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AARDVARK ABLUTION ACRIMONIOUS ADVENTURES AEOLIAN AFRICA AGAMEMNON AHOY AILERON AJAX AKIMBO ALTRUISM AMERICA ANECDOTE AORTA APTITUDE AQUARIUM ARCADE ASPARTAME ATTRITION AURELIUS AVUNCULAR AWNING AXMINSTER AYERS AZURE BANISHMENT BENIGHTED BHAGAVAD BIBLICAL BJORN BLANCMANGE BOLTON BRUSQUE BURNISH BWANA BYZANTIUM CABBALA CETACEAN CHARLEMAGNE CICERO CLAMOROUS CNIDARIAN CONIFER CRUSTACEAN CTENOID CULLED CYNOSURE CZARINA DALMATIAN DELPHI DHURRIE DINNER DJINN DOCUMENT DRILL DUNLEARY DVORAK DWINDLE DYNAMO EAMES EBULLIENT ECHO EDIFY EELS EFTSOONS EGRESS EHRLICH EINDHOVEN EJECT EKISTICS ELZEVIR EMINENCE ENNOBLE EOCENE EPHEMERAL EQUATOR ERSTWHILE ESTIENNE ETIQUETTE EUCALYPTUS EVERYMAN EWEN EXETER EYELET EZEKIEL FANFARE FEROCIOUS FFESTINIOG FINICKY FJORD FLANDERS FORESTRY FRILLS FURNITURE FYLFOT GARRULOUS GENEROUS GHASTLY GIMLET GLORIOUS GNOMON GOLFER GRIZZLED GUMPTION GWENDOLYN GYMKHANA HARROW HEIFER HINDEMITH HORACE HSI HUBRIS HYBRID IAMBIC IBARRA ICHTHYOLOGY IDENTITY IEVGENY IFRIT IGNITE IHRE IKON ILIAD IMMINENT INNOVATION IOLANTHE IPANEMA IRASCIBLE ISLAND ITALIC IVORY IWIS IXTAPA IYAR IZZARD JANACEK JENSON JITTER JOINERY JR. JUNGIAN KAISER KENILWORTH KHAKI KINDRED KLONDIKE KNOWLEDGE KOHLRABI KRAKEN KUDZU KVETCH KWACHA KYRIE LABRADOR LENT LHASA LINIMENT LLAMA LONGBOAT LUDDITE LYCEUM MANDARIN MBANDAKA MCINTYRE MDINA MENDACIOUS MFG. MG MILLINERY MLLE. MME. MNEMONIC MORIBUND MR. MS. MTN. MUNITIONS MYRA NARRAGANSETT NEFARIOUS

NGUYEN NILE NKOSO NNENNA NONSENSE NR. NUNNERY NYACK OARSMAN OBLATE OCULAR ODESSA OEDIPUS OFTEN OGRE OHMS OILERS OKRA OLFACTORY OMINOUS ONEROUS OOGAMOUS OPINE ORNATE OSSIFIED OTHELLO OUBLIETTE OVENS OWLISH OXEN OYSTER OZYMANDIAS PARISIAN PB PD. PENROSE PFENNIG PG. PHARMACY PIROUETTE PLEISTOCENE PNEUMATIC PORRIDGE PP. PRINCIPLE PSALTERY PTARMIGAN PUNDIT PYRRHIC QAID QED QIBRIS QOM QUILL RANSOM RB. RD. RENFIELD RHEUMATIC RINGLET RM. RONSARD RP. RTE. RUNCIBLE RWANDA RYE SALACIOUS SBEITLA SCHERZO SERPENTINE SFORZA SHACKLES SINFUL SJOERD SKULL SLALOM SMELTING SNIPE SORBONNE SPARTAN SQUIRE SRI STULTIFIED SUMMONER SVELTE SWARTHY SYKES SZENTENDRE TARRAGON TBLISI TCHERNY TENNYSON THAUMATURGE TINCTURE TLALOC TOREADOR TREACHEROUS TSUNAMI TURKEY TWINE TYROLEAN TZARA UBIQUITOUS UCELLO UDDER UFOLOGY UGRIC UHLAN UITLANDER UKULELE ULSTER UMBER UNGUENT UOMO UPLIFT URSINE USURIOUS UTRECHT UVULA UXORIOUS UZBEK VANISHED VD. VENOMOUS VINDICATE VORACIOUS VRILLIER VS. VT. VULNERABLE VYING WASHINGTON WENDELL WHARF WINDOW WM. WORTH WRUNG WT. WUNDERMAN WYES XANTHAN XENON XIAO XMAS XRAY XUXA XYLEM YARROW YBARRA YCAIR YDS. YELLOWSTONE YGGDRASIL YIN YLANG YOURS YPSILANTI YQUEM YRS. YS. YTTERBIUM YUNNAN YVONNE ZANZIBAR ZERO ZHORA ZINFANDEL ZONE ZUNI ZWIEBACK ZYGOTE

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Aardvark Ablution Acrimonious Adventures Aeolian Africa Agamemnon Ahoy Aileron Ajax Akimbo Altruism America Anecdote Aorta Aptitude Aquarium Arcade Aspartame Attrition Aurelius Avuncular Awning Axminster Ayers Azure Banishment Benighted Bhagavad Biblical Bjorn Blancmange Bolton Brusque Burnish Bwana Byzantium Cabbala Cetacean Charlemagne Cicero Clamorous Cnidarian Conifer Crustacean Ctenoid Culled Cynosure Czarina Dalmatian Delphi Dhurrie Dinner Djinn Document Drill Dunleary Dvorak Dwindle Dynamo Eames Ebullient Echo Edify Eels Eftsoons Egress Ehrlich Eindhoven Eject Ekistics Elzevir Eminence Ennoble Eocene Ephemeral Equator Erstwhile Estienne Etiquette Eucalyptus Everyman Ewen Exeter Eyelet Ezekiel Fanfare Ferocious Ffestiniog Finicky Fjord Flanders Forestry Frills Furniture Fylfot Garrulous Generous Ghastly Gimlet Glorious Gnomon Golfer Grizzled Gumption Gwendolyn Gymkhana Harrow Heifer Hindemith Horace Hsi Hubris Hybrid Iambic Ibarra Ichthyology Identity Ievgeny Ifrit Ignite Ihre Ikon Iliad Imminent Innovation Iolanthe Ipanema Irascible Island Italic Ivory Iwis Ixtapa Iyar Izzard Janacek Jenson Jitter Joinery Jr. Jungian Kaiser Kenilworth Khaki Kindred Klondike Knowledge Kohlrabi Kraken Kudzu Kvetch Kwacha Kyrie Labrador Lent Lhasa Liniment Llama Longboat Luddite Lyceum Mandarin Mbandaka Mcintyre Mdina Mendacious Mfg. Mg Millinery Mlle. Mme. Mnemonic Moribund Mr. Ms. Mtn. Munitions Myra Narragansett Nefarious Nguyen Nile Nkoso Nnenna Nonsense Nr. Nunnery Nyack Oarsman Oblate Ocular Odessa Oedipus Often Ogre Ohms Oilers Okra Olfactory Ominous Onerous Oogamous Opine Ornate Ossified Othello Oubliette Ovens Owlish Oxen Oyster Ozymandias Parisian Pb Pd. Penrose Pfennig Pg. Pharmacy Pirouette Pleistocene Pneumatic Porridge Pp. Principle Psaltery Ptarmigan Pundit Pyrrhic Qaid Qed Qibris Qom Quill Ransom Rb. Rd. Renfield Rheumatic Ringlet Rm. Ronsard Rp. Rte. Runcible Rwanda Rye Salacious Sbeitla Scherzo

Serpentine Sforza Shackles Sinful Sjoerd Skull Slalom Smelting Snipe Sorbonne Spartan Squire Sri Stultified Summoner Svelte Swarthy Sykes Szentendre Tarragon Tblisi Tcherny Tennyson Thaumaturge Tincture Tlaloc Toreador Treacherous Tsunami Turkey Twine Tyrolean Tzara Ubiquitous Ucello Udder Ufology Ugric Uhlan Uitlander Ukulele Ulster Umber Unguent Uomo Uplift Ursine Usurious Utrecht Uvula Uxorious Uzbek Vanished Vd. Venomous Vindicate Voracious Vrillier Vs. Vt. Vulnerable Vying Washington Wendell Wharf Window Wm. Worth Wrung Wt. Wunderman Wyes Xanthan Xenon Xiao Xmas Xray Xuxa Xylem Yarrow Ybarra Ycair Yds. Yellowstone Yggdrasil Yin Ylang Yours Ypsilanti Yquem Yrs. Ys. Ytterbium Yunnan Yvonne Zanzibar Zero Zhora Zinfandel Zone Zuni Zwieback Zygote

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aardvark ablution acrimonious adventures aeolian africa agamemnon ahoy aileron ajax akimbo altruism america anecdote aorta aptitude aquarium arcade aspartame attrition aurelius avuncular awning axminster ayers azure banishment benighted bhagavad biblical bjorn blancmange bolton brusque burnish bwana byzantium cabbala cetacean charlemagne cicero clamorous cnidarian conifer crustacean ctenoid culled cynosure czarina dalmatian delphi dhurrie dinner djinn document drill dunleary dvorak dwindle dynamo eames ebullient echo edify eels eftsoons egress ehrlich eindhoven eject ekistics elzevir eminence ennoble eocene ephemeral equator erstwhile estienne etiquette eucalyptus everyman ewen exeter eyelet ezekiel fanfare ferocious ffestiniog finicky fjord flanders forestry frills furniture fylfot garrulous generous ghastly gimlet glorious gnomon golfer grizzled gumption gwendolyn gymkhana harrow heifer hindemith horace hsi hubris hybrid iambic ibarra ichthyology identity ievgeny ifrit ignite ihre ikon iliad imminent innovation iolanthe ipanema irascible island italic ivory iwis ixtapa iyar izzard janacek jenson jitter joinery jr. jungian kaiser kenilworth khaki kindred klondike knowledge kohlrabi kraken kudzu kvetch kwacha kyrie labrador lent lhasa liniment llama longboat luddite lyceum mandarin mbandaka mcintyre mdina mendacious mfg. mg millinery mlle. mme. mnemonic moribund mr. ms. mtn. munitions myra narragansett nefarious nguyen nile nkoso nnenna nonsense nr. nunnery nyack oarsman oblate ocular odessa oedipus often ogre ohms oilers okra olfactory ominous onerous oogamous opine ornate ossified othello oubliette ovens owlish oxen oyster ozymandias parisian pb pd. penrose pfennig pg. pharmacy pirouette pleistocene pneumatic porridge pp. principle psaltery ptarmigan pundit pyrrhic qaid qed qibris qom quill ransom rb. rd. renfield rheumatic ringlet rm. ronsard rp. rte. runcible rwanda rye salacious sbeitla scherzo serpentine sforza shackles sinful sjoerd skull slalom smelting snipe sorbonne spartan squire sri stultified summoner svelte swarthy sykes szentendre tarragon tblisi tcherny tennyson thaumaturge tincture tlaloc toreador treacherous tsunami turkey twine tyrolean tzara ubiquitous ucello udder ufology ugric uhlan uitlander ukulele ulster umber unguent uomo uplift ursine usurious utrecht uvula uxorious uzbek vanished vd. venomous vindicate voracious vrillier vs. vt. vulnerable vying washington wendell wharf window wm. worth wrung wt. wunderman wyes xanthan xenon xiao xmas xray xuxa xylem yarrow ybarra ycair yds. yellowstone yggdrasil yin ylang yours ypsilanti yquem yrs. ys. ytterbium yunnan yvonne zanzibar zero zhora zinfandel zone zuni zwieback zygote

THIS ROBOT'S JOURNEY TO AN ICY ALIEN MOON STARTS BENEATH ANTARCTICA

NASA SCIENTISTS COMPLETED FIELD TESTS IN NOVEMBER OF A FLOATING ROVER THEY HOPE WILL ONE DAY TRAVEL TO EUROPA, THE FROZEN OCEAN MOON OF JUPITER.

A prototype of NASA's Jet Propulsion Laboratory's Buoyant Rover for Under-Ice Exploration, a technology that could one day explore oceans under the ice layers of planetary bodies, being tested in a lake near Barrow, Alaska.

- By David W. Brown, Jan. 5, 2020, 5:00 a.m. ET

CASEY STATION, Antarctica — Near a nice, big hole in the ice and beneath the stone gray, midday Antarctic summer skies, six Adélie penguins stared at six men toiling with tools. The chasm in the ice might have been an inviting entry to the krill-rich waters below. None of the members of the tuxedoed recon party dove into the hole, a square about six feet across. The risk of leopard seals was just too great.

But had they leapt in, the penguins would have discovered not a seal, but a robot.

In November, scientists and engineers from NASA's Jet Propulsion Laboratory successfully field tested Bruie — the "Buoyant Rover for Under-Ice Exploration" — beneath the ice of eastern Antarctica. The remotely operated rover was built to crawl along the underside of sea ice and ice shelves. These tests on Earth have a long-term goal of one day seeking evidence of life beneath the thick frozen shell covering Jupiter's ocean moon of Europa. Beneath that ice is three times more liquid water than can be found in all the oceans on Earth.

It will be years before a spacecraft from Earth lands on Europa, which was most closely studied by NASA's Galileo mission in the 1990s. The next robotic probe to visit that world will be Europa Clipper, scheduled to launch no sooner than 2025. When it arrives some years later, that spacecraft will orbit Jupiter and encounter Europa dozens of times at different angles to thoroughly scan and map the moon, considered one of the best candidates in our solar system to be inhabited by some form of extraterrestrial life. Any future for a lander visiting the Jovian moon is uncertain. But that hasn't stopped NASA's engineers and scientists from developing technologies to aid its mission.

"Getting a vehicle like the buoyant rover and other submersibles in the ocean of Europa is the long-term vision for what we hope to one day accomplish," said Kevin P. Hand, the project's science lead from the Jet Propulsion Laboratory. "It's going to come after Clipper and a lander on the surface. These precursor missions would set the stage for getting through the ice and reaching the ocean."