















Although many reports suggested decline of nitrogen oxide emissions, it was suggested the decline of ammonia emissions has not been sufficient. Nitrogen cycle is listed as one of the most important earth-system processes in the concept of “Planetary boundaries” and nitrogen cycle has already transgressed its boundary. Atmospheric nitrogen has the important role in nitrogen cycle.

- Relationship with Climate Change

Climate change is closely related to the sulfur and nitrogen cycle, and climate change may delay recovery from acidification.

15. Currently, KJK is still important as the core site for cooperation with the EANET countries, including the comparative study with Russia. Although recovery from acidification has been suggested, excess sulfur leaching and progress of nitrogen saturation should be monitored carefully. From a scientific point of view, observations at the KJK will need to continue for at least the next five years. Efforts should be made to obtain external research grants for this purpose.

#### IV. Actions required at SAC20

16. SAC20 is invited to review the progress of catchment analysis.