



**NATIONAL AIRLINES COUNCIL OF CANADA  
CONSEIL NATIONAL DES LIGNES AÉRIENNES DU CANADA**

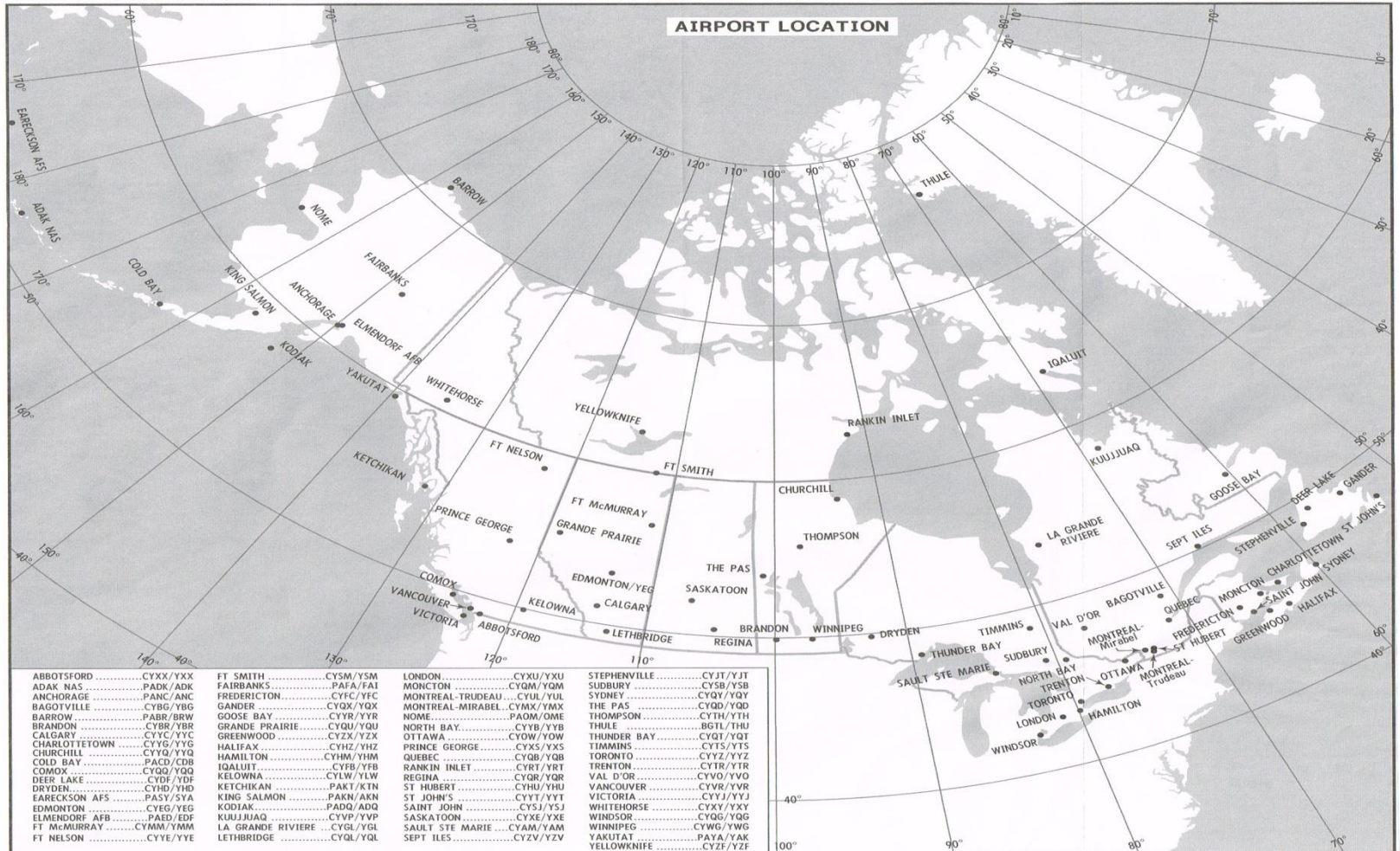


**ALPA OPERATIONS AT REMOTE AIRPORTS CONFERENCE  
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**Louis Thériault - Manager, Operational and Regulatory Affairs,  
NACC**

## Over Flight Operations

- NACC carriers: B767, A310, A330, B777 ETOPS 180 minutes
- North Atlantic (LAT . 70N) ex: YVR-LHR-YVR , YYC-FRA-YYC
- North Pacific, Polar ex: YYZ – HKG – YYZ



## ETOPS Diversion Airports

- Adequate airport - TP6327
  - Suitable runway
  - Approach facilities, weather minima
  - Support facilities/services passengers, aircraft
    - Ground handling equipment, Customs, etc.
- Emergency diversion airport:
  - May not meet ETOPS TP6327 requirements...paved runway long enough for use by aircraft type.

## ETOPS Adequate Airports:

- Iqaluit(NU), Goose Bay(NL), Yellowknife(NT), Whitehorse(YT)
- Anchorage, Fairbanks, King Salmon, Cold Bay (AN)

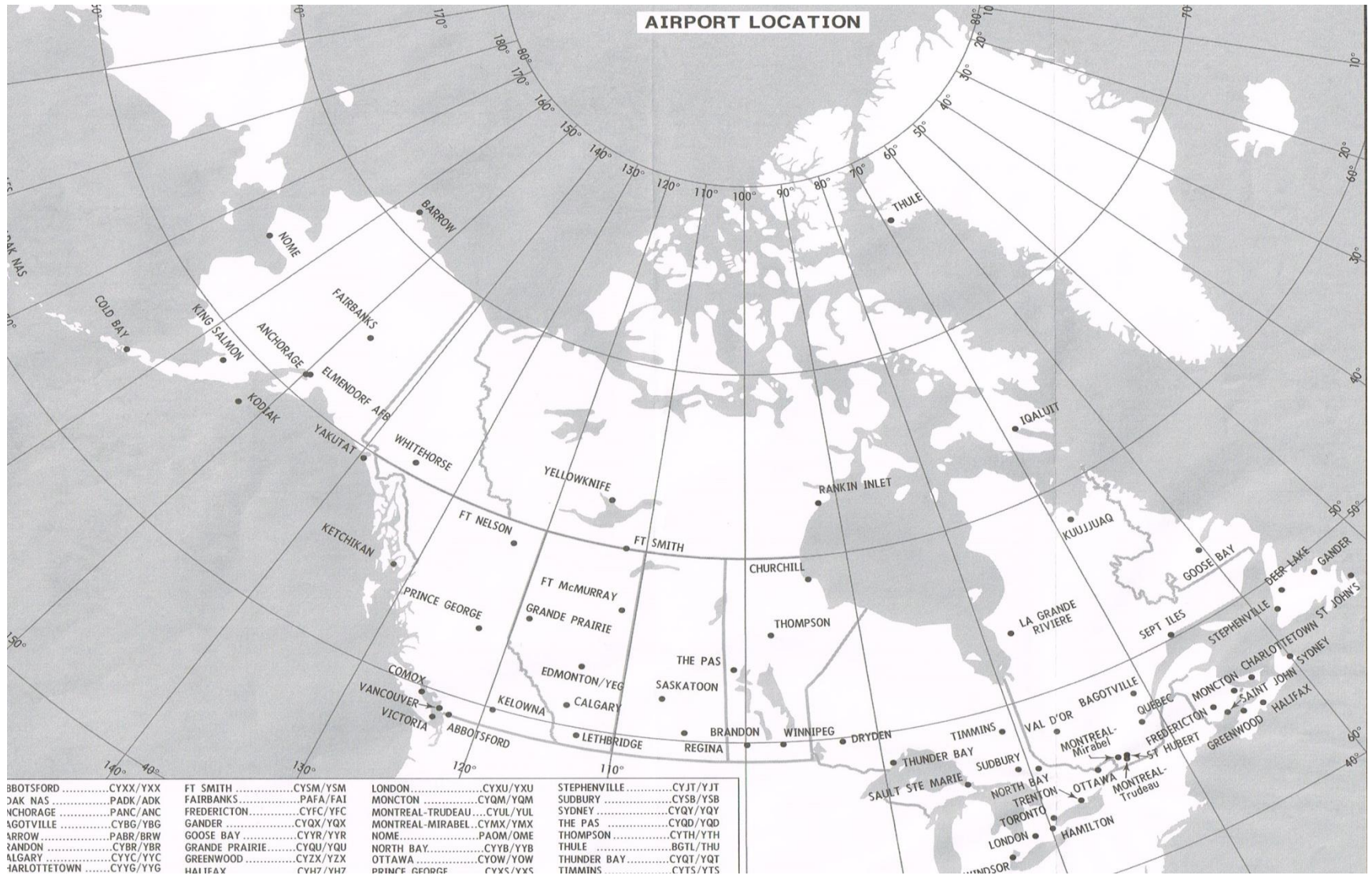
## Emergency Airports:

- Kuujuaq(QC), LaGrande(QC), Rankin Inlet(NU)

Hudson Bay Area: 35,000 flights per year use this airspace



**AIRPORT LOCATION**



ABBOTSFORD .....	CYXX/YXX	FT SMITH .....	CYSM/YSM	LONDON .....	CYXU/YXU	STEPHENVILLE .....	CYJT/YJT
BAK NAS .....	PADK/ADK	FAIRBANKS .....	PAFA/FAI	MONCTON .....	CYQM/YQM	SUBURRY .....	CYSB/YSB
ANCHORAGE .....	PANC/ANC	FREDERICTON .....	CYFC/YFC	MONTREAL-TRUDEAU .....	CYUL/YUL	SYDNEY .....	CYQY/YQY
BAGOTVILLE .....	CYBG/YBG	GANDER .....	CYQX/YQX	MONTREAL-MIRABEL .....	CYMX/YMX	THE PAS .....	CYQD/YQD
BARRROW .....	PABR/BRW	GOOSE BAY .....	CYR/YYR	NOME .....	PAOM/OME	THOMPSON .....	CYTH/YTH
BRANDON .....	CYBR/YBR	GRANDE PRAIRIE .....	CYQU/YQU	NORTH BAY .....	CYIB/YIB	THULE .....	BGTL/THU
CALGARY .....	CYCC/YCC	GREENWOOD .....	CYZX/YZX	OTTAWA .....	CYOW/YOW	THUNDER BAY .....	CYQT/YQT
CHARLOTTETOWN .....	CYCG/YCG	HALIFAX .....	CY47/Y47	PRINCE GEORGE .....	CYXS/YXS	TIMMINS .....	CYTS/YTS

## Challenges

- Limited ground facilities and services for aircraft and passengers  
(Air France 062 – B777, Churchill(MB), Oct17, 2002)
- Weather and reduction of facilities and services at remote airports influences flight routing

## Future Growth In Canadian North

- Continuous improvement of NAV CANADA Services
  - ✓ Progressive expansion of ADS-B coverage
  - ✓ Improvement in CPDLC coverage
  - ✓ Performance Based Navigation - RNP approaches



## Contingency Plans at Northern Remote airports

- TC CARS SMS requirements–emergency response preparedness
  - Emergency Response Exercises – bi-annual
  - Coordination arrangements with DND, RCMP
  - Coordination with Associations, TC, TSB