<!DOCTYPE html>

<html lang="en" xml:lang="en" xmlns="http://www.w3.org/1999/xhtml">

<head>

<meta content="text/html; charset=utf-8" http-equiv="Content-Type"/>

<!-- Always force latest IE rendering engine or request Chrome Frame -->

<meta content="IE=edge,chrome=1" http-equiv="X-UA-Compatible"/>

<!-- Responsiveness -->

<meta content="width=device-width, initial-scale=1.0" name="viewport"/>

<!-- Favicon -->

<link href="/apple-touch-icon.png" rel="apple-touch-icon" sizes="180x180"/>

<link href="/favicon-32x32.png" rel="icon" sizes="32x32" type="image/png"/>

<link href="/favicon-16x16.png" rel="icon" sizes="16x16" type="image/png"/>

<link href="/manifest.json" rel="manifest"/>

<link color="#e48b55" href="/safari-pinned-tab.svg" rel="mask-icon"/>

<meta content="#000000" name="theme-color"/>

<meta content="authenticity\_token" name="csrf-param">

<meta content="DwFv1fMubI+XD5d7cyonOgCA0wW6Lbg2+xoRa2qhF52iraobhSYB3iXxcqMbiAb2e2xyw/q8y88Qfj28pfnBBg==" name="csrf-token">

<title>

News – NASA’s Mars Exploration Program

</title>

<meta content="NASA’s Mars Exploration Program " property="og:site\_name"/>

<meta content="mars.nasa.gov" name="author"/>

<meta content="Mars, missions, NASA, rover, Curiosity, Opportunity, InSight, Mars Reconnaissance Orbiter, facts" name="keywords"/>

<meta content="NASA’s real-time portal for Mars exploration, featuring the latest news, images, and discoveries from the Red Planet." name="description"/>

<meta content="NASA’s real-time portal for Mars exploration, featuring the latest news, images, and discoveries from the Red Planet." property="og:description"/>

<meta content="News – NASA’s Mars Exploration Program " property="og:title"/>

<meta content="https://mars.nasa.gov/news" property="og:url"/>

<meta content="article" property="og:type"/>

<meta content="2017-09-22 19:53:22 UTC" property="og:updated\_time"/>

<meta content="https://mars.nasa.gov/system/site\_config\_values/meta\_share\_images/1\_mars-nasa-gov.jpg" property="og:image"/>

<meta content="https://mars.nasa.gov/system/site\_config\_values/meta\_share\_images/1\_mars-nasa-gov.jpg" name="twitter:image"/>

<link href="https://mars.nasa.gov/system/site\_config\_values/meta\_share\_images/1\_mars-nasa-gov.jpg" rel="image\_src"/>

<meta content="195570401081308" property="fb:app\_id"/>

<link href="https://fonts.googleapis.com/css?family=Montserrat:200,300,400,500,600,700|Raleway:300,400" rel="stylesheet"/>

<link href="/assets/public\_manifest-9467122247163ea3bf3012b71b5b39bf2bce26b82917aca331fb838f7f4a4b7e.css" media="all" rel="stylesheet">

<link href="/assets/mbcms/vendor/jquery.fancybox3-d5d81bdfc05a59e4ea72bca1d8b7fcc399bd3b61f7c06af95a8a48795df69d7a.css" media="screen" rel="stylesheet">

<link href="/assets/gulp/print-240f8bfaa7f6402dfd6c49ee3c1ffea57a89ddd4c8c90e2f2a5c7d63c5753e32.css" media="print" rel="stylesheet">

<script src="/assets/public\_manifest-b7762ffb108de93fcd0be3bfd82579b100241cc4ee1c087af5f886c0903244cf.js">

</script>

<script src="/assets/mbcms/vendor/jquery.fancybox3-bd48876205805faa43a79e74b656191a4ad37809923b4f3247b571ba82d4458c.js">

</script>

<script src="/assets/mb\_manifest-a0ae601bc18c852649e350709ab440161da58529f782ae84172c21f8ea27b714.js">

</script>

<!--[if gt IE 8]><!-->

<script src="/assets/not\_ie8\_manifest.js">

</script>

<!--[if !IE]>-->

<script src="/assets/not\_ie8\_manifest.js">

</script>

<!--<![endif]-->

<!-- /twitter cards -->

<meta content="summary\_large\_image" name="twitter:card"/>

<meta content="News " name="twitter:title"/>

<meta content="NASA’s real-time portal for Mars exploration, featuring the latest news, images, and discoveries from the Red Planet." name="twitter:description"/>

<meta content="https://mars.nasa.gov/system/site\_config\_values/meta\_share\_images/1\_mars-nasa-gov.jpg" name="twitter:image"/>

</link>

</link>

</link>

</meta>

</meta>

</head>

<body id="news">

<svg display="none" height="0" width="0">

<symbol height="30" id="circle\_plus" viewbox="0 0 30 30" width="30">

<g fill-rule="evenodd" transform="translate(1 1)">

<circle cx="14" cy="14" fill="#fff" fill-opacity=".1" fill-rule="nonzero" r="14" stroke="inherit" stroke-width="1">

</circle>

<path class="the\_plus" d="m18.856 12.96v1.738h-4.004v3.938h-1.848v-3.938h-4.004v-1.738h4.004v-3.96h1.848v3.96z" fill="inherit" stroke-width="0">

</path>

</g>

</symbol>

<symbol height="30" id="circle\_arrow" viewbox="0 0 30 30" width="30" xmlns="http://www.w3.org/2000/svg">

<g transform="translate(1 1)">

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</circle>

<path class="the\_arrow" d="m8.5 15.00025h7.984l-2.342 2.42c-.189.197-.189.518 0 .715l.684.717c.188.197.494.197.684 0l4.35-4.506c.188-.199.188-.52 0-.717l-4.322-4.48c-.189-.199-.496-.199-.684 0l-.684.716c-.189.197-.189.519 0 .716l2.341 2.419h-8.011c-.276 0-.5.223-.5.5v1c0 .275.224.5.5.5z" fill="inherit" stroke-width="0">

</path>

</g>

</symbol>

<symbol height="30" id="circle\_close" viewbox="0 0 30 30" width="30">

<g fill-rule="evenodd" transform="translate(1 1)">

<circle cx="14" cy="14" fill="blue" fill-opacity="1" fill-rule="nonzero" r="14" stroke="inherit" stroke-width="1">

</circle>

<path class="the\_plus" d="m18.856 12.96v1.738h-4.004v3.938h-1.848v-3.938h-4.004v-1.738h4.004v-3.96h1.848v3.96z" fill="inherit" stroke-width="0">

</path>

</g>

</symbol>

<symbol height="30" id="circle\_close\_hover" viewbox="0 0 30 30" width="30">

<g fill-rule="evenodd" transform="translate(1 1)">

<circle cx="14" cy="14" fill="white" fill-opacity="1" fill-rule="nonzero" r="14" stroke="inherit" stroke-width="1">

</circle>

<path class="the\_plus" d="m18.856 12.96v1.738h-4.004v3.938h-1.848v-3.938h-4.004v-1.738h4.004v-3.96h1.848v3.96z" fill="inherit" stroke-width="0">

</path>

</g>

</symbol>

<symbol height="6" id="chevron\_down" viewbox="0 0 10 6" width="10" xmlns="http://www.w3.org/2000/svg">

<path d="m59 7v2.72727273l5 3.27272727 5-3.27272727v-2.72727273l-5 3.2727273z" transform="translate(-59 -7)">

</path>

</symbol>

<symbol height="16" id="gear" viewbox="0 0 16 16" width="16" xmlns="http://www.w3.org/2000/svg">

<path d="m68 9h-1.09c-.15-.91-.5-1.75-1.021-2.471l.761-.77c.39-.39.39-1.029 0-1.42-.391-.39-1.021-.39-1.41 0l-.771.77c-.719-.519-1.469-.869-2.469-1.019v-1.09c0-.55-.45-1-1-1s-1 .45-1 1v1.09c-1 .15-1.75.5-2.47 1.02l-.77-.77c-.389-.39-1.029-.39-1.42 0-.39.391-.39 1.03 0 1.42l.771.77c-.521.72-.871 1.56-1.021 2.47h-1.09c-.55 0-1 .48-1 1.029 0 .551.45.971 1.12.971h.97c.15.91.5 1.75 1.021 2.471l-.771.769c-.39.39-.39 1.029 0 1.42.391.39 1.021.39 1.41 0l.78-.77c.72.52 1.47.87 2.47 1.02v1.09c0 .55.45 1 1 1s1-.45 1-1v-1.09c1-.15 1.75-.5 2.47-1.02l.771.77c.391.39 1.02.39 1.41 0 .39-.391.39-1.03 0-1.42l-.761-.76c.51-.72.87-1.56 1.02-2.48h1.09c.55 0 1-.45 1-1s-.45-1-1-1zm-7 4c-1.66 0-3-1.35-3-3s1.34-3 3-3c1.65 0 3 1.35 3 3s-1.35 3-3 3z" fill="#a79693" transform="translate(-53 -2)">

</path>

</symbol>

</svg>

<div data-react-cache-id="BrowseHappier-0" data-react-class="BrowseHappier" data-react-props='{"gt":1,"lt":11}'>

</div>

<div data-react-cache-id="HiPO-0" data-react-class="HiPO" data-react-props="{}">

</div>

<div id="main\_container">

<div id="site\_body">

<div class="site\_header\_area">

<header class="site\_header">

<div class="brand\_area">

<div class="brand1">

<a class="nasa\_logo" href="http://www.nasa.gov" target="\_blank" title="visit nasa.gov">

NASA

</a>

</div>

<div class="brand2">

<a class="top\_logo" href="https://science.nasa.gov/" target="\_blank" title="Explore NASA Science">

NASA Science

</a>

<a class="sub\_logo" href="/mars-exploration/#" title="Mars">

Mars Exploration Program

</a>

</div>

<img alt="" class="print\_only print\_logo" src="/assets/logo\_mars\_trio\_black@2x.png"/>

</div>

<a class="visuallyhidden focusable" href="#page">

Skip Navigation

</a>

<div class="right\_header\_container">

<a class="menu\_button" href="javascript:void(0);" id="menu\_button">

<span class="menu\_icon">

menu

</span>

</a>

<a class="modal\_close" id="modal\_close">

<span class="modal\_close\_icon">

</span>

</a>

<div class="nav\_area">

<div id="site\_nav\_container">

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Network.&quot;},{&quot;name&quot;:&quot;The Red Planet&quot;,&quot;link&quot;:&quot;/#red\_planet&quot;,&quot;target&quot;:&quot;\_self&quot;,&quot;sections&quot;:[{&quot;items&quot;:[{&quot;name&quot;:&quot;Dashboard&quot;,&quot;link&quot;:&quot;/#red\_planet/0&quot;,&quot;target&quot;:&quot;\_self&quot;,&quot;id&quot;:9},{&quot;name&quot;:&quot;Science Goals&quot;,&quot;link&quot;:&quot;/#red\_planet/1&quot;,&quot;target&quot;:&quot;\_self&quot;,&quot;id&quot;:13},{&quot;name&quot;:&quot;The Planet&quot;,&quot;link&quot;:&quot;/#red\_planet/2&quot;,&quot;target&quot;:&quot;\_self&quot;,&quot;id&quot;:14},{&quot;name&quot;:&quot;Atmosphere&quot;,&quot;link&quot;:&quot;/#red\_planet/3&quot;,&quot;target&quot;:&quot;\_self&quot;,&quot;id&quot;:16},{&quot;name&quot;:&quot;Astrobiology&quot;,&quot;link&quot;:&quot;/#red\_planet/4&quot;,&quot;target&quot;:&quot;\_self&quot;,&quot;id&quot;:17},{&quot;name&quot;:&quot;Past, Present, Future, Timeline&quot;,&quot;link&quot;:&quot;/#red\_planet/5&quot;,&quot;target&quot;:&quot;\_self&quot;,&quot;id&quot;:18}]}],&quot;id&quot;:3,&quot;meganav\_style&quot;:&quot;&quot;,&quot;features&quot;:[],&quot;short\_description&quot;:null},{&quot;name&quot;:&quot;The Program&quot;,&quot;link&quot;:&quot;/#mars\_exploration\_program&quot;,&quot;target&quot;:&quot;\_self&quot;,&quot;sections&quot;:[{&quot;items&quot;:[{&quot;name&quot;:&quot;Mission Statement&quot;,&quot;link&quot;:&quot;/#mars\_exploration\_program/0&quot;,&quot;target&quot;:&quot;\_self&quot;,&quot;id&quot;:8},{&quot;name&quot;:&quot;About the Program&quot;,&quot;link&quot;:&quot;/#mars\_exploration\_program/1&quot;,&quot;target&quot;:&quot;\_self&quot;,&quot;id&quot;:42},{&quot;name&quot;:&quot;Organization&quot;,&quot;link&quot;:&quot;/#mars\_exploration\_program/2&quot;,&quot;target&quot;:&quot;\_self&quot;,&quot;id&quot;:43},{&quot;name&quot;:&quot;Why Mars?&quot;,&quot;link&quot;:&quot;/#mars\_exploration\_program/3&quot;,&quot;target&quot;:&quot;\_self&quot;,&quot;id&quot;:51},{&quot;name&quot;:&quot;Research Programs&quot;,&quot;link&quot;:&quot;/#mars\_exploration\_program/4&quot;,&quot;target&quot;:&quot;\_self&quot;,&quot;id&quot;:44},{&quot;name&quot;:&quot;Planetary Resources&quot;,&quot;link&quot;:&quot;/#mars\_exploration\_program/5&quot;,&quot;target&quot;:&quot;\_self&quot;,&quot;id&quot;:52},{&quot;name&quot;:&quot;Technologies&quot;,&quot;link&quot;:&quot;/#mars\_exploration\_program/6&quot;,&quot;target&quot;:&quot;\_self&quot;,&quot;id&quot;:56}]}],&quot;id&quot;:2,&quot;meganav\_style&quot;:&quot;&quot;,&quot;features&quot;:[],&quot;short\_description&quot;:null},{&quot;name&quot;:&quot;News \u0026 Events&quot;,&quot;link&quot;:&quot;/#news\_and\_events&quot;,&quot;target&quot;:&quot;\_self&quot;,&quot;sections&quot;:[{&quot;items&quot;:[{&quot;name&quot;:&quot;News&quot;,&quot;link&quot;:&quot;/news&quot;,&quot;target&quot;:&quot;\_self&quot;,&quot;id&quot;:92},{&quot;name&quot;:&quot;Events&quot;,&quot;link&quot;:&quot;/events&quot;,&quot;target&quot;:&quot;\_self&quot;,&quot;id&quot;:93}]}],&quot;id&quot;:4,&quot;meganav\_style&quot;:&quot;&quot;,&quot;features&quot;:[],&quot;short\_description&quot;:null},{&quot;name&quot;:&quot;Multimedia&quot;,&quot;link&quot;:&quot;/#multimedia&quot;,&quot;target&quot;:&quot;\_self&quot;,&quot;sections&quot;:[{&quot;items&quot;:[{&quot;name&quot;:&quot;Images&quot;,&quot;link&quot;:&quot;/multimedia/images/&quot;,&quot;target&quot;:&quot;\_self&quot;,&quot;id&quot;:90},{&quot;name&quot;:&quot;Videos&quot;,&quot;link&quot;:&quot;/multimedia/videos/&quot;,&quot;target&quot;:&quot;\_self&quot;,&quot;id&quot;:91},{&quot;name&quot;:&quot;More Resources&quot;,&quot;link&quot;:&quot;/multimedia/more-resources/&quot;,&quot;target&quot;:&quot;\_self&quot;,&quot;id&quot;:413}]}],&quot;id&quot;:5,&quot;meganav\_style&quot;:&quot;&quot;,&quot;features&quot;:[],&quot;short\_description&quot;:null},{&quot;name&quot;:&quot;Missions&quot;,&quot;link&quot;:&quot;/#missions\_gallery\_subnav&quot;,&quot;target&quot;:&quot;\_self&quot;,&quot;sections&quot;:[{&quot;items&quot;:[{&quot;name&quot;:&quot;Past&quot;,&quot;link&quot;:&quot;/mars-exploration/missions/?category=167&quot;,&quot;target&quot;:&quot;\_self&quot;,&quot;id&quot;:38},{&quot;name&quot;:&quot;Present&quot;,&quot;link&quot;:&quot;/mars-exploration/missions/?category=170&quot;,&quot;target&quot;:&quot;\_self&quot;,&quot;id&quot;:59},{&quot;name&quot;:&quot;Future&quot;,&quot;link&quot;:&quot;/mars-exploration/missions/?category=171&quot;,&quot;target&quot;:&quot;\_self&quot;,&quot;id&quot;:60},{&quot;name&quot;:&quot;International Partners&quot;,&quot;link&quot;:&quot;/mars-exploration/partners&quot;,&quot;target&quot;:&quot;\_self&quot;,&quot;id&quot;:40}]}],&quot;id&quot;:6,&quot;meganav\_style&quot;:&quot;&quot;,&quot;features&quot;:[],&quot;short\_description&quot;:null},{&quot;name&quot;:&quot;More&quot;,&quot;link&quot;:&quot;/#more&quot;,&quot;target&quot;:&quot;\_self&quot;,&quot;sections&quot;:[],&quot;id&quot;:7,&quot;meganav\_style&quot;:&quot;&quot;,&quot;features&quot;:[],&quot;short\_description&quot;:null}],&quot;gallery\_subnav\_items&quot;:[{&quot;thumb&quot;:&quot;/system/missions/list\_view\_images/23\_PIA23764-RoverNamePlateonMars-320x240.jpg&quot;,&quot;id&quot;:23,&quot;title&quot;:&quot;Mars 2020 Perseverance Rover&quot;,&quot;description&quot;:&quot;A mission to investigate key questions about potential life on Mars. &quot;,&quot;date&quot;:&quot;July 17, 2020&quot;,&quot;url&quot;:&quot;/mars-exploration/missions/mars2020/&quot;,&quot;link\_text&quot;:&quot;&quot;,&quot;target&quot;:&quot;\_blank&quot;,&quot;mi\_traveled&quot;:null,&quot;gallery\_subnav\_link&quot;:&quot;https://mars.nasa.gov/mars2020/&quot;},{&quot;thumb&quot;:&quot;/system/missions/list\_view\_images/2\_PIA14175-thmfeat.jpg&quot;,&quot;id&quot;:2,&quot;title&quot;:&quot;Curiosity Rover&quot;,&quot;description&quot;:&quot;The largest and most capable rover ever sent to Mars.&quot;,&quot;date&quot;:&quot;November 26, 2011&quot;,&quot;url&quot;:&quot;/mars-exploration/missions/mars-science-laboratory&quot;,&quot;link\_text&quot;:&quot;&quot;,&quot;target&quot;:&quot;\_blank&quot;,&quot;mi\_traveled&quot;:14.33,&quot;gallery\_subnav\_link&quot;:&quot;https://mars.nasa.gov/msl/home/&quot;},{&quot;thumb&quot;:&quot;/system/missions/list\_view\_images/21\_PIA22743-320x240.jpg&quot;,&quot;id&quot;:21,&quot;title&quot;:&quot;InSight Lander&quot;,&quot;description&quot;:&quot;A mission to study the deep interior of Mars. &quot;,&quot;date&quot;:&quot;November 26, 2018&quot;,&quot;url&quot;:&quot;/mars-exploration/missions/insight/&quot;,&quot;link\_text&quot;:&quot;&quot;,&quot;target&quot;:&quot;\_blank&quot;,&quot;mi\_traveled&quot;:null,&quot;gallery\_subnav\_link&quot;:&quot;https://mars.nasa.gov/insight/&quot;},{&quot;thumb&quot;:&quot;/system/missions/list\_view\_images/6\_maven\_320x240.jpg&quot;,&quot;id&quot;:6,&quot;title&quot;:&quot;MAVEN&quot;,&quot;description&quot;:&quot;Measures Mars' atmosphere to understand its climate change.&quot;,&quot;date&quot;:&quot;November 18, 2013&quot;,&quot;url&quot;:&quot;/mars-exploration/missions/maven&quot;,&quot;link\_text&quot;:&quot;&quot;,&quot;target&quot;:&quot;\_blank&quot;,&quot;mi\_traveled&quot;:null,&quot;gallery\_subnav\_link&quot;:&quot;https://mars.nasa.gov/maven/&quot;},{&quot;thumb&quot;:&quot;/system/missions/list\_view\_images/8\_MRO\_320x240.jpg&quot;,&quot;id&quot;:8,&quot;title&quot;:&quot;Mars Reconnaissance Orbiter&quot;,&quot;description&quot;:&quot;Takes high-resolution imagery of Martian terrain with extraordinary clarity. &quot;,&quot;date&quot;:&quot;August 12, 2012&quot;,&quot;url&quot;:&quot;/mars-exploration/missions/mars-reconnaissance-orbiter&quot;,&quot;link\_text&quot;:&quot;&quot;,&quot;target&quot;:&quot;\_blank&quot;,&quot;mi\_traveled&quot;:null,&quot;gallery\_subnav\_link&quot;:&quot;https://mars.nasa.gov/mro/&quot;},{&quot;thumb&quot;:&quot;/system/missions/list\_view\_images/5\_mars\_odyssey320x240.jpg&quot;,&quot;id&quot;:5,&quot;title&quot;:&quot;2001 Mars Odyssey&quot;,&quot;description&quot;:&quot;NASA's longest-lasting spacecraft at Mars. &quot;,&quot;date&quot;:&quot;April 7, 2001&quot;,&quot;url&quot;:&quot;/mars-exploration/missions/odyssey&quot;,&quot;link\_text&quot;:&quot;&quot;,&quot;target&quot;:&quot;\_blank&quot;,&quot;mi\_traveled&quot;:null,&quot;gallery\_subnav\_link&quot;:&quot;https://mars.nasa.gov/odyssey/&quot;}],&quot;search&quot;:true,&quot;search\_placeholder&quot;:{&quot;placeholder&quot;:&quot;&quot;},&quot;highlight\_current&quot;:{&quot;highlight&quot;:true,&quot;current\_id&quot;:83,&quot;parent\_ids&quot;:[]},&quot;search\_submit&quot;:&quot;/search/&quot;}">

</nav>

</div>

</div>

</div>

</header>

</div>

<div id="sticky\_nav\_spacer">

</div>

<div id="page">

<div class="page\_cover">

</div>

<!-- title to go in the page\_header -->

<div class="header\_mask">

<section class="content\_page module">

</section>

</div>

<div class="grid\_list\_page module content\_page">

<div class="grid\_layout">

<article>

<header id="page\_header">

</header>

<div class="react\_grid\_list grid\_list\_container" data-react-cache-id="GridListPage-0" data-react-class="GridListPage" data-react-props='{"left\_column":false,"class\_name":"","default\_view":"list\_view","model":"news\_items","view\_toggle":false,"search":"true","list\_item":"News","title":"News","categories":["19,165,184,204"],"order":"publish\_date desc,created\_at desc","no\_items\_text":"There are no items matching these criteria.","site\_title":"NASA’s Mars Exploration Program ","short\_title":"Mars","site\_share\_image":"/system/site\_config\_values/meta\_share\_images/1\_mars-nasa-gov.jpg","per\_page":null,"filters":"[ [ \"date\", [ [ \"2020\", \"2020\" ], [ \"2019\", \"2019\" ], [ \"2018\", \"2018\" ], [ \"2017\", \"2017\" ], [ \"2016\", \"2016\" ], [ \"2015\", \"2015\" ], [ \"2014\", \"2014\" ], [ \"2013\", \"2013\" ], [ \"2012\", \"2012\" ], [ \"2011\", \"2011\" ], [ \"2010\", \"2010\" ], [ \"2009\", \"2009\" ], [ \"2008\", \"2008\" ], [ \"2007\", \"2007\" ], [ \"2006\", \"2006\" ], [ \"2005\", \"2005\" ], [ \"2004\", \"2004\" ], [ \"2003\", \"2003\" ], [ \"2002\", \"2002\" ], [ \"2001\", \"2001\" ], [ \"2000\", \"2000\" ] ], [ \"Latest\", \"\" ], false ], [ \"categories\", [ [ \"Feature Stories\", 165 ], [ \"Press Releases\", 19 ], [ \"Spotlights\", 184 ], [ \"Status Reports\", 204 ] ], [ \"All Categories\", \"\" ], false ] ]","conditions":null,"scope\_in\_title":true,"options":{"blank\_scope":"Latest"},"results\_in\_title":false}'>

</div>

</article>

</div>

</div>

<section class="module suggested\_features">

<div class="grid\_layout">

<header>

<h2 class="module\_title">

You Might Also Like

</h2>

</header>

<section>

<script>

$(document).ready(function(){

$(".features").slick({

dots: false,

infinite: true,

speed: 300,

slide: '.features .slide',

slidesToShow: 3,

slidesToScroll: 3,

lazyLoad: 'ondemand',

centerMode: false,

arrows: true,

appendArrows: '.features .slick-nav',

appendDots: ".features .slick-nav",

responsive: [{"breakpoint":953,"settings":{"slidesToShow":2,"slidesToScroll":2,"centerMode":false}},{"breakpoint":480,"settings":{"slidesToShow":1,"slidesToScroll":1,"centerMode":true,"arrows":false,"centerPadding":"25px"}}]

});

});

</script>

<div class="features">

<div class="slide">

<div class="image\_and\_description\_container">

<a href="/news/8716/nasa-to-broadcast-mars-2020-perseverance-launch-prelaunch-activities/">

<div class="rollover\_description">

<div class="rollover\_description\_inner">

Starting July 27, news activities will cover everything from mission engineering and science to returning samples from Mars to, of course, the launch itself.

</div>

<div class="overlay\_arrow">

<img alt="More" src="/assets/overlay-arrow.png"/>

</div>

</div>

<img alt="NASA to Broadcast Mars 2020 Perseverance Launch, Prelaunch Activities" class="img-lazy" data-lazy="/system/news\_items/list\_view\_images/8716\_PIA23499-320x240.jpg" src="/assets/loading\_320x240.png"/>

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<a href="/news/8716/nasa-to-broadcast-mars-2020-perseverance-launch-prelaunch-activities/">

NASA to Broadcast Mars 2020 Perseverance Launch, Prelaunch Activities

</a>

</div>

</div>

<div class="slide">fa

<div class="image\_and\_description\_container">

<a href="/news/8695/the-launch-is-approaching-for-nasas-next-mars-rover-perseverance/">

<div class="rollover\_description">

<div class="rollover\_description\_inner">

The Red Planet's surface has been visited by eight NASA spacecraft. The ninth will be the first that includes a roundtrip ticket in its flight plan.

</div>

<div class="overlay\_arrow">

<img alt="More" src="/assets/overlay-arrow.png"/>

</div>

</div>

<img alt="The Launch Is Approaching for NASA's Next Mars Rover, Perseverance" class="img-lazy" data-lazy="/system/news\_items/list\_view\_images/8695\_24732\_PIA23499-226.jpg" src="/assets/loading\_320x240.png"/>

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<a href="/news/8695/the-launch-is-approaching-for-nasas-next-mars-rover-perseverance/">

The Launch Is Approaching for NASA's Next Mars Rover, Perseverance

</a>

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<div class="slide">

<div class="image\_and\_description\_container">

<a href="/news/8692/nasa-to-hold-mars-2020-perseverance-rover-launch-briefing/">

<div class="rollover\_description">

<div class="rollover\_description\_inner">

Learn more about the agency's next Red Planet mission during a live event on June 17.

</div>

<div class="overlay\_arrow">

<img alt="More" src="/assets/overlay-arrow.png"/>

</div>

</div>

<img alt="NASA to Hold Mars 2020 Perseverance Rover Launch Briefing" class="img-lazy" data-lazy="/system/news\_items/list\_view\_images/8692\_PIA23920-320x240.jpg" src="/assets/loading\_320x240.png"/>

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<div class="content\_title">

<a href="/news/8692/nasa-to-hold-mars-2020-perseverance-rover-launch-briefing/">

NASA to Hold Mars 2020 Perseverance Rover Launch Briefing

</a>

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<div class="slide">

<div class="image\_and\_description\_container">

<a href="/news/8659/alabama-high-school-student-names-nasas-mars-helicopter/">

<div class="rollover\_description">

<div class="rollover\_description\_inner">

Vaneeza Rupani's essay was chosen as the name for the small spacecraft, which will mark NASA's first attempt at powered flight on another planet.

</div>

<div class="overlay\_arrow">

<img alt="More" src="/assets/overlay-arrow.png"/>

</div>

</div>

<img alt="Alabama High School Student Names NASA's Mars Helicopter" class="img-lazy" data-lazy="/system/news\_items/list\_view\_images/8659\_1-PIA23883-MAIN-320x240.jpg" src="/assets/loading\_320x240.png"/>

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<div class="content\_title">

<a href="/news/8659/alabama-high-school-student-names-nasas-mars-helicopter/">

Alabama High School Student Names NASA's Mars Helicopter

</a>

</div>

</div>

<div class="slide">

<div class="image\_and\_description\_container">

<a href="/news/8645/mars-helicopter-attached-to-nasas-perseverance-rover/">

<div class="rollover\_description">

<div class="rollover\_description\_inner">

The team also fueled the rover's sky crane to get ready for this summer's history-making launch.

</div>

<div class="overlay\_arrow">

<img alt="More" src="/assets/overlay-arrow.png"/>

</div>

</div>

<img alt="Mars Helicopter Attached to NASA's Perseverance Rover" class="img-lazy" data-lazy="/system/news\_items/list\_view\_images/8645\_PIA23824-RoverWithHelicopter-32x24.jpg" src="/assets/loading\_320x240.png"/>

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<div class="content\_title">

<a href="/news/8645/mars-helicopter-attached-to-nasas-perseverance-rover/">

Mars Helicopter Attached to NASA's Perseverance Rover

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<div class="slide">

<div class="image\_and\_description\_container">

<a href="/news/8641/nasas-perseverance-mars-rover-gets-its-wheels-and-air-brakes/">

<div class="rollover\_description">

<div class="rollover\_description\_inner">

After the rover was shipped from JPL to Kennedy Space Center, the team is getting closer to finalizing the spacecraft for launch later this summer.

</div>

<div class="overlay\_arrow">

<img alt="More" src="/assets/overlay-arrow.png"/>

</div>

</div>

<img alt="NASA's Perseverance Mars Rover Gets Its Wheels and Air Brakes" class="img-lazy" data-lazy="/system/news\_items/list\_view\_images/8641\_PIA-23821-320x240.jpg" src="/assets/loading\_320x240.png"/>

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<div class="content\_title">

<a href="/news/8641/nasas-perseverance-mars-rover-gets-its-wheels-and-air-brakes/">

NASA's Perseverance Mars Rover Gets Its Wheels and Air Brakes

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</div>

<div class="grid\_layout">

<div class="slick-nav\_container">

<div class="slick-nav">

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</section>

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</div>

<footer id="site\_footer">

<div class="grid\_layout">

<section class="upper\_footer">

<div class="share\_newsletter\_container">

<div class="newsletter">

<h2>

Get the Mars Newsletter

</h2>

<form action="/newsletter-subscribe">

<input id="email" name="email" placeholder="enter email address" type="email" value=""/>

<input data-disable-with="" name="commit" type="submit" value=""/>

</form>

</div>

<div class="share">

<h2>

Follow the Journey

</h2>

<div class="social\_icons">

<!-- AddThis Button BEGIN -->

<div class="addthis\_toolbox addthis\_default\_style addthis\_32x32\_style">

<a addthis:userid="MarsCuriosity" class="addthis\_button\_twitter\_follow icon">

<img alt="twitter" src="/assets/twitter\_icon@2x.png"/>

</a>

<a addthis:userid="MarsCuriosity" class="addthis\_button\_facebook\_follow icon">

<img alt="facebook" src="/assets/facebook\_icon@2x.png"/>

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<a addthis:userid="nasa" class="addthis\_button\_instagram\_follow icon">

<img alt="instagram" src="/assets/instagram\_icon@2x.png"/>

</a>

<a addthis:url="https://mars.nasa.gov/rss/api/?feed=news&amp;category=all&amp;feedtype=rss" class="addthis\_button\_rss\_follow icon">

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</div>

<div class="gradient\_line">

</div>

</section>

<section class="sitemap">

<div class="sitemap\_directory" id="sitemap\_directory">

<div class="sitemap\_block">

<div class="footer\_sitemap\_item">

<h3 class="sitemap\_title">

<a href="/#red\_planet">

The Red Planet

</a>

</h3>

<ul>

<li>

<div class="global\_subnav\_container">

<ul class="subnav">

<li>

<a href="/#red\_planet/0" target="\_self">

Dashboard

</a>

</li>

<li>

<a href="/#red\_planet/1" target="\_self">

Science Goals

</a>

</li>

<li>

<a href="/#red\_planet/2" target="\_self">

The Planet

</a>

</li>

<li>

<a href="/#red\_planet/3" target="\_self">

Atmosphere

</a>

</li>

<li>

<a href="/#red\_planet/4" target="\_self">

Astrobiology

</a>

</li>

<li>

<a href="/#red\_planet/5" target="\_self">

Past, Present, Future, Timeline

</a>

</li>

</ul>

</div>

</li>

</ul>

</div>

</div>

<div class="sitemap\_block">

<div class="footer\_sitemap\_item">

<h3 class="sitemap\_title">

<a href="/#mars\_exploration\_program">

The Program

</a>

</h3>

<ul>

<li>

<div class="global\_subnav\_container">

<ul class="subnav">

<li>

<a href="/#mars\_exploration\_program/0" target="\_self">

Mission Statement

</a>

</li>

<li>

<a href="/#mars\_exploration\_program/1" target="\_self">

About the Program

</a>

</li>

<li>

<a href="/#mars\_exploration\_program/2" target="\_self">

Organization

</a>

</li>

<li>

<a href="/#mars\_exploration\_program/3" target="\_self">

Why Mars?

</a>

</li>

<li>

<a href="/#mars\_exploration\_program/4" target="\_self">

Research Programs

</a>

</li>

<li>

<a href="/#mars\_exploration\_program/5" target="\_self">

Planetary Resources

</a>

</li>

<li>

<a href="/#mars\_exploration\_program/6" target="\_self">

Technologies

</a>

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</ul>

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</li>

</ul>

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</div>

<div class="sitemap\_block">

<div class="footer\_sitemap\_item">

<h3 class="sitemap\_title">

<a href="/#news\_and\_events">

News &amp; Events

</a>

</h3>

<ul>

<li>

<div class="global\_subnav\_container">

<ul class="subnav">

<li class="current">

<a href="/news" target="\_self">

News

</a>

</li>

<li>

<a href="/events" target="\_self">

Events

</a>

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</div>

<div class="sitemap\_block">

<div class="footer\_sitemap\_item">

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<a href="/#multimedia">

Multimedia

</a>

</h3>

<ul>

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<ul class="subnav">

<li>

<a href="/multimedia/images/" target="\_self">

Images

</a>

</li>

<li>

<a href="/multimedia/videos/" target="\_self">

Videos

</a>

</li>

<li>

<a href="/multimedia/more-resources/" target="\_self">

More Resources

</a>

</li>

</ul>

</div>

</li>

</ul>

</div>

</div>

<div class="sitemap\_block">

<div class="footer\_sitemap\_item">

<h3 class="sitemap\_title">

<a href="/#missions\_gallery\_subnav">

Missions

</a>

</h3>

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<div class="global\_subnav\_container">

<ul class="subnav">

<li>

<a href="/mars-exploration/missions/?category=167" target="\_self">

Past

</a>

</li>

<li>

<a href="/mars-exploration/missions/?category=170" target="\_self">

Present

</a>

</li>

<li>

<a href="/mars-exploration/missions/?category=171" target="\_self">

Future

</a>

</li>

<li>

<a href="/mars-exploration/partners" target="\_self">

International Partners

</a>

</li>

</ul>

</div>

</li>

</ul>

</div>

</div>

<div class="sitemap\_block">

<div class="footer\_sitemap\_item">

<h3 class="sitemap\_title">

<a href="/#more">

More

</a>

</h3>

<ul>

<li>

<div class="global\_subnav\_container">

<ul class="subnav">

</ul>

</div>

</li>

</ul>

</div>

</div>

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<div class="gradient\_line">

</div>

</section>

<section class="lower\_footer">

<div class="nav\_container">

<nav>

<ul>

<li>

<a href="http://science.nasa.gov/" target="\_blank">

NASA Science Mission Directorate

</a>

</li>

<li>

<a href="https://www.jpl.nasa.gov/copyrights.php" target="\_blank">

Privacy

</a>

</li>

<li>

<a href="http://www.jpl.nasa.gov/imagepolicy/" target="\_blank">

Image Policy

</a>

</li>

<li>

<a href="https://mars.nasa.gov/feedback/" target="\_self">

Feedback

</a>

</li>

</ul>

</nav>

</div>

<div class="credits">

<div class="footer\_brands\_top">

<p>

Managed by the Mars Exploration Program and the Jet Propulsion Laboratory for NASA’s Science Mission Directorate

</p>

</div>

<!-- .footer\_brands -->

<!-- %a.jpl{href: "", target: "\_blank"}Institution -->

<!-- -->

<!-- %a.caltech{href: "", target: "\_blank"}Institution -->

<!-- .staff -->

<!-- %p -->

<!-- - get\_staff\_for\_category(get\_field\_from\_admin\_config(:web\_staff\_category\_id)) -->

<!-- - @staff.each\_with\_index do |staff, idx| -->

<!-- - unless staff.is\_in\_footer == 0 -->

<!-- = staff.title + ": " -->

<!-- - if staff.contact\_link =~ /@/ -->

<!-- = mail\_to staff.contact\_link, staff.name, :subject => "[#{@site\_title}]" -->

<!-- - elsif staff.contact\_link.present? -->

<!-- = link\_to staff.name, staff.contact\_link -->

<!-- - else -->

<!-- = staff.name -->

<!-- - unless (idx + 1 == @staff.size) -->

<!-- %br -->

</div>

</section>

</div>

</footer>

</div>

</div>

<script id="\_fed\_an\_ua\_tag" src="https://dap.digitalgov.gov/Universal-Federated-Analytics-Min.js?agency=NASA&amp;subagency=JPL-Mars-MEPJPL&amp;pua=UA-9453474-9,UA-118212757-11&amp;dclink=true&amp;sp=searchbox&amp;exts=tif,tiff,wav" type="text/javascript">

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</body>

</html>