## **Phil Richards**

List of Publications by Year in descending order

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| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Weak Magnetic Storms Can Modulate Ionosphereâ€Plasmasphere Interaction Significantly: Mechanisms<br>and Manifestations at Midâ€Latitudes. Journal of Geophysical Research: Space Physics, 2019, 124,<br>9665-9675.   | 2.4 | 13        |
| 2  | Investigation of the Electron Density Variation During the 21 August 2017 Solar Eclipse. Geophysical<br>Research Letters, 2018, 45, 1253-1261.   | 4.0 | 29        |
| 3  | Investigation of the Causes of the Longitudinal and Solar Cycle Variation of the Electron Density in the Bering Sea and Weddell Sea Anomalies. Journal of Geophysical Research: Space Physics, 2018, 123, 7825-7842.   | 2.4 | 9         |
| 4  | Coincident Observations by the Kharkiv IS Radar and Ionosonde, DMSP and Arase (ERG) Satellites, and<br>FLIP Model Simulations: Implications for the NRLMSISEâ€00 Hydrogen Density, Plasmasphere, and<br>Ionosphere. Geophysical Research Letters, 2018, 45, 8062-8071.                             | 4.0 | 17        |
| 5  | Investigation of the causes of the longitudinal variation of the electron density in the Weddell Sea<br>Anomaly. Journal of Geophysical Research: Space Physics, 2017, 122, 6562-6583.   | 2.4 | 23        |
| 6  | Ionospheric total electron content: Spatial patterns of variability. Journal of Geophysical Research:<br>Space Physics, 2016, 121, 10,367.   | 2.4 | 29        |
| 7  | The importance of neutral hydrogen for the maintenance of the midlatitude winter nighttime<br>ionosphere: Evidence from IS observations at Kharkiv, Ukraine, and field line interhemispheric plasma<br>model simulations. Journal of Geophysical Research: Space Physics, 2016, 121, 7013-7025.    | 2.4 | 14        |
| 8  | The collapse of the midnight ionosphere and behavior of meridional neutral winds at Townsville over<br>a full solar cycle. Journal of Geophysical Research: Space Physics, 2015, 120, 9826-9838.   | 2.4 | 4         |
| 9  | Investigation of sudden electron density depletions observed in the dusk sector by the Poker Flat,<br>Alaska incoherent scatter radar in summer. Journal of Geophysical Research: Space Physics, 2014, 119,<br>10,608.   | 2.4 | 7         |
| 10 | How does solar eclipse influence the complex behavior of midlatitude ionosphere? Two case studies.<br>Journal of Geophysical Research: Space Physics, 2014, 119, 1157-1171.  | 2.4 | 4         |
| 11 | The International Reference Ionosphere 2012 – a model of international collaboration. Journal of Space Weather and Space Climate, 2014, 4, A07.  | 3.3 | 503       |
| 12 | Reevaluation of thermosphere heating by auroral electrons. Advances in Space Research, 2013, 51, 610-619.  | 2.6 | 10        |
| 13 | O+, H+, and He+Densities from the 200-1600 km Altitude Ionosphere at Arecibo: A Comparison of Theory and Measurement. Geophysical Monograph Series, 2013, , 167-171.   | 0.1 | 1         |
| 14 | Energy Characterization of a Dynamic Auroral Event Using GGS UVI Images. Geophysical Monograph<br>Series, 2013, , 143-147.   | 0.1 | 8         |
| 15 | Re-evaluation of thermosphere heating by solar EUV and UV radiation <sup>1</sup> This article is part<br>of a Special issue that honours the work of Dr. Donald M. Hunten FRSC who passed away in December<br>2010 after a very illustrious career Canadian Journal of Physics, 2012, 90, 759-767. | 1.1 | 4         |
| 16 | Dawnward shift of the dayside O <sup>+</sup> outflow distribution: The importance of field line<br>history in O <sup>+</sup> escape from the ionosphere. Journal of Geophysical Research, 2012, 117, .   | 3.3 | 12        |
| 17 | Solar EUV and XUV energy input to thermosphere on solar rotation time scales derived from photoelectron observations. Journal of Geophysical Research, 2012, 117, .  | 3.3 | 24        |
| 18 | Solar flux variation of the electron temperature morning overshoot in the equatorial <i>F</i> region.<br>Journal of Geophysical Research, 2011, 116, n/a-n/a.  | 3.3 | 25        |

Phil Richards

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| 19 | Reexamination of ionospheric photochemistry. Journal of Geophysical Research, 2011, 116, n/a-n/a.   | 3.3 | 58        |
| 20 | Ion density calculator (IDC): A new efficient model of ionospheric ion densities. Radio Science, 2010,<br>45, n/a-n/a.  | 1.6 | 33        |
| 21 | On the consistency of satellite measurements of thermospheric composition and solar EUV irradiance with Australian ionosonde electron density data. Journal of Geophysical Research, 2010, 115, .     | 3.3 | 30        |
| 22 | Photoelectrons as a tool to evaluate spectral variations in solar EUV irradiance over solar cycle timescales. Journal of Geophysical Research, 2009, 114, .   | 3.3 | 18        |
| 23 | Measured and modeled ionospheric densities, temperatures, and winds during the international polar year. Journal of Geophysical Research, 2009, 114, .  | 3.3 | 25        |
| 24 | Temporal and spectral variations of the photoelectron flux and solar irradiance during an X class solar flare. Geophysical Research Letters, 2008, 35, .  | 4.0 | 6         |
| 25 | On the increases in nitric oxide density at midlatitudes during ionospheric storms. Journal of<br>Geophysical Research, 2004, 109, .  | 3.3 | 51        |
| 26 | Simulating plasmaspheric field-aligned density profiles measured with IMAGE/RPI: Effects of plasmasphere refilling and ion heating. Journal of Geophysical Research, 2003, 108, SMP 12-1.             | 3.3 | 30        |
| 27 | Ion and neutral density variations during ionospheric storms in September 1974: Comparison of measurement and models. Journal of Geophysical Research, 2002, 107, SIA 8-1.                            | 3.3 | 43        |
| 28 | An investigation of ionospheric responses, and disturbance thermospheric winds, during magnetic storms over South American sector. Journal of Geophysical Research, 2002, 107, SIA 12-1.              | 3.3 | 27        |
| 29 | Seasonal and solar cycle variations of the ionospheric peak electron density: Comparison of measurement and models. Journal of Geophysical Research, 2001, 106, 12803-12819.                          | 3.3 | 142       |
| 30 | On the relative importance of convection and temperature to the behavior of the ionosphere in North<br>America during January 6-12, 1997. Journal of Geophysical Research, 2000, 105, 12763-12776.    | 3.3 | 49        |
| 31 | Behavior of the ionosphere and thermosphere at a southern midlatitude station during magnetic storms in early March 1995. Journal of Geophysical Research, 1998, 103, 26421-26432.                    | 3.3 | 30        |
| 32 | Analysis of auroral morphology: Substorm precursor and onset on January 10, 1997. Geophysical<br>Research Letters, 1998, 25, 3043-3046.   | 4.0 | 30        |
| 33 | The ionosphere and thermosphere at southern midlatitudes during the November 1993 ionospheric storm: A comparison of measurement and modeling. Journal of Geophysical Research, 1998, 103, 9373-9389. | 3.3 | 36        |
| 34 | Thermospheric neutral winds at southern mid-latitudes: A comparison of optical and ionosondehmF2methods. Journal of Geophysical Research, 1997, 102, 27189-27196.                                     | 3.3 | 46        |
| 35 | Remote determination of auroral energy characteristics during substorm activity. Geophysical Research Letters, 1997, 24, 995-998.   | 4.0 | 108       |
| 36 | Comparison of techniques for derivation of neutral meridional winds from ionospheric data. Journal of Geophysical Research, 1997, 102, 14477-14484.   | 3.3 | 34        |

Phil Richards

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|----|---|-----|-----------|
| 37 | EUVAC: A solar EUV Flux Model for aeronomic calculations. Journal of Geophysical Research, 1994, 99, 8981.  | 3.3 | 779       |
| 38 | Mesospheric nightglow spectral survey taken by the ISO Spectral Spatial Imager on ATLAS 1.<br>Geophysical Research Letters, 1993, 20, 515-518.  | 4.0 | 10        |
| 39 | Reevaluation of the O <sup>+</sup> (²P) reaction rate coefficients derived from Atmosphere Explorer<br>C observations. Journal of Geophysical Research, 1993, 98, 15589-15597.                    | 3.3 | 35        |
| 40 | An improved algorithm for determining neutral winds from the height of the <i>F</i> <sub>2</sub><br>peak electron density. Journal of Geophysical Research, 1991, 96, 17839-17846.                | 3.3 | 107       |
| 41 | A midlatitude interhemispheric model of the O <sup>+</sup> ( <sup>2</sup> P) airglow emission at 7320<br>à Geophysical Research Letters, 1990, 17, 65-68.   | 4.0 | 7         |
| 42 | Auroral modeling of the 3371 Ã emission rate: Dependence on characteristic electron energy. Journal of Geophysical Research, 1990, 95, 10337-10344.   | 3.3 | 43        |
| 43 | Mid―and Iowâ€ŀatitude model of thermospheric emissions: 1. O <sup>+</sup> (² <i>P</i> ) 7320 à and<br>N <sub>2</sub> (2 <i>P</i> ) 3371 Ã Journal of Geophysical Research, 1990, 95, 21147-21168. | 3.3 | 96        |
| 44 | Thermal electron quenching of N(2D): Consequences for the ionospheric photoelectron flux and the thermal electron temperature. Planetary and Space Science, 1986, 34, 689-694.                    | 1.7 | 25        |
| 45 | Seasonal, diurnal, and solar cyclical variations of the limiting H <sup>+</sup> flux in the Earth's topside ionosphere. Journal of Geophysical Research, 1985, 90, 5261-5268.                     | 3.3 | 93        |
| 46 | Results of a comprehensive study of the photochemistry of N <sub>2</sub> <sup>+</sup> in the ionosphere. Journal of Geophysical Research, 1984, 89, 9069-9079.                                    | 3.3 | 47        |
| 47 | A Simple theoretical model for calculating and parameterizing the ionospheric photoelectron flux.<br>Journal of Geophysical Research, 1983, 88, 2155-2162.  | 3.3 | 34        |
| 48 | Solar EUV energy budget of the thermosphere. Advances in Space Research, 1981, 1, 53-61.  | 2.6 | 11        |
| 49 | Preliminary Results from the Imaging Spectrometric Observatory Flown on ATLAS 1. Geophysical Monograph Series, 0, , 305-322.  | 0.1 | 1         |