

# Seismic and acoustic waves from the 2014 ‘Interstellar Meteor’



Benjamin Fernando (Johns Hopkins University)  
Pierrick Mialle, Göran Ekström, Constantinos Charalambous, Steve Desch, Alan  
Jackson, Eleanor Sansom, Sara Russell, Giles Miller, Isla Nicolson

# The 2014 ‘Interstellar meteor’

Science

broug  
Johns Hopk

NEWS | EARTH

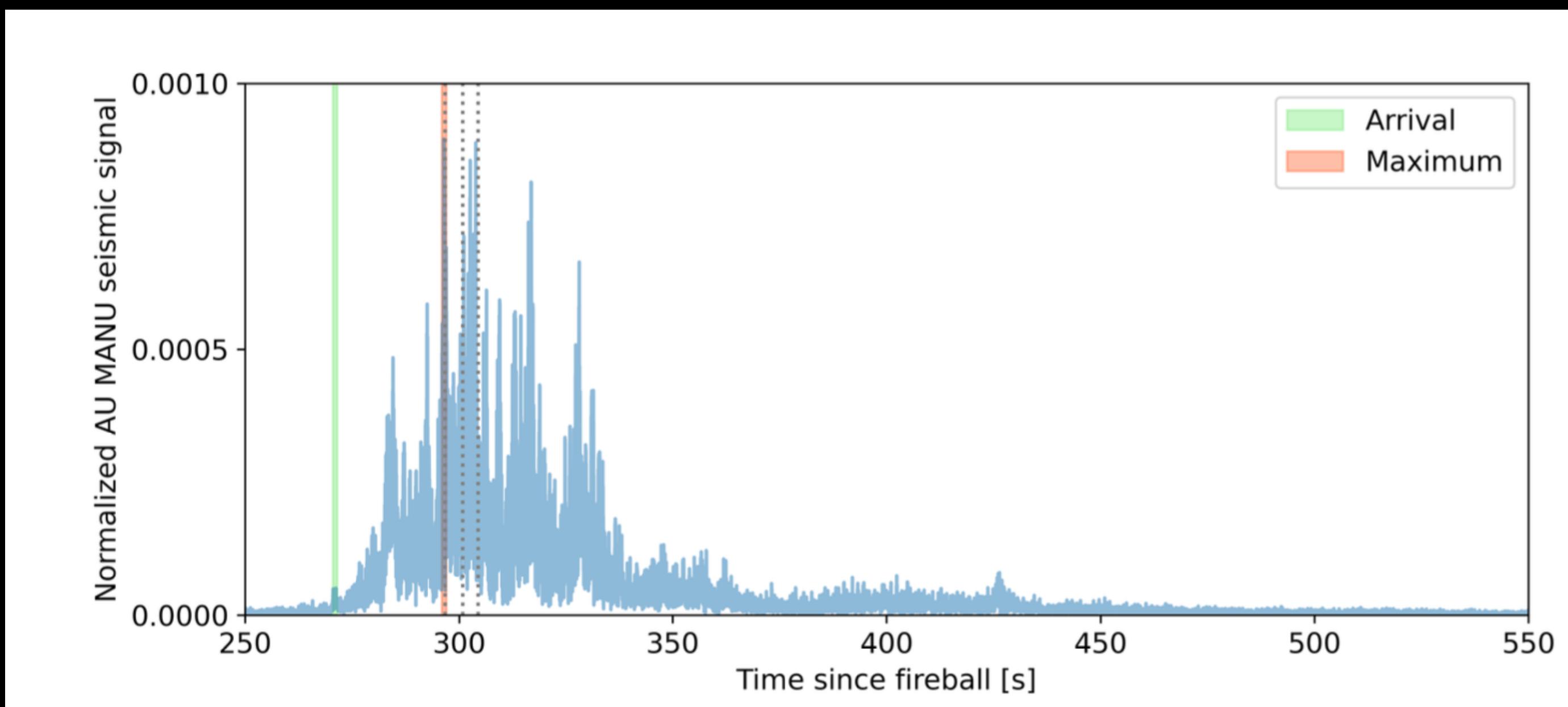
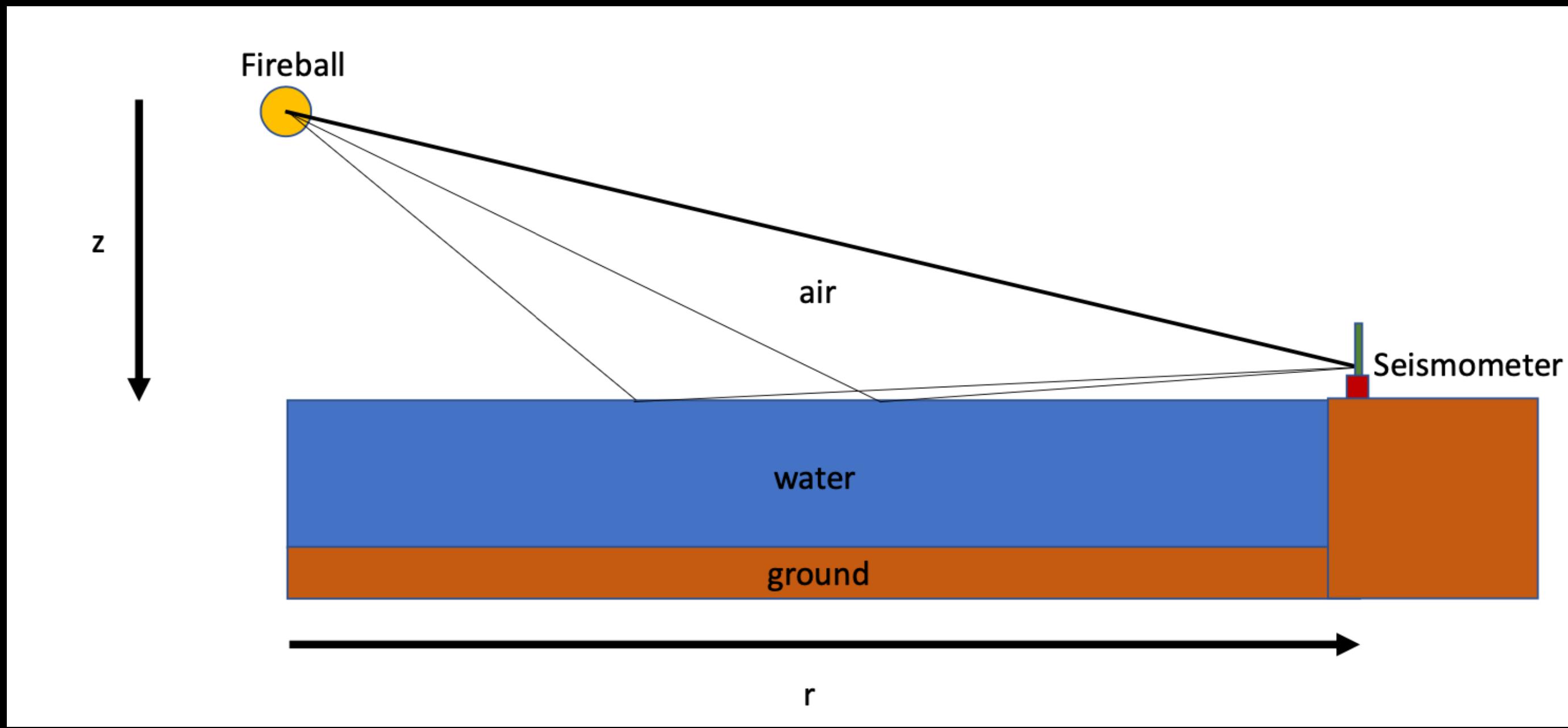
## Did interstellar debris fall to the sea floor? Claim meets sea of doubt

Controversial astrophysicist says metallic spheres are alien, but others say it is “nonsense”

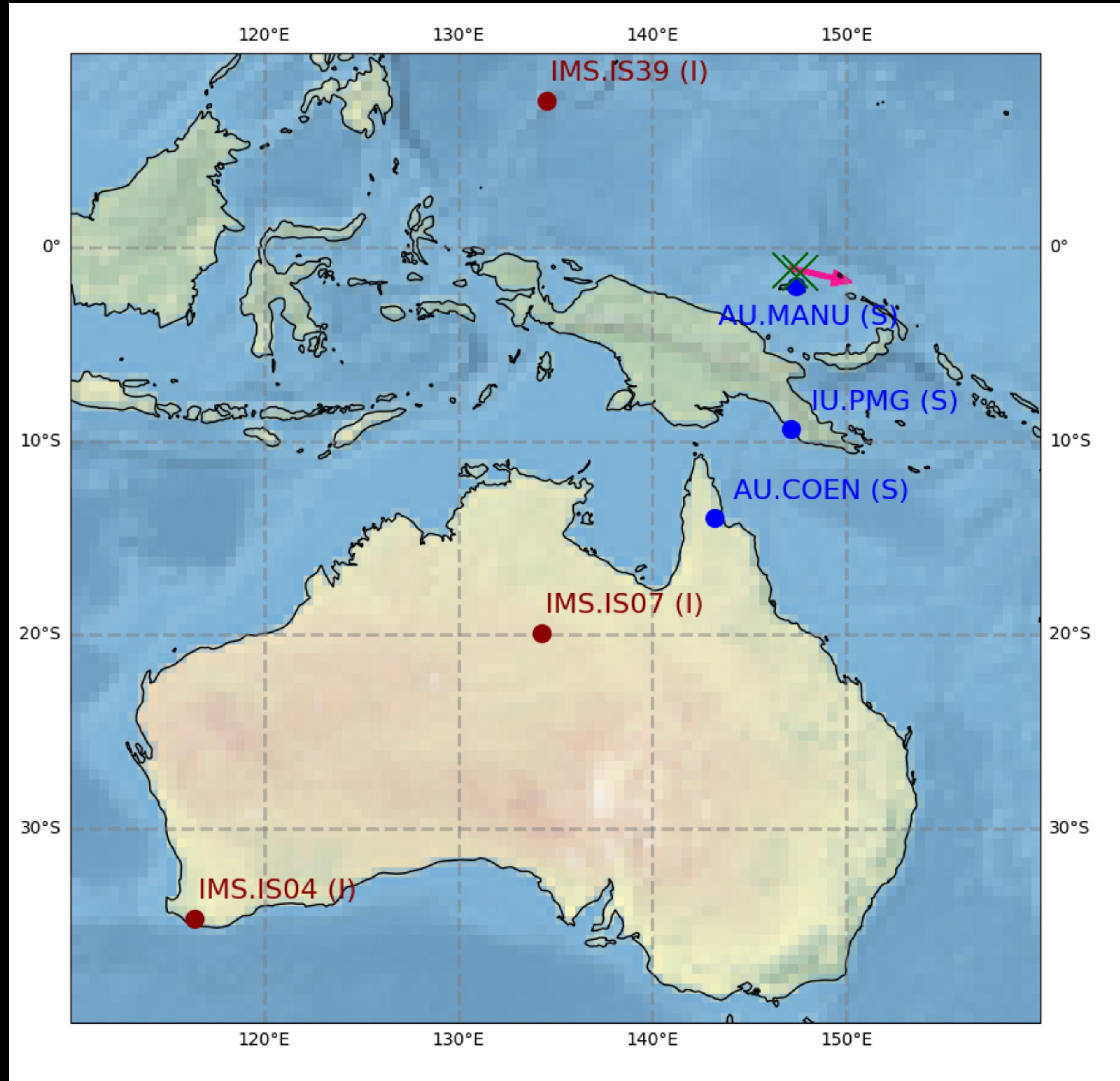
30 AUG 2023 • 5:10 PM ET • BY DANIEL CLERY, PAUL VOOSSEN



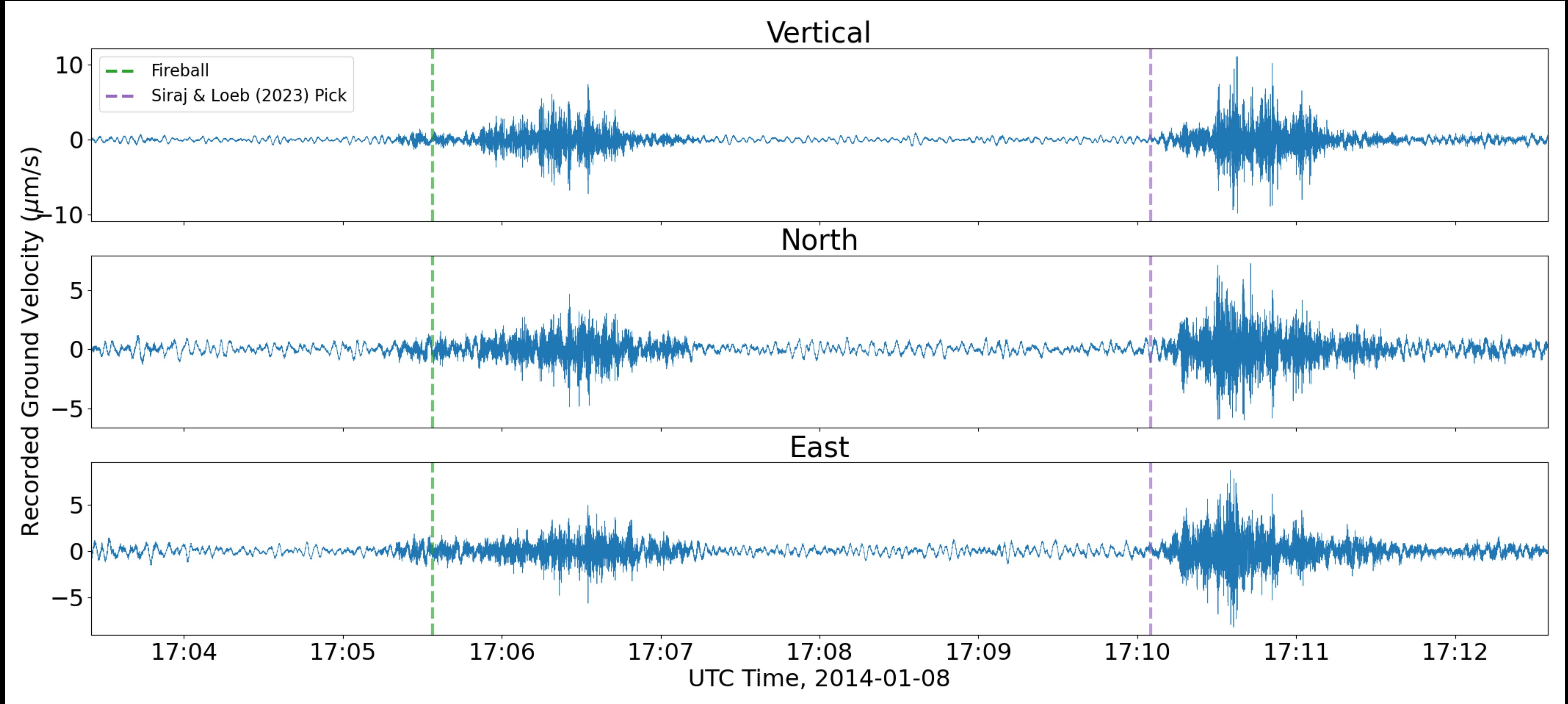
# The 2014 ‘Interstellar meteor’



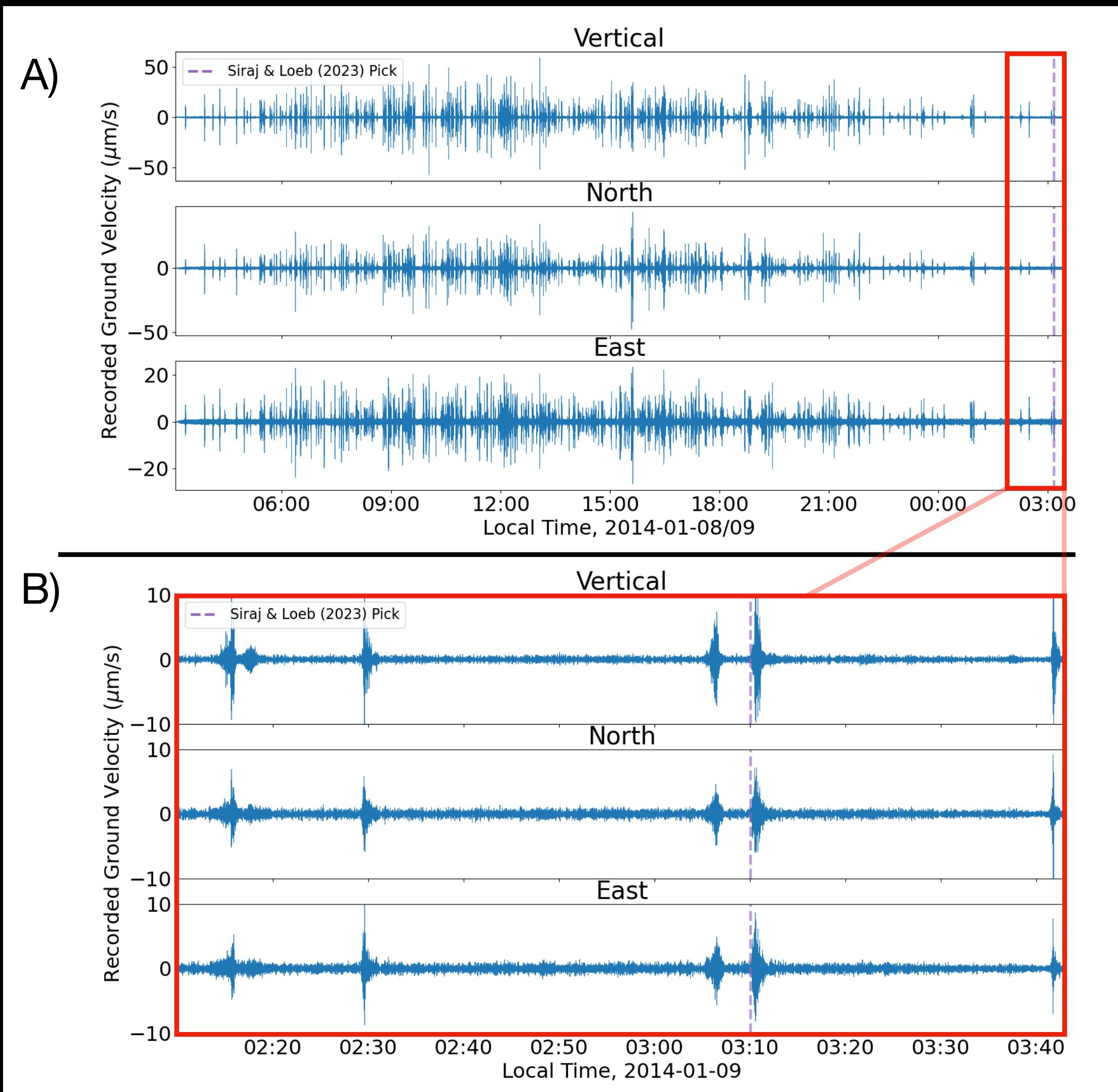
# The 2014 ‘Interstellar meteor’



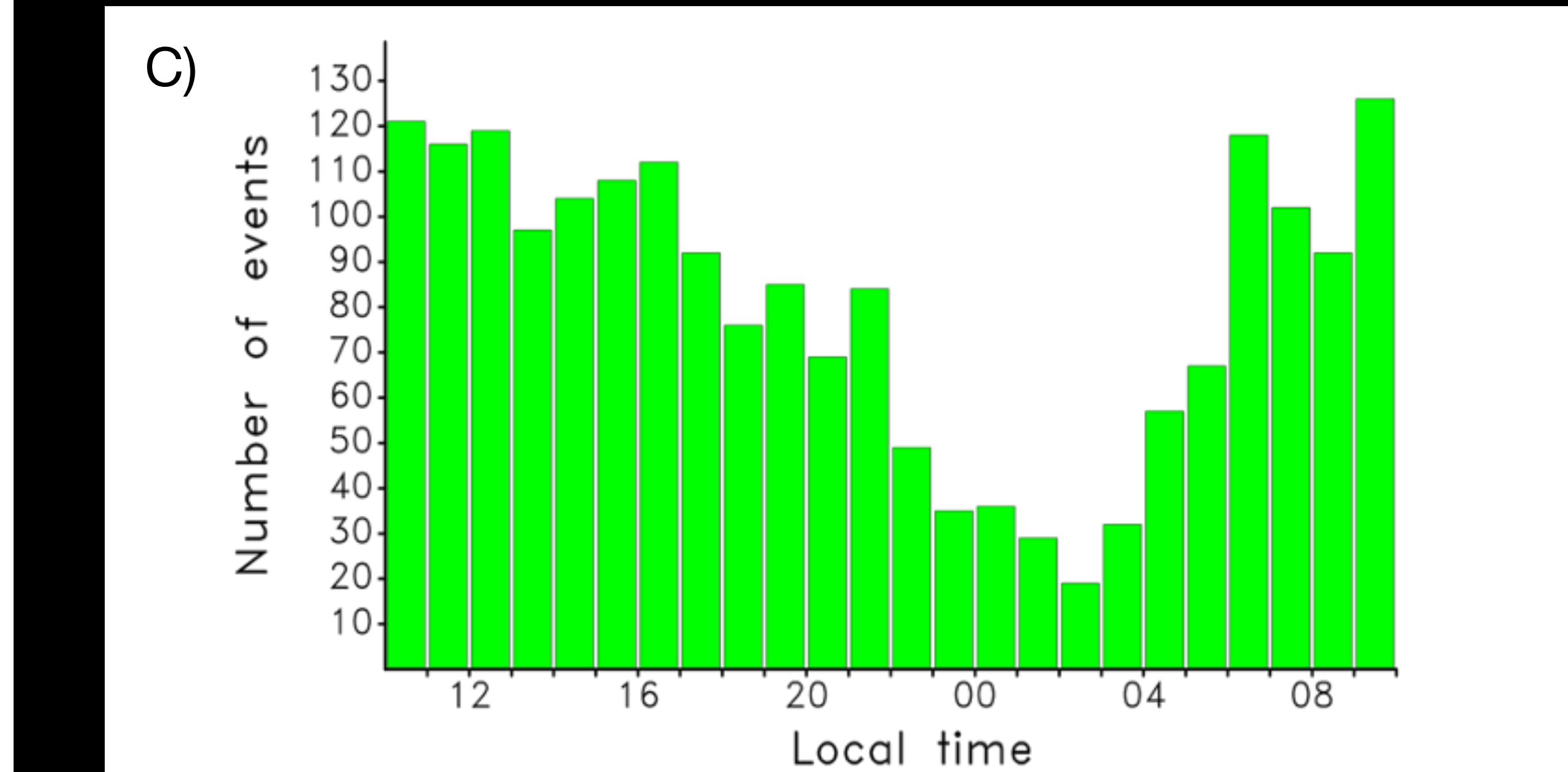
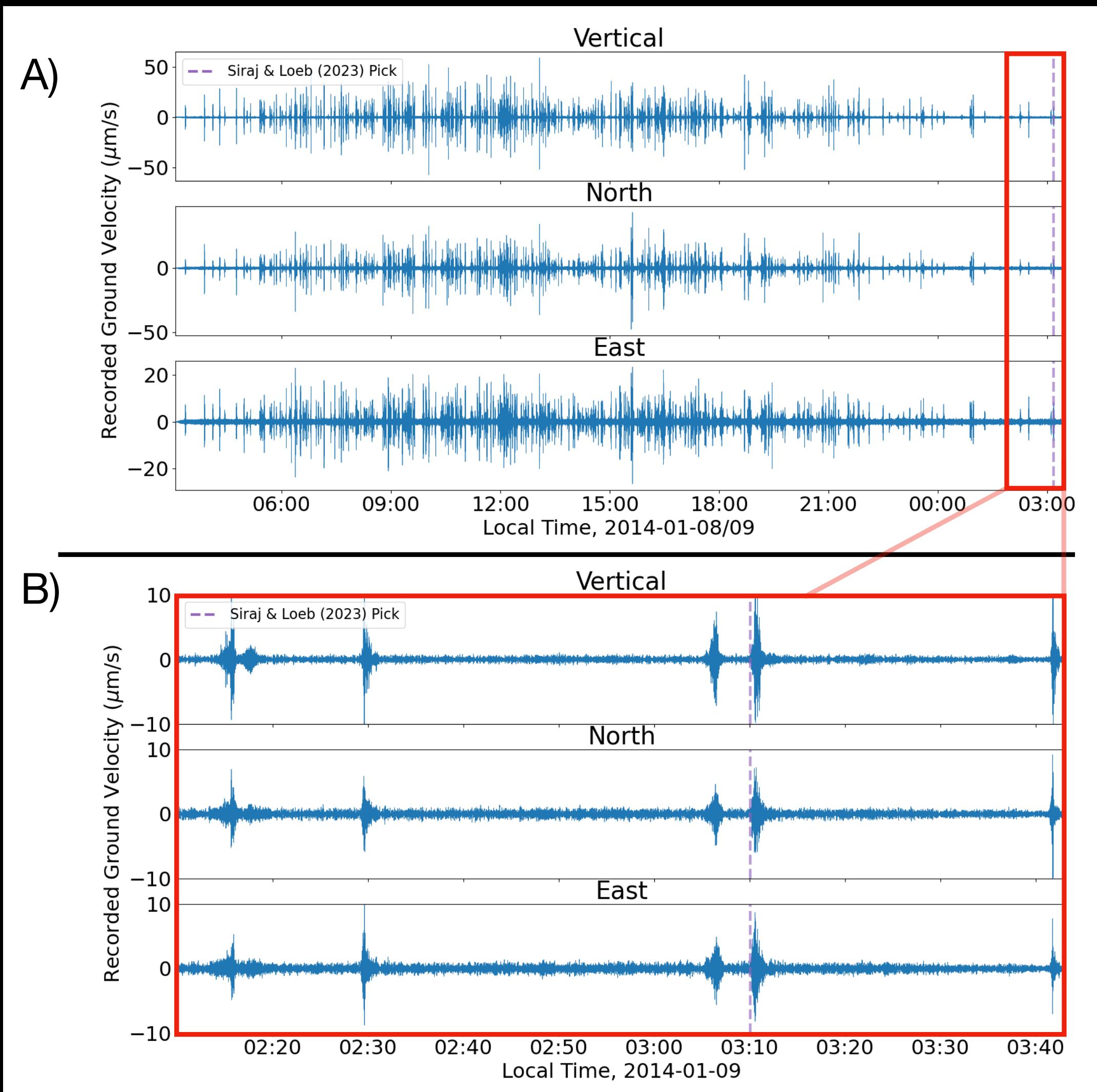
# Seismic analysis



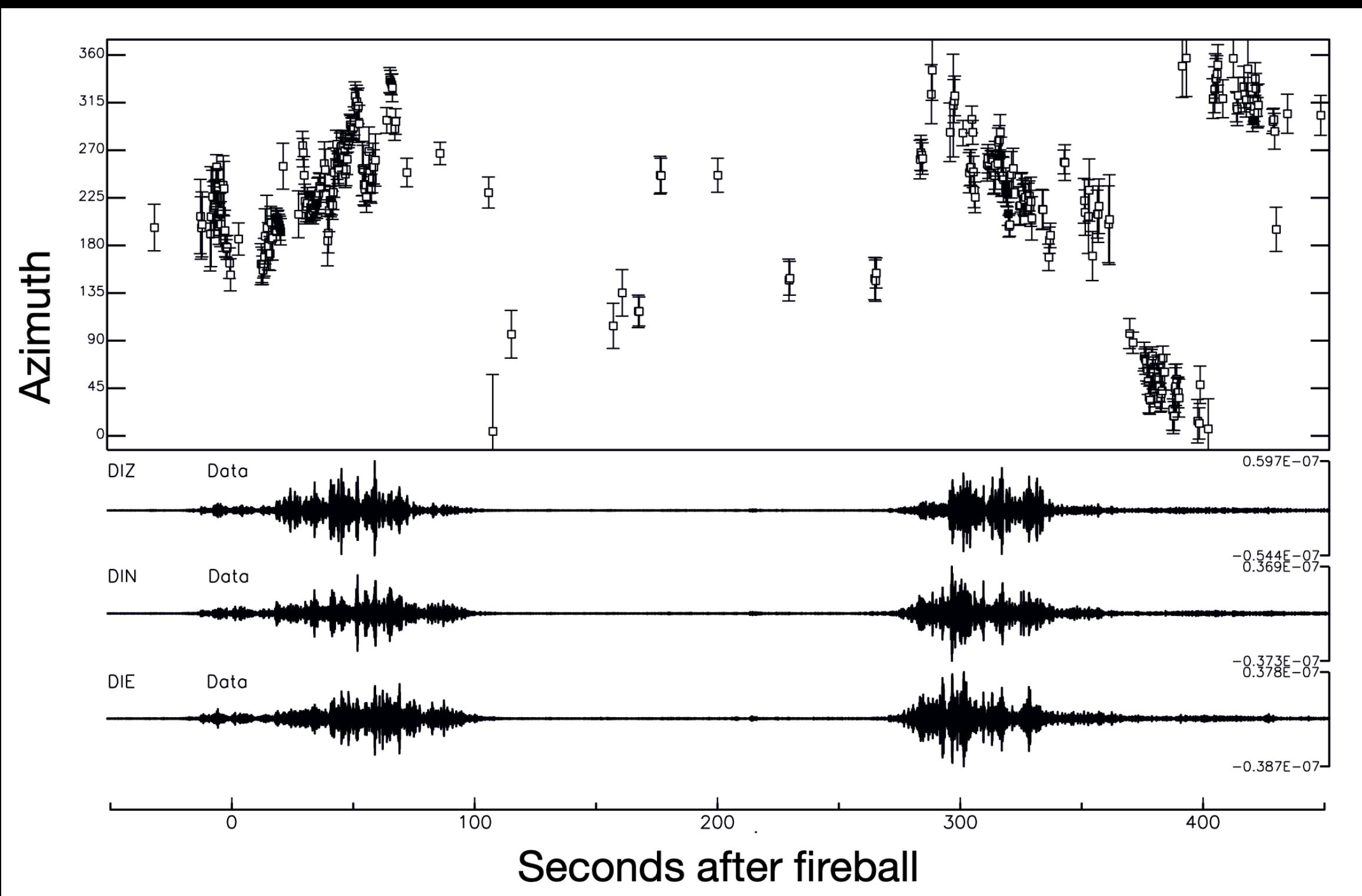
# Seismic analysis



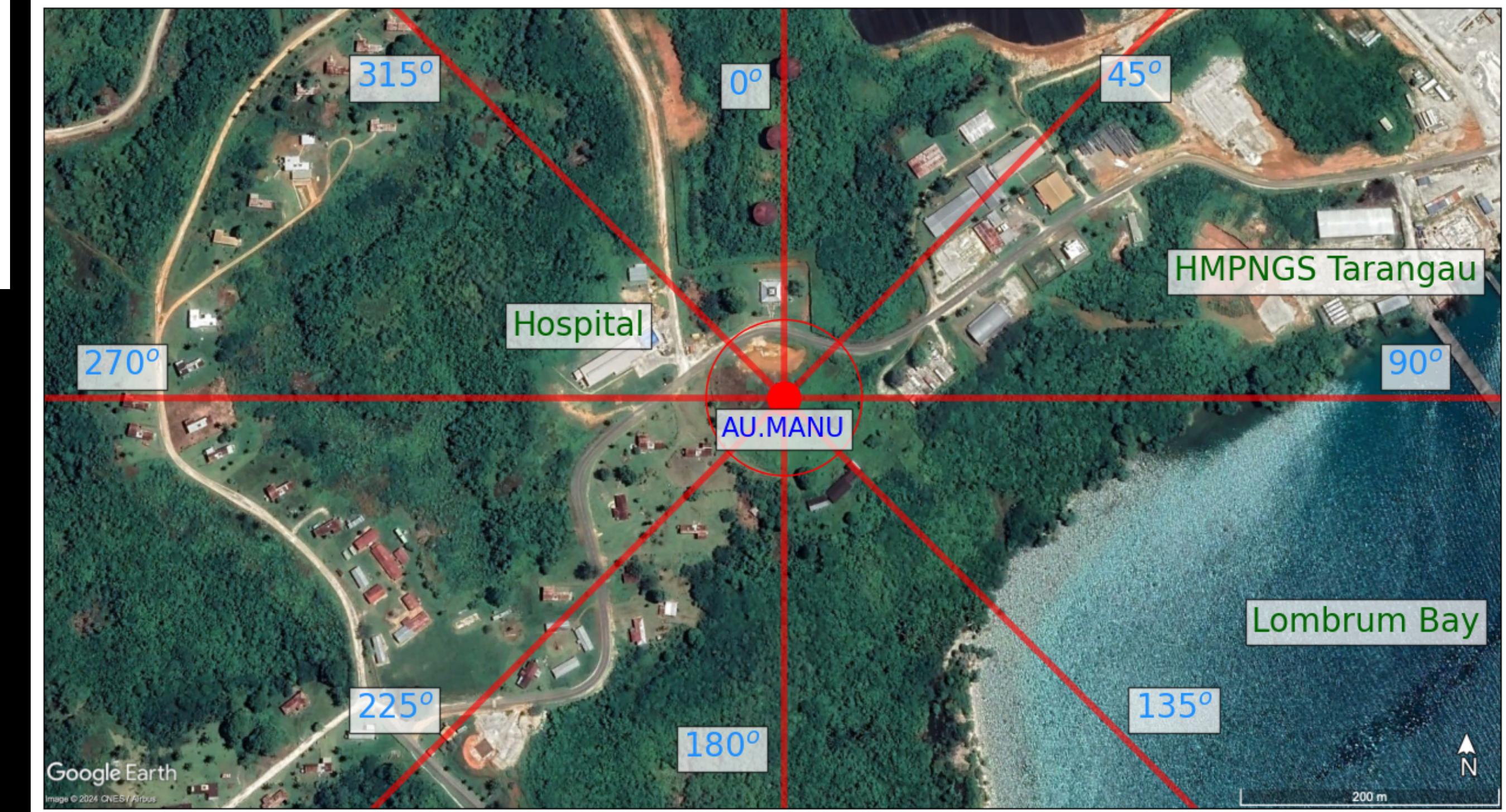
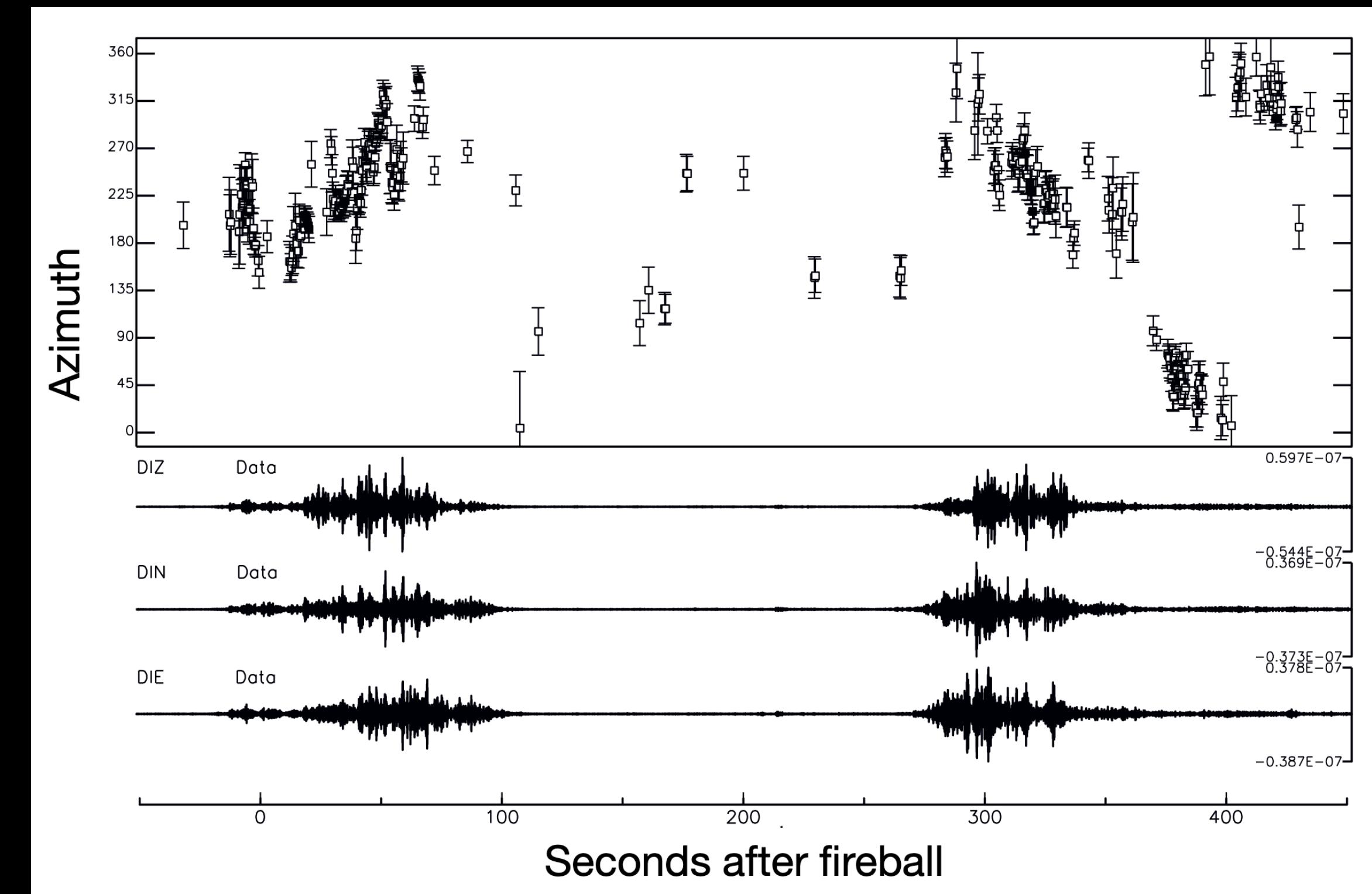
# Seismic analysis



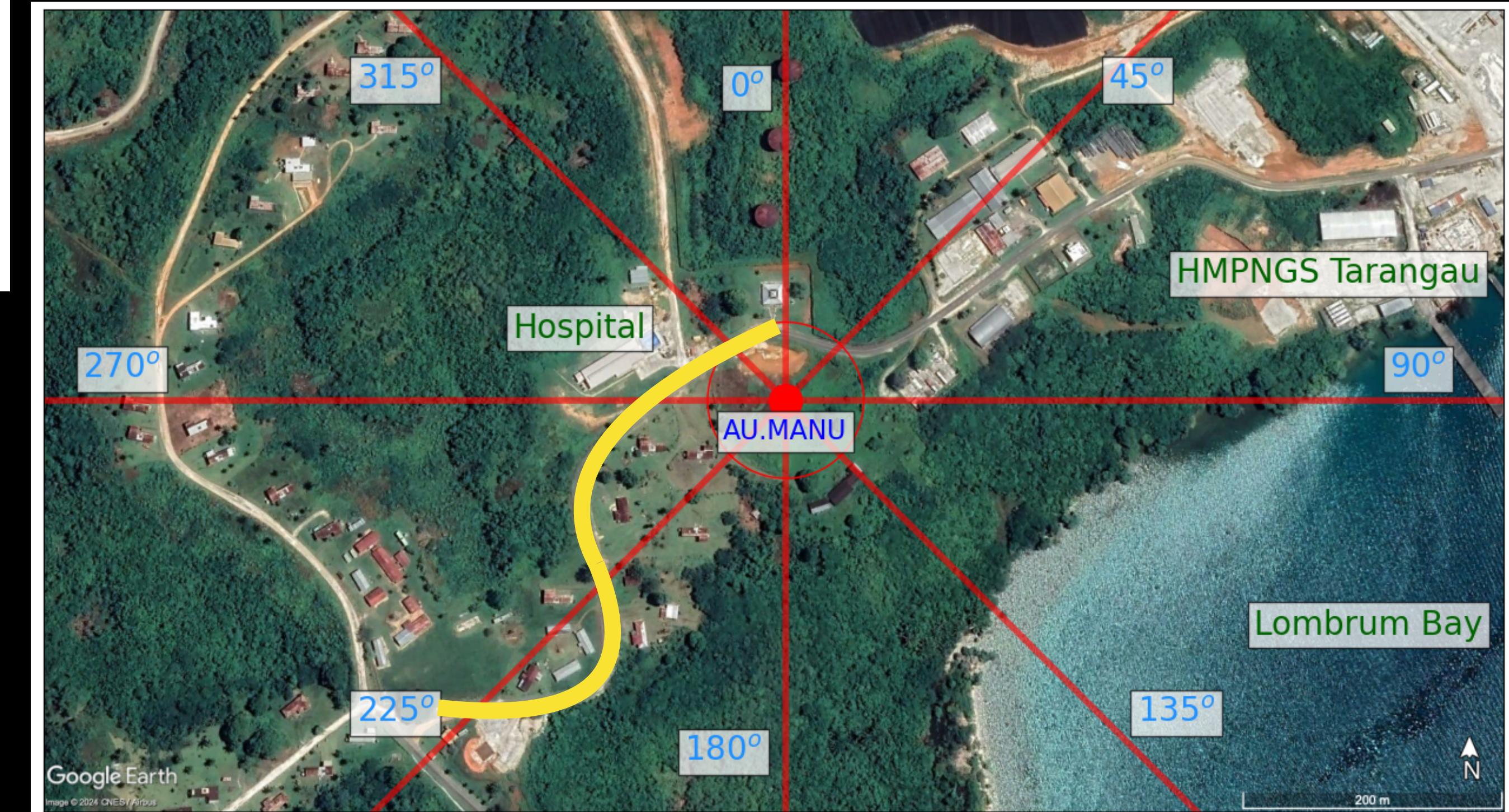
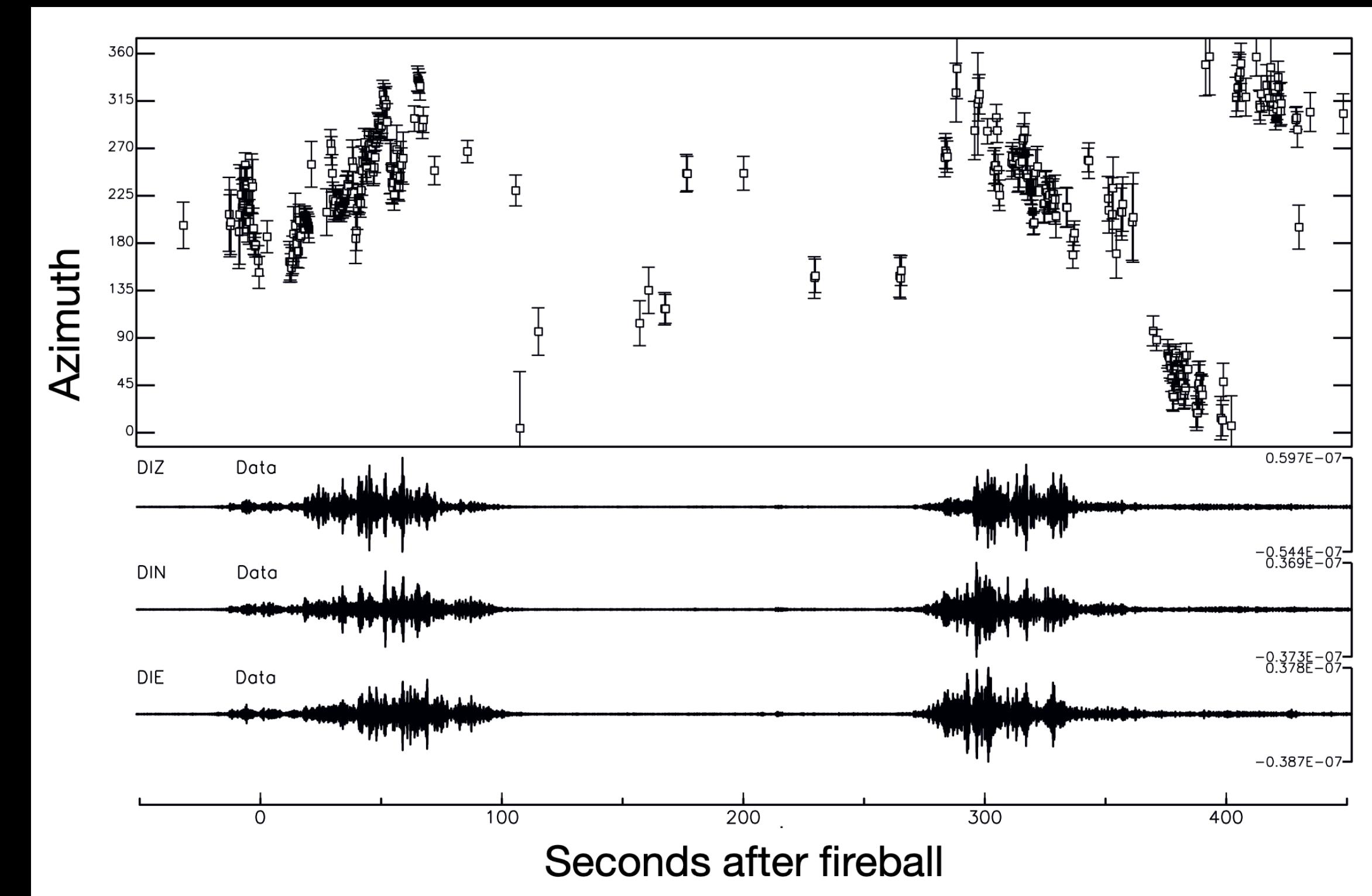
# Seismic analysis



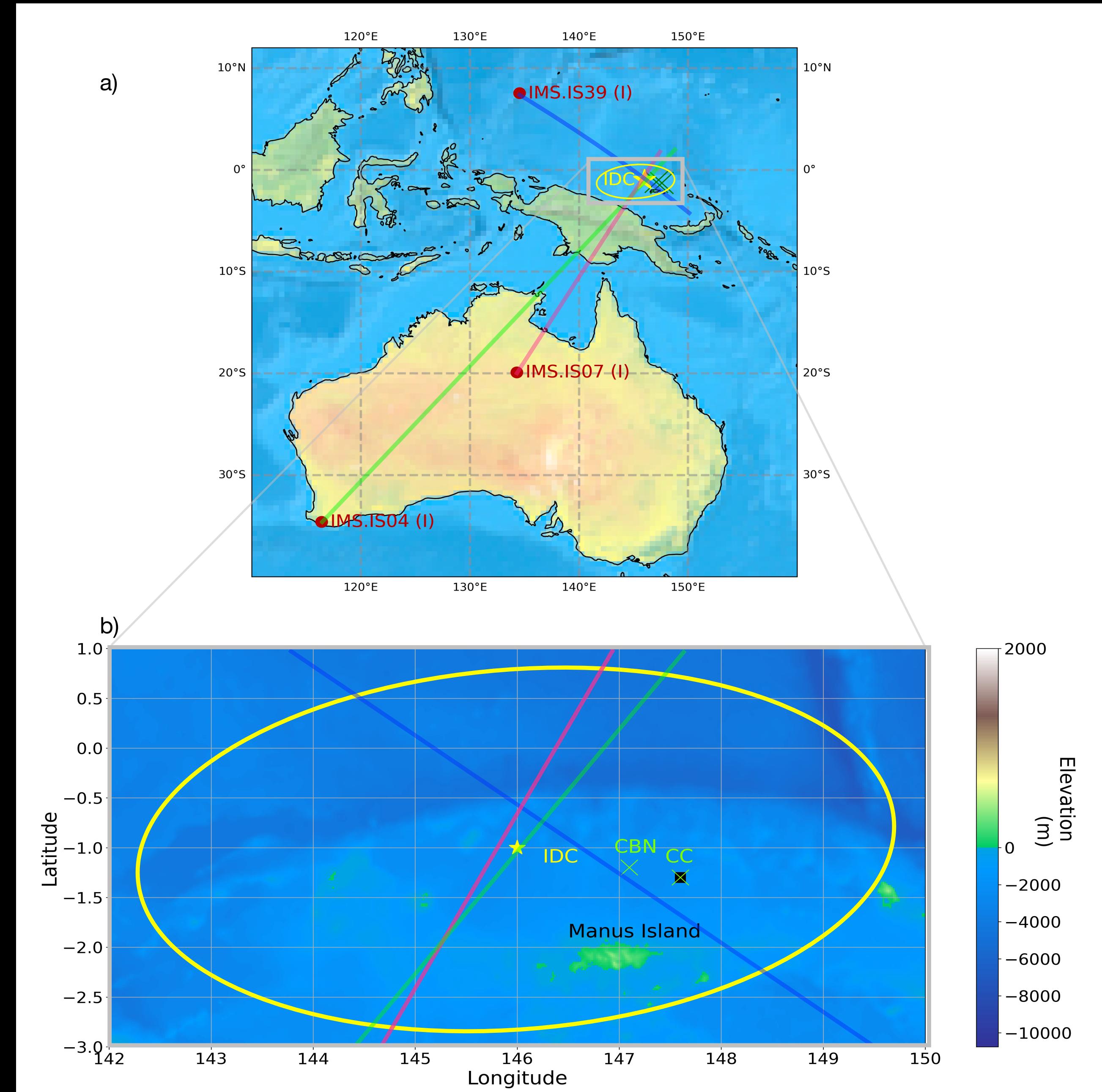
# Seismic analysis



# Seismic analysis



# Infrasound analysis

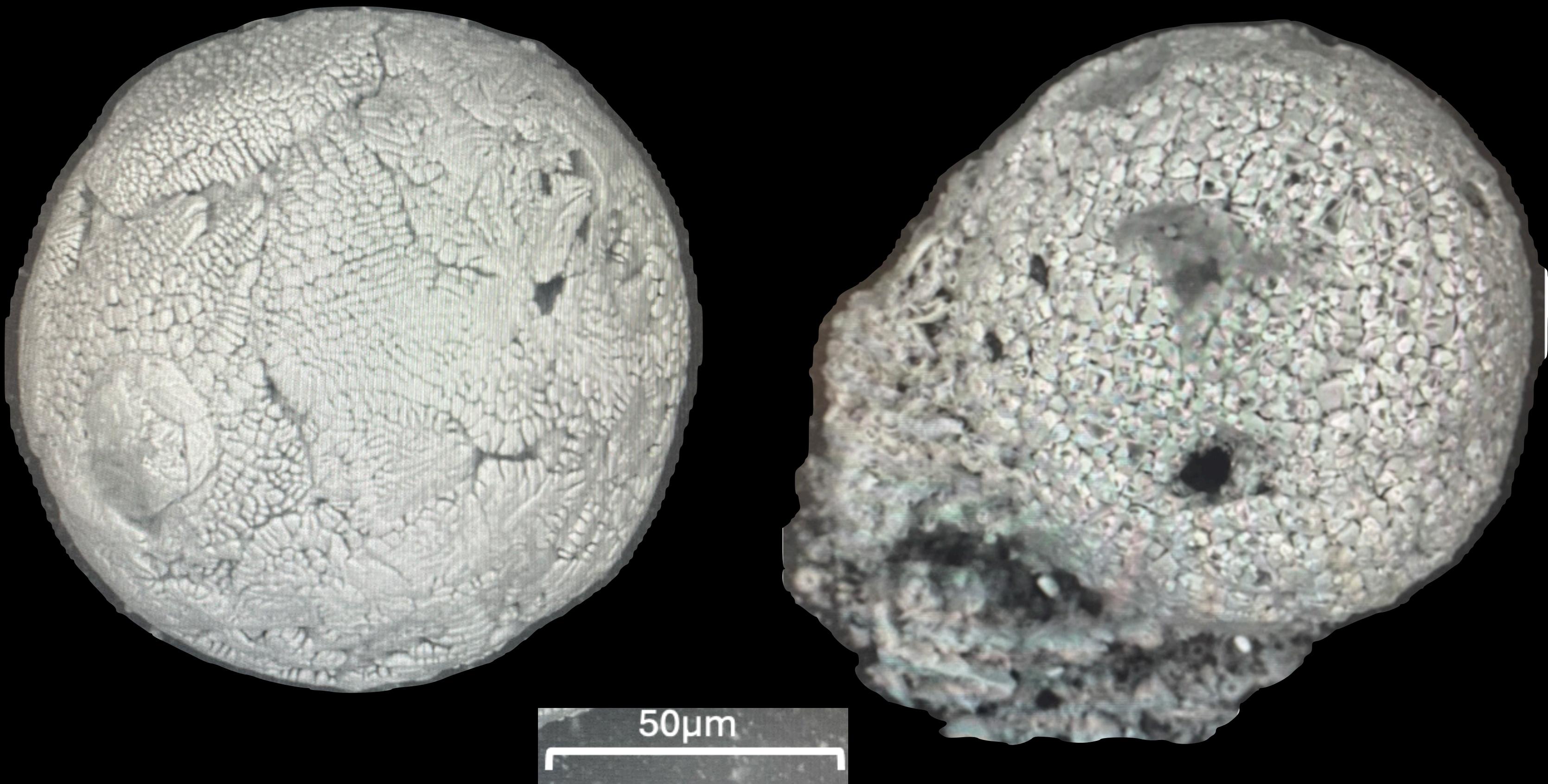


# Control sample analysis

# Control sample analysis



# Control sample analysis



# Press coverage

The New York Times

## Surprise: An ‘Extraterrestrial’ Gadget Was Something More Familiar

In 2014 a fireball from outer space was posited to be an alien artifact. A recent study suggests otherwise.

[Share full article](#) [Email](#) [Bookmark](#)



Abraham “Avi” Loeb, a Harvard University astrophysicist, displaying a tube containing geological fragments recovered from the bottom of the Pacific Ocean in August 2023. Anibal Martel/Anadolu Agency, via Getty Images

By Matt Richtel

Published March 11, 2024 Updated March 13, 2024

Privacy Policy | Feedback FOLLOW 22.7M Monday, Mar 18th 2024 10 AM 45°F 11 AM 46°F 5-Day Forecast

DailyMail.com

## Science & Tech

Home | Showbiz | Femail | Royals | Sports | Health | Wellness | Science | Politics | Money | U.K. | Video | Travel | Puzzles | Shopping

Latest Headlines | NASA | Apple | Twitter | Games

Login

ADVERTISEMENT

### EXCLUSIVE Extraordinary row breaks out between Harvard, Johns Hopkins scientists over origin of mystery object that came from outer space

A Johns Hopkins-led team has calculated a new crash impact site for the object  
Study used infrasound sensors in place to enforce bans on nuclear weapon tests  
[READ MORE: Metals found in Pacific ARE ‘alien’ objects, Harvard physicist says](#)

By MATTHEW PHELAN SENIOR SCIENCE REPORTER FOR DAILYMAIL.COM  
PUBLISHED: 07:48 EDT, 16 March 2024 | UPDATED: 07:52 EDT, 16 March 2024

[Share](#) [Email](#) [Print](#) [Facebook](#) [Twitter](#) [LinkedIn](#) [RSS](#) 28 59

DailyMail.com

ADVERTISEMENT

The Washington Post

Democracy Dies in Darkness

LIVE Election 2024 Middle East conflict

TRENDING Alzheimer’s drug MH370 mystery Akira Toriyama TikT

#### ALIENS AND UFOS

### Alien visits, UFOs, extraterrestrial tech? It’s all hearsay, Pentagon report finds

Claims about secret government programs reverse-engineering extraterrestrial technology were based on “circular reporting” and rumors, investigators found.

By Shane Harris and Dan Lamothe



(Getty Images)

### Sensational claim of possible alien debris hits a science speed bump

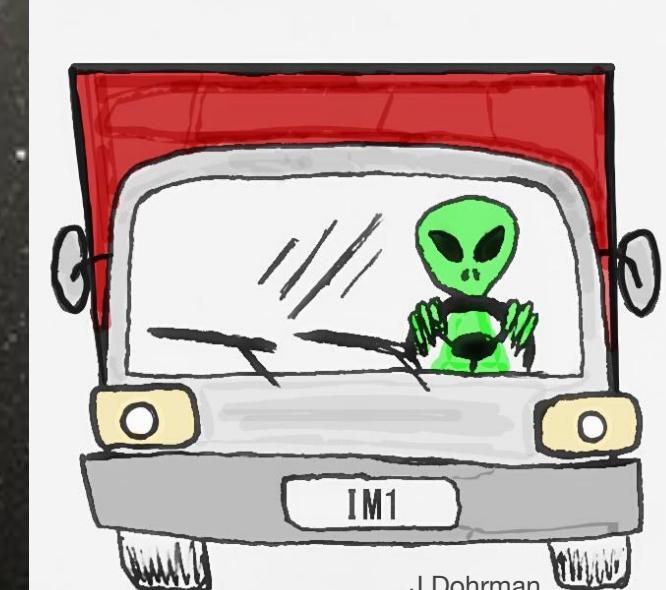
By Joel Achenbach • 1 hour ago

# Seismic and acoustic waves from the 2014 ‘Interstellar Meteor’

Fernando et al  
(2024, GJI)



**Benjamin Fernando (Johns Hopkins University)**  
**Pierrick Mialle, Göran Ekström, Constantinos Charalambous,**  
**Steve Desch, Alan Jackson, Eleanor Sansom, Sara Russell,**  
**Giles Miller, Isla Nicolson**



J Dohrman