

Distant Worlds - Alien Life?

Englisch

clear evidence

Millennia ago

constellation of the swan

giant spheres

to orbit

ancestor

oxygen

blueprint

lubricant

carbon, hydrogen, nitrogen

vapor

clues

Deutsch

klare Beweise

vor Jahrtausenden

Sternbild Schwan

riesige Kugeln

umkreisen

Urahn

Sauerstoff

hier: Bauplan

Schmierstoff

Kohlenstoff, Wasserstoff, Stickstoff

Gas

Hinweise

Filmzitat als Anwendungsbeispiel

Such extraordinary claims demand clear evidence

Millennia ago our ancestors were already watching the stars

Part of the summer triangle is the constellation of the swan

the planets are siblings of earth, giant spheres made of rock and other materials

Like earth, they orbit the sun

today's species are descendants of a single common ancestor

it did not require any oxygen

DNA molecules are the blueprints of all life forms

water acts like a lubricant

and everywhere, the same chemical elements are the most important: carbon, hydrogen, oxygen and nitrogen

water is mostly only present in form of ice or as a thin vapor

so far there are no clues to any such civilization

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Filmzitat als Anwendungsbeispiel

lightyear

Lichtjahr

viewed from 10 lightyears away the sun appears merely as one star among others

gravity

Schwerkraft

its gravity is too weak

space probes

Raumsonden

space probes have discovered that it turned into ice

scarce energy

spärliche Energie

hot springs on the oceans bottom provide scarce energy

outer envelope

äußere Hülle

all life probably requires an outer envelope

to measure

messen

this can be measured to a high degree of precision

to determine

bestimmen

this allows us to determine the size and orbit of a planet

solar system

Sonnensystem

like all giant planets in our solar system

red dwarf star

roter Zwergstern

Gliese 667C is a red dwarf star, a star that is less hot than the sun

day and night hemispheres

Tag- und Nachtseite

temperatures on the day and night hemispheres could be very different

buoyancy

Auftrieb

it loses its buoyancy

essential preconditions

beste Voraussetzungen

the essential preconditions are already there

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Milky Way

to collect

Deutsch

Milchstraße

hier : auffangen

Filmzitat als Anwendungsbeispiel

the Milky Way, the glowing expanse in the night sky consists of billions of stars

such radio telescopes collect natural radio waves from space