Moderator Mitzi: The telescope is pointed toward the north and Polaris is just below the field of view.

Moderator Brooke: Excellent questions coming in -- thanks for watching the 2012 Orionids with us. Are you taking photos of the meteor shower tonight? Feel free to submit them to our Flickr group:

<http://www.flickr.com/groups/orionids/>

Pike: What direction is Orion located?

Moderator Mitzi: Orion is in the east. Its highest point will be at one o'clock in the morning and it will be due south at that time.

Tj: what's the best direction to look at?

Moderator Mitzi: Lie on your back and look straight up.

JasonQ: What direction in the sky should I be looking towards?

Moderator Mitzi: Lie on your back and look straight up.

AlyssaAdams348: What time does Orion begin to rise?

Moderator Mitzi: Orion has begun to rise in the east.

Moderator Brooke: In response to several questions about what Orion looks like -- here is a diagram that may help: <http://earthsky.org/tonight/good-sky-trick-orions-belt-points-to-starsirius>

bill_sundstrom: Should we be looking at the easternly sky to get best view?

Moderator Mitzi: Lie on your back and look straight up.

Sarienanj: Hi there, we are in New Jersey, USA, is there a best time to see the most meteorites? We're in Central NJ and the skies are clear so far. Thank you.

Moderator Mitzi: The best time to view any meteor shower is just after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time.

Brandy: should i use a telescope or will it be visable to the eye?

Moderator Mitzi: It will be visible to the naked eye if the sky is clear.

Gabe: Im assuming I havent missed it yet...

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Moderator Mitzi: No, you have not missed it. If it's after 10 p.m. where you are, you could go out and start looking.

Markd: Does this pose any threat to us?

Moderator Mitzi: No.

Phyllis: Not a question, just a thank you! We saw Halley's Comet from the native observatory atop Machu Pichu in Peru the last time around. So grateful to be able to see the shower from our computer. Overcast tonight.

Moderator Mitzi: Cool. Sorry it's overcast where you are. I was just in Peru in April and we had a few nights of very clear weather. It was nice to see the southern skies again.

Steve: are we chatting with bots?

Moderator Mitzi: No.

Aposiehfjwpoeifjpawoifjawef: The orion is a constellation right? why are meteors only visible when the constellation is visible?

Moderator Mitzi: Orion is a constellation. Meteors can be visible at any time, but this particular one appears to come from the constellation Orion and this has to do with its orbit around the Sun.

Jkil: what time is the peak time in maryland?

Moderator Mitzi: Between 3 and 6 a.m. local time.

Ellalou: Where exactly around Orion should we be looking for meteors?

Moderator Mitzi: Dpm

Eileen: WHat time should I get out there to look?

Moderator Mitzi: The best time to view any meteor shower is just after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time.

seanyeoh23: can i see it in vietnam?

Moderator Mitzi: Yes, when it's dark.

chad_ramlal: where do i look if im in NY USA

Moderator Mitzi: The best time to view any meteor shower is just after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. Lie on your back and look straight up.

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Lismoker: what direction should those on the east coast look when viewing the meteor shower?

Moderator Mitzi: Lie on your back and look straight up.

Dj: does it start before midnight?

Moderator Mitzi: Yes. The best time to view any meteor shower is just after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time.

Summer: Is your local time the same as eastern standard time?

Moderator Mitzi: No, it's central standard time. The best time to view any meteor shower is just after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time.

Stargazer: Is tonight the last night to see the meteor shower?

Moderator Mitzi: No. The peak is tonight or tomorrow morning, but you could still see some meteors associated with this shower tomorrow or even the day after.

Ddsqr: About what time can i start heading outside in New York (long island) to see the meteor shower? (

Moderator Mitzi: The best time to view any meteor shower is just after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time.

Dan: Is the live feed pointed at Orion?

Moderator Mitzi: No, it's pointed north. Polaris is just below the field of view.

Shelley: Thanks for providing the live stream. Cloudy, drizzle in Los Angeles, California so this is where I'll hang out to watch tonight. How many meteors are usually visible from your camera in Huntsville?

Moderator Mitzi: You're very welcome. We don't know how many we'll see. It depends on sky conditions and the meteor shower itself.

bigLu: In Uruguay can be seen ???

Moderator Mitzi: If you can see the constellation Orion, you should be able to see this meteor shower.

Sam_Toxx: Hope I can see some from my town with the street lights on

Moderator Mitzi: You should be able to see the very brightest ones, but it's best if you can get away from the street lights.

Sarienanj: It's 11:06 pm in New Jersey USA on East Coast now, are we better off waiting to the a.m.'s?

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Moderator Mitzi: The best time to view any meteor shower is just after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m.

MEHA: WILL IT MAKE A BIG BOOM

Moderator Mitzi: There are reports of hearing noises associated with meteors.

chad_ramlal: ok how do i id orion

Moderator Mitzi: There's a post to the room with a link to earthsky.org where there is a sketch of Orion.

Vizeryon: midnight local time, that is USA time right? 4 GMT?

Moderator Mitzi: Local time is the time where you are.

Jenny: Is there a possibility that some might even touch down on earth?

Moderator Mitzi: Yes, there is a possibility that some meteors might make it to the ground. Interestingly, at that point they would be called meteorites.

Trey: so will light pollution have a big effect or can it still be viewed?

Moderator Mitzi: Yes. But you can still see the brightest ones.

Hellohainihao: I suppose it's better to watch outside, right? (can I watch from my window?)

Moderator Mitzi: Yes, it's better to watch outside.

JoeBlatz: I saw a few Orionids early this morning at about 5 AM EDT.

Moderator Mitzi: Great!

Drderek: Midnight, huntsville time?

Moderator Mitzi: Midnight local time.

WarEagleIU: Hey Huntsville! I'm south of you in Auburn! Can't wait to see some meteors!

Moderator Mitzi: Good luck. Hope the sky stays clear.

sanlicas: Question, I live in Flowery Branch GA.. do you think I will be able to see some ? :)

Moderator Mitzi: I used to live in Flowery Branch! You should be able to see Orionids if the sky is clear and you're away from street lights.

chad_ramlal: how do i find orion

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Moderator Mitzi: Find the brightest star that you can see in the east, which should be Jupiter. Orion should be to the right and below. You should see three stars that form Orion's belt lined up vertically.

Vizeryon: Any estimated time for the shower?

Moderator Mitzi: The best time to view any meteor shower is just after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m.

loopy4: I am looking at North Star. Where in reference to it can I see the meteor showers?

Moderator Mitzi: Lie on your back and look straight up.

KrMnK: The meteor shower can be viewed from Eastern NJ?

Moderator Mitzi: Yes.

Erik: So the peak is right before dawn tomorrow morning?

Moderator Mitzi: The peak is between 3 and 6 a.m.

Alex: Hi! Im in Lima, Peru... am I gonna be able to see the meteors?

Moderator Mitzi: Get away from city lights and you should be able to see some meteors.

BelleNoir: Have any meteors been seen yet? I'm in Tampa, Florida. I'm just wondering when the best time to go out is.

Moderator Mitzi: Yes, we have had reports of meteors being seen. The best time to view any meteor shower is just after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m.

Frank: Was the meteor sighting two nights ago related to this event

Moderator Mitzi: If you're referring to the meteor seen over southern California, no, it's not related to the Orionids.

EjeG: hey cool. just discovered Google Sky Map app has Orionids in it's indicator. so guess now just wait for Orinods to get above horizon.

Moderator Mitzi: Great! This is good to know.

Aristarchus: From the island of famous astronomers Aristarchus and Pythagoras, Samos Greece nothing special yet 6:11 am local time :-)

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Moderator Mitzi: So the sun should be coming up soon, within an hour or so, and you'll have to wait until evening to try again.

Stellar1: Are there any large fragmets that may oneday pose athreat or just mostly dust?

Moderator Mitzi: Mostly dust.

Moderator Brooke: For everyone, best viewing per our astronomers is after 10:30 p.m. your local time because that's when the radiant, Orion, starts to rise. Rates improve toward dawn, with best viewing 3-6 a.m. your local time. Thanks for the terrific questions -- we're working on answers

Sharlyspar: when is the best time to see this in NY? i want to take my son out but dont wanna wake him up until a good time!

Moderator Mitzi: Wake him up between 3 and 6 a.m. local time.

Ddsagr: What time should i go outside to see the meteor shower in New York (Queens/Long island)

Moderator Mitzi: The best time to view any meteor shower is just after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m.

Catchafallingstar: WAR EAGLE. what is the best time to see the Orionids in Auburn?

Moderator Mitzi: The best time to view any meteor shower is just after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m.

FcoGabriel: Can I see the orionids from Chile??

Moderator Mitzi: If you can see Orion, you should be able to see Orionids.

ISKY25: Hi I am from Venezuela, what time I can see the metheors

Moderator Mitzi: The best time to view any meteor shower is just after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m.

Ebony: will i be able to see if i have street lights by my house

Moderator Mitzi: You might see some bright ones, but you won't see the dimmer ones.

Lb: in woodland wa moon very bright any chance of seeing them? thank you

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Moderator Mitzi: Yes, you do have a chance of seeing meteors while the moon is up, but it's easier when there is no moon in the sky.

Elbrute: just saw a couple on your stream. prolly shuold go outside and view in realtime!

Moderator Mitzi: Great! That's good to hear.

JenfromTX: I'm in TX and will be veiwing. Which direction should I look?

Moderator Mitzi: Lie on your back and look straight up.

Kidzz: will i be able to see it in Trinidad, West Indies??

Moderator Mitzi: Yes. Lie on your back and look straight up.

Nolimitromeo: How long will we be able to see the shower?

Moderator Mitzi: If Orion is above the horizon where you are, you could begin seeing meteors now until sunrise. And then again on Sunday night.

Aduljay: I am in Mexico, what time here Can I see the stars?

Moderator Mitzi: The best time to view any meteor shower is just after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m.

Bb: BEST TIME IN SOUTERN CALIFORNIA? (HIGH DESERT) THANKS

Moderator Mitzi: The best time to view any meteor shower is just after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m.

GOTIGER: Hi I am ready to enjoy it. i live in Mexico sorry for my bad english, I hope you can undestand me. What is the visibility rage of the meteors?, for example one meteor seen in Huntsville ALA can be seen miles away the sames single meteor in Mexico?

Moderator Mitzi: Hello. No, if you see a meteor in Huntsville on our live feed, you will not see that same meteor in Mexico.

Luxangel7: when exactly is the best time to see them?

Moderator Mitzi: The best time to view any meteor shower is just after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m.

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megg327: The website says 11pm-3am, do you know when would be the best time to see the meteors?

Moderator Mitzi: The best time to view any meteor shower is just after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m.

reeser17: At what hour would be the best to see this? 12:00am-1:00am, 1:00 am-2:00 am, etc. thank you

Moderator Mitzi: The best time to view any meteor shower is just after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m.

Wolfman: whats the best time to watch on the east coast

Moderator Mitzi: The best time to view any meteor shower is just after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m.

Sam_Toxx: When should we be able to see them from Cali?

Moderator Mitzi: The best time to view any meteor shower is just after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m.

Rick_W: What about Seattle with the weather we're having?

Moderator Mitzi: I assume if you're in Seattle, it's cloudy, so your best bet is to watch our live feed. :-)

airboat10: we are in sebring florida what is the best time we have saw one headed to the north

Moderator Mitzi: The best time to view any meteor shower is just after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m.

Jkrzok: Is a meteor visible to someone in say New York also visible to some one in Florida?

Moderator Mitzi: No.

sanlicas: Do i need to go to a really dark place? I live in the country side but there are some yellow lighs around.

Moderator Mitzi: You'll see the brightest meteors, but miss the dimmer ones.

Fructuoso: I am here in dallas, texas. What is the best time to view the meteor shower? Thanks

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Moderator Mitzi: The best time to view any meteor shower is just after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m.

CarlRussell: If the stream is pointed north should we be looking north?

Moderator Mitzi: Lie on your back and look straight up.

KrMnK: what time we are going to see ir in USA?

Moderator Mitzi: The best time to view any meteor shower is just after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m.

Jkil: what time is the peak time in Maryland?

Moderator Mitzi: The best time to view any meteor shower is just after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m.

Nolimitromeo: where do i look outside?

Moderator Mitzi: Lie on your back and look straight up.

Drp: just saw 3 on the drive home from work in chattanooga,tn

Moderator Mitzi: Great!

1053: how often does the Orionids meteor shawoer happen?

Moderator Mitzi: Once a year.

Boilerdam: Hi, I just read on another website that there'll be a live stream from Huntsville. Could I please have a link?

Moderator Mitzi: <http://www.nasa.gov/connect/chat/orionids2012.html>

baby_gurl_: how often do they happen?

Moderator Mitzi: Once a year.

DSKanasa: Can't wait. so midnight is the best time for current time?

Moderator Mitzi: The best time to view any meteor shower is just after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m.

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Marie: I think I just saw one, I'm in Georgia, 11:17pm here, or maybe it was a shooting star?

Moderator Mitzi: Meteors are shooting stars. To know that it was an Orionid, you would have to trace back the path to the constellation Orion. But it's likely that it was an Orionid.

twinstar2: The Orionid meteors are from the Halley comet debris field.. when is the next time we'll be able to see Halley's comet?

Moderator Mitzi: Mid-2061.

1053: what is the average size of the meteors?

Moderator Mitzi: A grain of sand or pea size.

Ddsqr: When should I go outside in New York (Queens/Long Island) to see the shower starting?>

Moderator Mitzi: The best time to view any meteor shower is just after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m.

Rod_W.: you mention after 11pm or midnight is best to view, but is there any time-frame that is ideal, such as 1am, 3am, etc? Or anytime after 11pm is ideal?

Moderator Mitzi: The best time to view any meteor shower is just after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m.

Meenal: At what time between midnight and 5 am will the frequency of meteor sightings be the highest? (viewing location northeast Florida)

Moderator Mitzi: The best time to view any meteor shower is just after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m.

Erik: is the cam in the central time zone?

Moderator Mitzi: Yes.

Moderator Brooke: We've had a lot of questions about the brightest star on the middle of the Ustream feed. From our astronomy team, that star is Errai (Gamma Cephei), a magnitude 3.2 star. Polaris isn't visible -- it's just below the field of view of the Ustream feed.

Alex_Hall: its 4:18 over here and after spending an hour and a half observing Venus and Mars from midnight I have yet to see a meteor either on screen or through eyepiece... :(

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Moderator Mitzi: Looking at meteor showers is best done without a telescope or binoculars because you want your field of view to be as wide as possible.

CarlRussell: Kind of hard to do (look north) with our feet pointed south

Moderator Mitzi: Lie on your back with your head to the north and your feet to the south and look straight up.

Barry: what time is it where you are

Moderator Mitzi: 11:40 p.m.

Wholbrooks: do any of these meteors make it to earth's surface?

Moderator Mitzi: Sometimes.

Sickness: I know maybe this is not the right time to ask , but i'm wondering about the nibiru rumors... is it true?

Moderator Mitzi: No, it is not true.

Moderator Brooke: Lots of compliments on the music being played for the Ustream feed. That's Third Rock Radio: <http://www.rfcmedia.com/thirdrockradio/> If you go to their public channel, you hear more contemporary rock. In the daytime, it's a live DJ format. Enjoy!

Jaywolfx: Dirt filled sky in West TX. lol it's Cotton season

Moderator Mitzi: We understand. We had some hazy days a couple of days ago. Most of our cotton is gone now.

Kelvin_Throop: Where is the best place in the sky to look? Straight up or near the horizon

Moderator Mitzi: Lie on your back and look straight up.

Coquismg: In which direction is the Orion constellation?

Moderator Mitzi: East.

Shelley: Do any of the meteors ever reach the ground?

Moderator Mitzi: Possibly.

F: will the meteor shower still be in effect at midnight PST?

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Moderator Mitzi: The best time to view any meteor shower is just after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m.

Pookie: Here in central South Carolina clear, moon about to set below the horizon, I understand I'm supposed to be looking towards to SOUTHERN skies, SOUTHEASTWARD a little, near Orion's belt? Orion's belt isn't there yet, I assume it'll be in that area later in the night. Anywho, is that the optimal viewing area of the sky in the southeast US ?

Moderator Mitzi: As soon as the moon sets, conditions are much better for seeing dimmer meteors. As far as where to look, lie on your back and look straight up, your peripheral vision will pick up any meteors that are not in your field of view.

chad_ramlal: is this an annual event or once in a lifetime?

Moderator Mitzi: Annual.

1053: what is the best way to view the shower

Moderator Mitzi: Lie on your back and look straight up with the naked eye. Best is away from light sources.

v_vbn__: is midnight a good time to view?

Moderator Mitzi: The best time to view any meteor shower is just after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m.

Wholbrooks: and how dose that dust effect the space station

Moderator Mitzi: The space station has a bumper to protect against debris.

Alex_Hall: i think mitzi must be an automated response unit, i wouldnt waste your time

Moderator Mitzi: Mitzi is not an automated response unit. She's a living, breathing, working scientist. We're getting to as many questions as we can. We can only type so fast.

Sharlyspar: the article says a few hours before sunrise, but you are saying a little after midnight? i am confused as to what is best?

Moderator Mitzi: The best time to view any meteor shower is after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m. The predicted peak varies from shower to shower.

Sickness: Where in the sky do i have to look to see the meteor shower?

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Moderator Mitzi: Lie on your back and look straight up. The naked eye is best because you want your field of vision to be as wide as possible.

Fred: Where should i look in the kansas city sky

Moderator Mitzi: Lie on your back and look straight up. The naked eye is best because you want your field of vision to be as wide as possible.

Jkrzok: Are these any threat to the ISS?

Moderator Mitzi: The ISS is protected from orbital debris by a bumper which protects against objects up to an inch in size.

Shannon: In England what is the best time to view?!

Moderator Mitzi: The best time to view any meteor shower is after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m. The predicted peak varies from shower to shower.

Stellar: At what altitude to they begin to burn up?

Moderator Mitzi: They can begin to burn up between 40 and 60 miles.

Shelley: Are you going to aim your telescope towards the southeast to watch Orion rise? Or will it be visible with the telescope aiming north?

Moderator Mitzi: The telescope will be able to pick up Orionids in its field of view, but the pointing to the north is done to keep the moon out of the field of view and to allow ease of calculation.

HootOwl: If they're only the size of a pea, why do we see them so clearly?! That's insane!

Moderator Mitzi: It's because they're being heated to high temperatures and they are seen against the black background of space.

england.jordyn: when is the peak for heath ohio 43056

Moderator Mitzi: The best time to view any meteor shower is after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m. The predicted peak varies from shower to shower.

Shelley: If I watch the live stream from your east coast location, am I actually seeing into the future? Then 3 hours later I can go out and watch the same event from the west coast, right?

Moderator Mitzi: You've been watching too much Doctor Who. 😊

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Alex_Hall: when will the meteor shower peak in bristol, england?

Moderator Mitzi: The best time to view any meteor shower is after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m. The predicted peak varies from shower to shower.

MEHA: WHAT TIME WOULD IT BE EXPECTED FOR UPSTATE S.C.?

Moderator Mitzi: The best time to view any meteor shower is after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m. The predicted peak varies from shower to shower.

TomH: Since you're providing "best time" advice, how about southwestern Ohio? (Cincinnati) Thanks.

Moderator Mitzi: The best time to view any meteor shower is after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m. The predicted peak varies from shower to shower.

Ddsqr: What is the best time to go outside and see the peak of the meteor shower in NY, Zip Code 11421?

Moderator Mitzi: The best time to view any meteor shower is after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m. The predicted peak varies from shower to shower.

Marina: when is the peak expected for Campbellsville, KY 42718?

Moderator Mitzi: The best time to view any meteor shower is after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m. The predicted peak varies from shower to shower.

DSKanasa: So what your saying is Local time is where I am at the moment? ;)

Moderator Mitzi: Yes.

Kyle1701: Cool. Is this the hubble telescope viewing the comet area from space?

Moderator Mitzi: No.

Nany: does 3am to 6am peak time applies for all US territory?

Moderator Mitzi: Yes.

Alex_Hall: venus has already risen and set for me, it will be up for 4 hours at most :) im geussing jupiter must have been and gone too :/

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Moderator Mitzi: Jupiter is now up in Huntsville in the east. Venus will rise before sunrise in the east. It is very unlikely that you would see Venus set because the Sun will be up.

Sam_Toxx: My friend in Australia is wondering if he will be able to see it and when if possible?

Moderator Mitzi: Your friend in Australia should look for meteors between midnight and 6 a.m. where he or she is.

Moderator Brooke: Terrific participation from around the world tonight. Thanks for your questions and observations of the 2012 Orionids. We're working on answers for you -- keep telling us what you're seeing in your local skies.

Kyle1701: So how does the comet spit out so many meteors?

Moderator Mitzi: Each time the comet orbits the Sun, bits of it are left behind in orbit. These continue to orbit even though the comet is not right there. The Earth intersects these clumps of dust and there are many clumps of dust each year.

Doc: What is the best way to photograph the meteors?

Moderator Mitzi: The best way to photograph meteors is to attach the camera to a tripod, point it straight up and open the shutter for some amount of time. If you are in an area with a lot of light, that time should be fairly short. In a dark sky, your exposure time can be longer, but you just have to experiment and be lucky enough to catch a meteor in your field of view when your shutter is open.

Sanlicas: hello When is the peak of the meteor showers expected to happen around flowery branch GA ? Zip code 30542

Moderator Mitzi: The best time to view any meteor shower is after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m. The predicted peak varies from shower to shower.

england.jordyn: When is the peak of the meteor shower in Heath, Ohio

Moderator Mitzi: The best time to view any meteor shower is after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m. The predicted peak varies from shower to shower.

F: I'm in Sacramento, CA, whats the best time to see the meteor shower?

Moderator Mitzi: The best time to view any meteor shower is after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m. The predicted peak varies from shower to shower.

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Doc: The Orion constellation has come up in the east is that where we should look?

Moderator Mitzi: Lie on your back and look straight up. The naked eye is best because you want your field of vision to be as wide as possible.

NASA_ADDICT: I'm in Grand Junction, CO 81501 What time should I look up, and Where should I look?

Moderator Mitzi: The best time to view any meteor shower is after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m. The predicted peak varies from shower to shower.

Sheree: We are close to the beach in Long Branch, NJ. What time would be a good time for us to see it?

Moderator Mitzi: The best time to view any meteor shower is after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m. The predicted peak varies from shower to shower.

baby_gurl_: how often does it happen?

Moderator Mitzi: The Orionids meteor shower is an annual event.

Ryan_F: Apologies if this question has already been asked - just joining. What part of the sky will have the largest number of "hits"?

Moderator Mitzi: There's no way to know.

freddie : est time is " just after midnight LOCAL TIME" . Location of questioners time zone may add interest so an individual viewer can relate. Maybe to GMT or EDT.

Moderator Mitzi: We can't specify GMT or EDT, because as the Earth rotates, so do the stars. So if we say midnight local time, we mean midnight where you are, whether you're in the Eastern Time Zone, the Central Time Zone or even in Hawaii.

Lismoker: will you be moving the cam when the meteors come?

Moderator Mitzi: The camera is in an optimum position and has caught meteors moving through its field of view.

Eileen: I have an app on my iPad called Star Walk...When u face it at the sky, it tells you the name of the stars ur looking at. How do I find Orion??

Moderator Mitzi: Two of the brightest stars in Orion are Rigel and Betelgeuse. Look for Orion toward the east.

Jkil: will the meteors be visible across the whole sky?

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Moderator Mitzi: The constellation Orion will move across the whole sky, so in theory, meteors could be visible across the whole sky.

Daiko: Is there a way the chat room can accomodate more people?

Moderator Mitzi: Yes, but it's a performance issue --- the more people you accommodate, the slower it gets.

Roy: does orion rise in the sky like the sun or does it just appear up in the sky

Moderator Mitzi: Orion rises. All the stars and planets rise because the Earth is rotating.

Happi: Do you need a telescope to observe the meteor shower?

Moderator Mitzi: No.

Nany: will there be a speaker during the live stream as the feed shows the meteors??

Moderator Mitzi: No.

Alex_Hall: why are you ignoring my questions?

Moderator Mitzi: What is your question?

Alex_Hall: has anyone seen a meteor on the video feed below?

Moderator Mitzi: Yes.

Peli1414: What time should i view it at in Rhode Island?

Moderator Mitzi: The best time to view any meteor shower is after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m. The predicted peak varies from shower to shower.

Anthony: are you tired of answering the same question that its best to view at Midnight local time :)

Moderator Mitzi: Yes.

Angel_K: If the peak is between 3 & 6 a.m. why is the best viewing time just after midnight?

Moderator Mitzi: As the Earth turns, it begins to head into the stream of the meteor shower after midnight. The peak of this particular meteor shower is between 3 and 6 a.m.

Tim: Do they burn out or keep traveling

Moderator Mitzi: Most of them completely vaporize in the atmosphere.

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torid8: whta direction in the sky should i be looking at?

Moderator Mitzi: Lie on your back and look straight up. The naked eye is best because you want your field of vision to be as wide as possible.

baby_gurl_: how often does this happen

Moderator Mitzi: Once a year.

Ryan_F: How often does this specific metor shower hit Earth?

Moderator Mitzi: Once a year.

Rom: so will the meteors be coming from east

Moderator Mitzi: Orion is in the east and if you trace back the path of the meteor, it will appear to have originated in Orion, but the meteors will not only be coming from the east.

Kyle1701: Could this comet and it's shed dusts effect the earths atmospere in any way?

Moderator Mitzi: No.

Jonathan_K: Which direction is the live view pointed at?

Moderator Mitzi: It's directed to the north. Polaris is just below the field of view.

Alex_Hall: how many meteors is there on average every hour?

Moderator Mitzi: We don't know yet. The predicted rates are twenty per hour.

HiLayla: Will you or another astronomer be doing this for the next meteor shower?

Moderator Mitzi: The next meteor shower is the Leonids and we won't be doing a chat for that. But we will be doing a chat for the Geminids in December.

JoeBlatz: I think you need to tell people that the Orionids can appear in any part of the sky. But that their origin will trace back to Orion.

Moderator Mitzi: Thank you. We just answered a question that hopefully made that clear.

LoveNasa: What planets can we see on this stream?

Moderator Mitzi: No planets are visible in the stream.

GOTIGER: Hi from Mexico! I'm ready to see the sky show. Please say something. thanks

Moderator Mitzi: Good luck!

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just_diz: Thank you so much for all of your hardwork.

Moderator Mitzi: You're quite welcome. We love doing this.

Doc: Looking straight will they be coming from in front, to left or right or beyond?

Moderator Mitzi: They could come from any direction. But if you trace back their trail, they seem to originate from Orion.

Florios_Antonio: Are orionids particles of Orion?

Moderator Mitzi: No. The constellation of Orion is made up of stars that are light years away. The Orionids meteors are forty to sixty miles away.

baby_gurl: someone please answer my question how often does this happen?

Moderator Mitzi: The Orionids meteor shower happens once a year.

DianeB: Peak for Champaign, IL? And also, recommended camera settings?

Moderator Mitzi: Sorry, I can't recommend any camera settings. Trial and error. Thankfully, we don't have to deal with film nowadays.

Nick: When is the best time to see Halley's Comet?

Moderator Mitzi: In mid-2061.

Elwood: i'm on east edge of central time zone on gulf coast. when will they be visible here?

Moderator Mitzi: The best time to view any meteor shower is after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m. The predicted peak varies from shower to shower.

Alan: So you are saying we should be looking towards the eastern sky? About how high off the horizon should we be looking?

Moderator Mitzi: No, Orion is in the east, but you should be looking straight up. Lie on your back with your head towards the north and feet toward the south and look straight up. The naked eye is best because you want your field of vision to be as wide as possible.

RJH86: MITZI,WE APPERICATE YOU

Moderator Mitzi: Thank you!

Roy: if i was to look for the concellation . now and say the ground being 6 O clock and straight up is 12 oclock what time on the clock would I find it now. Thanks

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Moderator Mitzi: Face south. Orion will be at approximately 9 o'clock, if 9 o'clock is your left arm sticking straight out from your body. East is on the left, west is on the right, Orion is in the east.

Jaywolfx: What is the local time of the cam feed?

Moderator Mitzi: Central Time.

Ilya: What time is the best to go outside for the meteors?

Moderator Mitzi: The best time to view any meteor shower is after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m. The predicted peak varies from shower to shower.

max1c: whats the expected rate of shower?

Moderator Mitzi: Twenty or so per hour.

moorer1: Where do the meteorites go?

Moderator Mitzi: There are three terms you should know. Meteoroid refers to debris when it is in space. Meteor refers to the debris when it is in the atmosphere. Meteorite refers to the debris when it has made it to the ground. Some people purchase meteorites and they could go perhaps into a museum or research center.

Rod_W.: thank you for the link for Orion. With the meteors coming from Orion, will they be going in all directions (N,S,W,E) of Orion?

Moderator Mitzi: They don't come from Orion; they can appear anywhere in the sky. However, when you trace back their flight path, they seem to originate from Orion.

Sharon: Would you see any colors in the stream or would it just look white?

Moderator Mitzi: Meteors do have different colors when they burn up, sometimes red, sometimes green, sometimes white.

nipercris145: hi! i'm in NY what time can i see it?

Moderator Mitzi: The best time to view any meteor shower is after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m. The predicted peak varies from shower to shower.

moorer1: I am in Roswell Georgia. What time should I be watching?

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Moderator Mitzi: The best time to view any meteor shower is after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m. The predicted peak varies from shower to shower.

RichS555: wait so I should be looking to the southeast?

Moderator Mitzi: Lie on your back and look straight up. The naked eye is best because you want your field of vision to be as wide as possible.

Tj: Are the Orionids the result of dust from a particular comet?

Moderator Mitzi: Yes, Halley's Comet.

Rmschagrin: What is approximate time for visibility in Northern CALIFORNIA?

Moderator Mitzi: The best time to view any meteor shower is after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m. The predicted peak varies from shower to shower.

Moderator Brooke: What a great chat this continues to be. We're hearing from countries all over the world as Orionids reports continue to pour into our stream. Thanks for your patience as we answer your questions...

Kguzman: Hello, I'm in Belo Horizonte, Brazil. What time would be best for me to see the meteor shower?

Moderator Mitzi: The best time to view any meteor shower is after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m. The predicted peak varies from shower to shower.

Jt: its almost midnight in atlanta.. is it too early to go outside and take a look.. or should i wait until 2-3 am?

Moderator Mitzi: The best time to view any meteor shower is after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m. The predicted peak varies from shower to shower.

Nolimitromeo: Has any part of the shower been seen yet by NASA?

Moderator Mitzi: Yes.

Rom: i have an obstructed view and can only see mostly in the west, northwest direction, will i still be able to see the meteors

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Moderator Mitzi: You will still be able to see some meteors, but not as many as if you had a clearer view of the whole sky.

Greengreg: in the live screen are we looking into the constellation Cepheus?

Moderator Mitzi: Yes.

torid8: When will the next meteor shower be?

Moderator Mitzi: Leonids in November.

musicgirl6: have you seen any meteors yet tonight?

Moderator Mitzi: Yes.

torid8 What is the time that they are most visible in PA?

Moderator Mitzi: The best time to view any meteor shower is after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m. The predicted peak varies from shower to shower.

Laura08: When is the best time to view them in Edmonton, Alberta, Canada?

Moderator Mitzi: The best time to view any meteor shower is after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m. The predicted peak varies from shower to shower.

Kyle1701: Could the comet and it's meteors effect the atmosphere?

Moderator Mitzi: No.

Joni: hi, i'm in maryland. will i be able 2 see this meteor shower?

Moderator Mitzi: Yes.

Christopher_Hebert: Peak time for Kansas City?

Moderator Mitzi: The best time to view any meteor shower is after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m. The predicted peak varies from shower to shower.

Garyyy: Did i miss it? It's 4:44am london time

Moderator Mitzi: Go out and look now if it's clear.

Michelle: Between 3-6am is peak time on East Coast?

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Moderator Mitzi: Yes.

KMO: Where is Orion in the sky? Which direction?

Moderator Mitzi: East.

M: How many per hour can you expect?

Nolimitromeo: should we look towards the North Star?

Moderator Mitzi: Lie on your back and look straight up. The naked eye is best because you want your field of vision to be as wide as possible.

Jon83: I read this is from comet halie. But I though that comet wont be around for another 40+ years?

Moderator Mitzi: This is debris left by Comet Halley.

Ryan_F: Will I be able to see much from the city? I live in the suburbs and there is a lot of ambient light.

Moderator Mitzi: You might see the brighter meteors.

SunbWolf: what is the radiant of orion

Moderator Mitzi: This is the point from which the meteors appear to originate.

Jacob: do you know where jupiter might be in the sky

Moderator Mitzi: Jupiter is the brightest star-like thing in the sky right now.

Dee: Why have there been more meteors in the past few years in relation to previous years?

Moderator Mitzi: There haven't been.

Rod_W.: in the ustream live feed, why wouldnt it be centered on Orion and not polaris?

Moderator Mitzi: The camera is place in a position which is optimal for viewing the most meteors. We don't center it on Orion for the same reason you shouldn't look directly at Orion. The meteors can come from anywhere in the sky; it's only when you trace back their path that it seems they originate in Orion.

Jacob: will i be able to see the metors in my telescope

Moderator Mitzi: Don't use a telescope --- you want your field of view to be as wide as possible. The best way to do that is to view with your unaided eyes.

Jacob: does it have any threat to our planet earth

Moderator Mitzi: No.

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Greengreg: if polaris is just below the field of view, then is the screen pointed at the Cepheus constellation ?

Moderator Mitzi: Yes.

pair23: did you see any start trails already in the live feed?

Moderator Mitzi: Yes.

mern_c: I'm in central new jersey...When would be the best time to watch tonight?

Moderator Mitzi: The best time to view any meteor shower is after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m. The predicted peak varies from shower to shower.

bigal91: Where do i look up

Moderator Mitzi: Lie on your back and look straight up. The naked eye is best because you want your field of vision to be as wide as possible.

WarEagleIU: Have you seen any yet??

Moderator Mitzi: Yes.

RJH86: what time is it in huntsville

Moderator Mitzi: 1:10 a.m. CDT.

Pike: How many meteors are expected to be seen?

Moderator Mitzi: 20 per hour.

just_diz: what time is the peak time in indiana?

Moderator Mitzi: The best time to view any meteor shower is after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m. The predicted peak varies from shower to shower.

Jkil: what do you mean by peak? is that when there'll be the most meteors?

Moderator Mitzi: Yes.

Tomburn: i live in toledo ohio when should i look?

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Moderator Mitzi: The best time to view any meteor shower is after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m. The predicted peak varies from shower to shower.

Hunter: Where is Orion in the night sky? I'm in DC.

Moderator Mitzi: In the east.

Tbui: So do the dust trails have the same orbit as the comet?

Moderator Mitzi: Clumps of dust that were released from the comet as it got close to the Sun are in the same orbit as the comet.

Hellohainihao: Is it best to go outside to witness the shower?

Moderator Mitzi: Yes. Away from city lights.

Katelyn: What time is the shower estimated to end? Is there a specific time, or is it just when the sun rises?

Moderator Mitzi: There is no specific time and you could still see some tomorrow night, but yes, the sun rising will make the sky too bright to see any meteors.

TimKiManby: how many meteors are expected to be seen?

Moderator Mitzi: 20 per hour.

ina2bob: Hi - I'm near the north FL coast and about a half hour ago saw what I think was a meteor, but I've never seen one like this before. It moved low across almost the full horizon and was visible for about 5 seconds. It looked like a glowing flock of geese in a V-formation (really, but it wasn't). Was that some kind of a large meteor?

Moderator Mitzi: I don't know. From what you've told me, there are some meteors that can be seen for a long period of time. Wish I'd seen it.

Hgultch: Have there been any sightings in the US yet tonight?

Moderator Mitzi: Yes.

SunbWolf: The livestream just went white then black, is the camera malfunctioning?!?

Moderator Mitzi: Looks fine here.

Joni: where is orion in conjunction to the big dipper

Moderator Mitzi: South and east.

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LoveNasa: First thnx for this live feed! I'm in Holland Can i see the shower?

Moderator Mitzi: If it's still dark, yes. If not, try again tomorrow morning. But you're welcome for the feed.

saddy16: can they be seen with the naked eye, but not as well if I were using a telescope, right?

Moderator Mitzi: You should not use a telescope because it narrows your field of view. The best way to view meteor showers is with the unaided eye.

Helennn: Can you tell me the name of the brightest star on the live streaming??

Moderator Mitzi: Gamma Cephei or Errai.

Harrison: I am in the UK and worried I have missed it, what time was/would be best to see them here?

Moderator Mitzi: Try again tomorrow morning.

Helennn: Can you tell me the name of the brightest star on the NASA live streaming??

Moderator Mitzi: Gamma Cephei or Errai.

MEHA: i just went out no lights and seen stars but no falling what way to i look

Moderator Mitzi: Lie on your back and look straight up. The naked eye is best because you want your field of vision to be as wide as possible.

Laura08: where is orion in the sky?

Moderator Mitzi: In the east.

O3NeonSXT: My deck in my back yard is pointing east. I can see the little dipper pretty clearly, which direction should i be looking to see these. My 4 year old is freaking out.

Moderator Mitzi: Lie on your back and look straight up. The naked eye is best because you want your field of vision to be as wide as possible.

Rosette19: hello why is no one answering?

Moderator Mitzi: Sorry, we're trying to get to everyone as quickly as we can.

becca2921: do the meteriors travel all sorts of directions or do they just go across the sky in one diorection

Moderator Mitzi: They will appear from many directions.

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mw215: The view on my deck is obstructed a bit by row homes but I do see what seems to be a large and extremely bright star. Am I looking in the right direction?

Moderator Mitzi: You're probably looking at Jupiter and that is the direction to find Orion. But don't look at Orion --- look straight up.

Kevin: i read that the last time we were able to see the actual comet itself was in 1986 or so- and that we won't see it again for another 50 years. How come we can't see the comet now?

Moderator Mitzi: Because the comet is moving in the solar system in its orbit the same way we move in our orbit and the comet is now very far away.

Giri: I am in Greenville SC. Not visible here. Shoud I look towards east ?

Moderator Mitzi: Lie on your back and look straight up. The naked eye is best because you want your field of vision to be as wide as possible.

Dg: I understand that this is an annual event. Does the intensity remain the same or does it vary from year to year?

Moderator Mitzi: It varies from year to year.

Robert_in_SD: Is there a site that would show me where to look at and what im looking at.

Moderator Mitzi: Try earthsky.org

Fabiana: how many meteors are expected for hour? Love from Venezuela!

MacOverAll: Mitzi, from an angle of view perspective, how high would an event need to be in order for NY and FL to see at same time in the sky vs. how high the meteor is impacting/burning in atmosphere?

Moderator Mitzi: It's unlikely for the same event to be visible from both New York and Florida at the same time, but the meteors are impacting the atmosphere between 40 and 60 miles up.

Chefjohn: do you know where orion is located on your live feed page

Moderator Mitzi: Orion is not on the live feed page.

Afaltersack: If we're trying to get a closer glimpse through a telescope, what's the best coordinates to set around it's orbital path?

Moderator Mitzi: You don't want to use a telescope to view a meteor shower. You want a wide field of view, so the naked eye is best.

Mojojojo: please help, im really excited to se this, and i dont know how!!

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Moderator Mitzi: Lie on your back and look straight up. The naked eye is best because you want your field of vision to be as wide as possible.

Apple: is that jupiter in the live feed?

Moderator Mitzi: No, it's Gamma Cephei, or Errai.

M3: Is there any way to move the camera to a different view? Ive been watching awhile now and havent seen a single one :(

Moderator Mitzi: No, we can't move the camera --- it's actually being used for research as well as for all of us to see meteors.

Junior: im in texas and im ten do you know what time it happens here

Moderator Mitzi: The best time to view any meteor shower is after midnight local time. Local time is the time where YOU are. The Orionids radiant rises around 10:30 local time. The peak is between 3 and 6 a.m. The predicted peak varies from shower to shower.

Lyrabsify: i thought the last time this happened was 26 years ago and the next time will be in 2061?

Moderator Mitzi: Halley's Comet, the comet itself, will be visible again in 2061, but the debris it left behind remains in orbit, ready for us to intersect once a year.

Melissasean: About 15 minutes ago I was watching, I saw, as best I can describe it, as a ball of light that slowly moved across the screen.. was that a meteor? or was it something else?

Moderator Mitzi: We didn't see that; we'll have to look at it later when we process the data.

JoeBlatz: I'm listening to the sky radar in Texas and the frequency of the pings (meteors) is starting to increase.

Moderator Mitzi: Cool!

Leester: I genuinly appreciate you doing this live chat with us Dr. NASA

Moderator Mitzi: We appreciate you being with us to share in this event.

Nicdez: How many meteors should i expect per hour?

Pequest_Pete: I think I saw one break into pieces.... kind of split apart ???

Moderator Mitzi: That's possible.

Vergilio: I am in South America I should look east, right?

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Moderator Mitzi: No, you should look up.

Newberrys HELLO??? CAN YOU PLZ ANSWER MY QUESTION...HOW FAST ARE THESE METEORS TRAVELING? OR DO YOU NOT KNOW?

Moderator Mitzi: 67 KM per second.

Astha: Hi Mitzi, how often do meteor showers occur per year? when is the next one?

Moderator Mitzi: There's a major shower roughly once a month. The next one is the Leonids in November.

Roxanne_B: when is the next meteor shower?

Moderator Mitzi: The Leonids in November.

ChezB: Just saw a big one with a long trail !! It was low in the east, heading to the horizon at an angle. I'm in Berkeley CA, with an obstructed view, and saw this after just 10 minutes of watching. Everyone get out there!

Moderator Mitzi: Great! Wish I was that lucky.

Moderator Brooke: We have about 15 minutes left in our chat. If you have questions for Mitzi, this is a great time to get those into the queue. We appreciate your patience -- we've had about 1,500 questions submitted in this chat tonight...

Markd: Hello, I'm in Australia, the sun is just setting now, are we supposed to see the same amount of meteorites as the rest of you, or will it be less?

Moderator Mitzi: There is some difference in the number of meteors you see depending on where you are.

bob34: Thank you :D

Moderator Mitzi: You're welcome.

Pameee: I am in central Florida, is the best time to view between 3am and 6am? I have been out for over an hour, laying down looking straight up and havent seen anything.

Moderator Mitzi: The peak will be between 3 and 6 a.m. and the probability of seeing a lot of meteors is high during that time.

Susan: Thank you, Mitzi, for sharing this universal experience !

Moderator Mitzi: You're welcome, Susan.

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Tomatoe: www.spaceweatherradio.com is the link for listening to the meteor shower. Please Post.

Moderator Mitzi: Okay, www.spaceweather.com is a great site for a lot of information about the solar system and beyond.

Mimi: I am in Tennessee. It's 2:45 AM. Can I see them here?

Moderator Mitzi: Yes, you should be able to see them.

redpy5: Does anyone know the next time the Orionid meteor shower is gonna come around.

Moderator Mitzi: About this time next year.

Randyb: that the comet is far away but is it possible to see it now? the reason i ask is because there is something in the sky the is flashing blue red and white and it has been there for 4 hours. i have tried to use the telescope but it doesnt come in clearly, i am recording it and have taken pictures thru the telescope and video thru the telescope. could it be the comet?

Moderator Mitzi: No. The comet is a long way away.

Matt_Harvey: Will there be more meteors tomorrow night or is tonight the last of them?

Moderator Mitzi: It's possible to see more tomorrow night.

Jonny: i have been outside for over 2 hours and have seen at least a dozen! thanks its a great experience!

Moderator Mitzi: Fantastic!

Wes: Is the ISS in any danger since it is moving into the path of the shower?!?!?

Moderator Mitzi: The ISS has a shield that protects it from objects up to an inch in size.

Arsebiscuits: I'm in Los Angeles, which direction is the best to look? Thanks :D

Moderator Mitzi: Straight up.

star_gazer: Halley's Comet will be visible to Earth again...when?

Moderator Brooke: Third Rock Radio: <http://www.rfcmedia.com/thirdrockradio/> (you can click Contact and request tonight's playlist)

Ambrosity: Is it possible to see the meteors if you live near a city?

Moderator Mitzi: Yes, but the brighter it is, the fewer meteors you will see. And only the very brightest.

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Moderator Brooke: <http://www.flickr.com/groups/orionids/> This is the Flickr group for images of the 2012 Orionids shower. If you have great images, we'd love to see them.

Moderator Brooke: Finally, a lot of questions about the Ustream feed for tomorrow night. We'll re-activate the Ustream feed tomorrow night, but there won't be a chat or moderated comments. The Ustream social feed will be active, so you can chat with other viewers. During the day, the feed will just be a gray box on the page. The camera is activated at dark. There WILL be Orionids visible tomorrow night, just at a lower rate than tonight's peak.

Tomatoe: Thank you Moderator Mitzi. I am an avid Meteor Shower watcher for 40 years. It is a great event I like to share with people around the world. Someone needs to centralize and organize these events, write an FAQ, and have a live panel discussing the live meteor shower. Can U make that happen Moderator Mitzi?

Moderator Mitzi: You are welcome. We'll do our best to make these events as dynamic and interesting as they can be.

Oscar: Thank you Mitzi and Brooke...:)

Moderator Brooke: You're very welcome, Oscar. It was our pleasure.

HossBud: Oh my I finally got it to work, now it looks like it's time to call it quits. I just wanted to ask if that was Venus shining very brightly next to what seems to be Mars above Orion?

Moderator Mitzi: Venus is not up yet. The brightest that you might be seeing is Jupiter.

Shelley: Thanks for doing this chat with us Mitzi and Brooke :)

Moderator Mitzi: You're welcome!

Moderator Brooke: Thanks for being here, everyone. This concludes our Orionids chat. Mitzi, thank you so much for staying up late to answer all of these great questions. Everyone have a nice weekend...what's left of it. ☺

Xeju: Yes, and thanks a bunch, moderators!

Moderator Brooke: You're very welcome! ☺ Thank you for being here.