



**WATER VAPOR DETECTED
IN EUROPA'S ATMOSPHERE**

1
00:00:06,630 --> 00:00:04,070
new analysis of archival hubble data

2
00:00:09,750 --> 00:00:06,640
revealed water vapor in the atmosphere

3
00:00:13,030 --> 00:00:09,760
of jupiter's icy moon europa

4
00:00:15,190 --> 00:00:13,040
europa's icy smooth surface scarred by

5
00:00:16,269 --> 00:00:15,200
cracks and fissures

6
00:00:19,510 --> 00:00:16,279
minus

7
00:00:21,830 --> 00:00:19,520
275 degrees fahrenheit but researchers

8
00:00:24,070 --> 00:00:21,840
suspect the vast ocean lurks beneath

9
00:00:26,390 --> 00:00:24,080
that surface

10
00:00:29,269 --> 00:00:26,400
the hubble space telescope previously

11
00:00:32,389 --> 00:00:29,279
detected 60 mile high plumes of water

12
00:00:35,190 --> 00:00:32,399
vapor erupting like geysers

13
00:00:37,990 --> 00:00:35,200

these new results show water vapor over

14

00:00:40,069 --> 00:00:38,000

a larger area suggesting a long-term

15

00:00:43,110 --> 00:00:40,079

water vapor atmosphere on one of

16

00:00:45,270 --> 00:00:43,120

europa's hemispheres

17

00:00:47,910 --> 00:00:45,280

this discovery lays groundwork for

18

00:00:49,430 --> 00:00:47,920

missions that will explore jupiter's icy

19

00:00:51,510 --> 00:00:49,440

moons

20

00:00:54,310 --> 00:00:51,520

understanding the formation and

21

00:00:56,229 --> 00:00:54,320

evolution of jupiter and its moons helps

22

00:00:58,869 --> 00:00:56,239

astronomers gain insights into