



AMF Vision: To provide accurate and detailed state-of-the-art measurements of the Earth's atmosphere

AMF Mission: To provide measurement infrastructure to the science community through strategically located observatories, laboratories and the provision of cutting edge instrumentation operated by a dedicated team of scientists

What is the AMF?

Formally created in 2014 to enable NCAS to deliver NERC National Capability (NC), the AMF facilitates access to:

- Quality-assured data products with traceability to standards and supporting documentation
- Specialist ground-based and airborne instrumentation operated by a dedicated team of highly skilled Instrument Scientists (IS)
- Long-term measurements (via British Atmospheric Data Centre (BADC))
- Project / deployment-specific data products and facilities
- UK-based measurement infrastructure through strategically located observatories and laboratories

Who can use AMF? –

Anyone! Cost and prioritisation is determined by who you are and where you are funded from

- University groups, NERC-funded students and NERC Centres for use within NERC remit research.
Cost: Project-specific consumables and possibly staff time
- Projects by organisations who have partner agreements with NCAS
Cost: Project-specific consumables AND staff time
- Any occasion where 1. or 2. don't apply. Commercial \ none-research, EU projects or research outside of NERC remit
Cost: Full cost recovery

Data – Field and Archived

- Field** – Campaign participants only. No quality control (QC) or documentation. Available quickly and in a convenient format. **Not publishable.**
- Archived (Campaign)** – Participants only until data becomes open access (maximum 2 years). Minimal post processing other than quality checking. Delivery to BADC within 2 months. Above data protocols adhered to. **Publishable.**
 - Value Added Data (VAD) – substantial post-processing from IS. Additional appropriate cost to cover IS time. Delivery to BADC > 2 months. Above data protocols adhered to. **Publishable.**

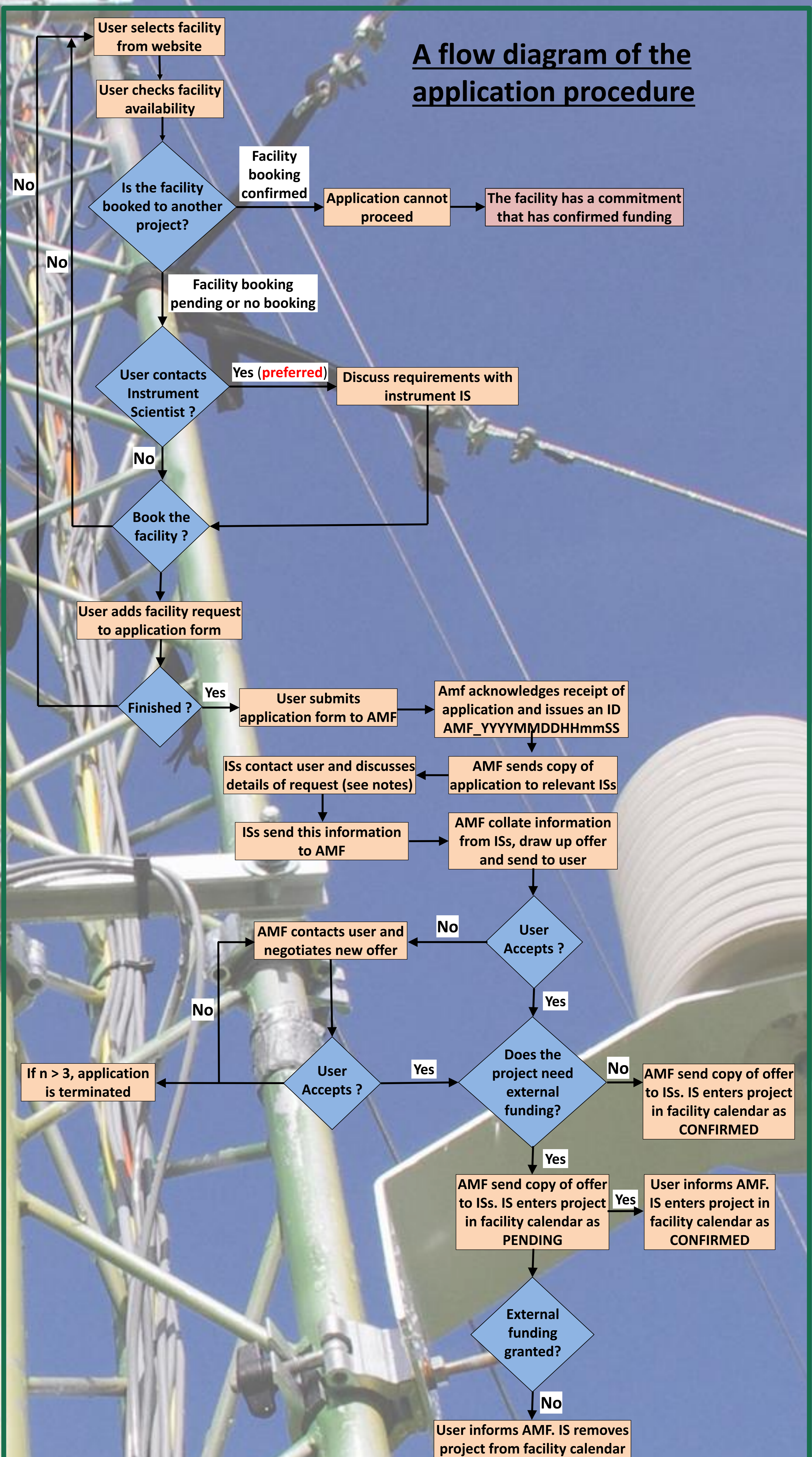
Process

- Browse website to see what you might be interested in & check availability
- If desired dates are "pending" applications are still welcome. Priority is based on application date of receipt
- Online application form
 - Project info + funding & duration requirements
- Offer (with costs) collated by IS & sent to requestor
 - Maximum of 3 offers
- Facility confirmation once offer accepted and funding confirmed

A selection of AMF instruments (see website for full list)



A flow diagram of the application procedure



Further Information

- Instrument Scientist (IS) time is fully costed (minimum 2 days)
- Consumables include insurance, shipping, IS time for data provision & full travel and subsistence costs, extra cabling if required, mounting / securing and transporting materials.
- Users without a formal partnership with NCAS will also be charged a daily rental for the instrument. This will be arranged through discussion with AMF.
 - All data remains the property of NCAS and negotiation between users of AMF instrumentation will determine its availability and archiving.
- IS time to provide Quality Controlled data will be instrument-specific and again form part of the offer negotiation.

Instrument Categories

- Instruments can be deployed & operated without IS intervention & no IS time required to process data. AMF will ensure that the instrument is supplied in full working order and calibrated. Training can be negotiated.
- IS input required for data processing (max 2 months) only
- IS required for data processing & instrument deployment
- IS required for data processing, deployment & operating / monitoring
- IS required for deployment & operation but > 2 months is required for data processing. Value Added Data (VAD) are offered as discussed with IS.
- Instrument under development / testing. No AMF products are available but developmental VAD products are offered through discussion with IS.