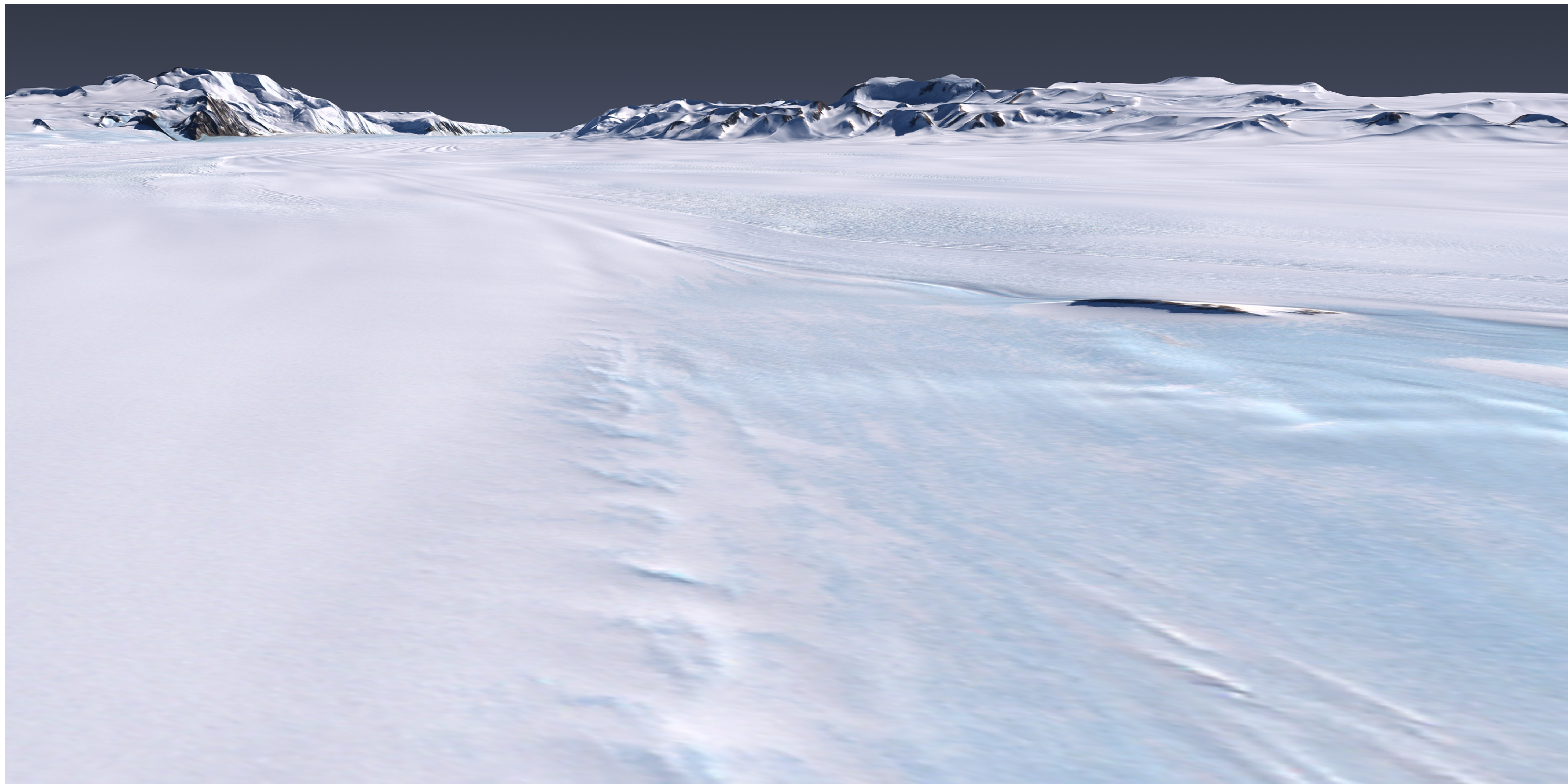
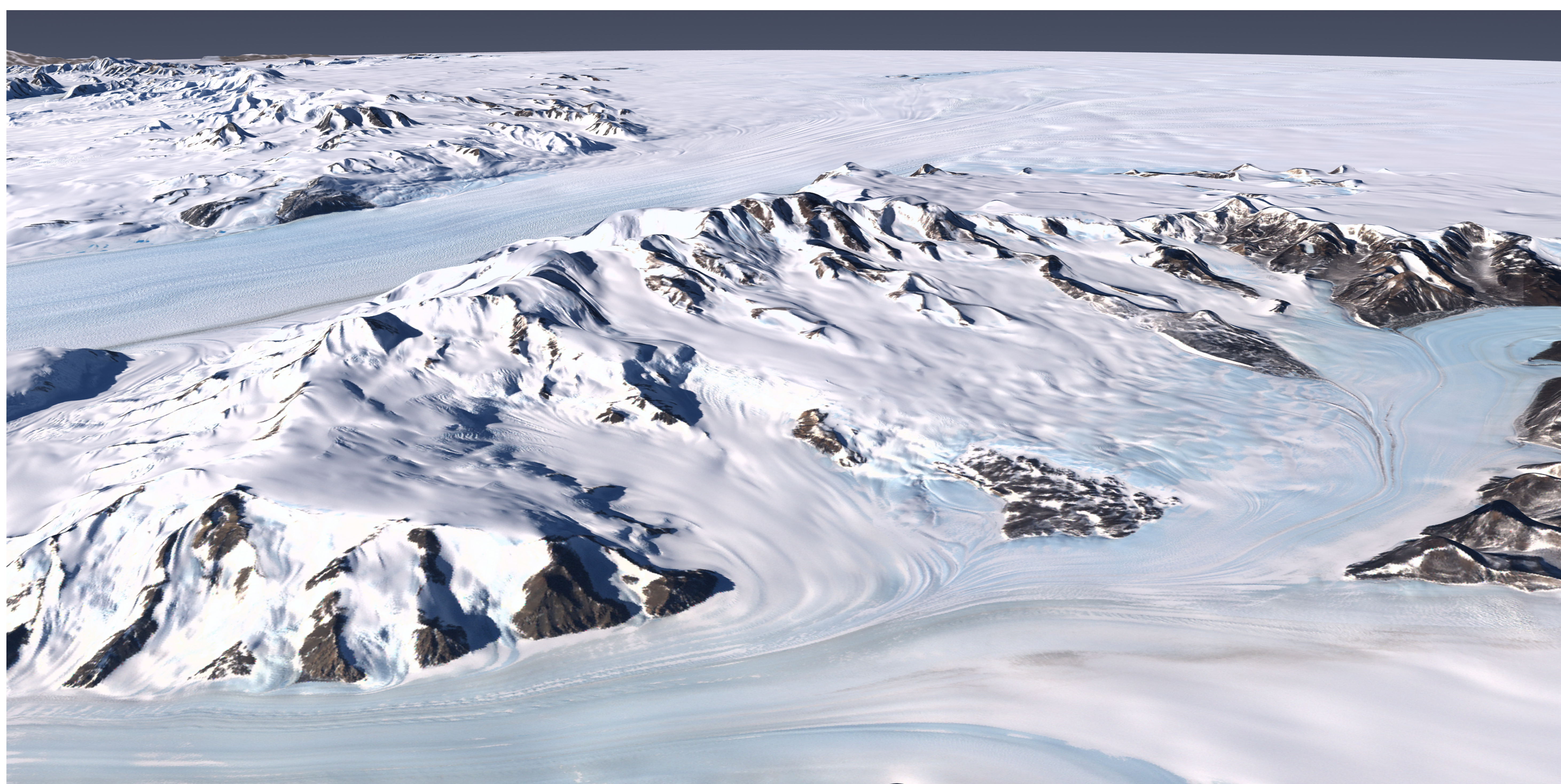


# Landsat Image Mosaic of Antarctica (LIMA)



LIMA presents the first-ever, true-color, high-resolution view of Antarctica. Prepared from 1100 Landsat-7 images collected from 1999 to 2003, it provides scientists and non-scientists a stunning "you are there" view of the least familiar continent. Shown here are two perspectives of Byrd Glacier, one of the largest in Antarctica. The down-glacier view (above) looks northeastward and the up-glacier regional view (below) looks southward toward the South Pole which is 1050 km distant. The 15-meter resolution imagery is draped over the Radarsat Antarctic Mapping Project Digital Elevation Model Version 2 at 4x (above) and 2x (below) vertical exaggeration. Subsets of the mosaic, including individual scenes, prepared sub-continental tiles and user-customized regions as well as educational materials are available at the two web sites shown at the bottom of the poster.



**LIMA** Landsat Image Mosaic of Antarctica  
Faces of Antarctica

- Meet Antarctica
- Antarctic Mysteries
- About LIMA
- View LIMA
- Find an Antarctic Feature
- LIMA Quest Challenge
- McMurdo Flying Tour (mp4 file, 55.5 MB)
- Contact Us
- Library

The Landsat Image Mosaic of Antarctica (LIMA) is the first-ever true-color high-resolution satellite view of the Antarctic continent enabling everyone to see Antarctica as it appears in real life. The primary purpose of this site is to provide materials that will allow for both students and educators to explore the continent through the "Antarctic Mysteries" section.

This web site is designed as part of the International Polar Year to familiarize people with Antarctica, to explore the richness of its features, to learn about why Antarctica matters to us all, and to explain and demonstrate how scientists use satellite imagery to study the continent.

- View LIMA
- Download Mosaics and Landsat Scenes
- Download Customized Area
- Download LIMA Poster, Maps, and More from BAS
- Interactive Atlas
- Order USGS Maps, Posters, and Wall Art
- Browse the Digital Library
- Locate GIS Resources

**LANDSAT IMAGE MOSAIC OF ANTARCTICA**

Created for the International Polar Year 2007-2009  
Sponsored by the U. S. Geological Survey, National Science Foundation,  
National Aeronautics and Space Administration, and the British Antarctic Survey.

**Newsroom**  
**Educational Resources (USGS)**  
**Faces of Antarctica (NASA)**  
**Discovering Antarctica (BAS)**  
**Contact Us**

In support of the International Polar Year (IPY 2007-2008), LIMA brings the coldest continent on Earth alive in greater detail than ever before through this virtually cloudless, seamless, and high resolution satellite view of Antarctica.

The U.S. Geological Survey (USGS), the British Antarctic Survey (BAS), and the National Aeronautics and Space Administration (NASA), with funding from the National Science Foundation (NSF), created LIMA from more than 1,000 Landsat ETM+ scenes.

As the first major scientific outcome of the IPY, LIMA truly fulfills the IPY goals. LIMA is an international effort, supports current scientific polar research, encourages new projects, and helps the general public visualize Antarctica and changes happening to this southernmost environment. Researchers and the general public can download LIMA and all of the component Landsat scenes at no charge.

Pan to view the continent and zoom in to see the stunning detail of this Natural-Color, Pan-Sharpened LIMA (bands 3, 2, 1). LIMA covers the entire continent except from the South Pole at 90 degrees south to 82.5 degrees south latitude, where Landsat has no coverage because of its near-polar orbit. To provide a continental view, the image above has LIMA 3, 2, 1 overlaying the MODIS Mosaic of Antarctica (MOA).

The opening view includes McMurdo Station, the largest research base in Antarctica. Located at the tip of Hut Point Peninsula on Ross Island, McMurdo has been continually operated by the United States of America since 1956. Ross Island is roughly 72 km (45 mi) across. The flat, white areas are the Ross Ice Shelf and other sea ice off the coast of Antarctica. Also visible are the Erebus Glacier Tongue, Koettlitz and Ferrar Glaciers, and the Royal Society Range.

<http://lima.nasa.gov>

<http://lima.usgs.gov>