

First Meeting of ICG

Presentation by

Dr. S.V. Kibe

Programme Director, SATNAV

ISRO Headquarters

Bangalore, India

UN OOSA

December 1-2, 2005

Vienna, Austria

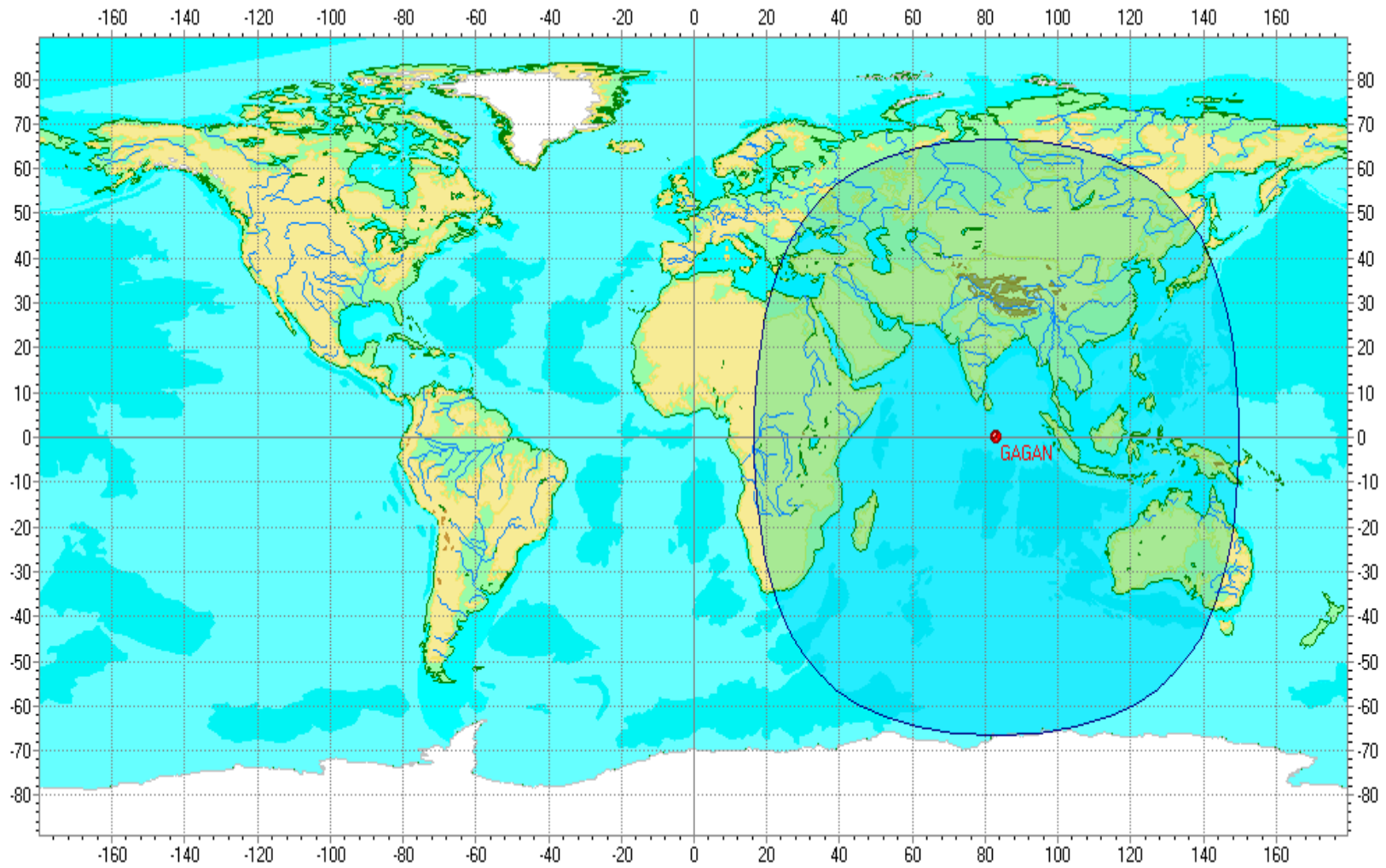
INDIAN SATNAV PROGRAMME

GAGAN STATUS

INDIAN SPACE BASED AUGMENTATION SYSTEM :

- THE INDIAN SPACE RESEARCH ORGANISATION (ISRO)/DEPARTMENT OF SPACE (DOS) IS THE NODAL AGENCY FOR ALL THE WORK RELATED TO SATELLITE NAVIGATION UNDER THE GOVERNMENT OF INDIA.
- ISRO AND AAI ARE IMPLEMENTING INDIAN SBAS GAGAN
- THE GROUND BASED ELEMENTS CONSISTING OF 8 REFERENCE STATIONS, 1 MASTER CONTROL CENTRE AND 1 UPLINK STATION WILL BE COMMISSIONED BY JUNE 2006. WORK ON DEFINITION OF THE FINAL OPERATIONAL PHASE HAS BEGUN.
- 2 NAVIGATION PAYLOADS COMPATIBLE WITH GPS L1 AND L5 EXPECTED IN END 2006 AND END 2007 AT 82 DEG.E AND 55 DEG.E LONGITUDE RESPECTIVELY.

COVERAGE FROM 82 Deg.E



FRAMEWORK AGREEMENTS

- **INDIA HAS SIGNED A FRAMEWORK AGREEMENT WITH RUSSIA ON DECEMBER 3, 2004 IN NEW DELHI ON COOPERATION IN THE RUSSIAN GLONASS SYSTEMS.**
- **INDIA HAS SIGNED A FRAMEWORK AGREEMENT ON GALILEO WITH EU MEMBER STATES ON SEPTEMBER 7, 2005 DURING THE EU – INDIA SUMMIT.**
- **FURTHER WORK ON THESE AGREEMENTS IS BEING PURSUED.**

INDIAN REGIONAL NAVIGATION SATELLITE SYSTEM (IRNSS)

- **INDIA HAS FILED FOR 24 MHz OF SPECTRUM IN L5 BAND FOR IRNSS. IRNSS CONSISTS OF SEVEN SATELLITES – 3 in GSO and 4 in INCLINED GSO ORBITS.**
- **THE SECOND SIGNAL FOR IRNSS IS PLANNED TO BE IN S-BAND IN THE 2483.5 – 2500 MHz BAND.**
- **THE IRNSS SYSTEM PROPOSAL IS IN THE FINAL STAGES OF GOVERNMENT APPROVAL.**
- **THE INDIAN SPACE RESEARCH ORGANISATION / DEPARTMENT OF SPACE OF THE GOVERNMENT OF INDIA IS THE NODAL AGENCY FOR ALL MATTERS RELATED TO SATELLITE NAVIGATION.**

INDIAN EXPECTATIONS FROM ICG

- **INDIA SUPPORTS THE FORMATION OF ICG.**
- **INDIA EXPECTS TO BENEFIT FROM THE VAST AMOUNT OF EXPERTISE AVAILABLE THROUGH THE ICG.**
- **INDIA IS WILLING TO DEVELOP A COURSE WORK IN GNSS THROUGH THE CSSTE – AP ALREADY ESTABLISHED AS A UN CENTRE IN INDIA.**