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Category: LRO/LCROSS

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[KSC-2009-3793](#) (06/18/2009) --- CAPE CANAVERAL, Fla. – Smoke rolls across Launch Pad 41 at Cape Canaveral Air force Station in Florida as the Atlas V/Centaur rocket topped with NASA's Lunar Reconnaissance Orbiter, or LRO, and NASA's Lunar Crater Observation and Sensing Satellite, known as LCROSS, lifts off. Launch was on-time at 5:32 p.m. EDT June 18. LRO and LCROSS are the first missions in NASA's plan to return humans to the moon and begin establishing a lunar outpost by 2020. The LRO also includes seven instruments that will help NASA characterize the moon's surface: DIVINER, LAMP, LEND, LOLA , CRATER, Mini-RF and LROC. Photo courtesy of Scott Andrews

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[KSC-2009-3792](#) (06/18/2009) --- CAPE CANAVERAL, Fla. – The Atlas V/Centaur rocket with NASA's Lunar Reconnaissance Orbiter, or LRO, and NASA's Lunar Crater Observation and Sensing Satellite, known as LCROSS, on top leaps from Launch Pad 41 at Cape Canaveral Air force Station in Florida. Surrounding the pad are the towers that provide lightning protection. Launch was on-time at 5:32 p.m. EDT June 18. LRO and LCROSS are the first missions in NASA's plan to return humans to the moon and begin establishing a lunar outpost by 2020. The LRO also includes seven instruments that will help NASA

characterize the moon's surface: DIVINER, LAMP, LEND, LOLA , CRATER, Mini-RF and LROC. Photo courtesy of Scott Andrews

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[KSC-2009-3791](#) (06/18/2009) --- CAPE CANAVERAL, Fla. – Like a Roman candle, the Atlas V/Centaur rocket with NASA's Lunar Reconnaissance Orbiter, or LRO, and NASA's Lunar Crater Observation and Sensing Satellite, known as LCROSS, on top shoot into the sky from Launch Pad 41 at Cape Canaveral Air Force Station in Florida. Around the pad are the towers that provide lightning protection. Launch was on-time at 5:32 p.m. EDT June 18. LRO and LCROSS are the first missions in NASA's plan to return humans to the moon and begin establishing a lunar outpost by 2020. The LRO also includes seven instruments that will help NASA characterize the moon's surface: DIVINER, LAMP, LEND, LOLA , CRATER, Mini-RF and LROC. Photo courtesy of Scott Andrews

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[KSC-2009-3790](#) (06/18/2009) --- CAPE CANAVERAL, Fla. – On Launch Complex 41 at Cape Canaveral Air Force Station in Florida, smoke fills the pad as the Atlas V/Centaur carrying NASA's Lunar Reconnaissance Orbiter, or LRO, and NASA's Lunar Crater Observation and Sensing Satellite, known as LCROSS, lifts off. LRO and LCROSS are the first missions in NASA's plan to return humans to the moon and begin establishing a lunar outpost by 2020. The LRO also includes seven instruments that will help NASA characterize the moon's surface: DIVINER, LAMP, LEND, LOLA , CRATER, Mini-RF and LROC. Launch was on-time at 5:32 p.m. EDT. Photo credit: NASA/Sandra Joseph, Tony Gray

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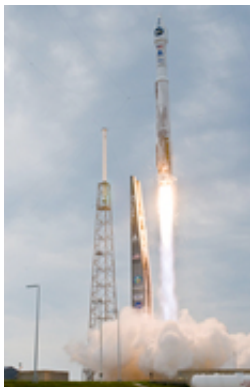
[KSC-2009-3789](#) (06/18/2009) --- CAPE CANAVERAL, Fla. – Trailing a column of fire, the Atlas V/Centaur carrying NASA's Lunar Reconnaissance Orbiter, or LRO, and NASA's Lunar Crater Observation and Sensing Satellite, known as LCROSS, races above the lightning tower at left on Launch Complex 41 at Cape Canaveral Air Force Station in Florida. The surrounding towers are part of the lightning protection system. LRO and LCROSS are the first missions in NASA's plan to return humans to the moon and begin establishing a lunar outpost by 2020. The LRO also includes seven instruments that will help NASA characterize the moon's surface: DIVINER, LAMP, LEND, LOLA , CRATER, Mini-RF and LROC. Launch was on-time at 5:32 p.m. EDT. Photo credit: NASA/Sandra Joseph, Tony Gray

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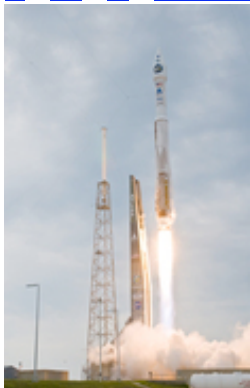
[KSC-2009-3788](#) (06/18/2009) --- CAPE CANAVERAL, Fla. – Lightning towers stand like guards around Launch Complex 41 at Cape Canaveral Air Force Station in Florida as the Atlas V/Centaur carrying NASA's Lunar Reconnaissance Orbiter, or LRO, and NASA's Lunar Crater Observation and Sensing Satellite, known as LCROSS, lifts off. LRO and LCROSS are the first missions in NASA's plan to return humans to the moon and begin establishing a lunar outpost by 2020. The LRO also includes seven instruments that will help NASA characterize the moon's surface: DIVINER, LAMP, LEND, LOLA , CRATER, Mini-RF and LROC. Launch was on-time at 5:32 p.m. EDT. Photo credit: NASA/Sandra Joseph, Tony Gray

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[KSC-2009-3787](#) (06/18/2009) --- CAPE CANAVERAL, Fla. – Trailing a column of fire, the Atlas V/Centaur carrying NASA's Lunar Reconnaissance Orbiter, or LRO, and NASA's Lunar Crater Observation and Sensing Satellite, known as LCROSS, races above the lightning tower at left on Launch Complex 41 at Cape Canaveral Air Force Station in Florida. LRO and LCROSS are the first missions in NASA's plan to return humans to the moon and begin establishing a lunar outpost by 2020. The LRO also includes seven instruments that will help NASA characterize the moon's surface: DIVINER, LAMP, LEND, LOLA , CRATER, Mini-RF and LROC. Launch was on-time at 5:32 p.m. EDT. Photo credit: NASA/Sandra Joseph, Tony Gray

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[KSC-2009-3786](#) (06/18/2009) --- CAPE CANAVERAL, Fla. – Trailing a column of fire, the Atlas V/Centaur carrying NASA's Lunar Reconnaissance Orbiter, or LRO, and NASA's Lunar Crater Observation and Sensing Satellite, known as LCROSS, hurtles off Launch Complex 41 at Cape Canaveral Air Force Station in Florida. LRO and LCROSS are the first missions in NASA's plan to return humans to the moon and begin establishing a lunar outpost by 2020. The LRO also includes seven instruments that will help NASA characterize the moon's surface: DIVINER, LAMP, LEND, LOLA , CRATER, Mini-RF and LROC. Launch was on-time at 5:32 p.m. EDT. Photo credit: NASA/Sandra Joseph, Tony Gray

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[KSC-2009-3785](#) (06/18/2009) --- CAPE CANAVERAL, Fla. – Trailing a column of fire, the Atlas V/Centaur carrying NASA's Lunar Reconnaissance Orbiter, or LRO, and NASA's Lunar Crater Observation and Sensing Satellite, known as LCROSS, hurtles off Launch Complex 41 at Cape Canaveral Air Force Station in Florida. LRO and LCROSS are the first missions in NASA's plan to return humans to the moon and begin establishing a lunar outpost by 2020. The LRO also includes seven instruments that will help NASA characterize the moon's surface: DIVINER, LAMP, LEND, LOLA , CRATER, Mini-RF and LROC. Launch was on-time at 5:32 p.m. EDT. Photo credit: NASA/Sandra Joseph, Tony Gray

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[KSC-2009-3784](#) (06/18/2009) --- CAPE CANAVERAL, Fla. – Smoke pours across Launch Complex 41 at Cape Canaveral Air Force Station in Florida as the Atlas V/Centaur carrying NASA's Lunar Reconnaissance Orbiter, or LRO, and NASA's Lunar Crater Observation and Sensing Satellite, known as LCROSS, roars into the sky. The towers around the pad are part of the lightning protection system. LRO and LCROSS are the first missions in NASA's plan to return humans to the moon and begin establishing a lunar outpost by 2020. The LRO also includes seven instruments that will help NASA characterize the moon's surface: DIVINER, LAMP, LEND, LOLA , CRATER, Mini-RF and LROC. Launch was on-time at 5:32 p.m. EDT. Photo credit: NASA/Tom Farrar, Kevin O'Connell

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[KSC-2009-3783](#) (06/18/2009) --- CAPE CANAVERAL, Fla. – Trailing a column of fire, the Atlas V/Centaur carrying NASA's Lunar Reconnaissance Orbiter, or LRO, and NASA's Lunar Crater Observation and Sensing Satellite, known as LCROSS, hurtles off Launch Complex 41 at Cape Canaveral Air Force Station in Florida. LRO and LCROSS are the first missions in NASA's plan to return humans to the moon and begin establishing a lunar outpost by 2020. The LRO also includes seven instruments that will help NASA characterize the moon's surface: DIVINER, LAMP, LEND, LOLA , CRATER, Mini-RF and LROC. Launch was on-time at 5:32 p.m. EDT. Photo credit: NASA/Tom Farrar, Kevin O'Connell

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[KSC-2009-3782](#) (06/18/2009) --- CAPE CANAVERAL, Fla. – NASA's Lunar Reconnaissance Orbiter, or LRO, and NASA's Lunar Crater Observation and Sensing Satellite, known as LCROSS, lifts off from Launch Pad 41 at Cape Canaveral Air Force Station in Florida atop an Atlas V/Centaur rocket. LRO and LCROSS are the first missions in NASA's plan to return humans to the moon and begin establishing a lunar outpost by 2020. The LRO also includes seven instruments that will help NASA characterize the moon's surface: DIVINER, LAMP, LEND, LOLA , CRATER, Mini-RF and LROC. Launch was on-time at 5:32 p.m. EDT. Photo credit: NASA/Tom Farrar, Kevin O'Connell

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[KSC-2009-3781](#) (06/18/2009) --- CAPE CANAVERAL, Fla. – Trailing a column of fire, the Atlas V/Centaur carrying NASA's Lunar Reconnaissance Orbiter, or LRO, and NASA's Lunar Crater Observation and Sensing Satellite, known as LCROSS, hurtles off Launch Complex 41 at Cape Canaveral Air Force Station in Florida. LRO and LCROSS are the first missions in NASA's plan to return humans to the moon and begin establishing a lunar outpost by 2020. The LRO also includes seven instruments that will help NASA characterize the moon's surface: DIVINER, LAMP, LEND, LOLA , CRATER, Mini-RF and LROC. Launch was on-time at 5:32 p.m. EDT. Photo credit: NASA/Tom Farrar, Kevin O'Connell

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[KSC-2009-3780](#) (06/18/2009) --- CAPE CANAVERAL, Fla. – The Atlas V/Centaur rocket fires as it lifts NASA's Lunar Reconnaissance Orbiter, or LRO, and NASA's Lunar Crater Observation and Sensing Satellite, known as LCROSS, from Launch Complex 41 at Cape Canaveral Air Force Station in Florida. The tower at left is part of the lightning protection system on the pad. LRO and LCROSS are the first missions in NASA's plan to return humans to the moon and begin establishing a lunar outpost by 2020. The LRO also includes seven instruments that will help NASA characterize the moon's surface: DIVINER, LAMP, LEND, LOLA , CRATER, Mini-RF and LROC. Launch was on-time at 5:32 p.m. EDT. Photo credit: NASA/Tom Farrar, Kevin O'Connell

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[KSC-2009-3779](#) (06/18/2009) --- CAPE CANAVERAL, Fla. – Fire signals liftoff of the Atlas V/Centaur carrying NASA's Lunar Reconnaissance Orbiter, or LRO, and NASA's Lunar Crater Observation and Sensing Satellite, known as LCROSS, from Launch Complex 41 at Cape Canaveral Air Force Station in Florida. The tower at left is part of the lightning protection system on the pad. LRO and LCROSS are the first missions in NASA's plan to return humans to the moon and begin establishing a lunar outpost by 2020. The LRO also includes seven instruments that will help NASA characterize the moon's surface: DIVINER, LAMP, LEND, LOLA , CRATER, Mini-RF and LROC. Launch was on-time at 5:32 p.m. EDT. Photo credit: NASA/Tom Farrar, Kevin O'Connell

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[KSC-2009-3778](#) (06/18/2009) --- CAPE CANAVERAL, Fla. – Smoke pours across Launch Complex 41 at Cape Canaveral Air Force Station in Florida as the Atlas V/Centaur carrying NASA's Lunar Reconnaissance Orbiter, or LRO, and NASA's Lunar Crater Observation and Sensing Satellite, known as LCROSS, roars into the sky. The towers around the pad are part of the lightning protection system. LRO and LCROSS are the first missions in NASA's plan to return humans to the moon and begin establishing a lunar outpost by 2020. The LRO also includes seven instruments that will help NASA characterize the moon's surface: DIVINER, LAMP, LEND, LOLA , CRATER, Mini-RF and LROC. Launch was on-time at 5:32 p.m. EDT. Photo credit: NASA/Tom Farrar, Kevin O'Connell

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[KSC-2009-3777](#) (06/18/2009) --- CAPE CANAVERAL, Fla. – Fire and smoke signal the liftoff of the Atlas V/Centaur carrying NASA's Lunar Reconnaissance Orbiter, or LRO, and NASA's Lunar Crater Observation and Sensing Satellite, known as LCROSS, toward orbit around the moon. Launch from Launch Complex 41 at Cape Canaveral Air Force Station in Florida was on-time at 5:32 p.m. EDT. The towers around the pad are part of the lightning protection system. LRO and LCROSS are the first missions in NASA's plan to return humans to the moon and begin establishing a lunar outpost by 2020. The LRO also includes seven instruments that will help NASA characterize the moon's surface: DIVINER, LAMP, LEND, LOLA ,

CRATER, Mini-RF and LROC. Photo credit: NASA/Tom Farrar, Kevin O'Connell

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[KSC-2009-3776](#) (06/18/2009) --- CAPE CANAVERAL, Fla. – Fire and smoke signal the liftoff of the Atlas V/Centaur carrying NASA's Lunar Reconnaissance Orbiter, or LRO, and NASA's Lunar Crater Observation and Sensing Satellite, known as LCROSS, toward orbit around the moon. Launch from Launch Complex 41 at Cape Canaveral Air Force Station in Florida was on-time at 5:32 p.m. EDT. The towers around the pad are part of the lightning protection system. LRO and LCROSS are the first missions in NASA's plan to return humans to the moon and begin establishing a lunar outpost by 2020. The LRO also includes seven instruments that will help NASA characterize the moon's surface: DIVINER, LAMP, LEND, LOLA , CRATER, Mini-RF and LROC. Photo credit: NASA/Tom Farrar, Kevin O'Connell

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[KSC-2009-3775](#) (06/18/2009) --- CAPE CANAVERAL, Fla. – The Atlas V/Centaur rocket carrying NASA's Lunar Reconnaissance Orbiter, or LRO, and NASA's Lunar Crater Observation and Sensing Satellite, known as LCROSS, leaps into the sky with a tail of smoke behind as it lifts off from Launch Complex 41 at Cape Canaveral Air Force Station in Florida. Surrounding the pad below are lightning towers. LRO and LCROSS are the first missions in NASA's plan to return humans to the moon and begin establishing a lunar outpost by 2020. The LRO also includes seven instruments that will help NASA characterize the moon's surface: DIVINER, LAMP, LEND, LOLA , CRATER, Mini-RF and LROC. Launch was on-time at 5:32 p.m. EDT June 18. Photo credit: NASA/Jeffery Marino

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[KSC-2009-3774](#) (06/18/2009) --- CAPE CANAVERAL, Fla. – On Launch Complex 41 at Cape Canaveral Air Force Station in Florida, bursts of smoke and steam signal liftoff for the Atlas V/Centaur rocket carrying NASA's Lunar Reconnaissance Orbiter, or LRO, and NASA's Lunar Crater Observation and Sensing Satellite, known as LCROSS, toward space. Surrounding the pad are lightning towers. LRO and LCROSS are the first missions in NASA's plan to return humans to the moon and begin establishing a lunar outpost by 2020. The LRO also includes seven instruments that will help NASA characterize the moon's surface: DIVINER, LAMP, LEND, LOLA , CRATER, Mini-RF and LROC. Launch was on-time at 5:32 p.m. EDT June 18. Photo credit: NASA/Jeffery Marino

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