Keywords/Mots-clés: airborne sensing, instrument design, microwave system, radar, SAR

Data Acquisition Division, Canada Centre for Remote Sensing, Energy Mines and Resources, 2464 Sheffield Road, Ottawa, Ontario K1A 0Y7

Visiting Fellow at the Canada Centre for Remote Sensing; on leave from Continental Shelf and Petroleum Technology Research Institute Ltd., (IKU), Trondheim, Norway

<sup>\*\*\*</sup> MacDonald Dettwiler and Associates, 3751 Shell Road, Richmond, British Columbia V6X 2Z9