**Air France 447: Crash, Investigation, and Subsequent Precautions**

In 2009, Air France 447 departed from Rio de Janeiro with the intention of landing in Paris. However, due to circumstances stemming from the flight’s course through highly inclement weather conditions. Approximately two and a half hours after departure, the flight entered what is known as an intertropical convergence zone. Such conditions are not uncommon in the region for plane’s to encounter, but care must be taken in order to maintain a safe flight. At the time when the incident first began to occur, the plane was cruising at high altitude with the help of its autopilot system. This system