

Head Slate:

Slug: NASA's HD Blue Marble Resource Tape

TRT: 17:29

GSFC Library # G2007-002HD

Super(s): NASA

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For more info: http://www.nasa.gov/centers/goddard/multimedia/hd_catalogue.html

Synopsis: Goddard Television's vision is to produce and communicate knowledge about our study of the Earth and Space; sharing NASA and Goddard Space Flight Center, its missions, programs, discoveries, experts, and facilities with 245 million Americans and other TV viewers around the globe. In line with this vision, Goddard is releasing its first set of high definition resource tapes, showcasing some of the best visuals we have to offer. This tape is a set of HD visualizations using the "Blue Marble Next Generation" imagery from the Moderate Resolution Imaging Spectroradiometer (MODIS). In it we see beautifully changing seasons and snow cover from a variety of perspectives around the globe.

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Clip Slate: The Original "Blue Marble"

Description: On December 7, 1972, from a distance of about 45,000 km (28,000 mi), the crew of Apollo 17 took one of the most famous photographs ever made of the Earth. This original Blue Marble inspired later images of the Earth compiled from satellite data.

Section TRT: :15

Super(s): NASA

For More Info: http://earthobservatory.nasa.gov/Newsroom/BlueMarble/BlueMarble_history.html

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Clip Slate: Seasonal Land Cover Change HD Visualizations

Description: The Blue Marble Next Generation dataset provides a monthly, global, cloud-free, true-color picture of the Earth's land cover at a 500-meter spatial resolution. The following visualizations show seasonal variations such as snowfall, spring greening and droughts in a seamless fashion, thereby heightening awareness of changes in the Earth's climate.

Section TRT: 5:21

Super(s): NASA

ITEM 1: Global Seasonal Land Cover with Artic Sea Ice

In this animation, the globe slowly rotates one full turn while seasonal land cover and Arctic sea ice vary through time.

TRT: 1:13

For More Info: <http://svs.gsfc.nasa.gov/vis/a000000/a003400/a003404/index.html>

ITEM 2: Global Tour of Seasonal Land Cover

This animation shows a global rotation of seasonal changes in land cover. Land cover fades from month to month, and is displayed at a rate of two months per second.

TRT: 1:03

For More Info: <http://svs.gsfc.nasa.gov/vis/a000000/a003200/a003272/index.html>

ITEM 3: Seasonal Land Cover Change over the Eastern United States

This animation shows how the land cover changes with the seasons as we fly over the Eastern United States, from Florida to Maine.

TRT: :27

For More Info: <http://svs.gsfc.nasa.gov/vis/a000000/a003200/a003271/index.html>

ITEM 4: Seasonal Land Cover Change over the Alps

This animation zooms into Northern Italy and shows seasonal land cover over the Alps and surrounding regions.

TRT: :40

For More Info: <http://svs.gsfc.nasa.gov/vis/a000000/a003200/a003270/index.html>

ITEM 5: Seasonal Land Cover Change over Western Asia

This animation shows land cover changes as we zoom over Western Asia.

TRT: :20

For More Info: <http://svs.gsfc.nasa.gov/vis/a000000/a003200/a003269/index.html>

ITEM 6: Seasonal Land Cover Change over Eastern Asia

This animation shows seasonal land cover changes over Northeastern China and Southeastern Russia, viewed from the vantage point of the Sea of Japan.

TRT: :18

For More Info: <http://svs.gsfc.nasa.gov/vis/a000000/a003200/a003278/index.html>

ITEM 7: Seasonal Land Cover Change over the Nile Delta

This animation shows seasonal land cover change over the Nile delta in 2004.

TRT: :18

For More Info: <http://svs.gsfc.nasa.gov/vis/a000000/a003200/a003277/index.html>

Slug: NASA's HD Blue Marble Resource Tape**Clip Slate: Snow Cover HD Visualizations**

Description: The Moderate Resolution Imaging Spectroradiometer (MODIS) provides data in 36 spectral bands, some of which are used in an algorithm to map global snow cover. The following animations show the dynamic behavior of the advance and retreat of continental snow cover.

Section TRT: 10:59

Super(s): NASA

ITEM 1: Global Snow Cover from MODIS

This animation shows the global advance and retreat of continental snow cover for the winter of 2001-02. It concludes with a zoom in to the Sierra Nevada Mountains.

TRT: 1:46

For More Info: <http://svs.gsfc.nasa.gov/vis/a000000/a002400/a002484/index.html>

ITEM 2: Daily Snow and Sea Ice Surface Temperature over the Northern Hemisphere

This animation shows the daily advance and retreat of snow cover, and sea ice surface temperature over the Northern Hemisphere during the winter of 2002-2003. Snow cover over the tip of South America is also shown during the summer of 2000.

TRT: 3:47

For More Info: <http://svs.gsfc.nasa.gov/vis/a000000/a002900/a002981/index.html>

ITEM 3: Daily Snow and Sea Ice Temperature over the North Pole

This animation shows the daily advance and retreat of snow cover, and sea ice surface temperature over the North Pole during the winter of 2002-2003.

TRT: 1:49

For More Info: <http://svs.gsfc.nasa.gov/vis/a000000/a002900/a002982/index.html>

ITEM 4: Daily Snow and Sea Ice Temperature over North America

This animation shows the daily advance and retreat of snow cover, and sea ice surface temperature over North America during the winter of 2002-2003.

TRT: :54

For More Info: <http://svs.gsfc.nasa.gov/vis/a000000/a002900/a002983/index.html>

ITEM 5: Daily Snow and Sea Ice Temperature over Europe

This animation shows the daily advance and retreat of snow cover, and sea ice surface temperature over Europe during the winter of 2002-2003.

TRT: :54

For More Info: <http://svs.gsfc.nasa.gov/vis/a000000/a002900/a002984/index.html>

ITEM 6: Daily Snow and Sea Ice Temperature over Asia

This animation shows the daily advance and retreat of snow cover, and sea ice surface temperature over Asia during the winter of 2002-2003.

TRT: :54

For More Info: <http://svs.gsfc.nasa.gov/vis/a000000/a002900/a002985/index.html>