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Possibility of the radiation mechanism of the S-bursts deduced from the results of analyses of the S-N bursts

# Masaru Oya[1], Hiroshi Oya[2], Masahide Iizima[3]

[1] Geophysical Institute, Tohoku University, [2] Geophysical Ist. Tohoku Univ., [3] Geophysical Inst., Tohoku Univ.

Occasionally S-bursts were observed to be interacting with N-burst. In the DS, with a short period of time after the appearance of the S-burst, the second trend of the negative frequency drift is generated with slower drift rate; the new trend is called trailing edge. The detailed analyses of these phenomena indicate that the trailing edge is modified N-burst that show frequency shift from that corresponding to the origin of S-burst. This result indicates that the appearances of the S-burst are not influenced by the large scale geometry of the source region, but reflect the physics of the source itself for apparition of the generation region. This means that the acceleration regions of S-burst, are distributed in a wide altitude range from a few thousands km to 30,000km.