*STROJOTS

RADAR STANDS FOR PADIO DETECTION AND RANGING

RADIO SIGNALS ARE TRANSMITTED

RADAR SYSTEMS WERE FIRST DEVELOPED FOR MILITARY APPLICATIONS.

THE FIRST DETECTION OF A RADAR SIGNAL REPLECTED BY THE MOON WAS ON 10 JANUARY 1946



REPLECTED FROM A TARGET.



THE RECEIVED SIGNAL, AND WHEN IT ARRIVES, CAN TELL US THE DISTANCE AND SPEED OF AN OBJECT, PLUS HOW ROUGH THE OBJECT IS.



AREC180

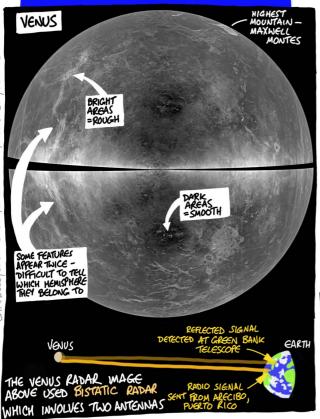
NRAD/AUI/NSF.

FLA

SMITHSONIAN.

RADAR CAN BE USED FROM THE GROUND TO STUDY OBJECTS IN SPACE

> THE GOLDSTONE RADIO ANTENNA, CALIFORNIA



... OR CAN BE USED IN SPACE TO STUDY OBJECTS NEARBY. ESPECIALLY USEFUL TO

MAP WORLDS COVERED BY CLOUDS OR HAZE

WHEN SPACECRAFT LIKE CASSINI ARE MOVING QUICKLY THROUGH SPACE, THEIR RADAR CAN ACT LIKE A SYSTEM USING A MUCH LARGER ANTENNA THIS IS CALLED

SYNTHETIC APERTURE RAD

SATURN'S

LARGEST

MOON TITAN DEFINITELY VERY

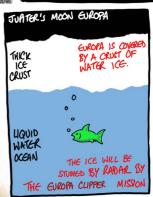
HAZY)

PANCAVE DOME VOLCANDES ON VENUS, FROM MAGRELLAN

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RADAR CAN ALSO PENETRATE SURFACES. THE MARSIS AND SHARAD HAVE MAPPED UNDER THE MARTIAN POLAR CAPS FROM ORBIT

THE ESA **EXOMARS** ROVER WILL CARRY A GROUND. PENETRATING RADAR CALLED



SHARAD RADARGRAM SHOWNG A CROSS-SECTION THROUGH A POLAR CAP ON MARS

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