Album caption:

IceCube is the world's largest neutrino detector, encompassing a cubic kilometer of ice at the South Pole.  The construction of the neutrino observatory lasted seven seasons, completed on December 18, 2010.

1. Image: 1-blueTopArray\_black

The IceCube detector is made up of 86 strings with a total of 5,160 Digital Optical Modules that are used to sense and record neutrino events. The detector also includes a surface component called IceTop used to detect showers of secondary particles generated by interactions of high-energy cosmic rays in the atmosphere.

Credit: Jamie Yang/NSF

1. Image: IMG\_3762

DOMs are the ‘eyes’ of the IceCube detector. The more than five thousand DOMs were constructed at Stockholm University in Sweden, DESY in Germany, and Physical Sciences Lab (PSL) in Stoughton, Wisconsin, USA.

Credit: DESY

1. Image: Forest\_Banks1

To embed DOMs in the ice, we used a special hot water drill. The drill was specially designed at the [UW Physical Sciences Lab](http://www.psl.wisc.edu/projects/large/icecube/more-icecube) for the IceCube project as a high-pressure hose that melts through the ice at astonishing speeds.

Credit: Forest Banks/NSF

1. Image: 10-Batch 18 Jan\_ 2005 155

Once the holes are drilled, deployment specialists carefully connect DOMs to a cable and lower them in the hole. Each hole has 60 DOMs on it, each with a unique name.

Credit: John Jacobsen/NSF

1. Image: file name array\_seasonsAnamation\_white.mp4

Construction of the IceCube detector lasted seven seasons. Only one hole was drilled with sensors deployed in season one. The sixth season was the most productive with teams drilling and deploying 20 strings.

credit: Jamie Yang/NSF

1. Image: IMG\_1264

The last Digital Optical Moduel in the IceCube array descends into the ice just before 6pm on the 18th of December, 2010 South Pole time.

credit: Robert Schwarz

1. Image: DSCF6755

The completion of IceCube is a milestone for science and it reflects the efforts of hundreds to people. Here IceCubers celebrate the completion of the world’s largest neutrino detector at the South Pole.

credit: Gary Hill/NSF

1. Image: group\_shot

IceCube team poses for a picture in front of deployment tower after the completion of the IceCube Neutrino Detector in December of 2010.

credit: Chad Carpenter/NSF

1. Image: Icecube 25

IceCube held an Inauguration in Madison, Wisconsin at the Monoa Terrace on April 28, 2011 to celebrate the completion of IceCube’s construction phase. Speakers included representatives from IceCube, UW-Madison, Congress, National Science Foundation, Fonds Wetenschappelijk Onderzoek-Vlaanderen, Deutsches Elektronen-Synchrotron, Swedish Polar Research Secretariat, and The Swedish Research Council.

credit: Jay Salvo

1. Image: Icecube 25

Former IceCube spokesperson, Tom Gaisser, starts the first string during the ceremonial start of the IceCube full 86 string run.

credit: Jay Salvo

1. Image: Icecube 215

Following the inauguration event IceCube employees and guests celebrated the completion of construction with a reception and meal at the Overture Center in Madison, Wisconsin.

credit: Jay Salvo