Electrostatic bipolar pulses (electron holes) and bursty, ~1 msec whistler mode packets are detected by POLAR along auroral zone field lines. The waves are present at all local times (both dayside and nightside) and near POLAR apogee (~9 Re) as well as near perigee (~2 Re). The generation region for the waves, and the responsible particles will be discussed. The interplanetary control will be established using WIND data.

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