





Safety First, Service Always



REVIEW OF 2020-2021 ICEBREAKING SEASON October 26th, 2021





2020-2021 Season Review



- Introduce USCG personnel
- Introduce CCG personnel
- Ice Coverage
- Ice Breaking Operations
 - USCG
 - CCG
- Lessons Learned





USCG D9 Prevention Staff



- Captain Kevin Floyd Chief, Prevention Division
 - (216) 902-6046
- Lt Commander Greg Batchelder Chief, WWM
 - (216) 902-6064
- Mr. Brian Smicklas

 Icebreaking Supervisor
 - (216) 902-6065
- Lt Jason Radcliffe

 Waterway Operations
 - (216) 902-6060
- Lt Junior Grade Annabelle Gagnon

 Cutter Operations
 - (216) 902-6066





Canadian Ice Office and ROC staff



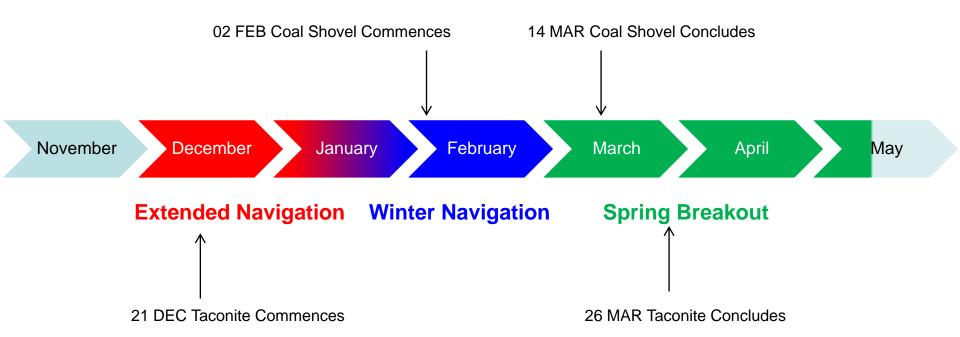
- Yannick Poirier—Regional Operation Center Acting Superintendent
 - (514) 283-0530
- Isabelle Pelchat—Icebreaking Superintendent
 - (514) 378-1641
- John Bartley and Amy Barnes- Ice Operations Officers
 - (514) 283-2784 / 1 (855) 209-1976
- Ice Specialist Officer
 - 1 (855) 201-0086 / (514) 283-1752





Ice Coverage 2020-2021









Ice Coverage 1972-2021

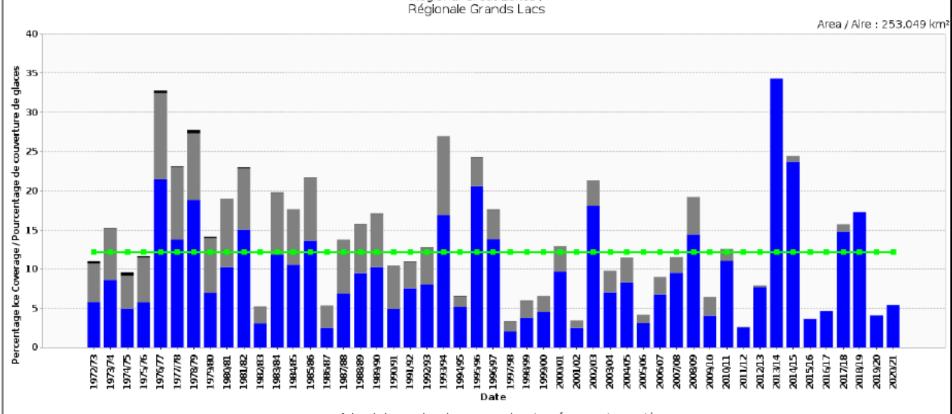




Historical Total Accumulated Ice Coverage (TAC) for the weeks 1105-0611, seasons:1972/73-2020/21

Total accumulé de la couverture des glaces historique (TAC) pour les semaines 1105-0611, saisons:1972/73-2020/21

Regional Great Lakes /



28.12 % of data is interpolated / 28.12 % des données sont interpolées Canadian Ice Service - Environment Canada / Service canadien des glaces - Environnement Canada

(2021-06-16 08:41 IceGraph - Canadian Ice Service/Graphe des glaces - Service canadien des glaces 2.0.7 2014/01/21)

🔳 ice Coverage / couverture des glaces ■ interpolated Data / interpolée ■ No Data / Aucune donnée 🛶 Median / médiane 1980/81-2009/10

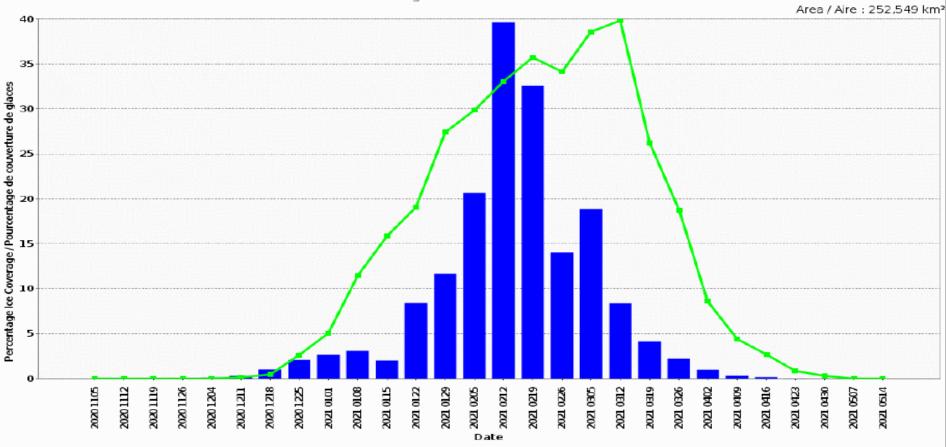
Ice Coverage 2020-2021





Une saison: Couverture des glaces hebdomadaire pour la saison 2020/21, Semaines: 1105-0514

> Regional Great Lakes / Régionale Grands Lacs



Canadian Ice Service - Environment Canada / Service canadien des glaces - Environnement Canada (2021-05-11 17:00 IceGraph - Canadian Ice Service/Graphe des glaces - Service canadien des glaces 2.0.7 2014/01/21)

le Ice Coverage / couverture des glaces No Data / Aucune donnée - Median / médiane 1980/81-2009/10

Ice jam







USCG Performance Standards



| | TACONITE | Coal Shovel |
|---|----------|-------------|
| Search and Rescue Responses | 1 | 0 |
| Urgent Vessel Response Requests | 0 | 1 |
| Exigent Community Service Requests | 1 | 0 |
| Navigation Assistance Requests | 100 | 56 |
| Vessels Assisted (Direct) | 19 | 50 |
| Waterway Restrictions | 0 | 4 |
| Waterway Closures | 0 | 2 |
| Tier 1 Availability | 100% | 97% |
| Tier 2 Availability | 100% | 100% |





Operation Taconite



Commenced operations began on 21 December 2020

- 95 days of ice breaking
- 2,068 hours
- Assisted 109 commercial vessels transits
- 19 of these transits required direct ice breaking assistance (5 US/14 CA)
- Operation Taconite ended on 26 March 2021





Operation Coal Shovel



Commenced operations began on 2 February 2021

- 40 days of ice breaking
- 527 hours
- Assisted 51 commercial vessels transits
- 50 of these transits required direct ice breaking assistance (13 US/29 CA/08 Other)
- Operation Coal Shovel ended on 14 March 2021



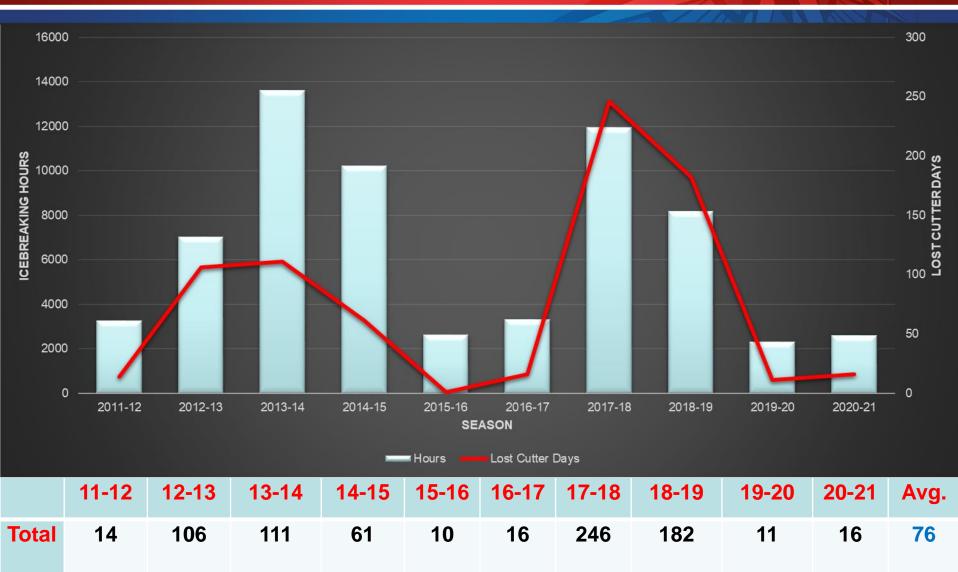


USCG Lost Cutter Days (Historical)



United States

Coast Guard





CCG Operations

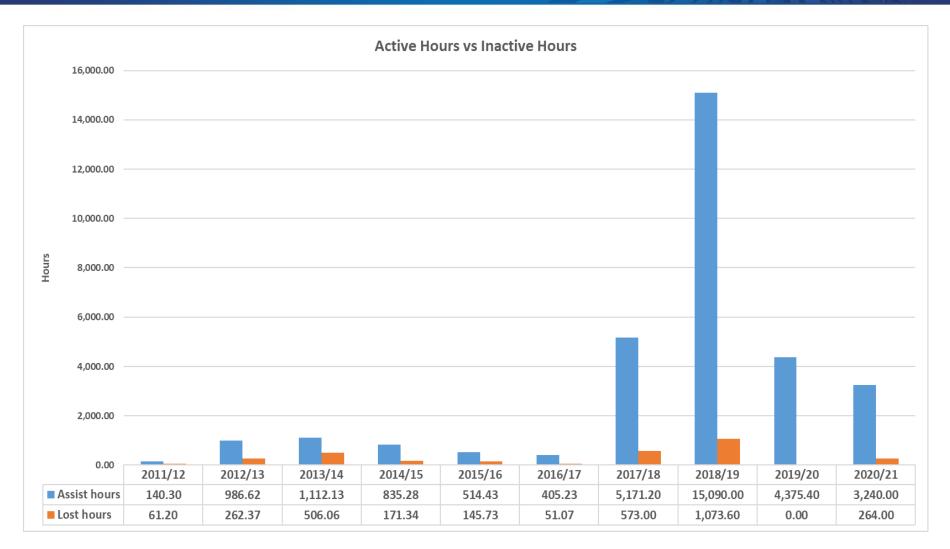


- Operations began on December 26, 2020 (Assets available since Dec 21st)
 - 94 days of ice breaking services / ice office opened 112 days
 - 1712 hours of which 1150 direct assistance hours
 - 1150 vessel transits within the region
 - 87 of these vessels required direct ice breaking assistance (57 CA; 21 US; 9 Others)
 - Operations ended on March 27, 2021

| | CCGS SAMUEL RISLEY | CCGS GRIFFON | |
|----------------------------|--|--|--|
| Commissioned | 1984 | 1970 | |
| Length | 69.7 m (229 ft) | 71.3 m (234 ft) | |
| Beam | 13.7 m (45 ft) | 14.9 m (49 ft) | |
| Horsepower | 6562 kW (8800 hp) | 3984 kW (5342 hp) | |
| Ice Breaking Capability | 3 kts through uniform first year ice 900 mm (3.0 ft) | 3 kts through uniform first year ice 600 mm (2.0 ft) | |

CCG Total Hours and Inactive hours

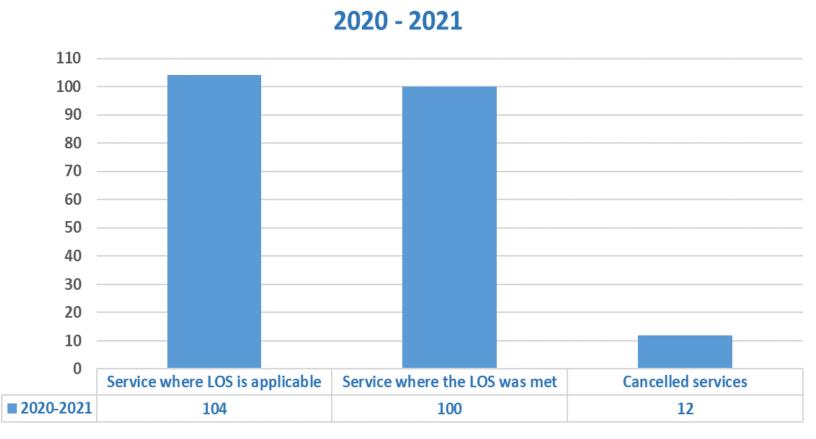




CCG Performance Standards

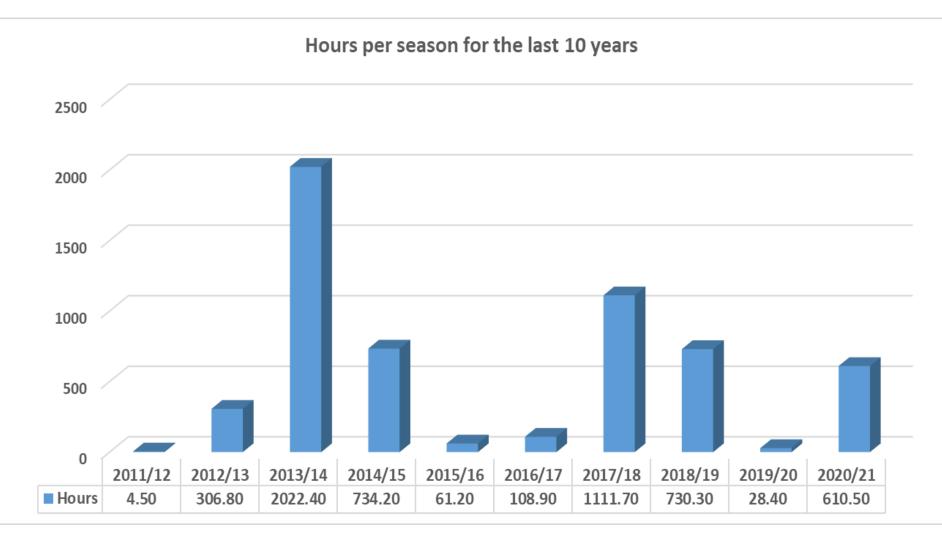


- Level of service (LOS) met by the CCG.
- LOS met at 96.2%



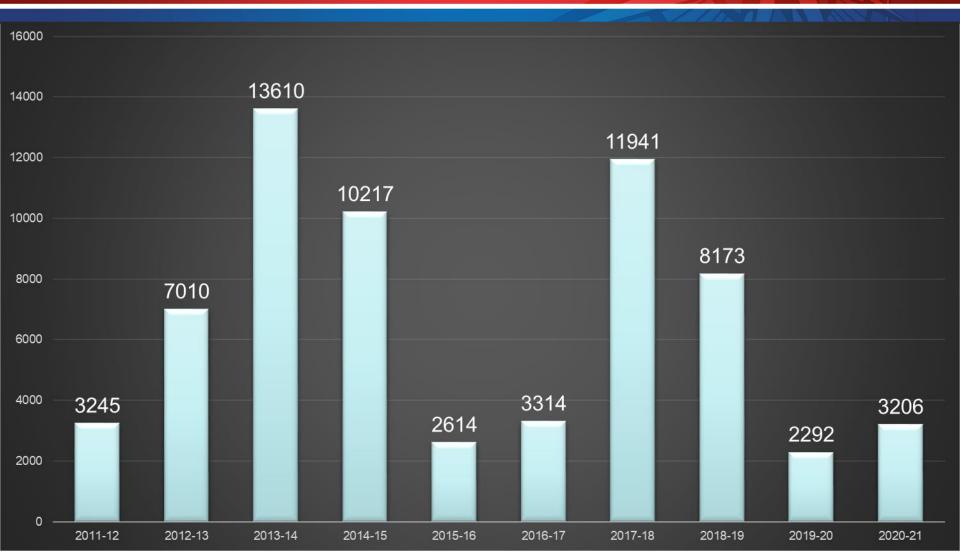
CCG Icebreaking hours per season





Combined Icebreaking Hours









2020-2021 Successes



- Continued partnership with USCG Tactical Commanders,
 Canadian Coast Guard, fleet and industry through daily ice calls
- Teamwork and adaptability of USCG and Canadian Coast
 Guard icebreaker fleets to overcome challenges of COVID-19
- Minimal lost cutter hours from engineering casualties





Tactical Commander Recommendations



- Continue to work with cutter support and logistics to minimize lost operational days during the ice season.
- Review and improve communications capabilities.
- Provide standard reporting formats for all required reports (daily, weekly, and annual) to ensure complete data collection.





Questions?



