

## *Executive Summary of flood inundation report on 06<sup>th</sup> August 2020*

National Remote Sensing Centre, Hyderabad is conducting near real time flood mapping project for Assam using Satellite data. The flood was reported in Assam during 06<sup>th</sup> August 2020 due to incessant heavy rainfall. NRSC has analyzed MODIS TERRA, satellite data of 06<sup>th</sup> August July 2020 and prepared a flood map for part of Assam. Copy of the flood layer is shared with North Eastern Space Applications Centre (NESAC) for Value added product. The flood layer is brought into a GIS environment to generate the detailed flood inundation information district wise at the village level. The administrative layers like district boundary, revenue circle, village boundary and thematic layer Land Use /Land Cover are utilized from Space based Information Support for Decentralized Planning (SIS-DP) project. On the date of data acquisition, **1,171** Villages were under flood inundation in **11** districts of Assam covering **1,07,960.75** Ha. total land out of which **24,624.17** Ha settlement areas and **43,146.36** Ha. agricultural land. Detail district wise flood inundation information can be summarized as below:

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)
1	BARPETA	Baghor RC	48	Agriculture	389.76
				Built-Up	698.53
				Other	496.64
		Barpeta RC	89	Agriculture	1446.39
				Built-Up	240.36
				Other	1784.50
		Chengar RC	2	Agriculture	3.60
				Other	6.48
		Kalgachia RC	26	Agriculture	148.55
				Other	210.82
		Nagarbera RC	1	Agriculture	5508.64
		Sarthebari RC	80	Agriculture	712.26
Built-Up	45.32				
Other	1128.84				
Sarthebari RC	2	Agriculture	5.38		
		Other	5.38		
2	BISWANATH	Biswanath RC	7	Agriculture	172.76
				Other	172.62
		Gohpur RC	6	Agriculture	973.16
				Other	984.54
		Helem RC	24	Agriculture	1147.27
				Built-Up	1554.07
Other	1301.54				
3	BONGAIGAON	Boitamari RC	12	Agriculture	560.67
				Other	256.38
		Bongaigaon RC	2	Agriculture	256.50
				Other	256.50
		Srijangram RC	48	Agriculture	328.60
				Built-Up	220.22
Other	322.26				
	CACHAR	Katigora RC	80	Agriculture	1035.91

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)
4	CACHAR	Katigora RC	80	Built-Up	110.62
				Other	1488.43
		Silchar RC	7	Agriculture	29.70
				Built-Up	5.02
				Other	31.14
5	DHUBRI	Bagibari RC	48	Agriculture	41.02
				Built-Up	86.18
				Other	56.77
		Bilasipara (PT) RC	13	Agriculture	114.44
				Built-Up	107.67
				Other	156.28
		Chapar (PT) RC	31	Agriculture	573.95
				Built-Up	485.98
				Other	311.11
		Dhubri (PT) RC	64	Agriculture	524.14
				Built-Up	636.24
				Other	962.92
6	GOALPARA	Balijana RC	9	Agriculture	79.23
				Built-Up	103.22
				Other	62.71
		Lakhipur RC	28	Agriculture	73.52
				Built-Up	89.62
				Other	46.84
		Matia RC	27	Agriculture	540.98
				Other	522.52
		Nagarbera RC	1	Other	609.80
		Rangjuli RC	14	Agriculture	467.77
				Other	507.81
7	KAMRUP METRO	Azara	3	Agriculture	259.76
				Other	348.77
		Chandrapur	12	Agriculture	2079.80
				Built-Up	2034.78
		Guwahati	4	Other	1510.74
				Built-Up	437.79
		Sonapur	19	Other	437.79
				Agriculture	739.25
Built-Up	477.12				
8	KAMRUP RURAL	Boko RC	5	Other	564.06
				Agriculture	21.50
		Chamaria RC	35	Other	19.63
				Agriculture	3847.34
				Built-Up	5508.64
		Goroimari RC	18	Other	3487.46
Agriculture	1995.13				

Sl. No.	District	RC	No. of village inundated	LULC	Inundated Area (Ha)
8	KAMRUP RURAL	Goroimari RC	18	Built-Up	3761.86
				Other	964.30
		Hajo RC	17	Agriculture	45.75
				Built-Up	55.31
				Other	49.09
		Nagarbera RC	24	Agriculture	3749.08
Built-Up	3593.31				
Other	3794.22				
9	MORIGAON	Bhuragaon	28	Agriculture	2509.46
				Other	2271.51
		Marigaon	60	Agriculture	1241.20
				Built-Up	1880.94
				Other	1537.23
		Mayong	104	Agriculture	2482.03
Built-Up	2228.60				
Other	2712.41				
10	NAGAON	Kalibor RC	8	Agriculture	932.17
				Other	638.01
		Kampur RC	50	Agriculture	3176.16
				Other	3911.22
		Nagaon RC	29	Agriculture	519.70
				Built-Up	205.53
Other	891.31				
Raha RC	61	Agriculture	3869.30		
		Built-Up	51.82		
		Other	4650.16		
11	SONITPUR	Dhekiajuli RC	8	Agriculture	305.75
				Other	273.04
		Na-Duar RC	6	Other	154.93
		Tezpur RC	11	Agriculture	238.76
				Built-Up	5.43
				Other	291.50

