

FEATURES OF THE VARIATIONS OF THE TOTAL OZONE CONTAMINATION ON THE MERIDIONAL PROFILE IN THE BARENTSREGION

Semenov A.V.

Murmansk Hydrometeorological Center

Roldugin V.C., Karpetchko A.Yu., Beloglazov M.I., Chernouss S.A.

Polar Geophysical Institute of the KSC RAS

Data of TOC obtained by the M-124 ozonometers at the meridian 30° E during 1998-2001 years are under consideration. Measurements were carried out at Barentsburg (Spitsbergen), Murmansk and Apatity (Kola peninsula). Relationship of the circumpolar vortex and space and time TOC variations are discussed. Season deviation of the TOC at different stations are demonstrated. Variations of the TOC for four years period at continental and island stations are estimated. Case studies of connection of the simultaneous measurement of stratospheric parameters were done. Some tendencies of recovery of the ozone layer appear to be real.