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## **The Role of Models In An Integrated Global Atmospheric Chemistry Observations Systems: GEMS Highlights**

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Atmospheric models are a critical component of an Integrated Global Atmospheric Chemistry Observations (IGACO) system that serves the needs of society related to climate change, reducing risk of severe weather and air quality events, stratospheric ozone depletion, and the long range transport of air pollution. This overview talk charts the progress made since the IGACO report in 2004 and highlights progress in including atmospheric aerosols, greenhouse gases and ozone in climate and numerical weather prediction models using the European GEMS project initiated under the leadership of Tony Hollingsworth as a shining example.