Search and Rescue
Recherche et Sauvetage
424 Squadron
SQN ROLES TODAY

- OPERATIONS
  - SAR
  - Major Air Disaster (MAJAID)
  - CASARA Training/Evaluation
  - Routine/Contingency Airlift

- TRAINING
  - CC130 SAR OTF (support to 426 Sqn)
  - Griffon SAR conversion
### CH-146 Griffon

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>17.1 m</td>
</tr>
<tr>
<td>Rotorspan</td>
<td>14 m</td>
</tr>
<tr>
<td>Height</td>
<td>4.6 m</td>
</tr>
<tr>
<td>Weight</td>
<td>5,355 kg</td>
</tr>
<tr>
<td>Power</td>
<td>Two P&amp;W PT6T-3D engines</td>
</tr>
<tr>
<td>Speed</td>
<td>260 km/h (140 Kts)</td>
</tr>
<tr>
<td>Range</td>
<td>500 km (270 NM)</td>
</tr>
<tr>
<td>Crew</td>
<td>2 plts, 1 Flt Eng, 2 SAR Techs</td>
</tr>
<tr>
<td>Passengers</td>
<td>2</td>
</tr>
<tr>
<td>Year(s) procured</td>
<td>1995 to 1997</td>
</tr>
<tr>
<td>Quantity in CF</td>
<td>85 (13 in SAR)</td>
</tr>
</tbody>
</table>
SAR Posture (primary)

- Mon-Fri, 0800 to 1600: 30 Minutes Standby
- Other times: 2 hrs Standby
- One crew per aircraft type
- Maintenance crew
- 365 days a year
Operations

- Marine incidents
- Air incidents
  - MAJAID
- Humanitarian assistance
  - Medevac
**Major Air Disaster (MAJAID)**

- 8 Wing; Primary staging Base
- Exercised annually
For example...

A typical SAR mission...
A typical SAR mission...

- **SAR system is alerted:** Call received by JRCC for overdue aircraft, vessel, hunter, hiker from:
  - Area Control Centres (Toronto Control Centre)
  - Flight Service Stations (FSS) or Flight Information Centres (FIC)
  - Coast Guard Radio Stations (MCTS)
  - Canadian Mission Control Centre (SARSAT)
  - Police and Fire Communication Centres
  - Citizens (reporting others or themselves in trouble)
A typical SAR mission...

- **JRCC takes action:**
  - Is it CF responsibility? If not, inform proper authorities
  - Gather information from reporting party
  - Try to resolve situation using communication search, or local auth (marina, airport)
  - If not able to resolve: **Task SAR Resources**
  - Create search plan:
    - consider weather, time enroute, other local resources
  - Create rescue plan:
    - Contact hospitals, police to assist
A typical SAR mission...

- Reach the search area
- Coordinate with other searchers
- Conduct appropriate search pattern...
A typical SAR mission…

- Searching for the people in distress…
  - Could go on for days and weeks
A typical SAR mission...

- SAR Techs are deployed
A typical SAR mission...

- Medical Aid is promptly administered
- Casualties are stabilized awaiting helicopter or medical support
A typical SAR mission...

- Casualties are hoisted into the helicopter
- Fixed wing acts as communication platform, escort and can provide constant illumination
A typical SAR mission...

- SAR Techs are hoisted onboard
  - helicopter proceeds to medical facility
Phase I SAR Incident Responses

SAR incidents recorded by JRCC Trenton 1994-2004:
85.45% are within 2 Griffon hops (one refueling stop)
(calculated using 85% max range = 360 NM).
That Others May Live

Support Search and Rescue...

GET LOST!
QUESTIONS?