

## References

- Axford, W. I., & Hines, C. O. (1961). A unifying theory of high-latitude geophysical phenomena and geomagnetic storms. *Canadian Journal of Physics*, 39(10), 1433-1464.
- Birkeland, K. (1908). *The Norwegian aurora polaris expedition 1902-1903* (Vol. 1). H. Aschelhoug & Company.
- Burton, R. K., McPherron, R. L., & Russell, C. T. (1975). An empirical relationship between interplanetary conditions and Dst. *Journal of geophysical research*, 80(31), 4204-4214.
- C: son Brandt, P., Ohtani, S., Mitchell, D. G., Fok, M. C., Roelof, E. C., & Demajistre, R. (2002). Global ENA observations of the storm mainphase ring current: Implications for skewed electric fields in the inner magnetosphere. *Geophysical research letters*, 29(20), 15-1.
- Chapman, S. (1931). VCA Ferraro. A new theory of magnetic storms, *J. Geophys. Res*, 36, 171.
- Cowley, S.W. (2013). *Magnetosphere-ionosphere interactions : A tutorial review*.
- Daglis, I. A., Thorne, R. M., Baumjohann, W., & Orsini, S. (1999). The terrestrial ring current: Origin, formation, and decay. *Reviews of Geophysics*, 37(4), 407-438.
- Dessler, A. J., & Parker, E. N. (1959). Hydromagnetic theory of geomagnetic storms. *Journal of Geophysical Research*, 64(12), 2239-2252.
- Dessler, A. J. (1970). 1. Swedish Iconoclast Recognized after Many Years of Rejection and Obscurity. *Science*, 170(3958), 604-606.
- Dessler, A. J. (1984). The evolution of arguments regarding the existence of field-aligned currents. *Magnetospheric Currents*, 28, 22-28.
- Dungey, J. W. (1961). Interplanetary magnetic field and the auroral zones. *Physical Review Letters*, 6(2), 47.
- Erickson, G. M., and R. A. Wolf. "Is steady convection possible in the Earth's magnetotail?" *Geophysical Research Letters* 7, no. 11 (1980): 897-900.
- Ganushkina, N. Y., Liemohn, M. W., & Dubyagin, S. (2018). Current systems in the Earth's magnetosphere. *Reviews of Geophysics*, 56(2), 309-332.
- Graham, G. (1724). IV. An account of observations made of the variation of the horizontal needle at London, in the latter part of the year 1772, and beginning of 1723. *Philosophical Transactions of the Royal Society of London*, 33(383), 96-107.

Gonzalez, W. D., Jo-Ann Joselyn, Yohsuke Kamide, Herb W. Kroehl, G. Rostoker, B. T. Tsurutani, and V. M. Vasylunas. "What is a geomagnetic storm?." *Journal of Geophysical Research: Space Physics* 99, no. A4 (1994): 5771-5792.

Iijima, T., & Potemra, T. A. (1976). Field-aligned currents in the dayside cusp observed by Triad. *Journal of Geophysical Research*, 81(34), 5971-5979.

Liemohn, M. W., J. U. Kozyra, V. K. Jordanova, G. V. Khazanov, M. F. Thomsen, and T. E. Cayton. "Analysis of early phase ring current recovery mechanisms during geomagnetic storms." *Geophysical research letters* 26, no. 18 (1999): 2845-2848.

Lopez, R. E., and T. von Rosenvinge (1993), A statistical relationship between the geosynchronous magnetic field and substorm electrojet magnitude, *J. Geophys. Res.*, 98, 3851-3857.

Lopez, R. E., J. G. Lyon, E. Mitchell, R. Bruntz, V. G. Merkin, S. Brogl, F. Toffoletto, and M. Wiltberger (2009), Why doesn't the ring current injection rate saturate?, *J. Geophys. Res.*, 114, A02204, doi:10.1029/2008JA013141.

Lopez, R. E., R. Bruntz, E. J. Mitchell, M. Wiltberger, J. G. Lyon, and V. G. Merkin (2010), The role of magnetosheath force balance in regulating the dayside reconnection potential, *J. Geophys. Res.*, 115, A12216, doi:10.1029/2009JA014597.

Lopez, R. E., V. G. Merkin, and J. G. Lyon (2011), The role of the bow shock in solar wind- magnetosphere coupling, *Ann. Geophys.*, 29, 1129–1135, doi:10.5194/angeo-29-1129-2011.

Lopez, R. E., & Gonzalez, W. D. (2017). Magnetospheric balance of solar wind dynamic pressure. *Geophysical Research Letters*, 44(7), 2991-2999.

Lopez, R. E. (2018), The Bow Shock Current System, in *Electric Currents in Geospace and Beyond* (eds A. Keiling, O. Marghitu, and M. Wheatland), John Wiley & Sons, Inc., Hoboken, N.J., 10.1002/9781119324522.ch28.

McPherron, R. L., Russell, C. T., & Aubry, M. P. (1973). Satellite studies of magnetospheric substorms on August 15, 1968: 9. Phenomenological model for substorms. *Journal of Geophysical Research*, 78(16), 3131-3149.

Russell, C. T., J. G. Luhmann, and G. Lu (2001), Nonlinear response of the polar ionosphere to large values of the interplanetary electric field, *J. Geophys. Res.*, 106, 18,495–18,504, doi:10.1029/2001JA900053.

Schlegel, K. (2006). Space weather and Alexander von Humboldt's *Kosmos*. *Space Weather*, 4(1).

Sckopke, N. (1966). A general relation between the energy of trapped particles and the disturbance field near the Earth. *Journal of Geophysical Research*, 71(13), 3125-3130.

Shiokawa, K., Baumjohann, W., Haerendel, G., Paschmann, G., Fennell, J. F., Friis-Christensen, E., ... & Takahashi, K. (1998). High-speed ion flow, substorm current wedge, and multiple Pi 2 pulsations. *Journal of Geophysical Research: Space Physics*, 103(A3), 4491-4507.

Siebert, K. D., and G. L. Siscoe (2002), Dynamo circuits for magneto- pause reconnection, *J. Geophys. Res.*, 107(A7), 1095, doi:10.1029/ 2001JA000237.

Siscoe, G. L., Crooker, N. U., & Siebert, K. D. (2002). Transpolar potential saturation: Roles of region 1 current system and solar wind ram pressure. *Journal of Geophysical Research: Space Physics*, 107(A10), SMP-21.

Vasyliunas, V. M. (2005, January). Time evolution of electric fields and currents and the generalized Ohm's law. In *Annales Geophysicae* (Vol. 23, No. 4, p. 1347). SPRINGER VERLAG KG.