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Two barium plasma injections into the northern magnetospheric cleft

Author(s): Jeffries, R. A.; Roach, W. H.; Hones, E. W., Jr.; Wescott, E. M.; Stenbaek-Nielsen, H. C.; Davis, T. N.; Winningham, J. D.

Abstract: Two rocket experiments, performed in January 1975, investigated convection of plasma formed by solar photoionization of barium injected into the northern magnetospheric cleft at 13 km/s upward and parallel to the local ...

NASA Center: NASA (non Center Specific)

Publication Year: 1975

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Accession Number: 75A38468; **Document ID:** 19750054396

The L = 6.6 Oosik barium plasma injection experiment and magnetic storm of March 7, 1972

Author(s): Wescott, E. M.; Stenbaek-Nielsen, H. C.; Davis, T. N.; Murcray, W. B.; Peek, H. M.; Bottoms, P. J.

Abstract: A high-explosive shaped charge vaporizing a hollow conical liner of Ba metal and producing a fast field-aligned jet of plasma was detonated at high altitude, during a quiescent phase of a magnetic storm initiated by an ssc ...

NASA Center: NASA (non Center Specific)

Publication Year: 1975

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Accession Number: 75A27382; **Document ID:** 19750043310

Artificial aurora conjugate to a rocket-borne electron accelerator

Author(s): Davis, T. N.; Wescott, E. M.; Hallinan, T. J.; Stenbaek-Nielsen, H. C.; Hess, W. N.; Trichel, M. C.; Maier, E. J. R.

Abstract: An accelerator intended to send electron beams upward along an L = 1.24 magnetic field line was flown from a rocket launched from Kauai, Hawaii, on October 15, 1972. Though the intent was to produce several hundred ...

NASA Center: Goddard Space Flight Center, Johnson Space Center

Publication Year: 1980

Added to NTRS: 2004-11-03

Accession Number: 80A32701; **Document ID:** 19800048531

The Skylab barium plasma injection experiments. II - Evidence for a double layer

Author(s): Wescott, E. M.; Stenbaek-Nielsen, H. C.; Hallinan, T. J.; Davis, T. N.; Peek, H. M.

Abstract: Television observations of a barium-plasma flux tube extending from near 4500 km to near 10,000 km during a magnetic substorm and dawn-sector auroral display indicated several interesting anomalous events. Beyond 5500 km, ...

NASA Center: NASA (non Center Specific)

Publication Year: 1976

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Accession Number: 76A44627; **Document ID:** 19760061661

[An equipotential model for auroral arcs](#)

Author(s): Swift, D. W.; Stenbaek-Nielsen, H. C.; Hallinan, T. J.
Abstract: Shaped charge barium release data and high-speed auroral image data show the likely existence of anomalously large (about 1 V/m referred to the 100-km level) electric fields at distances the order of one earth radius above ...
NASA Center: NASA (non Center Specific)
Publication Year: 1976
Added to NTRS: 2004-11-03
Accession Number: 76A42700; Document ID: 19760059734

[The Echo 4 electron beam experiment - Television observation of artificial auroral streaks indicating strong beam interactions in the high-latitude magnetosphere](#)

Author(s): Hallinan, T. J.; Stenbaek-Nielsen, H. C.; Winckler, J. R.
Abstract: No Abstract Available
NASA Center: NASA (non Center Specific)
Publication Year: 1978
Added to NTRS: 2004-11-03
Accession Number: 78A45197; Document ID: 19780061288

[L = 1.24 conjugate magnetic field line tracing experiments with barium shaped charges](#)

Author(s): Wescott, E. M.; Stenbaek-Nielsen, H. C.; Davis, T. N.; Peek, H. M.; Bottoms, P. J.; Rieger, E. P.
Abstract: Description of three experiments involving the injection of barium ions into magnetic flux tubes with the aid of high-explosive shaped charges with hollow conical liners of barium metal. In these experiments (called Alco, ...
NASA Center: NASA (non Center Specific)
Publication Year: 1974
Added to NTRS: 2004-11-03
Accession Number: 74A18369; Document ID: 19740035619

[A high-altitude barium radial injection experiment](#)

Author(s): Wescott, E. M.; Stenbaek-Nielsen, H. C.; Hallinan, T. J.; Deehr, C. S.; Romick, G. J.; Olson, J. V.; Roederer, J. G.; Sydora, R.
Abstract: A rocket launched from Poker Flat, Alaska, carried a new type of high-explosive barium shaped charge to 571 km, where detonation injected a thin disk of barium vapor with high velocity nearly perpendicular to the magnetic ...
NASA Center: NASA (non Center Specific)
Publication Year: 1980
Added to NTRS: 2004-11-03
Accession Number: 81A17427; Document ID: 19810033023

[The Tordo 1 polar cusp barium plasma injection experiment](#)

Author(s): Wescott, E. M.; Stenbaek-Nielsen, H. C.; Davis, T. N.; Jeffries, R. A.; Roach, W. H.
Abstract: In January 1975, two barium plasma injection experiments were carried out with rockets launched into the upper atmosphere where field lines from the dayside cusp region intersect the ionosphere. The Tordo 1 experiment took ...
NASA Center: NASA (non Center Specific)
Publication Year: 1978
Added to NTRS: 2004-11-03
Accession Number: 78A34560; Document ID: 19780050651

[Rocket-borne measurements of the dayside cleft plasma - The Tordo experiments](#)

Author(s): Winningham, J. D.; Speiser, T. W.; Hones, E. W., Jr.; Jeffries, R. A.; Roach, W. H.; Evans, D. S.; Stenbaek-Nielsen, H. C.
Abstract: Results are presented from low-energy plasma analyzers (12 eV to 12 keV) carried on two rockets launched into the dayside cleft during January 1975. It is concluded that (1) atmospheric interaction becomes important for less ...
NASA Center: NASA (non Center Specific)
Publication Year: 1977
Added to NTRS: 2004-11-03
Accession Number: 77A34533; Document ID: 19770051681; Report Number: AD-A064473, AFGL-TR-77-0143

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