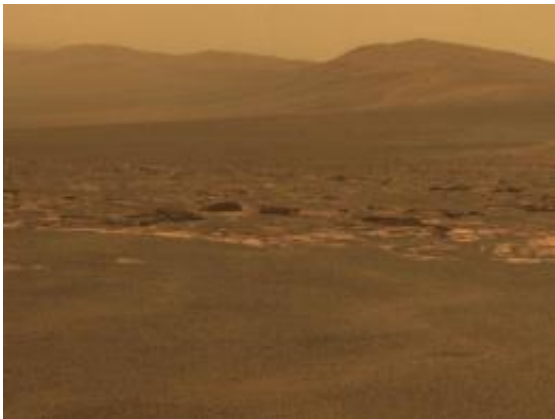


# Scientists say Obama Mars cuts to hit research (Update)

February 13 2012, by Kerry Sheridan

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In this image released by NASA in 2011, a portion of the west rim of Endeavour crater sweeps southward in this color view from NASA's Mars Exploration Rover Opportunity. The budget proposed Monday by US President Barack Obama for fiscal year 2013 would slash \$226 million from the US space agency's Mars exploration program, likely axing a planned partnership with Europe.

The United States will scale back Mars exploration under a proposed budget by President Barack Obama released Monday that has some scientists fuming over the risk of a NASA brain-drain.

The plan kills a deal between the US and European space agencies to cooperate on Mars robotic rover missions in 2016 and 2018, with a view to preparing to return samples from the red planet in the next decade.

NASA administrator Charles Bolden admitted that "tough choices" had to be made in axing the European deal, but vowed to restructure the Mars program so that future robotics mission could potentially be revisited in 2018-2020.

"This means we will not be moving forward with the planned 2016 and 2018 ExoMars mission that we have been exploring with the European Space Agency," Bolden said.

The fiscal 2013 budget, which is unlikely to face a vote in Congress while Obama seeks re-election, called for a \$226 million reduction, or a near 39 percent cut in the US space agency's Mars exploration program from \$587 million to \$361 million.

Meanwhile, it funds other big projects such as the James Webb Space Telescope and a new heavy-lift rocket to propel an eventual deep space mission to an asteroid, and provides seed money for private companies seeking to replace the space shuttle which was retired last year.

The overall proposal is to give NASA \$17.7 billion, a decrease of 0.3 percent or \$59 million less than 2012.

"It is a real scientific tragedy and I personally believe it is a national embarrassment," G. Scott Hubbard, a Stanford University professor who served as the first NASA Mars program director, told AFP.

"Here we had one of the most successful NASA programs of the last decade and it is being effectively turned off."

Obama's budget pointed to the successful launch last year of the Mars Science Laboratory, also known as Curiosity, the biggest and most advanced rover ever built which should land in August, as it called for reduced support for new robotic projects.

"It is sad for science," said Pascale Ehrenfreund, research professor of Space Policy at George Washington University.

"But you have to focus on the future. I am very convinced that when the Mars Science Laboratory lands in August and takes successful measurements on Mars that the situation might change rather fast. The budget may be reconsidered."

According to Bill Nye, chief executive of the Planetary Society, an association of scientists skilled in the search for alien life, program cuts could have devastating consequences.

"We are concerned that once planetary exploration programs are stopped, they just can't be restarted," Nye told AFP.

NASA currently employs the world's top experts in landing robotic vehicles on Mars, he said, noting that the recent failure by Russia to get its Mars probe off to a successful launch provides evidence of the danger.

"If all the (NASA) people expert in Entry, Descent, and Landing (EDL) on Mars have no missions and then retire, the program just cannot recover," Nye said.

Russia has been floated as potential partner with Europe in the ExoMars project should the United States withdraw.

According to the ExoMars deal made in 2009, NASA would have contributed \$1.4 billion to the project and ESA would have chipped in \$1.2 billion to send an orbiter to Mars in 2016 and two rovers to land on the red planet in 2018.

Tens of millions of US dollars have already been spent on the plans,

according to Hubbard.

John Logsdon, an external White House adviser and longtime space analyst, said the United States withdrew from ExoMars because it "cannot afford now to commit itself to another multi-billion dollar project."

Other politically controversial projects did receive funding, including the elaborate James Webb Space Telescope, 100 times more sensitive than its predecessor, the Hubble.

The Obama budget urges that the project be capped at \$8 billion. NASA said in December that the project was on track to launch in 2018 at a total project cost of \$8.8 billion, after a series of delays and cost overruns.

NASA would also get \$3 billion for developing new spacecraft and rockets to take the next generation of astronauts to space, after the space shuttle program ended last year, leaving Russia as the sole taxi to the International Space Station.

Big projects include \$1.86 billion for the continued development of a Space Launch System (SLS) heavy lift rocket and \$1.2 billion for the Multi-Purpose Crew Vehicle to "with a key initial goal of visiting an asteroid next decade," it said.

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