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Contact: Dr. Clifford D. Anger, President

Company background. ITRES was founded in 1979 to develop and commercialize applications of emerging solid state imaging technology. Its president, Dr. Clifford D. Anger, is active in the development and use of imaging technology in the Canadian and U.S. space science programs.

Research and development. ITRES has focused on the development of CCD-based digital imaging systems and subsystems for specialized optical, infrared, and X-ray applications involving airborne remote sensing, space science, astronomy, and non-destructive materials testing. ITRES has also carried out feasibility and design studies for a low-cost laser fluorosensor for airborne detection of offshore oil spills.

The company has delivered two CCD camera systems for scientific research purposes, and is now building a third. It has provided, under subcontract to MONITEQ Ltd., the electronic systems for the Canada Department of Fisheries and Oceans fluorescence line imager (FLI).

ITRES is currently developing a "Suitcase Spectrograph," a portable line-scanning multispectral imager. Electronically selectable spatial resolution, spectral channel width, and data rate will permit the instrument to be field-optimized for various airborne remote sensing applications.

Kenting's Piper Navajo aircraft is shown in gradiometer configuration.

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Company background. Kenting Earth Sciences International Ltd., one of Canada's largest resources mapping and development companies, owns and operates three fixed wing aircraft equipped with a variety of aerial photography and geophysical exploration equipment. The firm has been involved for more than 35 years in the following fields of activities in Canada and overseas.

Aerial photography, field surveys, and cartography.

Aerial photography is produced at scales ranging from 1:2 400 to 1:100 000 and processed in the firm's photolab facilities. The field survey department performs a wide range of services for engineering requirements. The combination of precision airborne photography and ground measuring equipment finds applications in geodetic surveys, photogeological mapping, route locations and preliminary designs for highways, railroads, pipelines, transmission lines, and others. Topographic mapping is prepared at scales ranging from 1:500 to 1:250 000. Conventional or digital mapping, monochrome or colour, is produced in-house. Kenting has always been at the forefront of new developments and, using equipment such as Calcomp flatbed table, Calcomp drum plotters, Wild RAP com-

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puter-assisted plotting system or Kern MAPS 200, has already carried out many digital mapping contracts. Kenting also operates the largest number of stereo-plotters in the Canadian private sector with production offices in Ottawa and Toronto, Ontario, and St. John's, Newfoundland. A full range of remote sensing capabilities is available in narrow band and multispectral photography, infrared photography and scanning, laser profiling and satellite imagery interpretation.

Airborne geophysical exploration.

The company's experience in this field includes high or low sensitivity magnetometer, spectrometer and electromagnetic surveys, and vertical gradiometer capabilities. Kenting has also designed and built a new generation of equipment called the Kenting Digital Surveys System (KDSS). It is a computer-based highly accurate airborne survey tool that simultaneously records several types of geophysical data such as radiometric, magnetic and electro-magnetic. Kenting has flown more than 25 million km in mineral and oil exploration surveys.

Resources department.

Kenting's team of specialists has on many occasions identified development projects, subjected them to analysis and produced feasibility reports to international lending agency standards. The capabilities include integrated rural development, photo interpretation, soil mapping, land-use and land-capability mapping, geological and geomorphological studies, surface and ground-water studies, forestry and reforestation, erosion, regional planning and integrated river basin studies.

