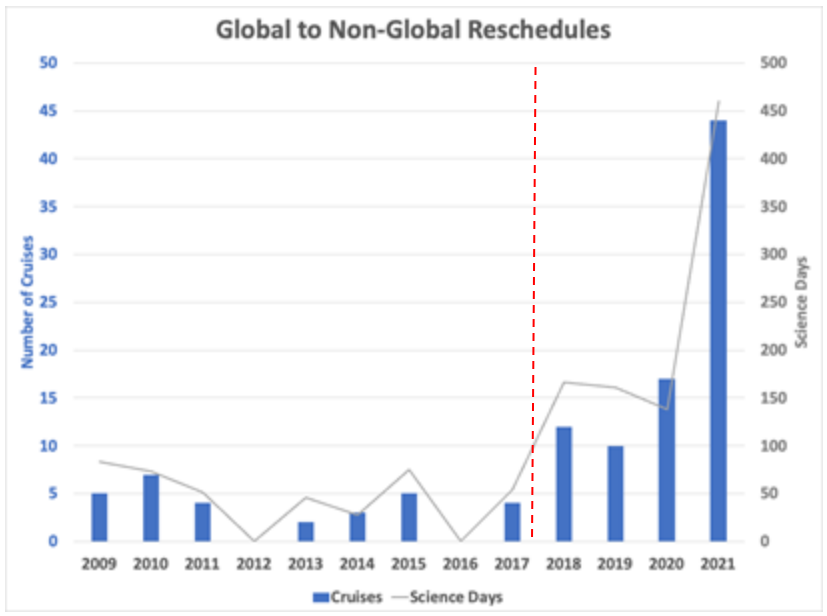


Global Class Research Vessel Fleet Capacity

- Demand for Global Class Research Vessels is at an all time high
 - Capacity has diminished since the retirement of RVs *Knorr* and *Melville*
 - The next decade will see end of service life for RVs *Atlantis*, *Revelle*, and *Thompson*
 - The US Navy has no formal build plan for new Global Class Research Vessels
- **The FIC recommends the procurement of new Global Class Research Vessels to replace retiring ships AND expand our capacity**

Global Class Fleet Capacity

- High demand, cruise back-log not shrinking
- Formed subcommittee (S. D'Hondt, M. Tominaga, A. White) in spring to investigate and make recommendations
- Retirement of Knorr and Melville (Globals) replaced with Armstrong and Ride (Ocean)
 - Reduction in berths
 - Reduction in size
 - Reductions in ??
- Alice compiled table:
 - https://docs.google.com/spreadsheets/d/1FKNCojseWNLFrub-5_efzX9o_VIDxV7E/edit?usp=sharing&oid=100352615962899146562&rtpof=true&sd=true
- Requested global class but sailed on intermediate/ocean class:
 - Before 2018: ~5 cruises/year (KM most common)
 - Since 2018: >10 cruises/year (Sally Ride most common)
- What next?
- Contact Chief Scientists on table and survey? Needs to be carefully worded not to lead them into answers ...



How might the ARF look in the coming decade?

- **Autonomy will be commonplace as technology becomes robust**
 - Never a replacement for people on ships
 - Enhance footprint, provide endurance, sample dangerous conditions
- **Finding the right composition of research vessels**
 - Global class RVs are oversubscribed
 - Coastal/Local class RVs are underutilized
- **Polar Research**
 - Antarctic Research Vessel (2031 - unfunded currently)
 - USCG Arctic Surface Capability Science Mission Requirements
- **Greening of the Fleet**
 - Net-zero emissions from overall federal operations by 2050, including a 65 percent emissions reduction by 2030

