Science Operations WG Proposal

Why IACHEC should also care about science operations

Science operations and calibration are intertwined

- How to deal with decaying / evolving orbit
- Issues due failuers (reaction wheels, fuel); e.g., z-flip
- Changes in operations due to changing detector response (contamination)
- Changes of operations due to thermal issues
- Automatic / faster ToO response
- Distributed science operations and effective communication
- Extended mission phase, end of life operations
- Effects of coordinated observations / ToO on long- and short-term schedule

IACHEC talks

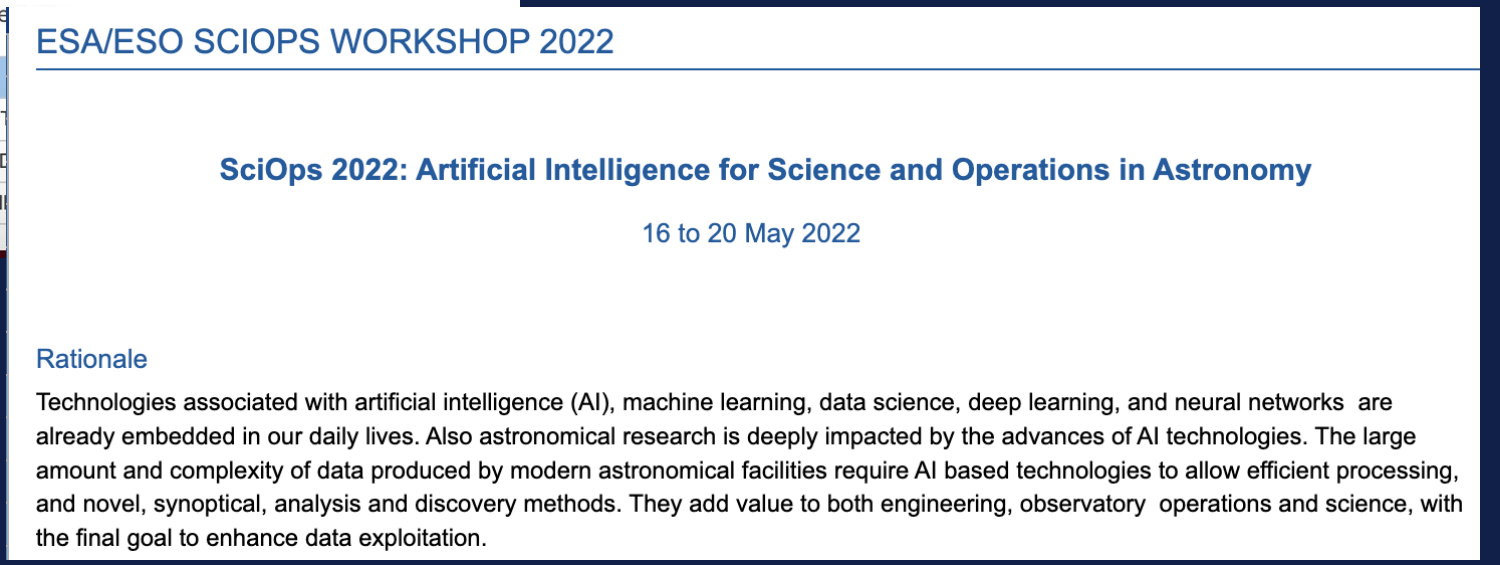
- IACHEC general session typically has “mission status” talks
  - They can focus on calibration status
  - Often include spacecraft status, but difficult to cover in limited time
- New working group would disentangle these talks
  - Focus on spacecraft status, issues, and future in the new WG
  - Discuss any changes to science operations

Not a new idea…

In the past there were ESA – ESO science operations workshops

Focused on general operations topics and issues, like AI

Discontinued since a few years.



IACHEC SciOps WG

- Focus on Science Operations issues of (high-energy, astro-observatories) satellites
- Synergies with coordinated observations WG, but different focus
- Could attract operations scientists that are not directly related to calibration to IACHEC

- Provide guidance for new missions
- Brainstrom modernization for old missions
- Help solve common issues together