

**OPERATIONAL PRACTICE FOR THE PRESERVATION OF RADIO QUIET
CONDITIONS IN THE NY-ÅLESUND AREA**

Ny-Ålesund is a remote site and has limited amounts of emission of electromagnetic radiations. This ensures that large portions of the electromagnetic spectrum are suitable for detection of low-intensity sources, since there is little or no interference from local emitting sources. This favourable situation is an asset to the site and calls for active and future-oriented management.

The long-term goal is to preserve and protect Ny-Ålesund as a radio-quiet site. In practice, one has so far sought to locate actively emitting instruments near Longyearbyen and passive instruments in Ny-Ålesund. However, for scientific, historical, and safety reasons, there are emitting instruments in Ny-Ålesund today.

An operational response for NySMAC, when challenged by proposals involving instruments which actively emit electromagnetic radiation, should ensure that the following requirements are fulfilled:

1. It is judged necessary, with documented scientific arguments, to install the proposed instrument in Ny-Ålesund rather than elsewhere on Svalbard, and a suitable location has been identified.
2. The new instrument cannot cause interference to existing instruments or observing programmes. Should problems arise, the active instrument must cease operation immediately until the problems are solved.
3. A complete list of frequencies, directivity, operation modes (continuous, periodic, episodic), allocated time windows, contact persons, responsible institution, and other relevant data has been submitted to the NySMAC Secretariat and the obligation to update the list annually has been accepted. Updates are to be provided by all active parties in Ny-Ålesund on a special form provided by the NySMAC Secretariat.

Actively emitting instruments may be granted operational status on a temporary basis, for specified time intervals, with possibilities for renewal.

NySMAC Secretariat
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