Adventures from the Cold War Coldest Part of the Cold War



Brian Jeffrey – VE3UU / ex-VE8SK

A Special Presentation for...

The West Carleton Amateur Radio Club



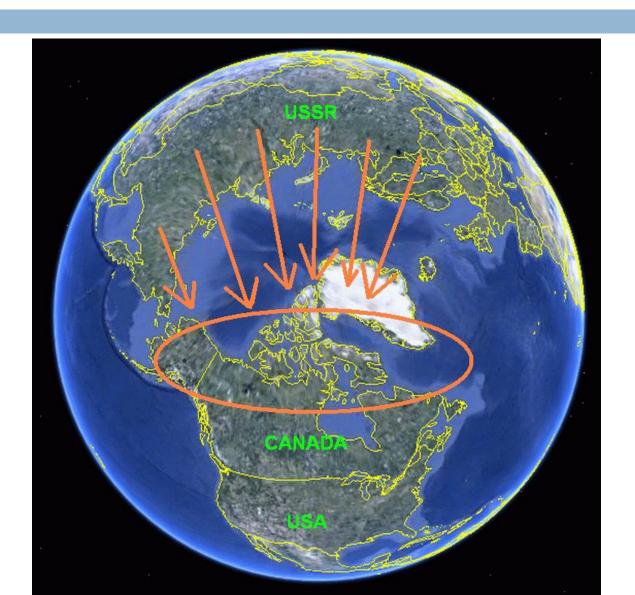
Agenda

- The DEWLine: What & Why
- Life on the Line
- Why go North?
- Story time
 (Tall tales from the frozen North)
- Going back "home"

What is (was) the DEWLine?

- DEWLine = Distant Early Warning Line
- Chain of 58 manned radar stations
- Scattered across 2800 miles of nothing
- Built between 1955 and 1957
- Operational in August 1957
- Morphed into the North Warning System in 1993

The Necessity



The Thin Line



3 Types of DEWLine Stations

6 Main stations 48+ personnel

27 Auxiliary sites 16+ personnel





25 Intermediate sites
5+ personnel
Taken out of service by 1963-4

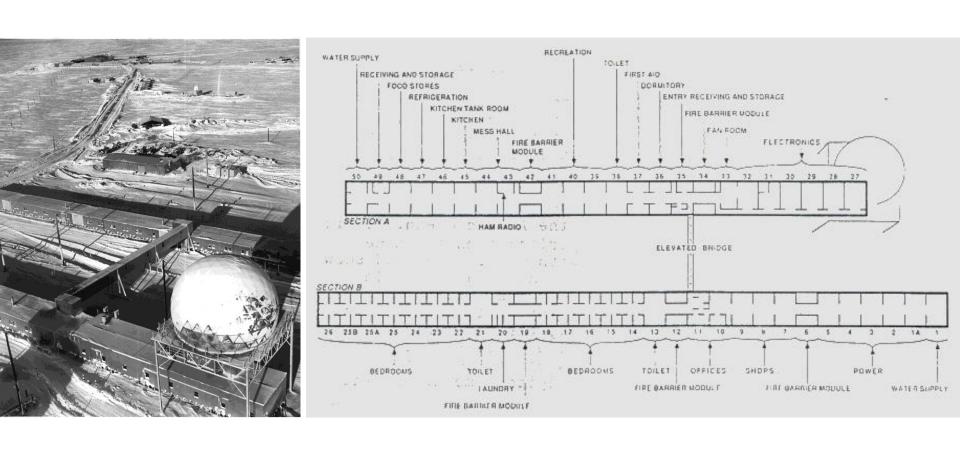


Building a building

- Basic module: 28' x 16' x 10' high
- Module trains
- □ I-Site: 5-modules (28 x 80 ft)
- Aux-Site: 25 modules (28 x 400 ft)
- Main-Site: 52 modules in two module trains



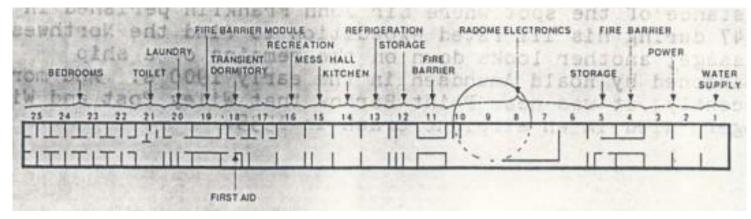
Typical Main Site



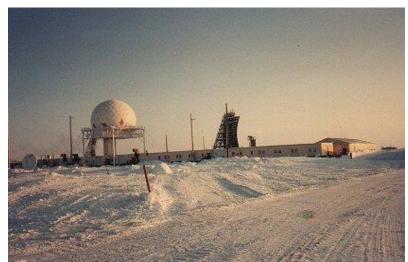
48 bedrooms 7-8 Radicians

Typical Auxiliary (Aux) Site...

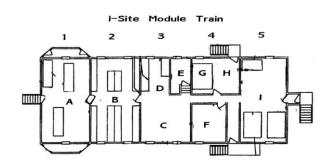
Station layout



16 Bedrooms 6-7 Radicians



Typical Intermediate Site (I-Site)...



A = Power module

B = Electronic module

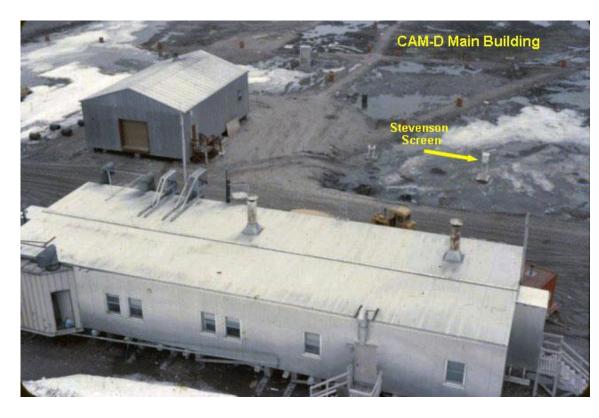
C = Living module

D = Kitchen

F = Sleeping quarters

Staff:

- 1- Station Chief
- 1- Radician
- 1- Mechanic
- 1- Cook
- 1- Eskimo

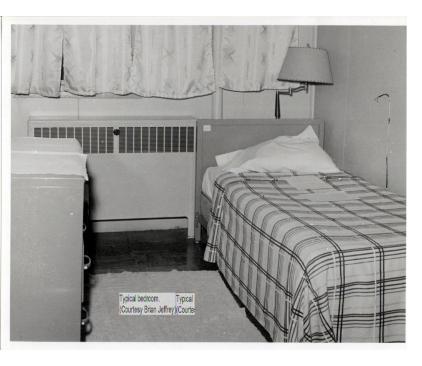


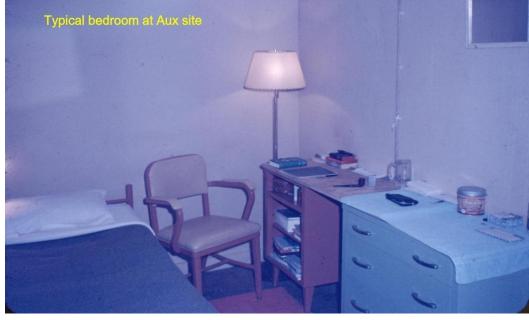
1 Shared bedroom.

My Workstation



Typical bedrooms





Recreation Module



Life on the Line

- 54 hour work week (six, 9-hour days)
- 6-month minimum stay
- No outside communications
- No TV, no radio
- No news
- Mail, once a week (maybe)
- Some creature comforts...
 - 3 first run movies/week
 - Incredible food

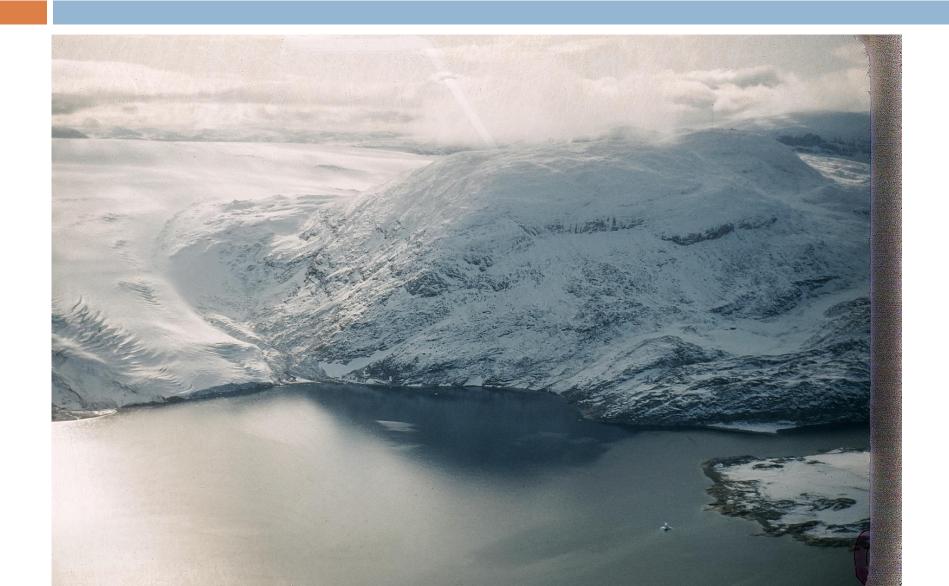
Middle of Nowhere



Edge of Nowhere



Find the Site (FOX-C)



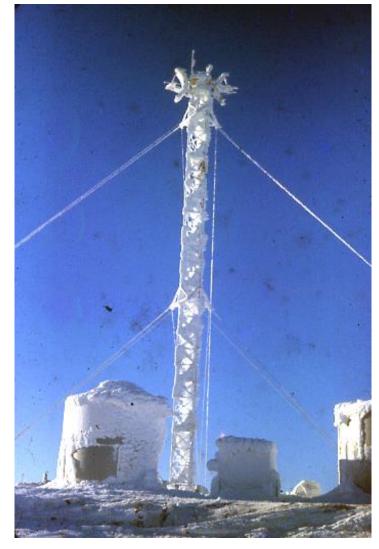
Cold Personified





Unending Cold



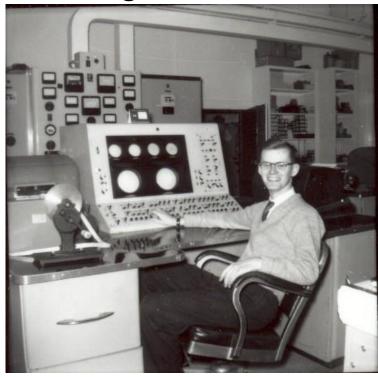


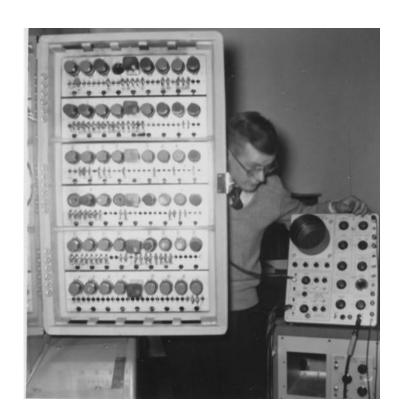
Why Do This?



National Research Council...

- Canada's first commercial digital computer
- Earning \$2750/Annum (\$53/week)
- Living at home





Financial Incentive

Montreal Gazette
January 1960 issue

ELECTRONIC TECHNICIANS

SALARIES \$195 PER WEEK PLUS ROOM AND BOARD

After Short Training Period

Salaries Are Based On 54-Hour Week And Are Subject To Canadian Income Tax

(No Arrangement Can Be Made for Family Relocation)

ASSIGNMENT IN DEW LINE (DISTANT EARLY WARNING SYSTEM)

TO QUALIFY YOU MUST HAVE AT LEAST
A TECHNICAL SCHOOL DIPLOMA
WITH 2 YEARS' CURRENT
EXPERIENCE IN THE FOLLOWING FIELDS:

COMMUNICATIONS

UHF AND VHF TRANSMITTERS AND RECEIVERS

RADAR NAVIGATIONAL AIDS

TV-RADIO SERVICE EXPERIENCE NOT ACCEPTABLE

Only Persons With The Above Experience Need Apply

> Canadian Or British Citizens Pass A Technical Test Be In Top Physical Condition, Pass A Psychological Screening

> Mail your complete resume to

FEDERAL ELECTRIC CORP.

SERVICE DIVISION OF
INTERNATIONAL TELEPHONE
AND TELEGRAPH CORPORATION
DEW LINE OFFICE, MONTREAL AIRPORT
MONTREAL, QUEBEC

\$195/week!

The adventure begins...

- Streator III for 12 weeks of training
- Non-descript town 90 miles south of Chicago
- Billeted at the Columbia Hotel, AKA Tiltin Hilton





In the Middle of a Cornfield...

- 12 miles outside town, hidden out of sight
- Was the secret training facility
- Decommissioned in 1982. Now a derelict





Northward bound...

- Issued with my Arctic gear in Montreal
- Departed Dorval July 28, 1960 for Hall Beach, NWT
- 12 hour, non-stop, flight in a DC-4, CF-IQM



CF-IQM Still Flies Today



Hall Beach NWT, FOX-Main...



Had my 20th birthday.





Lateral Flights





Douglas DC-3

Curtis Wright C-46

Luxury Arctic Air Travel...





1st Home: Pelly Bay...



- Code name: CAM-4
- 2 Hours west of Hall Beach (FOX Main)

Story Time Christmas at the *Real* Pelly Bay

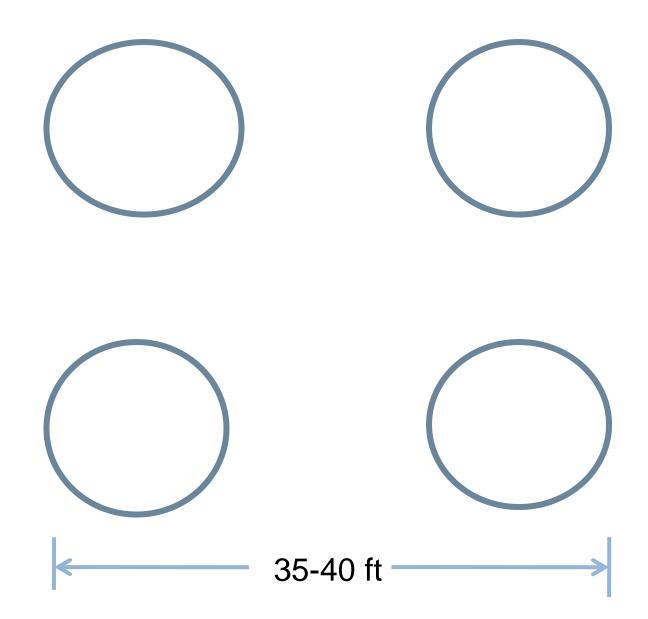
- Starring:
 - Father Vandeveld, RC priest
 - 120 Eskimos (extras)
 - 5 strangers (From CAM-4)
- Featuring:
 - World's largest igloo

Igloos: Pro Vs Amateur

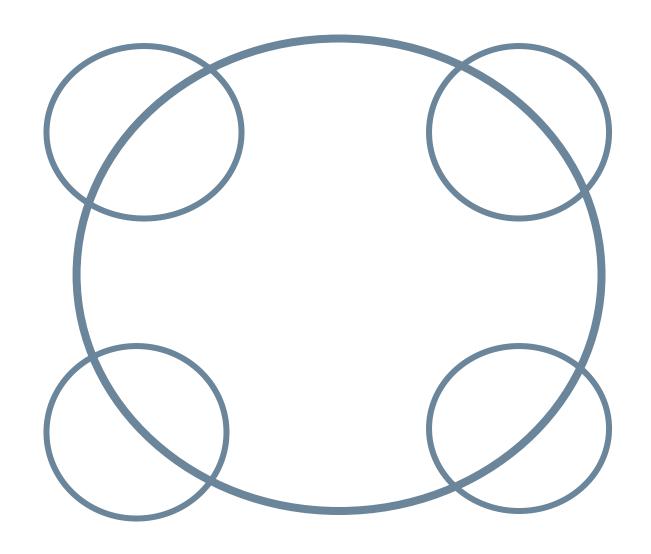




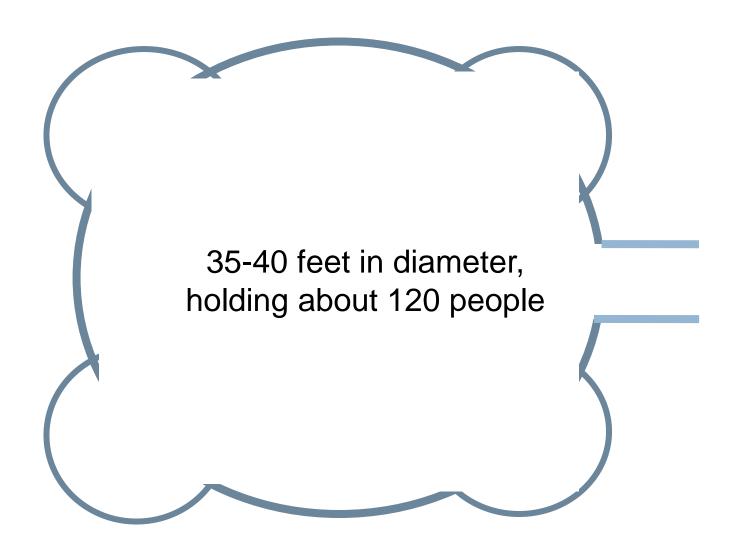
Building the world's largest igloo - 1



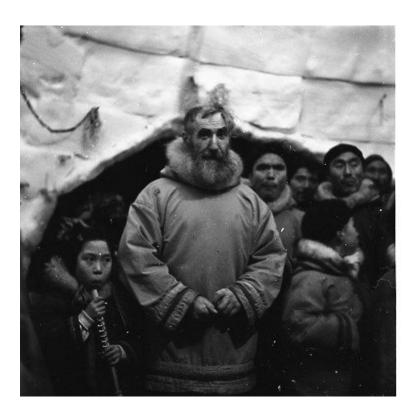
Building the world's largest igloo - 2



Building the world's largest igloo - 3

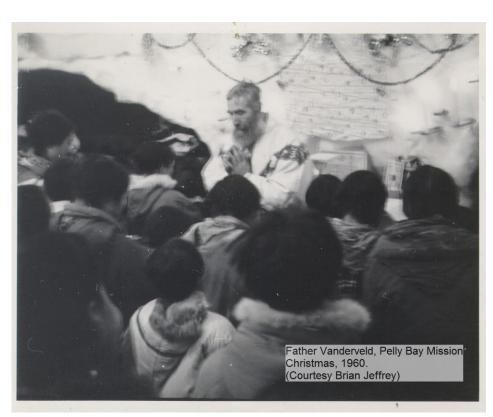


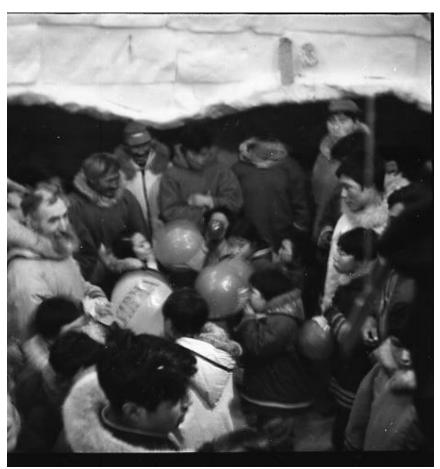
Christmas at Pelly Bay Mission



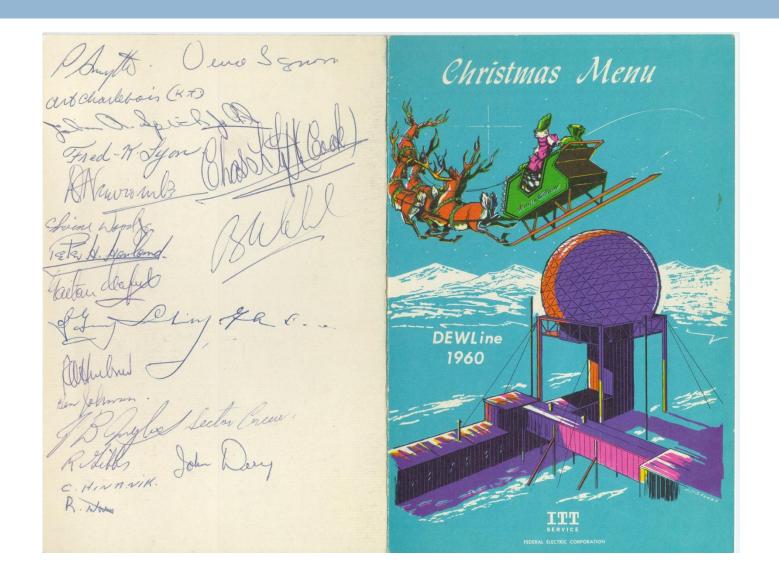


Truly a Christmas to Remember





Christmas at CAM-4...



Merry and year!

A Happy New Year!

the members of

Project Headquarters

and Dew Offices

R.H. CRUZEN

*** APPETIZERS ***

Celery Radishes
Assorted Fruit Juices

* * * S O U P * * *

Consomme, Royale

* * * E N T R E E S * * *

Roast Young Tom Turkey with Stuffing
Giblet Gravy
Cranberry Jelly
Baked Ham with Raisin Sauce
Braised Duck, Bigarade

*** VEGETABLES ***

Buttered Green Peas Buttered Wax Beans
Yellow Turnips Whipped Potatoes
Candied Sweet Potatoes

* * * S A L A D * * *

Chef's Special Tossed Green Choice of French, Russian or Oil and Vinegar Dressing

* * * D E S S E R T S * * *

Apple, Mince and Pumpkin Pies Ice Cream Fruit Cake

* * * B E V E R A G E S * * *

Coffee, Tea

Hot Rolls and Butter

Candy - Mixed Nuts - Fruits

Cigars

Cigarettes

Olives



Story Time Saturday Night Hi-Jinks

AKA: Shaving your teeth.

Starring:

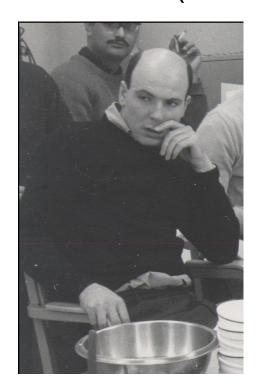
- Brian Webb
- Brian Jeffrey

The Scene:

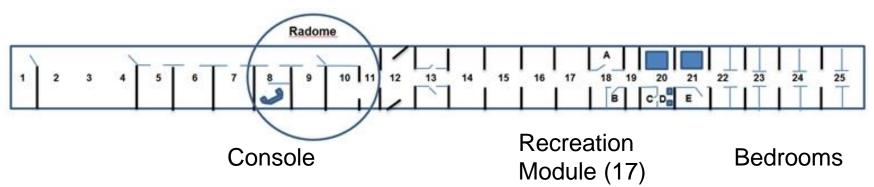
Saturday night and Sunday morning/evening

Brian Webb (sober)

Brian Jeffrey (also sober)







Story Time Missed Bogie (Target)...

- Starring:
 - Tom Billowich
 - Brian Jeffrey
- The Scene:
 - 4:15 4:30 AM
 - The PA system came alive & all hell broke loose



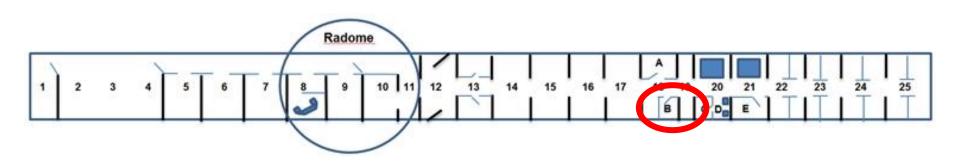


Story Time CQ Santa Klause...

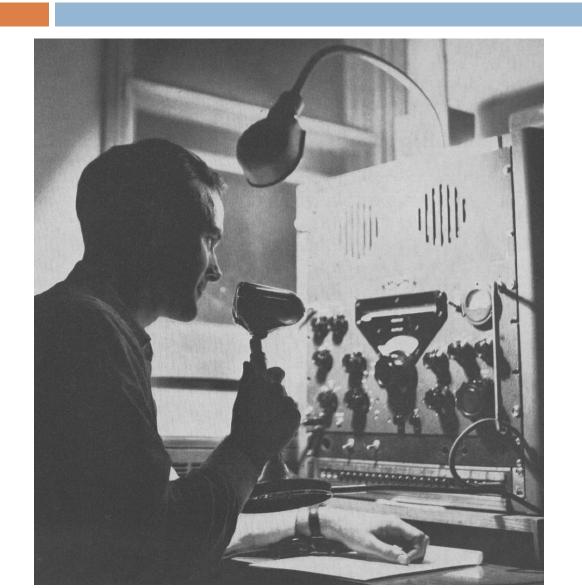
- Starring:
 - Brian Jeffrey VE8SK
 - A load of happy children
- The Scene:
 - December 1960
 - CAM-4's Emergency Radio Room

Emergency Radio Room

- Located away from the Electronic Modules
 - Collins 431-B1, one kilowatt transmitter
 - Collins 51J4 receiver
 - □ 3-Element beam



Ham Radio Equipment



VE8SK became VE8 **S**anta **K**laus

Phone Patches

Escape from the North...

- Waited 12 months
- Had gained 30 pounds
- Bought some "going home" clothes
 - 3-piece suit for \$29.95 from Sears (mail order)
- Somewhat "bushy"
- Don't use the "F" word with your Mother!
- Returning North via Winnipeg

10 Hour flight... 9 Hours of Hell

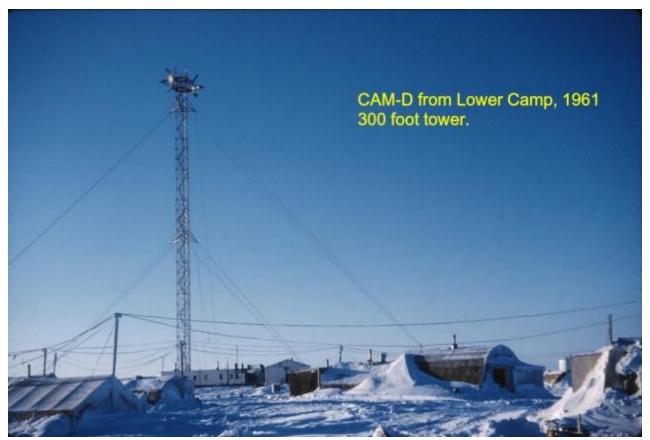


1st Class Travel



New Assignment

- Bribed into going to an Intermediate Site (I-Site)
- Off I went to Simpson Lake, CAM-D



Working Around the Clock...

- Spring time is airlift time (POL supplies)
- Flights operated 24 hours a day for weeks





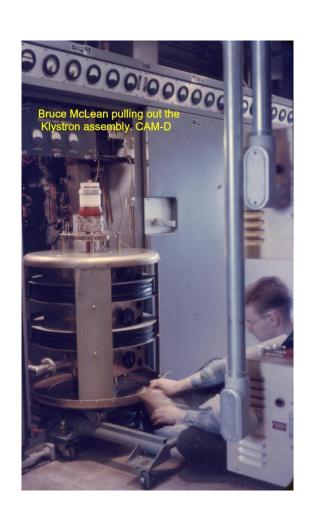
Happy Landings (Not!)...







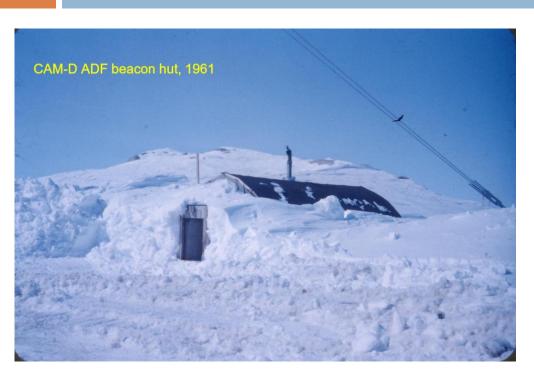
Replacing a Klystron







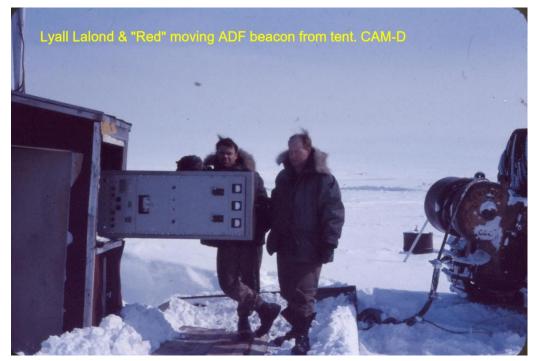
Story Time Moving the Radio Beacon

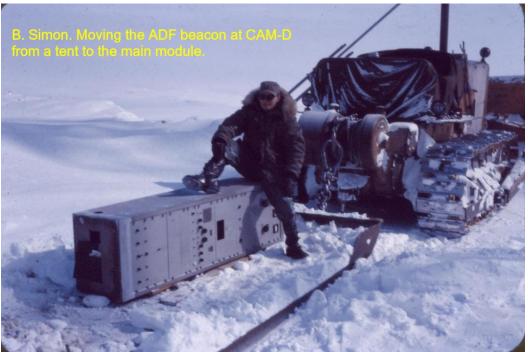




Lights on since 1957











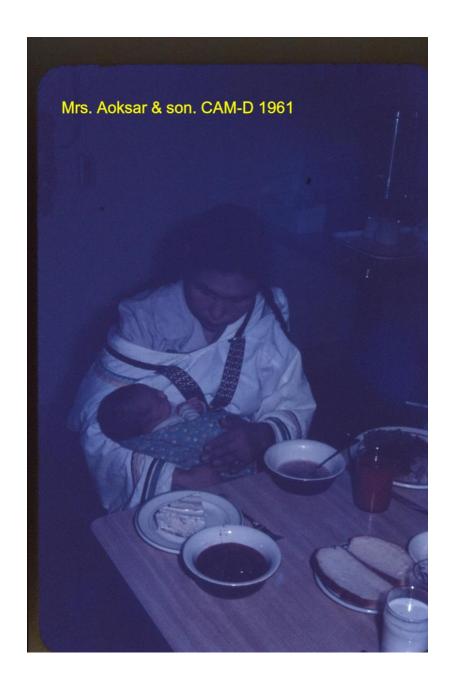
One of Life's Lessons

Fill your pockets!!!



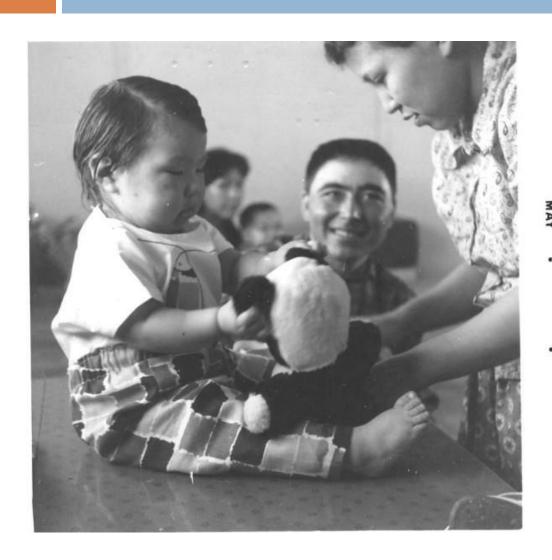
Story Time Doctor Brian...

- Starring:
 - A very pregnant Eskimo woman
 - Brian Jeffrey
 - A Saint John's Ambulance first aid book
 - A remotely located medical doctor at FOX-Main
- The Scene:
 - Middle of nowhere with a moaning pregnant lady
 - Tense radio traffic
 - Lots of shouting (by me)





Meet Emily Nakoolak



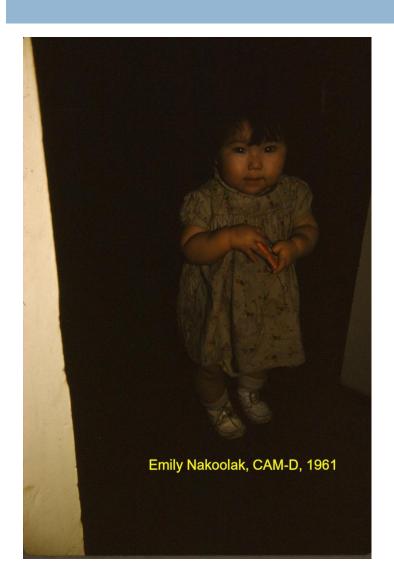


Story Time Doctor Brian, part two...





A Sad Ending



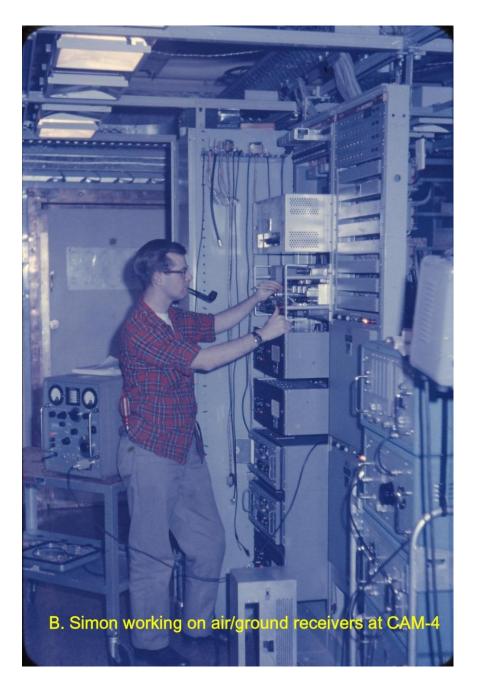
Emily died in the late 60's

Time to Move Along Again...

- Another trip South
- Offended my Mother... again
- Great 6-week R & R (Rest & Recreation)
- Returned to the Line and got my wish
- Became a member of the Sector Crew
- Air/Ground equipment
 - Collins 242F3, AN/GRT-3, AN/FRT-3 LF beacon,
 - □ I-Site communications system GE VO-38 VHF

Story Time God's Will...

- Starring:
 - An inspector from FEC head office (Paramus NJ)
 - Brian Jeffrey
- The Scene:
 - Receiver room at Rowley Island (FOX-1)





Story Time The BOPSR Club...

- Starring:
 - Brian Jeffrey
 - Newbies Radicians (names long forgotten)
- The Scene:
 - BJ in transit with too much time on my hands
 - Too much booze (supplied by the Newbies)
 - Small bladder + cold urinal (-40 F & C)

BOPSR Club

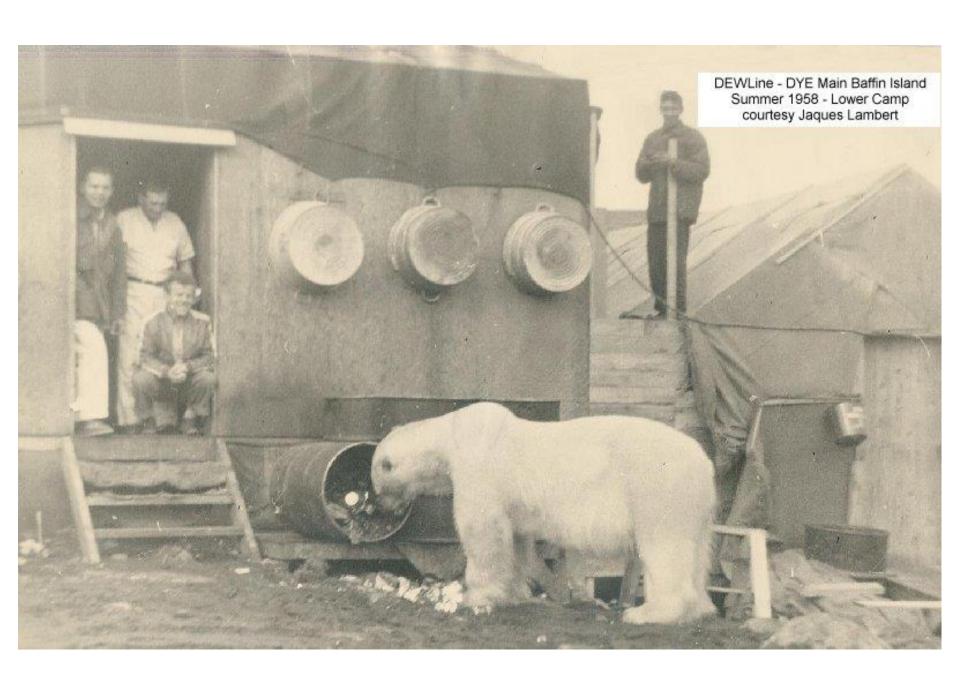




"Home" for the Sector Crew & transient sleeping quarters.

Story Time The Great Polar Bear Hunt...

- Starring:
 - A polar bear
 - An Eskimo hunter
 - Various pretend hunters
- The Scene:
 - Late summer at Rowley Island (FOX-1)
 - A polar bear is sighted close to the module train









Foxes, Foxes Everywhere...









One Last Contract...

- Returned from my last R&R leave
- Wanted off the Sector Crew
- Became the "Lateral Radician" at Fox Main
- AN/FRC-45 tropo scatter system
 - 24 channel Lenkurt multiplex equipment
 - Required monthly alignment
 - Orchestrated from the Main Station

Lateral Communications



Lateral Antennas







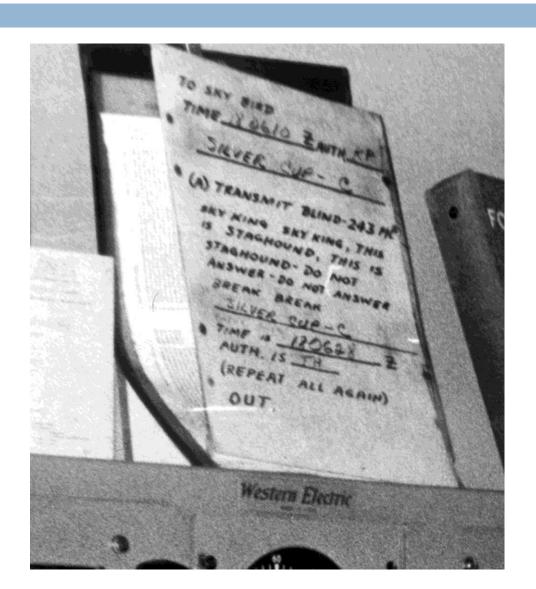
"Failsafe" Device...

- Movie Failsafe starring Henry Fonda
 - Device in a SAC bomber goes bad
- No such device!
 - There was Us!
 - Transmitting the "Go" "No go" message
- Emergency Action Message (EAM)
 - "Sky King, Sky King..."

The "Go" – "No go" Message

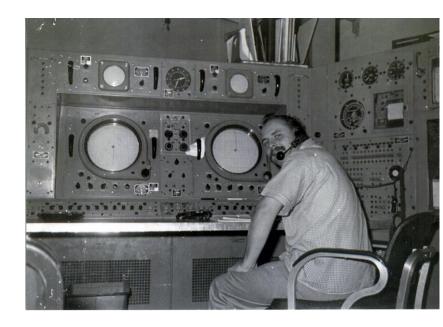


"Sky King, Sky King..."



Talking to SAC B-52's...

- Tactical call signs (Jaguar 15)
- "Hall Beach Radio" to commercial flights
- Became "Staghound Radio" to SAC



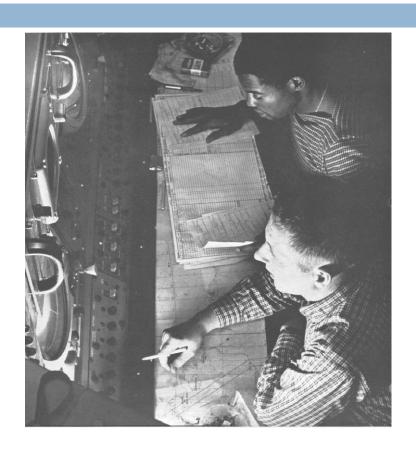
Cuban Missile Crisis

- Oct 22/62: Defcon 5 upgraded to Defcon 3
 - B-52 bombers increased from 12 to 66
- Oct 24/62: Defcon 3 becomes Defcon 2
 - An additional 130 ICBM's are readied
 - SAC-alerted nuclear weapons now at 2952
- Oct 26/62: Still at Defcon 2
 - Missiles are programmed with Soviet targets
 - Minuteman missiles are readied for firing
 - Some B-52 fly past their turn-around points
 - Gen Lemay is pushing Pres Kennedy to bomb Cuba

Cuban Missile Crisis







We were not sure there would be a South left to go back to!

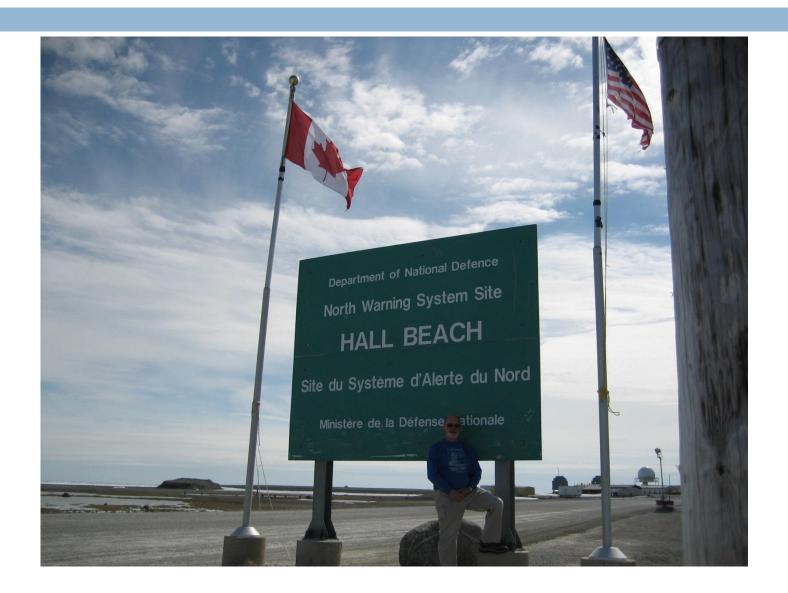
Last Trip ...

- Left the Line for the last time in March 1963
- Had spent 36 months in the Arctic
- Got married
- Returned to school (U of O) (1964)
- Joined Instronics Ltd & met Doug Leach & Ralph Cameron
- I lied... it wasn't my last trip!

Return to Hall Beach

- □ I returned, July 2nd-4th, 2012.
- 52 years after I first arrived at Hall Beach
- Incredible journey down memory lane

Return to Hall Beach



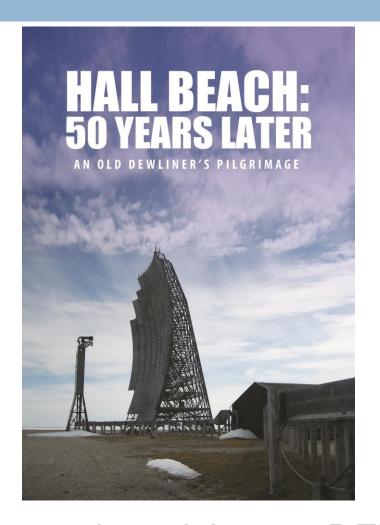
A Changed World

- All but abandoned facilities
- No isolation
- Multi-channel TV in every room
- Telephone access versus radio phone patches
- 2 flights a day Vs 1 flight a week (maybe)
- 6-week Vs 6 to 9-month rotation
- 3 Technicians Vs 42 Radicians/sector

Historic Landmarks



See the movie!



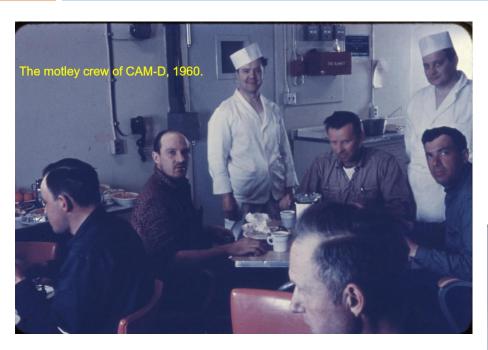
For more stories, visit www.DEWLine.ca

For those of you still awake...

Thanks for allowing me to share these memories What questions might you have?



CAM-D Motley Crew...





Idle Hands (& Minds) at Work...

- Starring:
 - Don Kerr, Radician
 - Brian Jeffrey (star of stage & screen!)
 - Helicopter CF-HNG
- The Scene:
 - Two bored Radicians
 - Early summer morning
 - Bad combination







The Ghost at the Airfield...

- Starring:
 - Brian Jeffrey
 - Console Radician
 - "It"
- The Scene:
 - □ Summer time, 3-4 AM
 - Off-hook condition in the 740 PBX telephone switch





