

METEOR

Scope: These rules shall apply to this contract.

Underlying: The Underlying for this Contract is events caused by natural space objects detected by the Source Agencies that release energy of 10 kilotons TNT equivalent or greater in Earth's atmosphere or upon Earth's surface after Issuance and before <date>. Revisions to the Underlying made after Expiration will not be accounted for in determining the Expiration Value.

Instructions: The NASA JPL Center for Near-Earth Object Studies (CNEOS) Fireballs Database can be found at: <https://cneos.jpl.nasa.gov/fireballs/>. These instructions on how to access the Underlying are provided for convenience only and are not part of the binding Terms and Conditions of the Contract. They may be clarified at any time.

Source Agency: The Source Agencies are NASA's Jet Propulsion Laboratory Center for Near-Earth Object Studies (CNEOS), the European Space Agency's Space Situational Awareness Programme, the American Meteor Society, the International Meteor Organization, the U.S. Air Force, NOAA's Geostationary Lightning Mapper, the Comprehensive Nuclear-Test-Ban Treaty Organization's International Monitoring System, the Russian Academy of Sciences, and official government space agencies of any nation that reports a qualifying event.

Type: The type of Contract is an Event Contract.

Issuance: After the initial Contract, Contract iterations will be listed on an as-needed basis at the discretion of the Exchange and corresponding to the risk management needs of Members.

<date>: <date> refers to a calendar date specified by the Exchange. The Exchange may list iterations of the Contract corresponding to variations of <date>.

Payout Criterion: The Payout Criterion for the Contract encompasses the Expiration Values that a meteor, asteroid, comet, or other natural space object has entered Earth's atmosphere and released energy of 10 kilotons TNT equivalent or greater, either through atmospheric explosion (airburst/bolide) or ground impact, after Issuance and before 11:59 PM ET on <date>.

The energy release must be:

- Reported by at least one Source Agency as being 10.0 kilotons TNT equivalent or greater (total impact energy, not optical radiant energy)
- From a natural space object (not space debris, aircraft, or man-made objects)
- Released within Earth's atmosphere (including airbursts) or upon Earth's surface

Examples that would resolve the market to Yes:

- A meteor explodes at 25km altitude over the Pacific Ocean with 15 kilotons energy
- An asteroid impacts Antarctica releasing 50 kilotons energy
- A bolide airbursts over a city with 10.1 kilotons energy

Examples that would NOT resolve the market to Yes:

- A meteor releases 9.9 kilotons energy
- A satellite re-enters atmosphere with 20 kilotons energy (man-made object)
- A volcanic explosion releases 15 kilotons energy (not from space)
- A meteor is predicted to impact but misses Earth
- Multiple small meteors that together total >10kt but individually are <10kt

Minimum Tick: The Minimum Tick size for the Contract shall be \$0.01.

Position Accountability Level: The Position Accountability Level for the Contract shall be \$25,000 per strike, per Member.

Last Trading Date: The Last Trading Date of the Contract will be the same as the Expiration Date. The Last Trading Time will be the same as the Expiration time.

Settlement Date: The Settlement Date of the Contract shall be no later than the day after the Expiration Date, unless the Market Outcome is under review pursuant to Rule 7.1.

Expiration Date: The latest Expiration Date of the Contract shall be one month after <date>. If an event described in the Payout Criterion occurs and is reported by a Source Agency, expiration will be moved to an earlier date and time in accordance with Rule 7.2.

Expiration time: The Expiration time of the Contract shall be 10:00 AM ET.

Settlement Value: The Settlement Value for this Contract is \$1.00.

Expiration Value: The Expiration Value is [the value of the Underlying](#) as documented by the Source Agency on the Expiration Date at the Expiration time.

Contingencies: Before Settlement, Kalshi may, at its sole discretion, initiate the Market Outcome Review Process pursuant to Rule 6.3(d) of the Rulebook. If an Expiration Value cannot be determined on the Expiration Date, Kalshi has the right to determine payouts pursuant to Rule 6.3(b) in the Rulebook.