

Rapidly Developing Continuous GPS Network in Iceland

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A UNAVCO community receiver purchase has facilitated rapid expansion of the Iceland Continuous GPS network (ISGPS). UNAVCO also provided assistance for budgeting, assembling, and shipping raw materials for four short-braced monuments for the central Highland Iceland (CHIL) subnetwork. Project collaborators include scientists from Iceland, Switzerland, Japan, France, and the United States. Team members include Peter LaFemina Erik Sturkell, Sigurjón Jónsson, Shinichi Miyazaki, and Thierry Villemin. The objectives of the project are many, including measurement of high rate GPS data at points near active volcanoes such as Grímsvötn, Hekla, and Katla, measuring temporal variations in deformation, and determining the pattern of uplift, which exceeds 20 mm/yr in places.

Figure 1. Locations of current and planned ISGPS stations.

