

NOAO Newsletter

NATIONAL OPTICAL ASTRONOMY OBSERVATORY

ISSUE 102 — SEPTEMBER 2010

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On the Cover

Tales of the Modern Astronomer

NOAO is embarking on a path to better serve the community in the use and analysis of big data. The cover image is the beginning panel of "Tales of the Modern Astronomer: ANTARES Rising," which tells the story of one young researcher in the near future benefiting from such development to exploit "open access to data and real-time astronomy tools" in the Large Synoptic Survey Telescope (LSST) Era (read the full story about ANTARES in the Science Highlights section of this *Newsletter*). Development is starting now to establish this expertise at NOAO on behalf of the community.

(Cover image credit: Pete Marenfeld/NOAO/AURA/NSF.)

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On the Cover

"Tales of the Modern Astronomer: Boom Goes the Night"

NOAO is developing tools for the astronomical community to enable research using big datasets from multiple sources. The cover image is the first panel of "Tales of the Modern Astronomer: Boom Goes the Night," which tells the story of a young researcher who uses tools such as ANTARES (Arizona-NOAO Temporal Analysis and Response to Event Systems) to find the optical afterglow of a gravitational wave detection by combining LIGO (Laser Interferometer Gravitational-Wave Observatory) with the Large Synoptic Survey Telescope (LSST) alert stream to identify optical afterglow candidates that can be followed up with telescopes such as Gemini and the Blanco 4m telescope using the Dark Energy Camera (DECam). (Cover image credit: P. Marenfeld/NOAO/AURA/NSF)