

**GOVERNMENT OF INDIA
SPACE
LOK SABHA**

STARRED QUESTION NO:466
ANSWERED ON:28.04.2010
STUDY ON CLIMATE CHANGE
Gaikwad Shri Eknath Mahadeo;Yaskhi Shri Madhu Goud

Will the Minister of SPACE be pleased to state:

- (a) whether the Indian Space Research Organisation (ISRO) has conducted a study on the impact of Global Climate change;
- (b) if so, the outcome thereof; and
- (c) the suggestions given by ISRO in this regard?

Answer

MINISTER OF THE STATE IN THE MINISTRY OF PRIME MINISTER'S OFFICE, MINISTRY OF THE STATE IN THE MINISTRY OF PERSONNEL, PUBLIC GRIEVANCES & PENSIONS, MINISTRY OF PARLIAMENTARY AFFAIRS, MINISTRY OF SCIENCE & TECHNOLOGY AND MINISTRY OF EARTH SCIENCES (SHRI PRITHVIRAJ CHAVAN)

(a), (b) & (c) A statement is laid on the Table of the House.

STATEMENT LAID ON THE TABLE OF THE LOK SABHA IN REPLY TO (a) TO (c) OF STARRED QUESTION NO. 466 REGARDING 'STUDY ON CLIMATE CHANGE' ASKED BY SHRI MADHU GOUD YASKHI AND SHRI EKNATH M GAIKWAD FOR ANSWER ON WEDNESDAY, APRIL 28, 2010.

(a) Yes, Sir.

(b) ISRO has been carrying out satellite based and ground based observations over Indian region on certain variables pertaining to climate change. These include variations in concentration of carbon dioxide and aerosol in the atmosphere, and Himalayan glaciers.

The analysis of data over the past 10 years has shown increasing trend of aerosol and carbon dioxide concentration in atmosphere, and decreasing trend in concentration of black carbon.

The study of certain selected glaciers, using satellite data of 1989 to 2007, in 10 Himalayan basins has shown that the mean loss in their aerial extent is around 5.1%.

(c) ISRO has proposed to mount focused efforts, in a coordinated way, to study the impact of climate change by developing newer satellite sensors, acquisition and archival of satellite and ground based data and their analysis and modeling.