



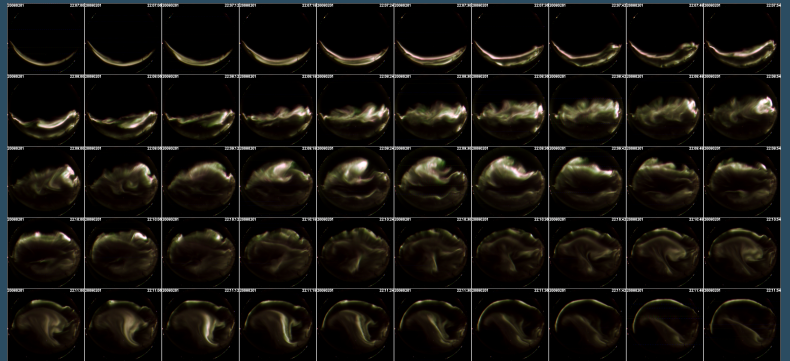
# FIRST RESULTS FROM THE RAINBOW AURORAL IMAGER AT ÞYKKVIBÆR, ICELAND

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SUBSTORM ONSET, 22:07 UT 1 FEBRUARY 2008, OBSERVATIONS FROM THE RAINBOW CAMERA AT ÞYKKVIBÆR, ICELAND



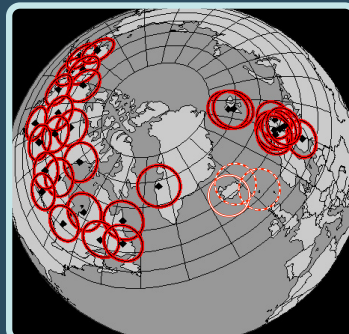
63.77° N, 20.54° W  
GEOGRAPHIC

64.75° N, 68.49° E  
GEOMAGNETIC

IN COLLABORATION WITH THE UNIVERSITY OF CALGARY AND THE UNIVERSITY OF LEICESTER, WE HAVE INSTALLED THE FIRST OF THREE ALL-SKY IMAGERS TO COMPLEMENT THE THEMIS ALL-SKY IMAGER COVERAGE BY BRIDGING THE GAP FROM THE NORTH AMERICAN CONTINENT TO MAINLAND EUROPE. THIS "RAINBOW" CAMERA WAS INSTALLED AT THE CUTLASS ICELAND RADAR SITE AT ÞYKKVIBÆR IN SOUTHERN ICELAND IN OCTOBER 2007. THE RAINBOW ALL-SKY CAMERA SYSTEMS ARE VERY SIMILAR TO THE THEMIS WHITE LIGHT CAMERAS BUT USE A COLOUR VERSION OF THE CCD.

- FULL COLOUR (CYAN-MAGENTA-YELLOW-GREEN) CCD
- 5S EXPOSURES TAKEN ONCE EVERY 6S
- ~150° FIELD OF VIEW
- THUMBNAIL IMAGES DOWNLOADED NIGHTLY, FULL DATA RETRIEVED SEASONALLY

FOR MORE DETAILS ON THE DESIGN SEE N. PARTAMIES, M. SYRJÄSUO, AND E. DONOVAN, USING COLOUR IN AURORAL IMAGING, CAN. J. PHYS., 85, 101-109, 2007.



## DATA ACCESS

SUMMARY KEOGRAMS AND THUMBNAILS ARE AVAILABLE AT:

<http://uk.gaia-vxo.org/viewer/>

FULL DATA AVAILABLE ON REQUEST:  
EMMA.WOODFIELD@LANCASTER.AC.UK  
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UK\_RAINBOW HOMEPAGE:  
[www.dcs.lancs.ac.uk/~kavanage/rainbow.htm](http://www.dcs.lancs.ac.uk/~kavanage/rainbow.htm)

COMING SOON...  
THE FAROE ISLANDS RAINBOW IMAGER

