

## オメガバンドオーロラの統計的特性

Statistical feature of Omega band aurora observed by THEMIS all-sky imager network

\*佐藤 夏雄<sup>1,2</sup>、門倉 昭<sup>1,2</sup>、田中 良昌<sup>1,2</sup>、堀 智昭<sup>3</sup>、行松 彰<sup>1,3</sup>

\*Natsuo Sato<sup>1,2</sup>, Akira Kadokura<sup>1,2</sup>, Yoshimasa Tanaka<sup>1,2</sup>, Tomoaki Hori<sup>3</sup>, Akira Sessai Yukimatu<sup>1,3</sup>

1.国立極地研究所、2.総研大、3.名古屋大学宇宙地球環境研究所

1.National Institute of Polar Research, 2.SOKENDAI, 3.Institute for Space-Earth Environment Research, Nagoya University

We examine morphological and statistical characteristics of Omega band auroras. In order to study statistical feature of Omega band aurora we used the THEMIS ground-based all-sky imager network data for 8 years from January 2007 to December 2014. Omega band auroras show their own distinctive behavior on shape and movement, so we could easily pick up an Omega band auroral event from the THEMIS summary plot database on keogram and all-sky image. Consequently, we could identify ~330 events of Omega band type auroras.

In this study we examine statistical features for the following parameters when Omega aurora observed; 1) magnetic local time (MLT), 2) seasonal variations, 3) annual variations, 4) life time, 5) drift speed, 6) scale size, 7) Kp and AE index dependence, 8) solar wind speed and pressure, 9) IMF By and Bz dependence. Then we will discuss their signature.

キーワード：オーロラ、オメガバンドオーロラ、磁気圏、電離圏、磁気圏-電離圏結合、極域

Keywords: aurora, omega band aurora, magnetosphere, ionosphere, magnetosphere-ionosphere coupling, polar region