## Canada Today/D'Aujourd'hui

only have a key wartime role but considerable peacetime capabilities: monitoring ice conditions, enforcing fishing regulations, detecting pollution, helping in air-sea rescue operations, and reporting on natural disasters such as floods and forest fires.



## The CP-140 Aurora

Among the distinctive capabilities of the Aurora in submarine detection are precisely measuring the dimensions of a submarine, from the air, even though it is still submerged; telling through heat radiation how many engines a submarine is using, how much fuel is in its tanks, whether or not it is dumping oil, etc., and even being able to scan the submarine's bow and conning tower in darkness or underwater to pick up the vessel's name or number, the difference in paint giving off a different reading on the Aurora's heat sensitive detecting equipment.

The Aurora has a range of over 6,000 kilometres (3750 miles) and can remain airborne for sixteen hours (with full sleeping accommodation for one shift of crew). It has been thoroughly tested in Arctic conditions and its four turbo-prop engines give it much greater fuel economy than a conventional jet. Its highly secret and complex computer assisted surveillance equipment make it an effective defence weapon when used in concert with a comprehensive radar network.

## The Leopard C1 tank

On the ground Canadian Forces will be utilizing more than 120 new Leopard C1 battle tanks. These German-made tanks have already gained the reputation of being perhaps the fastest, most durable and versatile armoured vehicles in tank history. The firepower, toughness, and low profile of the Leopard tanks should give Canadian troops a decided advantage in ground warfare.



The Leopard C1 Tank