Micro-g LaCoste offers a complete suite of absolute gravity survey services, including both observation and data processing, to the geophysical, exploration and metrological communities.

Our experienced field scientists and engineers, together with our absolute gravity instrumentation ensure absolute gravity data products are of the highest quality. Survey services are available for projects ranging from single measurements in controlled laboratory environments to month-long, multi-instrument field campaigns in extreme outdoor situations.

APPLICATIONS INCLUDE

- primary control for relative gravity networks
- long term vertical deformation and subsidence monitoring
- monitoring sea level change
- monitoring of underground fluid movement
- reservoir monitoring
- calibration of inertial navigation
- calibration of force measurement systems

Past survey projects include vertical uplift monitoring in the New Zealand Alps and coastal Alaska, water table monitoring in New Mexico, water flood injection mapping in the Prudhoe Bay Oil field, and fluid monitoring and establishment of primary gravity networks in the Middle East. Micro-g LaCoste has provided absolute calibration reference points to 2 μGal accuracy for high precision metrology laboratories throughout the world.

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CUSTOMERS INCLUDE

- Alaska National Imagery and Mapping Agency
- British Petroleum Exploration
- Columbia University
- Conoco Phillips
- Exxon Mobil
- Fugro
- Geoscience, Australia
- JILA – Boulder, Colorado
- Los Alamos National Laboratory
- N.O.A.A.
- National Science Foundation
- Scripps Institute of Oceanography
- U.S. Naval Surface Warfare Center
- U.S. States Army Metrology Division
- United States Geological Survey

FOR MORE INFORMATION, PLEASE CONTACT

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ABSOLUTE GRAVITY SURVEY SERVICES

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SOFTWARE AND DATA ANALYSIS

Micro-g LaCoste's proven "g" absolute gravity data processing software uses advanced data processing techniques to provide absolute gravity values instantly, in real time. The software ensures that all geophysical, environmental and metrological corrections are applied according to strict standards agreed upon by the scientific community. Independent (re)processing of existing/ legacy absolute gravity data using "g" is also available. The software produces clear detailed reports of all acquisition and processing parameters.

FIELD SURVEY INSTRUMENTS

FG5 ABSOLUTE GRAVIMETER

- Absolute Accuracy: ±2 µGal
- Measurement Precision: ±1 µGal
- Integration Time to 1µGal: 1 hour
- Operation: Indoor and Outdoor Protected Environments
- Acquisition: 4 hour minimum including setup, occupation, and tear down time. Typical measurements 24 hours
- FG5 measurements include determination of the local gravity gradient with a Scintrex CG5™ relative gravimeter

A10 ABSOLUTE GRAVIMETER

- Absolute Accuracy: ±10 µGal
- Measurement Precision: ±5µGal
- Integration time to 10µGal: 5 minutes
- Operation: Indoor and Outdoor Exposed Environments (-40ffIC to +40ffIC)
- Acquisition: 1 hour minimum including setup, occupation and tear down time
- A10 measurements can include determination of the local gravity gradient with a Scintrex CG5™ relative gravimeter as an option

Absolute Gravity Data (Re) Processing Services for previously acquired data using Micro-g LaCoste's "g" software are also available.

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LONG TERM "4D" ABSOLUTE GRAVITY SURVEY RESULT EXAMPLES

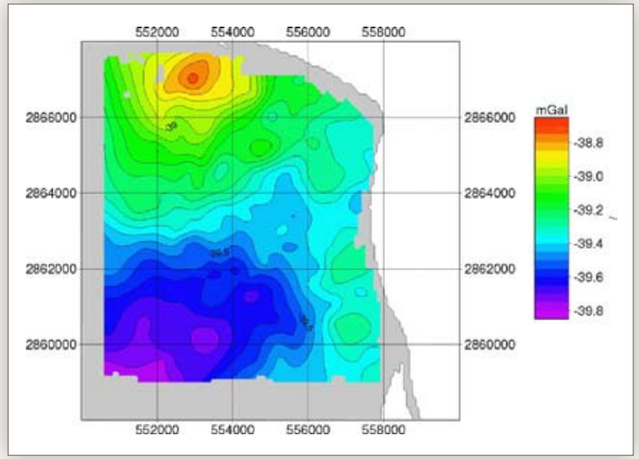

FIGURE 1 Example Bouger plot from 400 absolute measurements over a ~10x10 km area (scale is in mGals)

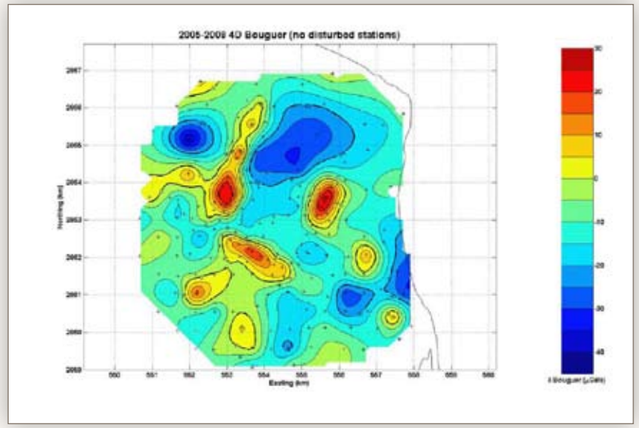

FIGURE 2 Example Bouger plot from 400 absolute measurements over a ~10x10 km area (scale is in mGals)

FG5 SURVEY EXAMPLE

FIGURE 3 FG5 establishing an absolute station in a laboratory in Canada

A10 SURVEY EXAMPLES

FIGURE 4 A10 Absolute Gravimeter deployed in the Middle East

FIGURE 5 A10 in foreground deployed in Arctic from Sno-Cat