

**GOVERNMENT OF INDIA
MINISTRY OF EARTH SCIENCES
LOK SABHA
UNSTARRED QUESTION No. 983
TO BE ANSWERED ON WEDNESDAY, March 02, 2016**

Climate Change

983 DR. SWAMI SAKSHIJI MAHARAJ:

Will the Minister of EARTH SCIENCES be pleased to state:

- (a) whether the Government proposes to use remote earth sensing to prepare a database for assessing the climate change and if so, the details thereof;**
- (b) whether the Government has conducted any study for analysing the impact of such database to address and check the problem of global warming in Indian region; and**
- (c) if so, the details in this regard, State-wise including that of Uttar Pradesh?**

ANSWER

**MINISTER OF STATE FOR MINISTRY OF SCIENCE AND TECHNOLOGY AND
MINISTRY OF EARTH SCIENCES
(Shri Y. S. Chowdary)**

- (a) Yes Madam. Indian Space Research Organisation (ISRO) / Department of Space has formulated a programme National Information System for climate and Environment Studis (NICES) at National Remote Sensing Centre (NRSC), Hyderabad in september 2012. The Objective of NICES programme is buildng information base on geophysical variables, derived from earth observation satllites and ground based measurements, pertaining to land ocean and atmosphere. The information is being disseminated through NICES web portal (<http://nrsc.gov.in./nices>). Some of the products that are generated under NICES programme are given in Annexure-1.**
- (b) No Madam.**
- (c) Does not arise.**

Annexure-1**Products being generated under National Information System for climate and Environment Studies (NICES) programme**

Variable	Frequency
1.Land related	
Normalized Difference Vegetation Index (1km & 4km resolution)	15 days
Vegetation Fraction (1km & 4km)	15 days
Soil Moisture (25km resolution)-derived from satellite data	2 days
Soil Depth Soil texture/Fallow Area Fraction (5km resolution)	One time
Surface Water body area and fraction (5km resolution)	15 days
Snow Cover Fraction (5km resolution)	15 days
2. Ocean Related	
Tropical cyclone Heat potential (25km resolution)	Daily
Ocean surface Currents-North Indian Ocean (25km resolution)	Daily
Ocean Heat content (25km resolution)	Daily
3. Atmosphere related	
Cloud Fraction (8km resolution)	Half Hourly
Planetary Boundary Layer Height (25km resolution)	Daily