Meteor Shower

Meteor: a meteoroid enters the atmosphere and glows due to friction.

Meteor Shower: meteors radiating from a single point in the sky.

"Be a responsible stargazer • Enjoy the meteor shower" Campaign

Know more: http://nightsky.physics.hku.hk/KE/201718/
Geminids 2017

Duration: Dec 4-17

For Hong Kong:
Best time to see: Midnight - 5am, Dec 14 (HKT)
Expected max. no. of observable meteors per hour
urban 1  rural 30

"Be a responsible stargazer • Enjoy the meteor shower" Campaign
know more: http://nightsky.physics.hku.hk/KE/201718/
Number of Observable Meteors

120 meteors per hour?

ZHR ≠ 120!!

An idealized figure!

Actual number of meteors affected by many factors, e.g., light pollution

Serious light pollution in Hong Kong

Number of meteors reduces dramatically

“Be a responsible stargazer • Enjoy the meteor shower” Campaign

know more: http://nightsky.physics.hku.hk/KE/201718/

Icons made by Smashicons, Freepik, SimpleIcon from www.flaticon.com
Zenithal Hourly Rate
ZHR

To achieve the ideal ZHR:

- Experienced observer with excellent eyesight and totally dark-adapted eyes
- Observe at peak hours @ place with unobstructed field-of-view
- Radiant at zenith
- No light pollution

"Be a responsible stargazer • Enjoy the meteor shower" Campaign

know more: http://nightsky.physics.hku.hk/KE/201718/
Tips for Viewing the Shower

Time: Good weather

Place: Stay away from light pollution

Gear: Proper stargazing manners

Best time to see in Hong Kong:
Dec 14 Midnight - 5am (HKT)

Open space with wide field-of-view

No telescope needed!

“Be a responsible stargazer • Enjoy the meteor shower” Campaign

know more: http://nightsky.physics.hku.hk/KE/201718/
 Proper Stargazing Manners

- No powerful lighting or flash
- Use red light torches
- Take your litter home
- Protect Mother Nature

“Be a responsible stargazer • Enjoy the meteor shower” Campaign

know more: http://nightsky.physics.hku.hk/KE/201718/
Lighting Fixtures causing Light Pollution

Improper lighting direction

Abusive lighting

Intrusive signboard / LED wall

“Be a responsible stargazer • Enjoy the meteor shower” Campaign

know more: http://nightsky.physics.hku.hk/KE/201718/
Report Bad Lighting Fixtures

1. Look for poor lighting fixtures
2. Take photo
3. Record location/share location in Facebook
4. Post to Facebook with hashtags #ResponsibleStargazer #MeteorShower

“Be a responsible stargazer • Enjoy the meteor shower” Campaign

know more: http://nightsky.physics.hku.hk/KE/201718/
"Be a responsible stargazer • Enjoy the meteor shower" Campaign

Post photos of yourself enjoying the night sky with proper stargazing manners to Facebook

Post to Facebook with hashtags
#ResponsibleStargazer
#MeteorShower

“Be a responsible stargazer • Enjoy the meteor shower” Campaign

know more:
http://nightsky.physics.hku.hk/KE/201718/