

192. Falck, A., Measurements of auroral particles by means of sounding rockets of mother-daughter type.
KGI report 192, November 1985.
193. Thelin, B., A new method of organising spectral line intensity ratio fluctuations of auroral- and nightglow emissions.
KGI Scientific report 193, November 1986.
194. Steen, Å., Investigations of auroral dynamics: Techniques and results.
IRF Scientific report 194, October 1988. Doktors
avhandl
195. Derblom, H. och I. Arlefjård, MICROMUF-S. Personaldatorbaserad frekvens-
prognos för kortvåg inom Sverige.
IRF Scientific report 195, Mars 1988.
196. Hultqvist, B., Scientific results from the Swedish Viking satellite:
A 1988 status report.
IRF Scientific report 196, 1988.
197. Thelin, B., Observations of wavenumber dependent spectral line ratio
fluctuations in the atmospheric emissions.
IRF Scientific report 197, 1988.
198. Leyser, T.B., Stimulated electromagnetic emission in the ionosphere.
IRF Scientific Report 198, March 1989. Doktorsavhandling
199. Lundborg, B., Electromagnetic pulse propagation through a stratified
ionosphere.
IRF Scientific Report 199, March 1989.
200. Derblom, H., MICROCOM-HF. PC-baserad HF-prognos för MUF, FOT, LUF, Es
och fältstyrka.
IRF Scientific Report 200, Februari 1989.
201. ²⁰¹ Oscarsson, J., Stability analysis and reconstruction of wave distribution
functions in warm plasmas. Doktorsavhandling
IRF Scientific Report 201, May 1989.
202. Thelin, B., An intensity expression organising spectral line intensity
data.
IRF Scientific Report 202, November 1989.
203. Hultqvist, B., Actions of magnetospheres on planetary atmospheres.
IRF Scientific Report 203, December 1989.
204. Häggström, I., Incoherent scatter studies of upper atmosphere dynamics
and coding technique.
IRF Scientific Report 204, September 1990. Doktorsavhandling.
205. Kirkwood, S., Electrodynamics of the auroral E-region.
IRF Scientific Report 205, October 1990. Doktorsavhandling.

177. Steen, Å. and G. Gustafsson, Proposal for EISCAT-measurements.
Combined optical and incoherent scatter radar measurements to
study auroral dynamics. I. Pulsating aurora.
KGI report no. 177, April 1980.
178. Steen, Å., D. Rees and G. Gustafsson, Proposal for EISCAT-measurements.
Combined optical and incoherent scatter radar measurements to
study auroral dynamics. II. The westward travelling surge.
KGI report no. 178, February 1982.
179. Rönmark, Kjell, WHAMP-Waves in homogeneous, anisotropic
multicomponent plasmas.
KGI report no. 179, June 1982.
180. Häggström, I., A. Pellinen, and J. Murdin, Collision frequencies in the
ionosphere.
KGI report no. 180, June 1983.
181. *Makulerad*
182. Steen, Å., Spatial monitoring of auroral emissions.
KGI report no. 182, December 1983.
183. Kiruna Geophysical Institute. Annual report 1983.
KGI report no. 183, February 1984.
184. Townsend, M., André, M., Simultaneous observations of electron spectra in
the auroral zone and near the equatorial plane by the DMSP-5D-F2 and
GEOS-1 satellites.
KGI Report 184, July 1984.
185. Sandahl, I., Pitch angle scattering and particle precipitation in a pulsating
aurora - on experimental study. *Doktorsavhandling*
KGI report, no 185, October 1984.
186. Häggström, I., J. Murdin and D. Rees, Determination of the thermospheric
neutral wind from incoherent scatter radar measurements.
KGI report no. 186, November 1984.
187. ~~Stasiewicz, K., Numerical simulation of the performance of electrostatic,
multidirectional toroidal analysers.~~ *Makulerad. 870807. Skall senare
fa ett Technical report nr.*
~~KGI report 187, December 1985.~~
188. Kiruna Geophysical Institute. Annual report 1984.
KGI report no 188, February 1985.
189. André, M. and T. Oscarsson, Waves below the proton gyrofrequency in a
multicomponent plasma.
KGI report 189, February 1985.
190. André, M., Dispersion surfaces and ion wave instabilities in space plasmas.
KGI report 190, August 1985. *Doktorsavhandling*
191. Stasiewicz, K., On the generation of auroral arcs and inverted-V structures.
KGI report 191, October 1985. *Doktorsavhandling*

- 165 Chernouss, S.A., Menshutina, I.N., Roldugin, V.C., Starkov, G.V., Driatskiy, V.M., Gustafsson, G., Holmgren, L-Å., Harang, O., Henriksen, K.: Longperiodic pulsations and displacements of aurora and magnetic disturbances during substorm. The Auroral Observatory Report no. 40 - 77, February 1977. Trondheim, Norway.
- 166 Åström, K., Expected muon spectra at two different latitudes. KGI report no 77:2, April 1977.
- 167 Murdin, J., SNR for the EISCAT UHF system. KGI report no. 78:1, February 1978.
- 168 Åström, K., Cascade processes in the atmosphere and an analysis of muon monitor data. KGI report no. 78:2, March 1978. *Doktorsavhandling*
- 168 Åström, K., Cascade processes in the atmosphere and an analysis of muon monitor data. KGI report no. 78:2, March 1978. *Sammanfattning av doktorsavhandling*
- 169 Hultqvist, B., Some recent results from European sounding rocket and satellite observations of the hot magnetospheric plasma. KGI report no. 79:1, March 1979.
170. Murdin, J., EISCAT UHF geometry. KGI report No. 79:2, July 1979.
171. Murdin, J., Errors in incoherent scatter radar measurements. KGI report no. 79:3, August 1979.
172. Murdin, J., Brekke, A., Chatanika incoherent scatter radar measurements: A three day experiment. KGI report No. 80:1, October 1980.
173. Murdin, J., Incoherent scatter radar measurements in the auroral zone. KGI report no. 80:2, October 1980. *Doktorsavhandling*
173. Murdin, J., Incoherent scatter radar measurements in the auroral zone. KGI report no. 80:2, October 1980. *Sammanfattning*
174. Steen, A., Gustafsson, G., The spectral hardening associated with the westward travelling surge. KGI report no. 80:3, December 1980.
175. Westerlund, S., G. Gustafsson, A. Steen, J. Murdin, G. Wannberg, R. Boström, A. Hedberg, H. Opgenoorth, E. Nielsen, C-G., Fälthammar, A. Pedersen, A Swedish proposal for an EISCAT/GEOS-2 experiment. KGI report 175, March 1981.
176. Liszka, L., Studies of the stratospheric and mesospheric wind system and temperature distribution from observations of infrasonic waves generated during regular concorde flights. KGI report no. 176, September 1981.

146. Westerlund, S.: Magnetotelluric experiments in the frequency range 0.01 Hz to 10 Khz. KGO report 72:10, November 1972.
147. Westerlund, S.: Abnormal propagation conditions in the terrestrial VLF waveguide, KGO report no. 72:11, December 1972. *doktorsavhandling*
148. Gustafsson, G.: Auroral observations in relation to particle measurements on GEOS. Field line tracing. KGO report no. 73:1, March 1973.
149. Makulerad. Samma som KGO report no. 73:4, 1973.
150. Westerlund, S.: VLF receiver calibration. KGO report no. 73:3, September 1973.
151. Lundin, R.: Rocket observations of energy spectra and pitch angle distributions of auroral electrons. KGO report no. 73:4, December 1973.
152. Liszka, L.: Föredrag vid nordiska akustiska sällskapets möte i Lund 5-6 juni 1974. KGI rapport no. 74:1, April 1974.
153. Hultqvist, B., Borg, H., Christophersen, P., Riedler, W., Bernstein, W.: Energetic protons in the keV energy range and associated keV electrons observed at various local times and disturbance levels in the upper ionosphere. NOAA Technical Report ERL 305-SEL 29. U.S. Department of Commerce. National Oceanic and Atmospheric Administration. Environmental Research Laboratories, Boulder, Colorado. NOAA TR ERL 305 SEL 29. January 1974.
154. Annual report for the fiscal year 1 July 1973 - 30 June 1974. January 1975.
155. Westin, H.: Studies of auroral infrasonic waves in the 0.1 - 0.01 Hz range. KGI report no. 75:1, September 1975.
156. Westin, H.: Buoyancy waves in the surface inversion during the subarctic winter. KGI report no. 75:2, December 1975.
157. Westin, H.: A comparison of auroral infrasonic waves in the 0.1 - 0.01 Hz range with simultaneous signals on the 2 Hz receiver. KGI report no. 76:1, June 1976.
158. Annual report for the fiscal year 1 July 1974 - 30 June 1975. May 1976.
159. Westin, H.: 2 Hz infrasound and geomagnetic activity. KGI report no. 76:2, October 1976.
160. Westin, H.: Studies of auroral infrasonic substorms. KGI report no. 76:3, October 1976.
161. Westin, H.: Infrasound waves of auroral origin. KGI report 76:4, October 1976.
162. Westin, H.: Studies of infrasonic waves in the auroral zone. KGI report no. 76:5, November 1976. *Doktorsavhandling*.
163. Westin, H.: Studies of infrasonic waves in the auroral zone. KGI report no. 76:5, November 1976. *Sammanfattning*.
164. Lundin, R.: Investigations of auroral electron precipitation by means of sounding rockets. KGI report no. 77:1, April 1977. *DOKTORSAVHANDLING*

130. Olsson, S. and Liszka, L.: Polarimeter observations of the intelsat 2F-1 satellite at subauroral latitudes. KGO report no. 712, August 1971.
131. Westerlund, S. and Johansson, H.: Equipment for magnetotelluric measurements in the frequency range 0.01 Hz to 10 Khz. KGO report no. 713, September 1971.
132. Proceedings of the SAR symposium held in Kiruna 24-25 March 1971. KGO report no. 714, October 1971.
133. Liszka, L. and Turunen, T.: On the relation between the auroral particle precipitation and the ionospheric trough. KGO report no. 715, September 1971. (Revised).
134. Svennesson, J.: Polarization measurements of frequency stabilized VLF signals. KGO report no. 716, December 1971.
135. Liszka, L.: On the origin of the predawn effect in the F-region. KGO report no. 717, December 1971.
136. Olsson, S. and Liszka, L.: Unusual polarization effect observed on intelsa 2F-1 transmissions. KGO report no. 721, January 1972.
137. Liszka, L.: Detection of 2 Hz infrasound from underground nuclear explosions. KGO report no. 722, March 1972.
138. Theander, A.: Studies of auroral absorption substorms. KGO report no. 723, April 1972. *doktorsavhandling*
139. Liszka, L. and Westin, H.: On the origin of the infrasound background at 1.9 Hz. KGO report no. 724, March 1972.
140. Olsson, S.: Studies of storm effects on the total electron content and of ionospheric irregularities by means of improved techniques. KGO report no. 725, April 1972. *doktorsavhandling*
141. Olsson, S. and Liszka, L.: Fixed frequency ionosonde receiver with a phase swept interferometer. KGO report no. 726, April 1972.
142. Liszka, L. and Westin, H.: Detection of 2 Hz infrasound produced by moving auroral electrojets. KGO report no. 727, April 1972.
143. Olsson, S.: Unusual behavior of the ionospheric electron content during the magnetic storm, December 14-17, 1971. KGO report no. 728, April 1972.
144. Liszka, L.: Observations of beacon transmissions from satellites Intelsat 2F-1 and 2F-2, 1 April 1972 - 30 June 1972. Summary scientific report. Contract F 61052-47-C-0026, 1 August 1972.
145. Svennesson, J.: Ionospheric D-region effects observed by means of VLF radio waves. KGO report no. 729, September 1972. *doktorsavhandling*

113. Gustafsson, G.: On the accuracy of the auroral orientatin curves.
KGO report no. 6810, September 1968.
114. Liszka, L.: Measurements of line-of-light velocities in prominences.
KGO report no. 691, 1969.
115. Gustafsson, G.: A system for automatic collection and processing of
geomagnetic data in digital form. Final scientific report.
Contract AF(052)-866. KGO report no. 692, April 1969.
116. Hultqvist, B.: Polar magnetic substorms. KGO report no. 693, April
1969.
117. Gustafsson, G.: A revised corrected geomagnetic coordinated system.
KGO report no. 694, April 1969.
118. Westin, H. and Liszka, L.: Motion of ascending prominences. KGO report
no. 695, June 1969.
119. Riedler, W. and Hultqvist, B.: First results of 1 and 6 kev proton
measurements from the ESRO I (Aurorae) satellite. KGO report
no. 696, June 1969.
120. Hultqvist, B.: Geokosmofysik. KGO rapport no. 697, Augusti 1969.
121. Makulerad. Överförd till preprint 69:301.
122. Liszka, L.: Model calculations of travelling ionospheric disturbances in
the inhomogeneous ionosphere. KGO report no. 701, March 1970.
123. Liszka, L.: Calculations of electron content variations due to the
passage of gravity waves. KGO report no. 702, March 1970.
124. Liszka, L.: Estimation of parameters of internal gravity waves from
electron content measurements. KGO report no. 703, March 1970.
125. Wernik, A.W.: On the dependence of satellite radio signals scintillations
on zenith angel. KGO report no. 704, September 1970.
126. Liszka, L.: Model calculations of travelling ionospheric disturbances in
the ionosphere applied to quasiperiodical variations of the ionos-
pheric electron content. Final scientific report. Contract F 61052-
67-C-0026, 12 September 1970.
127. Westerlund, S.: A Fortran program package for frequency analysis of magneto
telluric data. KGO report no. 705, December 1970.
128. Westerlund, S.: Preliminary results of magnetotelluric soundings in the
range 0.01-10000 Hz. KGO report no. 706, December 1970.
129. Liszka, L. and Olsson, S.: On the generation and detection of artificial
atmospheric waves. KGO report no. 711, February 1971.

96. Hultqvist, B.: On the solution of the integral equation relating height distribution of electron density to radio wave absorption. KGO report no. 673, August 1967.
97. Riedler, W.: Double-peaked electron spectra observed in an aurora. KGO report no. 674, August 1967.
98. Hultqvist, B.: Auroral particles. Presented at the Birkeland symposium Sandefjord, September 1967. KGO report no. 675.
99. Reder, F.H. and Westerlund, S.: VLF signal phase instabilities produced by propagation medium experimental results. KGO report no. 676, December 22, 1967.
100. Wernik, A.: Continuous measurements of the faraday effect using crossed antennae. KGO report no. 677, December 1967.
101. Liszka, L. and Wernik, A.: Faraday rotation observations using a rotating antenna. KGO report no. 678, December 1967.
102. Gustafsson, G.: Auroral orientation curves and the auroral oval. KGO report no. 681, January 1968.
103. Wernik, A. and Liszka, L.: On the amplitude distribution of scintillating radio signals from artificial satellites. KGO report no. 682, January 1968.
104. Gustafsson, G. and Nilsson, S.: A system for automatic collection and processing of geomagnetic data in digital form. Annual summary report. Contract no. AF 61(052)-866, 4 March 1968.
105. Hultqvist, B.: A study of electrostatic plasma waves at megahertz frequencies in the upper ionosphere. KGO report no. 683, March 1968.
106. Riedler, W.: Rocket measurements of proton and electron spectra in auroral glow. KGO report no. 685, April 1968.
107. Hultqvist, B.: Polar cap absorption and ground level effects. KGO report no. 686, April 1968.
108. Liszka, L.: JSSG-spaced receiver measurements. Final Scientific report. Contract F 61(052)-67 C 0072, 24 April 1968.
109. Riedler, W.: Auroral rocket research in Scandinavia. KGO report no. 684, April 1968.
110. Hultqvist, B.: Auroral and polar cap absorption. KGO report no. 687, June 1968.
111. Hultqvist, B.: Auroras and polar substorms: Observations and theory. KGO report no. 688, August 1968.
112. Riedler, W.: Raketeninstrumentierung zur Messung nordlichterzeugender Teilchen. Mitteilung nr. 689.

83. Ehmert, A., Kremser, G., Pfozter, G., Saeger, K.H., Wilhelm, K., Riedler, W., Bewersdorff, A., Legrand, J.P., Palous, M., Oksman, J. and Tanskanen, P.: Simultaneous measurements of auroral x-rays at Kiruna (Sweden) and Ivalo/Sodankylä (Finland) from July to September 1965. Reprint from SPARMO-bulletin no. 2, 1966.
84. Keppler, E., Riedler, W., Trefall, H. and Björdal, J.: A combined rocket-borne and balloon-borne measurements of electron precipitation effects in the auroral zone. Reprint of SPARMO-bulletin no. 1, 1966.
85. Bewersdorff, A., Kremser, G., Legrand, J.P. and Riedler, W.: Some properties of the slowly varying ionosphere absorption events in the auroral zone (summary). Reprint of SPARMO-bulletin no. 1, 1966.
Bewersdorff, A., Keppler, E., Kremser, G., Dion, J., Legrand, J.P. and Riedler, W.: Energy variations of auroral electrons according to balloon measurements. Reprint from SPARMO-bulletin no. 2, 1966.
86. Heristchi, D., Kangas, J., Kremser, G., Legrand, J.P., Masse, P., Palous, M., Pfozter, G., Riedler, W. and Wilhelm, K.: Preliminary report on measurements with balloon-borne detectors in northern Scandinavia during the solar proton event of July 7, 1966. Reprint of SPARMO-bulletin no. 4, 1966.
87. Hultqvist, B.: Negative ions in the lower ionosphere with special reference to experimental evidence from upper atmosphere research. Report no. KGO 652, August 1965.
88. Riedler, W.: Messung der Energiespektren und Winkelverteilungen von Elektronen im Nordlicht. Mitteilung no. 663, Oktober 1966.
89. Kungl. Vetenskapsakademiens geofysiska observatorium i Kiruna. Historik, nuläge, framtid. KGO rapport no. 664, Oktober 1966.
90. Westerlund, S.: Natural electromagnetic fields and waves over geological conductors. A review. KGO report no. 665, December 1966.
91. Liszka, L.: The trough seen in high latitude observations of the ionospheric electron content. Science report no. 12. Contract no. AF 61(052)-678, 9 January 1967.
92. Wernik, A.W. and Liszka, L.: On the amplitude distribution of scintillating radio signals from artificial satellites. KGO report no. 671, January 1967.
93. Gustafsson, G.: A system for automatic collection of geomagnetic data in digital form. Final scientific report. Contract no. AF 61(052)-237, 10 February 1967.
94. Westerlund, S.: Periodic fading of VLF signals received over a polar path during sunset and sunrise. KGO report no. 672, March 1967.
95. Liszka, L.: Auroral zone ionospheric research. Final scientific report. Contract no. AF 61(052)-678, 23 May 1967.

- 69b. Bewersdorff, A., Kremser, G., Pfozter, Rossberg, L., Riedler, W., Trefall, H. and Legrand, J.P.: Measurements of high energetic auroral radiations with balloon-borne detectors in 1962 and 1963. Technical report. Max-Planck-Institut für Aeronomie, Institut für Stratosphärenphysik, Lindau/Hartz. Part A-C, Text, Part D, Figures and diagrams, 1964.
70. Hultqvist, B.: On the amplification of ELF emissions by charged particles in the exosphere, with special reference to the frequency band around the proton cyclotron frequency. Scientific report no. 2. Contract no. AF 61(052)-619, January 1965.
71. Liszka, L. and Westerlund, S.: Auroral zone ionospheric research. Annual summary report. Contract no. AF 61(052)-678, March 1965.
72. Westerlund, S.: Micropulsation measurements on the ground surface. Scientific report no. 3. Contract no. AF 61(052)-619, March 1965.
73. Riedler, W.: An electron-proton spectrometer for rockets using solid state detectors, March 1964.
74. Riedler, W.: On the influence of gravity on magnetohydrodynamic wave propagation. Scientific report no. 4. Contract no. AF 61(052)-619, June 1965.
75. Hultqvist, B.: Plasma waves in the frequency range of 0.001 - 10 cps in the earth's magnetosphere and ionosphere. Final report. Contract no. AF 61(052)-619, June 1965.
76. Riedler, W.: Balloon-borne measurements of solar ionizing radiation. Contract no. AF 61(052)-604, 31 October 1965.
77. Johansson, K-G. and Liszka, L.: A study of some properties of diffraction patterns produced by radio waves from artificial satellites. Scientific report no. 10. Contract no. AF 61(052)-678, 26 November 1965.
78. Liszka, L.: Latitudinal and diurnal variations of the ionospheric electron near the auroral zone in winter. Scientific report no. 11. Contract no. AF 61(052)-678, 7 December 1965.
79. Hultqvist, B.: Ionospheric absorption of cosmic radio noise. KGO report no. 661, January 1966.
80. Kremser, G., Keppler, E., Bewersdorff, A., Saeger, S.H., Ehmert, A., Pfozter, Riedler, W. and Legrand, J.P.: X-ray measurements in the auroral zone from July to October 1964. Reprint from SPARMO-bulletin no. 3, 1965.
81. Liszka, L. and Westerlund, S.: Auroral zone ionospheric research. Task 1: Annual summary report. Task 2: Final report. Contract no. AF 61(052)-678, 23 March 1966.
82. Bewersdorff, A., Kremser, G., Riedler, W. and Legrand, J.P.: Some properties of the slowly varying ionospheric absorption events in the auroral zone. KGO report no. 662, April 1966.

56. Egeland, A., Gustafsson, G., Olsen, S., Barron, W. and Katz, A.: An investigation of the natural electromagnetic radiations between 10 c/s and 10 kc/s. Scientific report no. 5. Contract no. AF 61(052)-678, 20 February 1964.
57. Lyszka, L. and Egeland, A.: Auroral zone ionospheric research. Annual summary report. Contract no. AF 61(052)-678, 20 March 1964.
58. Gustafsson, G., Eleman, F. and Heikkilä, K-E.: A system for automatic collection of geomagnetic data in digital form. Annual summary report. Contract no. AF 61(052)-237. Report period 1 December 1962 - 31 January 1964, 24 March 1964.
59. Frihagen, J. and Lyszka, L.: A study of auroral zone ionospheric irregularities made simultaneously at Tromsø, Norway and Kiruna, Sweden. Scientific report no. 6. Contract no. AF 61(052)-678, 20 May 1964.
60. Gustafsson, G.: Morphology of the visible aurora, its relation to magnetic variations and cosmic noise absorption. Scientific report no. 4. Contract no. AF 61(052)-288, 21 May 1964.
61. Lyszka, L.: An investigation of the height of scintillation producing irregularities. Scientific report no. 7. Contract no. AF 61(052)-678, 12 July 1964.
62. Lyszka, L.: A new method for determining the altitudes of scintillation producing irregularities. Scientific report no. 8. Contract no. AF 61(052)-678, 14 July 1964.
63. Lyszka, L.: A study of the scintillation rate spectrum observed in the auroral zone. Scientific report no. 9. Contract no. AF 61(052)-678, 20 July 1964.
64. Paulson, K.V., Egeland, A. and Eleman, F.: The polarization of giant pulsations at Kiruna. Scientific report no. 1. Contract no. AF 61(052)-619, 25 July 1964.
65. Gustafsson, G.: Spectrophotometric studies of aurora. Final report AF 61(052)-288.
66. Hultqvist, B.: On the height of auroral absorption. NASA Goddard Space Flight Center, Greenbelt, Md., USA. X-611-63-257, December 1963.
67. Hultqvist, B.: Aurora and the lower ionosphere in relation to satellite observations of particle precipitation. NASA Goddard Space Flight Center, Greenbelt, Md., USA. X-611-64-107. April 1964.
68. Hultqvist, B.: Aurora. NASA Goddard Space Flight Center, Greenbelt, Md., USA. X-611-64-97, April 1964.
69. Hultqvist, B.: On the height of auroral absorption, II. NASA Goddard Space Flight Center, Greenbelt, Md., USA. X-611-64-155, May 1964.

41. Liszka, L.: Northern latitude propagation. Final report. Contract no. AF 61(052)-601, 23 March 1963.
42. Egeland, A., Olsen, S. and Gustafsson, G.: Audio- and subaudio - frequency electromagnetic radiation at high latitude. Final report, task 1 and 2. Contract no. AF 61(052)-600, 25 March 1963.
43. Gustafsson, G., Thunberg, A. and Heikkilä, K-E.: A system for automatic collection and processing of standard magnetometer data, and the calculation of their power spectrum. Annual summary report. Contract no. AF 61(052)-237. Report period 1 October 1961 - 30 November 1962. 10 April 1963.
44. Egeland, A. and Riedler, W.: Very low frequency radio wave propagation at high-latitudes. Scientific report no. 1. Contract no. AF 61(052)-678, 25 June 1963.
45. Gustafsson, G.: Ionization in the D-region during auroral break up events. Scientific report no. 3. Contract no. AF 61(052)-288, 31 July 1963.
46. Gustafsson, G. and Lundström, J-E.: A short description of the auroral photometer at Kiruna Geophysical Observatory. Annual summary report no. 3. Contract no. AF 61(052)-288, 31 July 1963.
47. Liszka, L.: Auroral zone faraday rotation studies. Scientific report no. 2. Contract no. AF 61(052)-678, 30 December 1963.
48. Liszka, L.: Dependence of auroral zone satellite scintillation on geomagnetic activity. Scientific report no. 3. Contract no. AF 61(052)-678, 16 January 1964.
49. Brown, R.R.: Features of the auroral electron energy spectrum inferred from observations of ionospheric absorption. (Dept. of Physics, Univ. of California, Berkeley, Calif. USA).
50. Liszka, L.: The geographical distribution of satellite scintillation activity above northern Scandinavia. Scientific report no. 4. Contract no. AF 61(052)-678, 10 February 1964.
51. Brown, R.R.: Day-night ratio of auroral absorption for breakup events, 1963.
52. Hultqvist, B. and Egeland, A.: Radio aurora. November 1963.
53. Gustafsson, G. and Egeland, A.: Magnetometer, photometer and earth current observations at Kiruna. Final report. Contract no. AF 61(052)-688, 15 February 1964.
54. Hultqvist, B.: On the height of auroral absorption. NASA-X-611-63-257, December 1963.
55. Brown, R.R.: A study of slowly varying and pulsating ionospheric absorption events in the auroral zone. 1964.

26. Liszka, L.: Investigations of properties of the auroral zone ionosphere by means of a radioastronomical swept-frequency interferometer, covering the frequency band 35-65 Mc/s. Scientific report no. 4. Contract no. AF 61(514)-1314, 1 February 1962.
27. Liszka, L.: Studies of HF- and VHF-auroral zone propagation. Final report, Tasks 1 and 2. Contract no. AF 61(514)-1314, 1 March 1962.
28. Egeland, A., Olsen, S. and Gustafsson, G.: Noise emissions in the audio frequency range. Final report, Task 3, Contract no. AF 61(514)-1314, 7 March 1962.
29. Ortner, J.: Self demodulation of medium frequency sky-waves. Scientific report. KGO no. 621.
30. Hultqvist, B.: Sunrise and sunset effects on cosmic noise absorption associated with aurora and magnetic storms. Scientific report 1, 22 April 1962. Contract no. AF 61(052)-601.
31. Liszka, L.: Observations of radio transmissions from 1961 A-Gamma 1 (Discoverer 32) made at Kiruna Geophysical Observatory. Scientific report no. 5, 30 April 1962. Contract no. AF 61(514)-1314.
32. Hultqvist, B.: The height distribution of the ratio of negative ion and electron densities in the lowest ionosphere. Scientific report no. 2, 6 May 1962. Contract no. AF 61(052)-601.
33. Gustafsson, G.: Time variation of auroral light emission down to periods of about 200 microseconds. Scientific report no. 1, 15 May 1962. Contract no. AF 61(052)-288.
34. Gustafsson, G. and Ortner, J.: Connections between sudden changes in auroral emissions ionospheric currents and electron contents. Scientific report no. 2, 15 May 1962. Contract no. AF 61(052)-288.
35. Liszka, L.: Diffraction of satellite signals by irregularities in sporadic E-layers. Scientific report no. 6, 18 May 1962. Contract no. AF 61(514)-1314.
36. Hultqvist, B.: Studies of ionospheric absorption of radio waves by the cosmic noise method. Scientific report no. 3, 15 June 1962. Contract no. AF 61(052)-601.
37. Liszka, L.: Auroral zone satellite scintillation studies. Scientific report no. 4, 10 July 1962. Contract no. AF 61(052)-601.
38. Egeland, A. and Eriksson B.: Studies of auroral echoes in the lower VHF band. Scientific report. KGO no. 622, 20 July 1962.
39. Ortner, J.: Polar cap experiments. Scientific report. KGO no. 623, July 1962.
40. Elkins, T. and Egeland, A.: Ionospheric effects associated with nuclear weapon tests July-December. Scientific report. KGO no. 632, 1 March 1963.

- 13b. Ortner, J.: Influence of solar flares on transarctic HF propagation Proc. 6th AGARD Ion. Res. Comm. Meeting Naples, June 1961.
14. Egeland, A.: Distance dependence of the signal strength for oblique 90 Mc/s auroral reflections. Scientific report no. 3. Contract no. AF 61(052)-418, 20 April 1961.
15. Egeland, A.: Fading rate of auroral reflections at 92.8 Mc/s. Scientific report no. 4. Contract no. AF 61(052)-418, April 1961.
16. Egeland, A.: Polarization characteristics of auroral echoes at 88.5 Mc/s. Scientific report no. 5. Contract no. AF 61(052)-418, 10 October 1961.
17. Egeland, A.: Studies of the angular properties of VLF-auroral reflections. Scientific report no. 6. Contract no. AF 61(052)-418, 20 October 1961.
18. Egeland, A.: Drift motions of auroral ionization. Scientific report no. 7. Contract no. AF 61(052)-418, 20 October 1961.
19. Egeland, A., Ortner, J. and Hultqvist, B.: A study of the statistics of VHF oblique auroral reflections. Scientific report no. 8. Contract no. AF 61(052)-418, 20 October 1961.
20. Egeland, A.: Very low frequency radio wave propagation over a long high-latitude path. Scientific report no. 9. Contract no. AF 61(052)-418, 20 October 1961.
21. Egeland, A., Hultqvist, B. and Ortner, J.: Northern latitude propagation research. Final report. Contract no. AF 61(052)-418, 20 October 1961.
22. Hultqvist, B.: An automatic digital recording and reducing system for geomagnetometer data. Summary report. Contract no. AF 61(052)-237, 21 October 1961.
23. Ortner, J. and Owren, L.: Multipath propagation on transarctic HF circuits. Scientific report no. 10. Contract no. AF 61(052)-418, 30 October 1961.
24. Hultqvist, B., Egeland, A., Gustafsson, G., Liszka, L., Ortner, J., Heikkilä, K.-E., Olsen, S., Mäkitalo, T. and Eriksson, B.: Report on observations made at Kiruna Geophysical Observatory during the series of nuclear weapon tests carried out at Novaja Zemlja between 10 September and 4 November 1961. Scientific report KGO no. 611, 11 December 1961.
25. Liszka, L.: Corpuscular radiation measurements by 1969 γ (Explorer VII) recorded at Kiruna Geophysical Observatory. Scientific report no. 3. Contract no. AF 61(514)-1314, 20 January 1962.

Lista över rapporter från Kiruna geofysiska observatorium.

1. Hultqvist, B., Aarons, J. and Ortner, J.: Report on and interpretation of strong ionization in the lower ionosphere, occurring in high latitudes within a few hours after some solar flares. Scientific report no. 1. Contract no. AF 61(514)-1314, February 1959.
2. Liszka, L.: Studies of transmissions from satellites with emphasis on propagation aspects. Technical summary report. Contract no. AF 61(514)-1314, Task 5, 15 October 1959.
3. Hultqvist, B.: A swept frequency interferometer for 35-65 Mc/s. Technical summary report. Contract no. AF 61(514)-1314, Task 4, 20 October 1959.
4. Ortner, J., Egeland, A. and Olsen, S.: A study of auroral propagation of 90 Mc/s radiation. Technical summary report. Contract no. AF 61(514)-1314, Task 1 and 2, 20 October 1959.
5. Hultqvist, B., Egeland, A., Liszka, L. and Ortner, J.: Studies of correlation between upper atmosphere variables in the auroral zone. Technical summary report. Contract no. AF 61(514)-1314, Task 6, 26 October 1959.
6. Ortner, J.: A study of transpolar HF-propagation. Technical summary report. Contract no. AF 61(514)-1314, Task 3, 30 October 1959.
- 6b. Ortner, J.: Untersuchung des ionisierten Nordlichtes mit Hilfe von ultra Kurzen Wellen. Febr. 1960. Doktorsavh. vid Universität Wien.
7. Egeland, A.: Prediction of geomagnetic storms - a review. Scientific report no. 1. Contract no. AF 61(052)-237, 1 June 1960.
8. Gustafsson, G.: Spectrophotometric studies of aurora. Technical summary report. Contract no. AF 61(052)-288, 20 January 1961.
9. Ortner, J., Egeland, A. and Hultqvist, B.: The great earth storms in November 1960 as observed at Kiruna Geophysical Observatory. Scientific report no. 1. Contract no. AF 61(052)-418, 7 February 1961.
10. Liszka, L. and Hultqvist, B.: Investigations of radio transmissions from 1958 ϕ 2 (Sputnik III) made at Kiruna Geophysical Observatory. Scientific report no. 2. Contract no. AF 61(514)-1314, 15 February 1961.
11. Hultqvist, B. and Liszka, L.: Some characteristics of a swept frequency interferometer for 35-65 Mc/s. Annual summary report no. 1, Task 1, Contract no. AF 61(514)-1314, 15 February 1961.
12. Liszka, L.: Studies of HF- and VHF-auroral zone propagation. Annual summary report no. 1. Contract no. AF 61(514)-1314, 15 February 1961.
13. Egeland, A., Hultqvist, B. and Ortner, J.: The influence of solar disturbances on very low frequency radio wave propagation over a long high-latitude path. Scientific report no. 2. Contract no. AF 61(052)-418, March 1961.