

# → CAFS FOR (7482) 1994 PC1

## ESA's NEO Coordination Centre

### Close approach fact sheet for asteroid (7482) 1994 PC1

The very large near-Earth asteroid (7482) 1994 PC1 will have a close encounter with Earth on 18 January 2022.

Fly-by date	2022-01-18
Closest approach time	21:49:44 UTC ( $\pm 0$ s)
Fly-by distance from Earth surface	1 975 054 km, 5.138 Lunar Distances ( $\pm 43$ km)
Fly-by speed	19.56 km/s
Size	1052 m ( $\pm 303$ m)
Discovery date	1994-08-09
Discovery site	Siding Spring Observatory

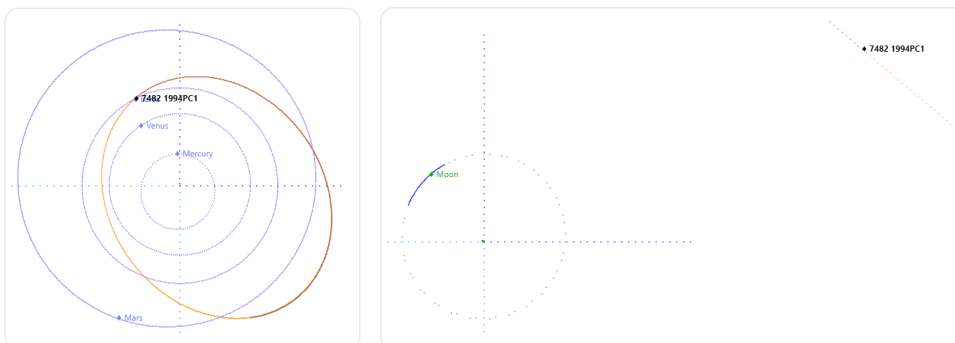
All error bars quoted in this table correspond to one standard deviation.

### Orbit information

As the approach distance of the nominal trajectory to the Earth is relatively large, changes in its orbital elements due to the Earth gravity are almost not noticeable.

Date before and after fly-by	Orbital period (year/day)	Aphelion distance (au)	Perihelion distance (au)	Eccentricity	Inclination (deg)
2021-12-19	1.562/570	1.7884	0.9039	0.328	33.486
2022-02-17	1.566/572	1.7932	0.9042	0.329	33.471

All orbital elements in this table are referred to the ecliptic at the epoch of J2000.0



## Physical and mitigation information

Days to closest approach	Cumulative impact probability	Composition	Rotation period (hours)
~7	Not applicable	S	2.6

## Observational information

Peak brightness	Visual observability	Geometric observability
10.1	Most medium to large amateur telescopes	Easily observable in the evening sky around close approach, from most of the planet. Southern latitudes favoured before close approach, northern ones favoured after.

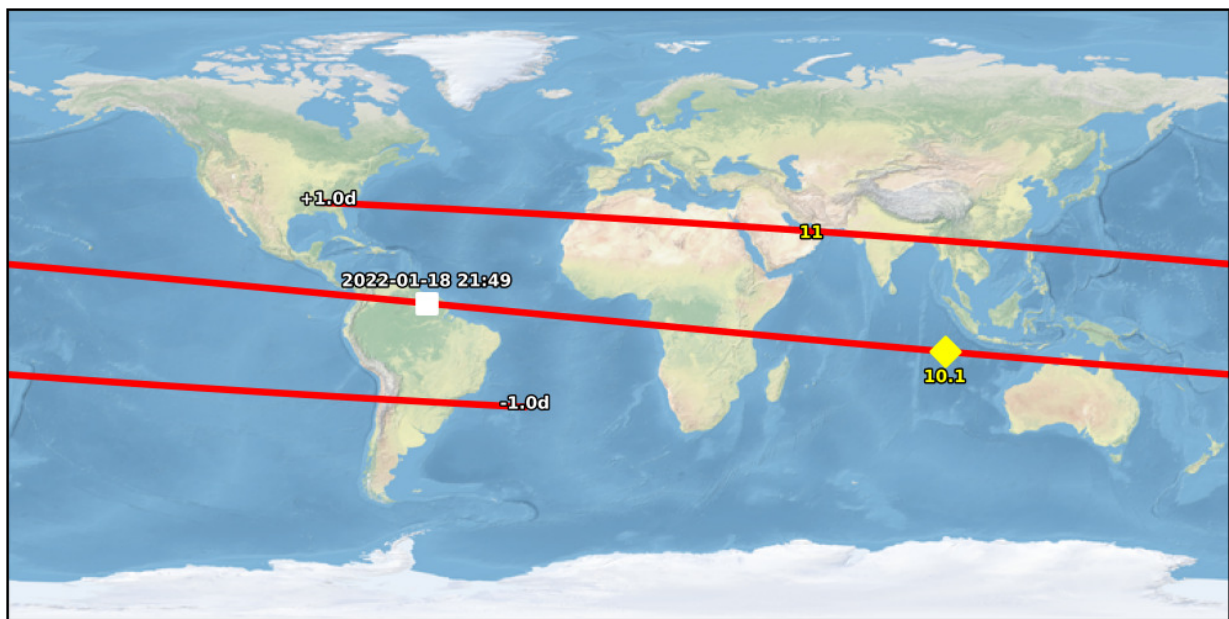
## Other information

Encounter peculiarities	Previous encounter	Next encounter
None	None	2105-01-18

Only encounters within 0.05 au are considered.

## Asteroid ground track

The following figure gives a representation of the sub-asteroid point ground track over the Earth. The plot provides an indication of the closest approach point and of the visual magnitudes at different points in the path as observed from the surface of the Earth.



## Links

### NEO information:

<https://neo.ssa.esa.int/search-for-asteroids?sum=1&des=74821994PC1>

### Orbit visualiser:

<https://tinyurl.com/4bxu4mrb>

### Close approaches page:

<https://neo.ssa.esa.int/close-approaches>

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