

# Ionosphere Mitigation for GPS-Based Aircraft Landing

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This page tracks progress in defining filtering strategies that either (1) reduce the errors induced by ionosphere storms on single-frequency GPS filtering or (2) alert pilots of an anomalous event and exclude affected satellites.

Fall 2007: Our initial efforts involved the derivation of an optimized linear filter that results in the lowest possible transient error in response to an ionosphere ramp. [This paper is available online.](#)