

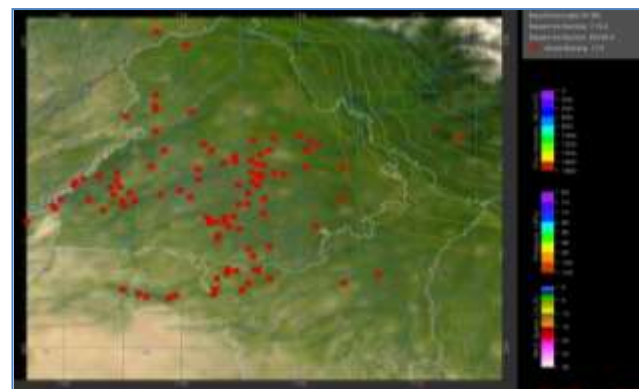


# MONITORING PADDY RESIDUE BURNING IN NORTH INDIA USING SATELLITE REMOTE SENSING DURING 2020

**Bulletin  
No. 8**

**Events Date:  
08-Oct-2020**

**Issued on:  
09-Oct-2020**



**Prepared by:**

**Consortium for Research on Agroecosystem Monitoring and Modeling from Space (CREAMS) Laboratory,  
Division of Agricultural Physics, ICAR – Indian Agricultural Research Institute, New Delhi – 110012**

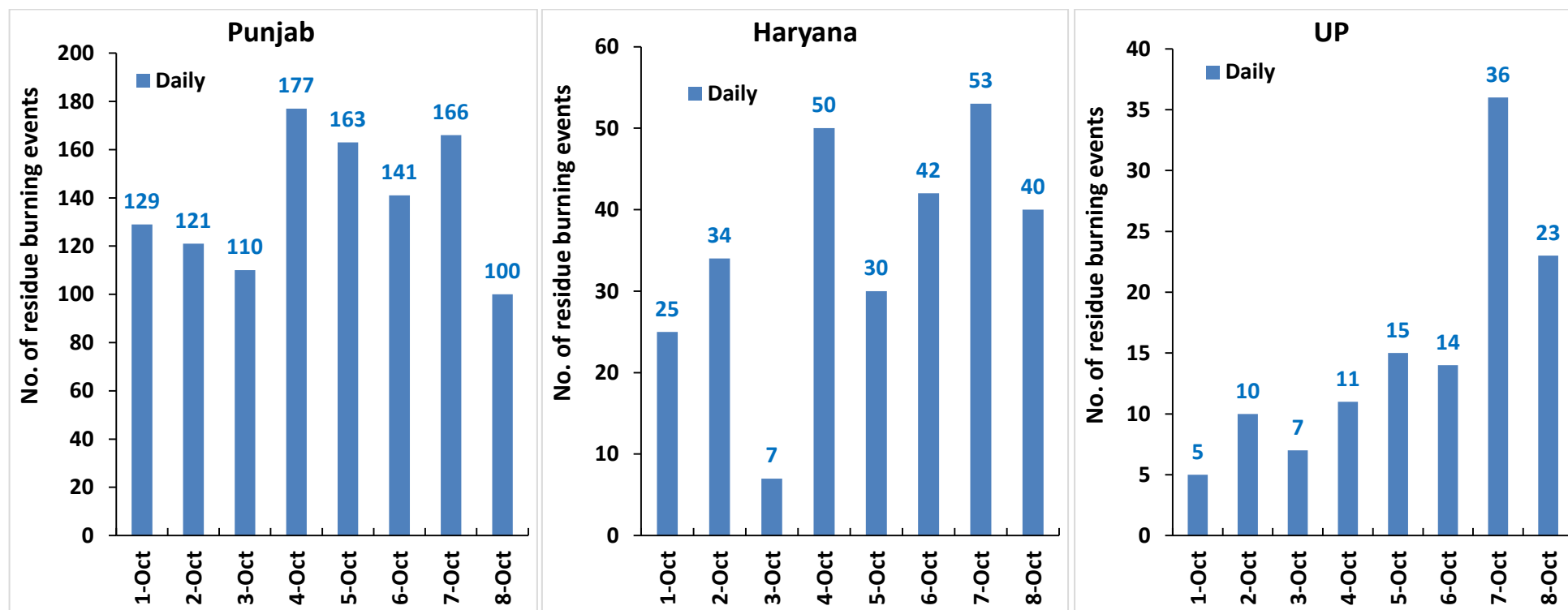
<http://creams.iari.res.in>



## Highlights for 08-October-2020

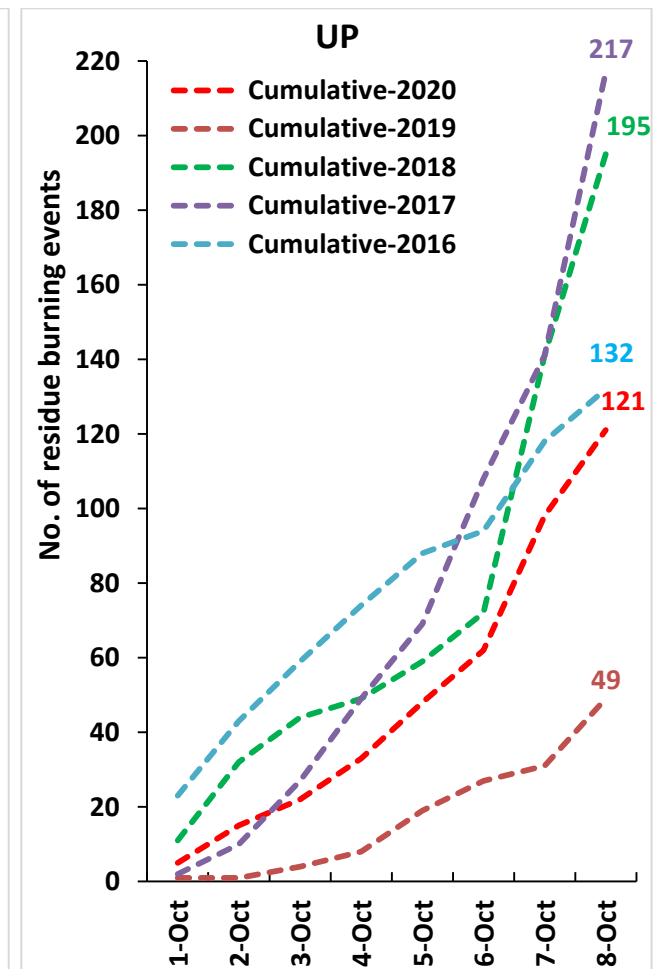
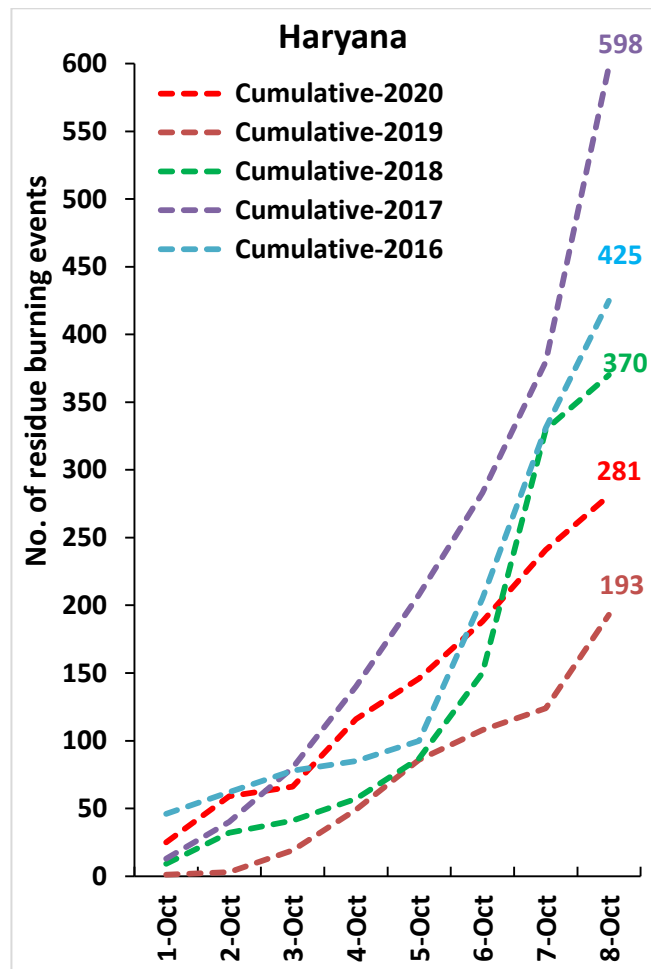
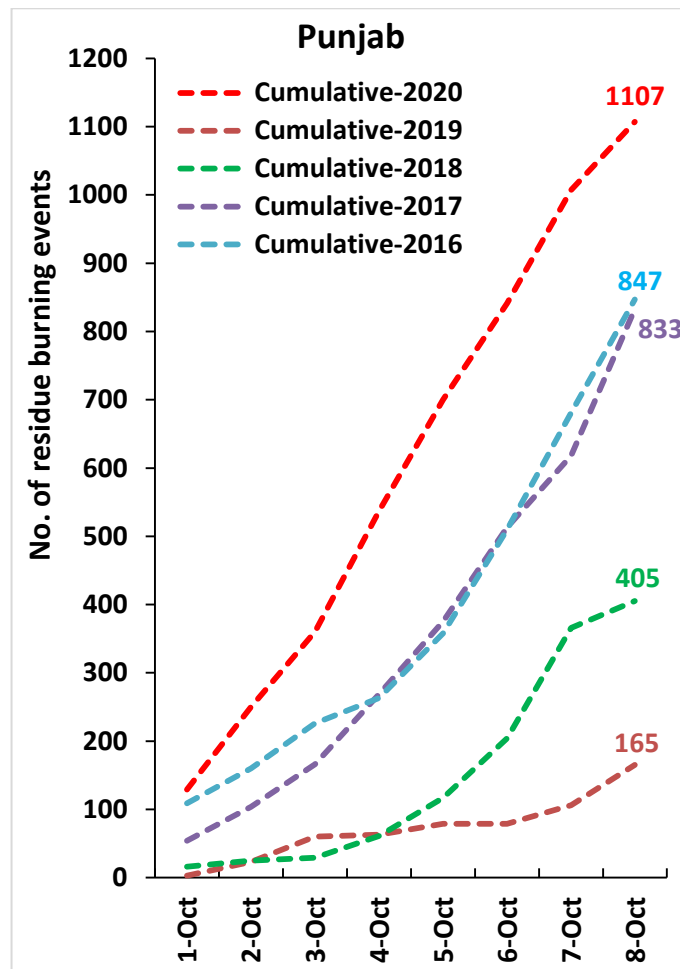
- Satellites detected **163** residue burning events in the three study States on **08-Oct-2020**.
- The state wise events detected on 08-Oct-2020 were **100** in Punjab, **40** in Haryana and **23** in UP.
- In Punjab, burning/fire events were concentrated in Amritsar, Tarn Taran and Patiala districts.
- In Haryana and Uttar Pradesh, the burning events were scattered.
- Total **1509** burning events were detected in the three States between **01-Oct-2020** and **08-Oct-2020**, which are distributed as **1107**, **281** and **121** in Punjab, Haryana and UP, respectively.
- In all the three states, the cumulative number of burning events between 1-Oct and 8-Oct 2020 were higher than in 2019.

### Temporal distribution of residue burning events for the three study States in 2020

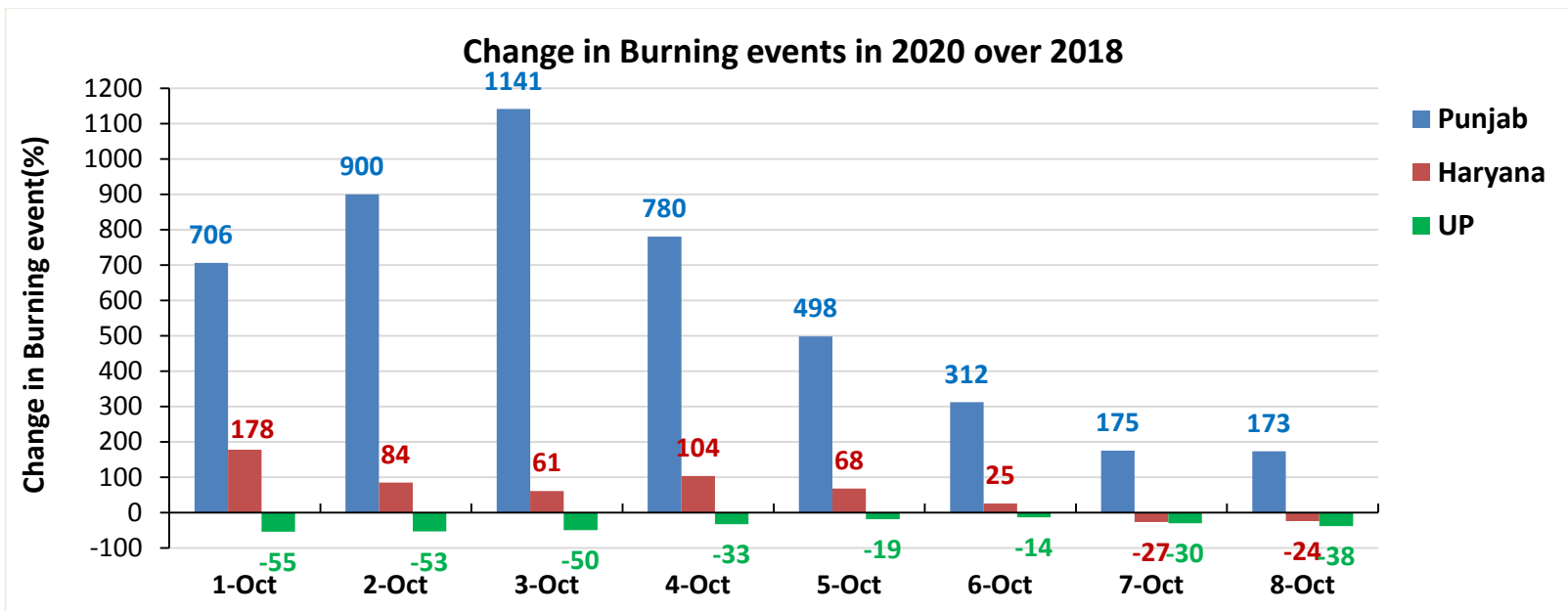
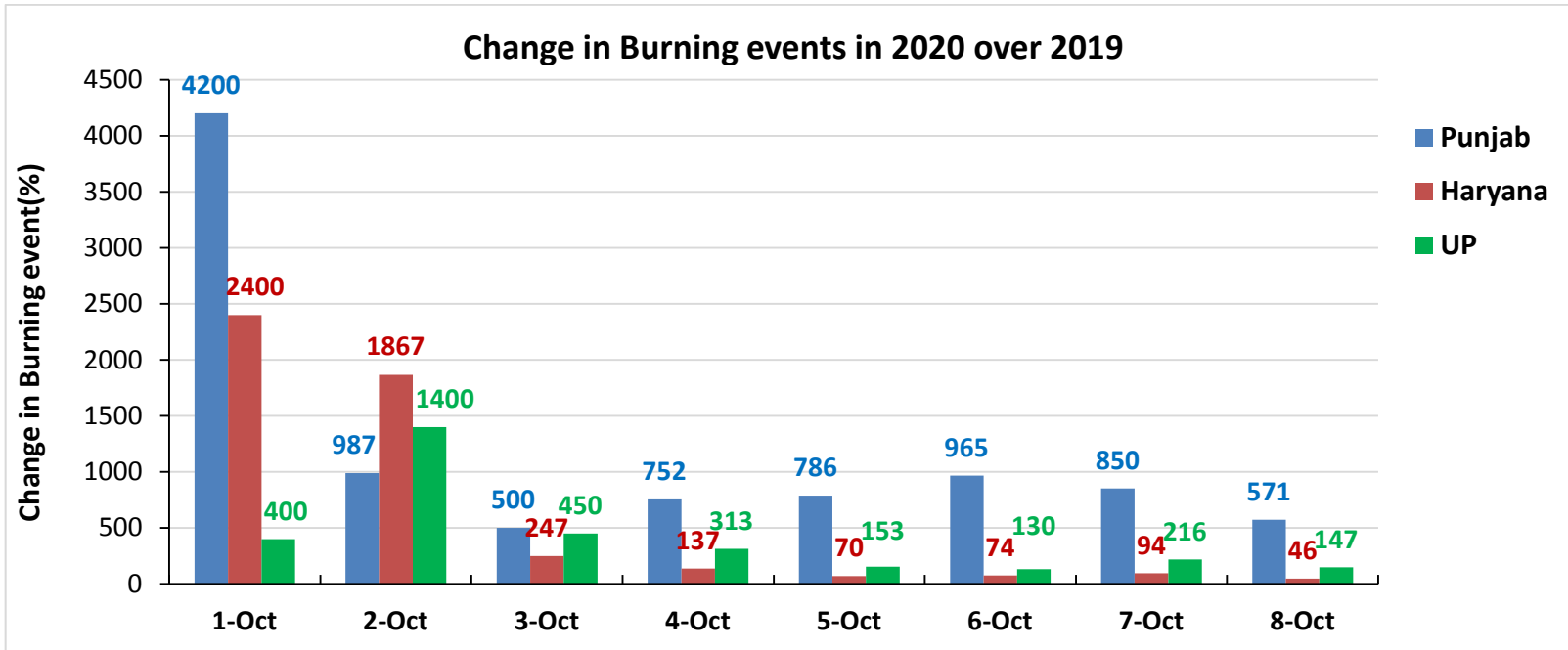


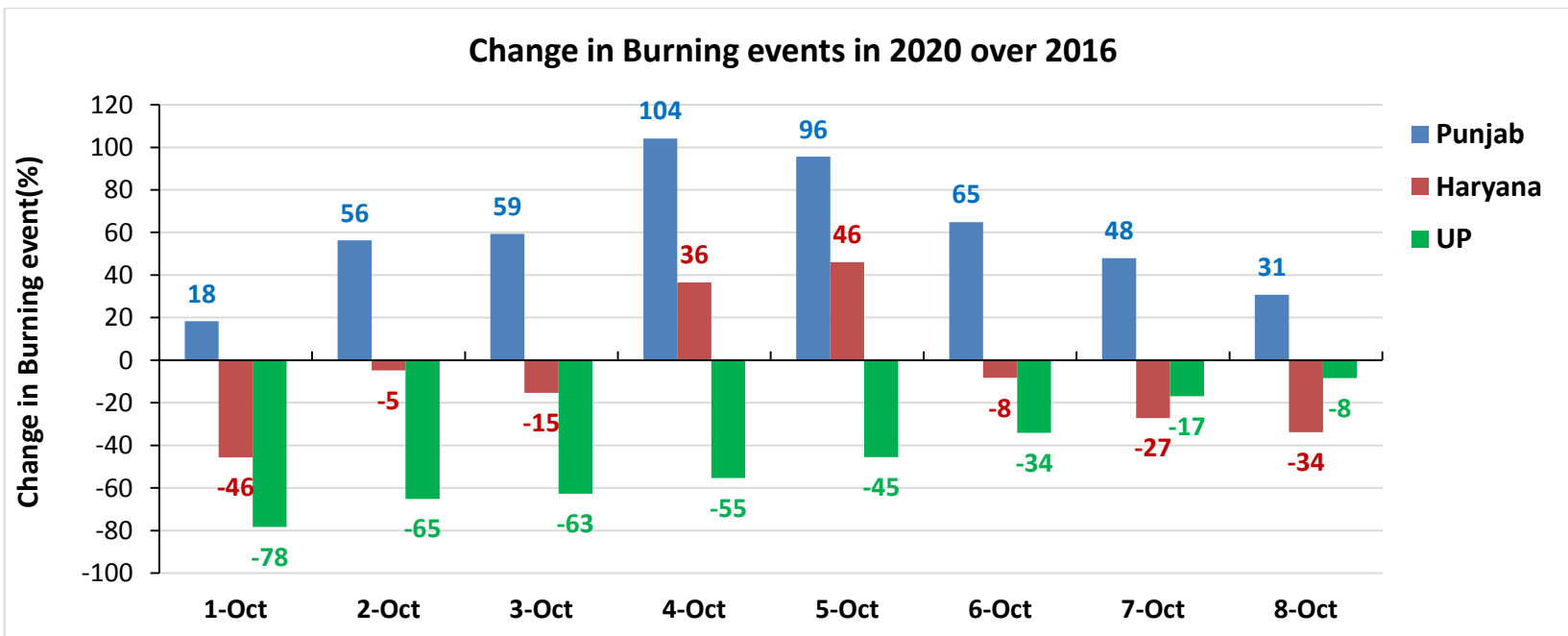
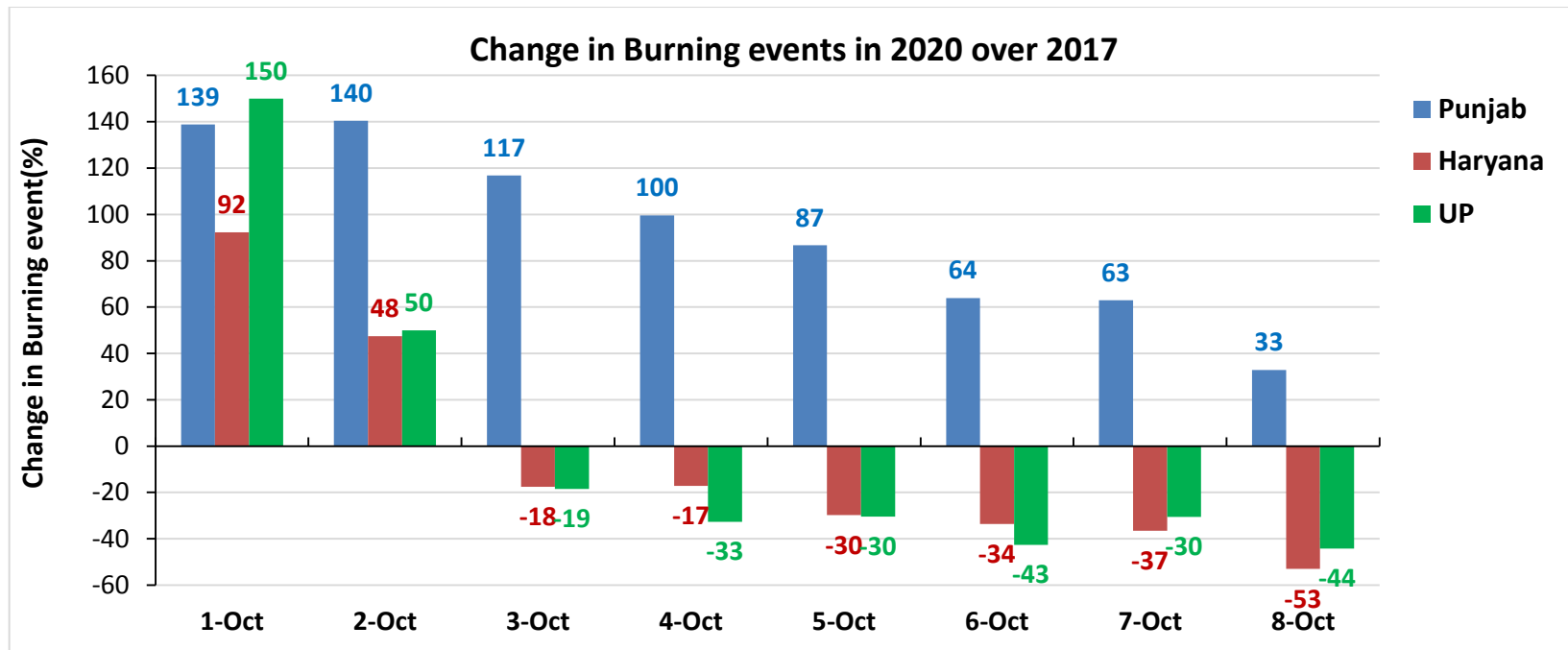
**Comparison of residue burning events in current year (2020) with previous years (2019, 2018, 2017 & 2016) for the three study States**

**(01-Oct to 08-Oct)**

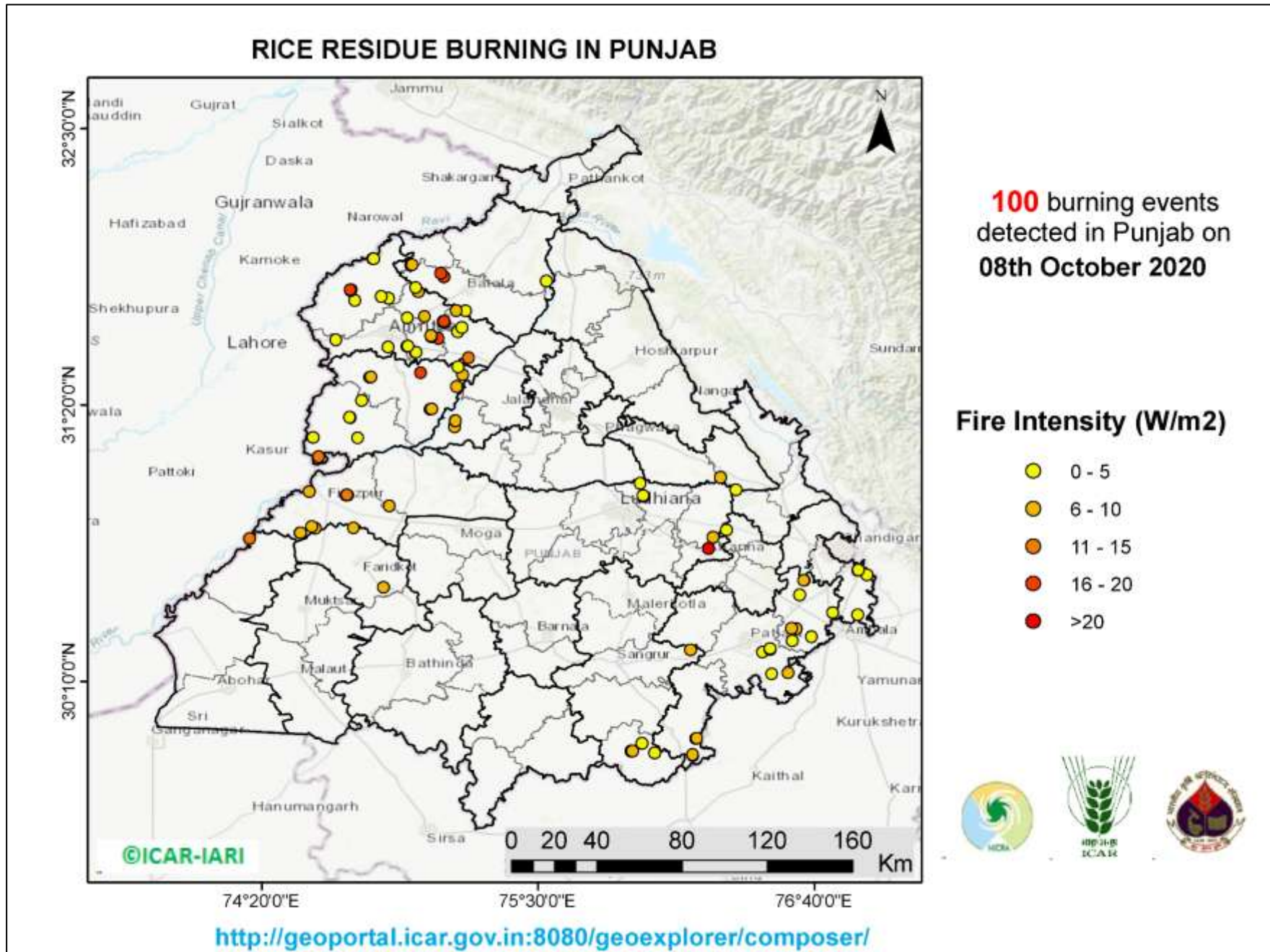


**Percent Change in Burning events in 2020 over 2019, 2018, 2017 and 2016 (Daily Cumulative)**

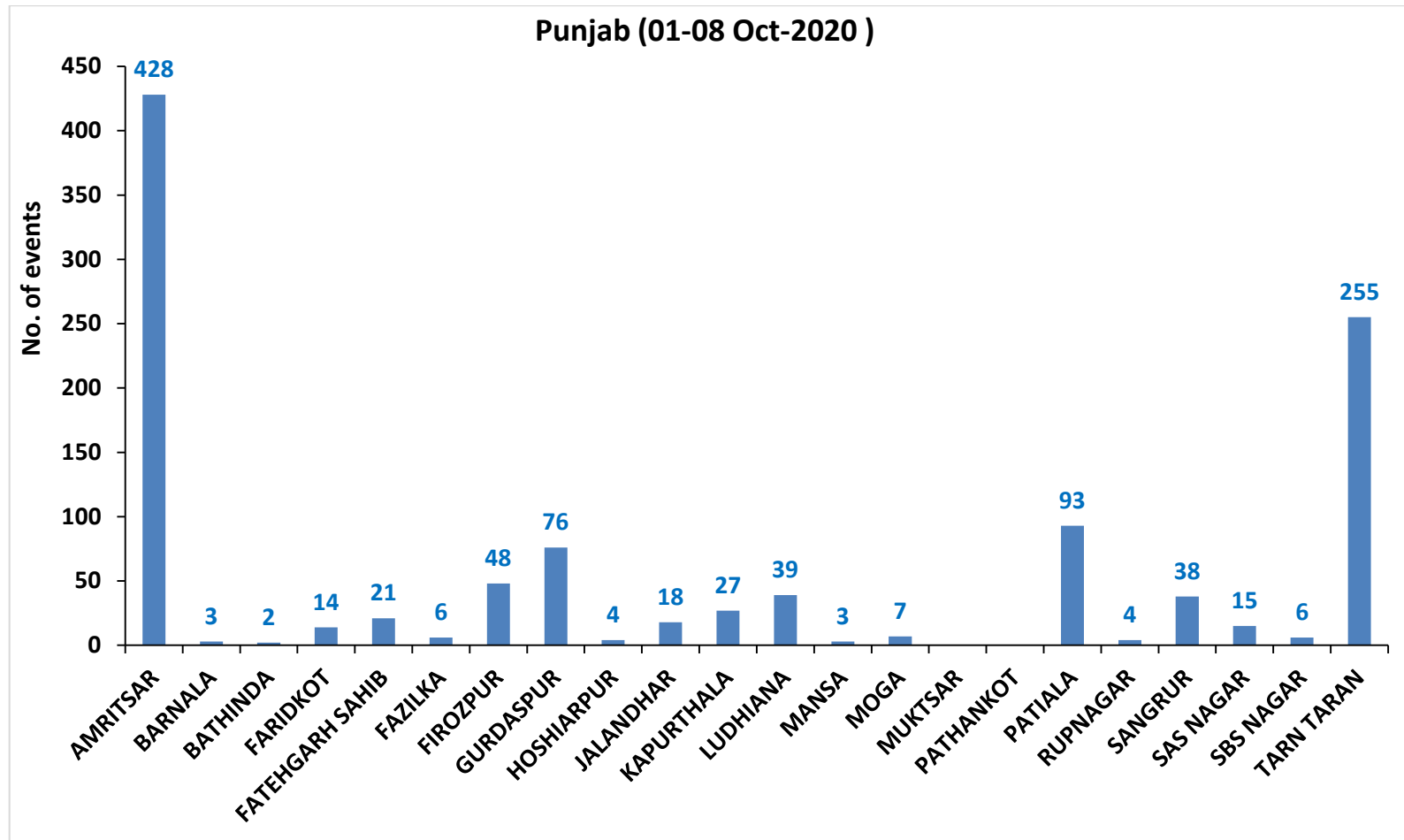




(a) Punjab

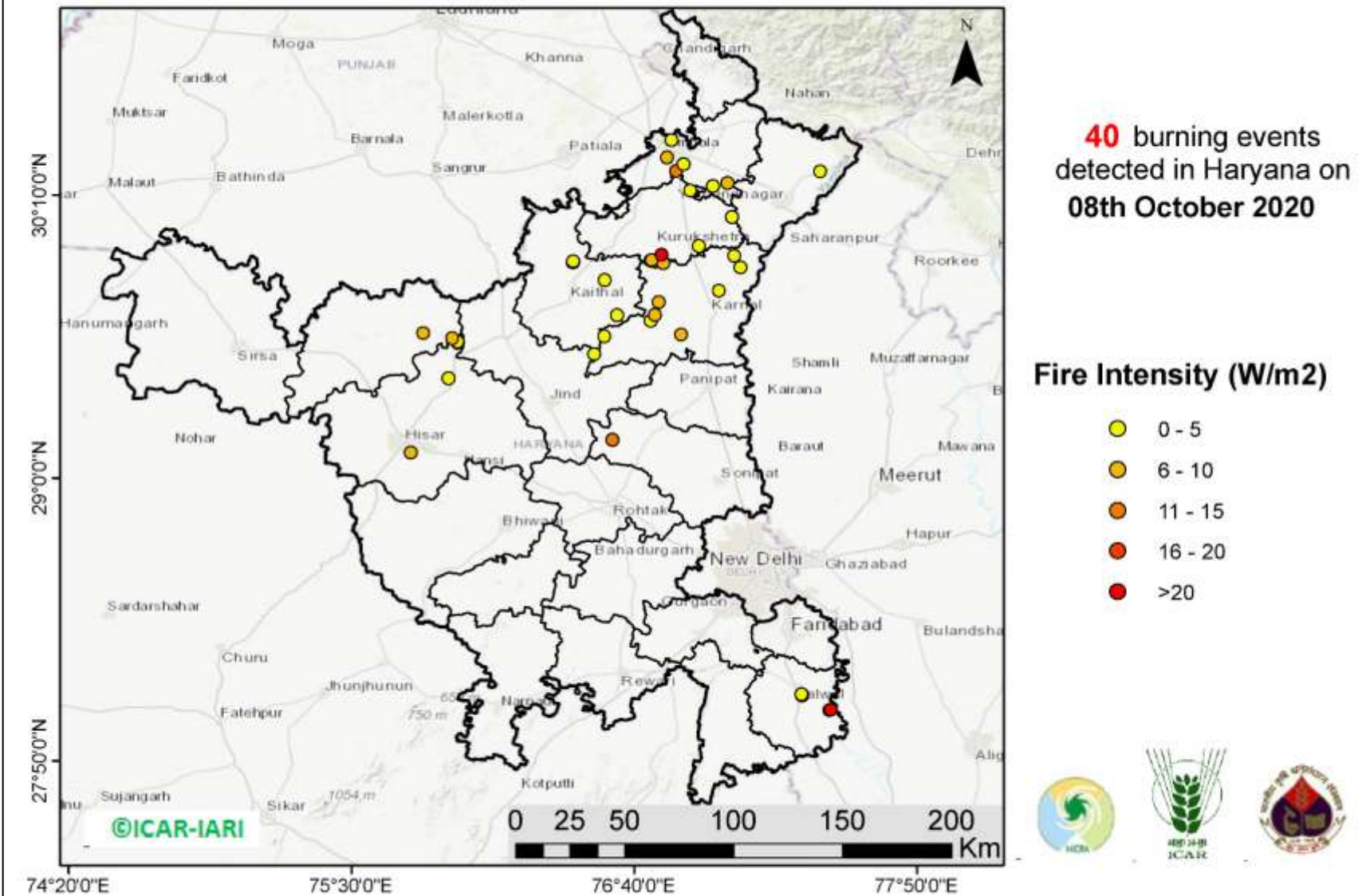


**District-wise cumulative number of residue burning events in Punjab (01-08 Oct-2020)**



(b) Haryana

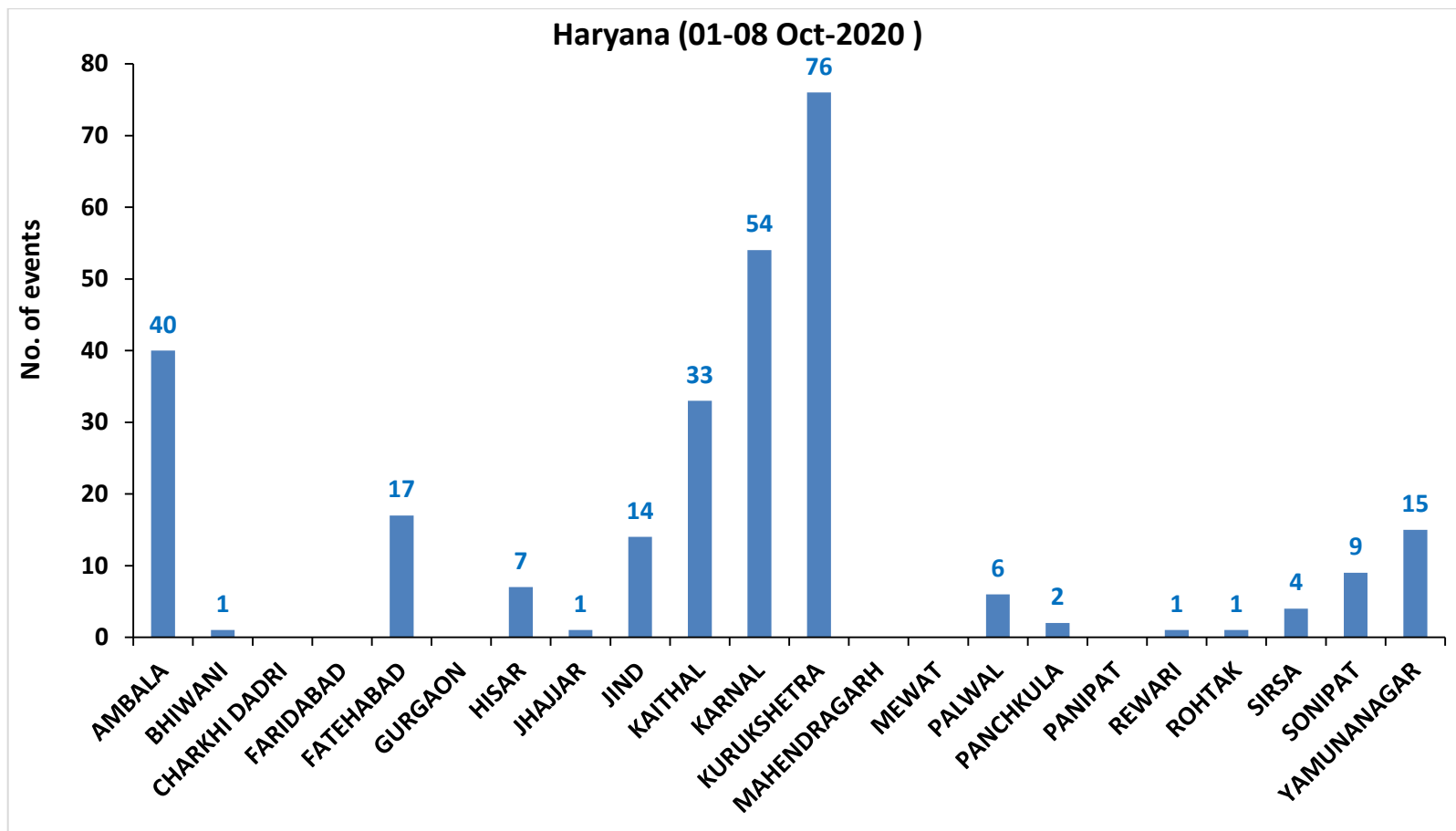
RICE RESIDUE BURNING IN HARYANA



<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

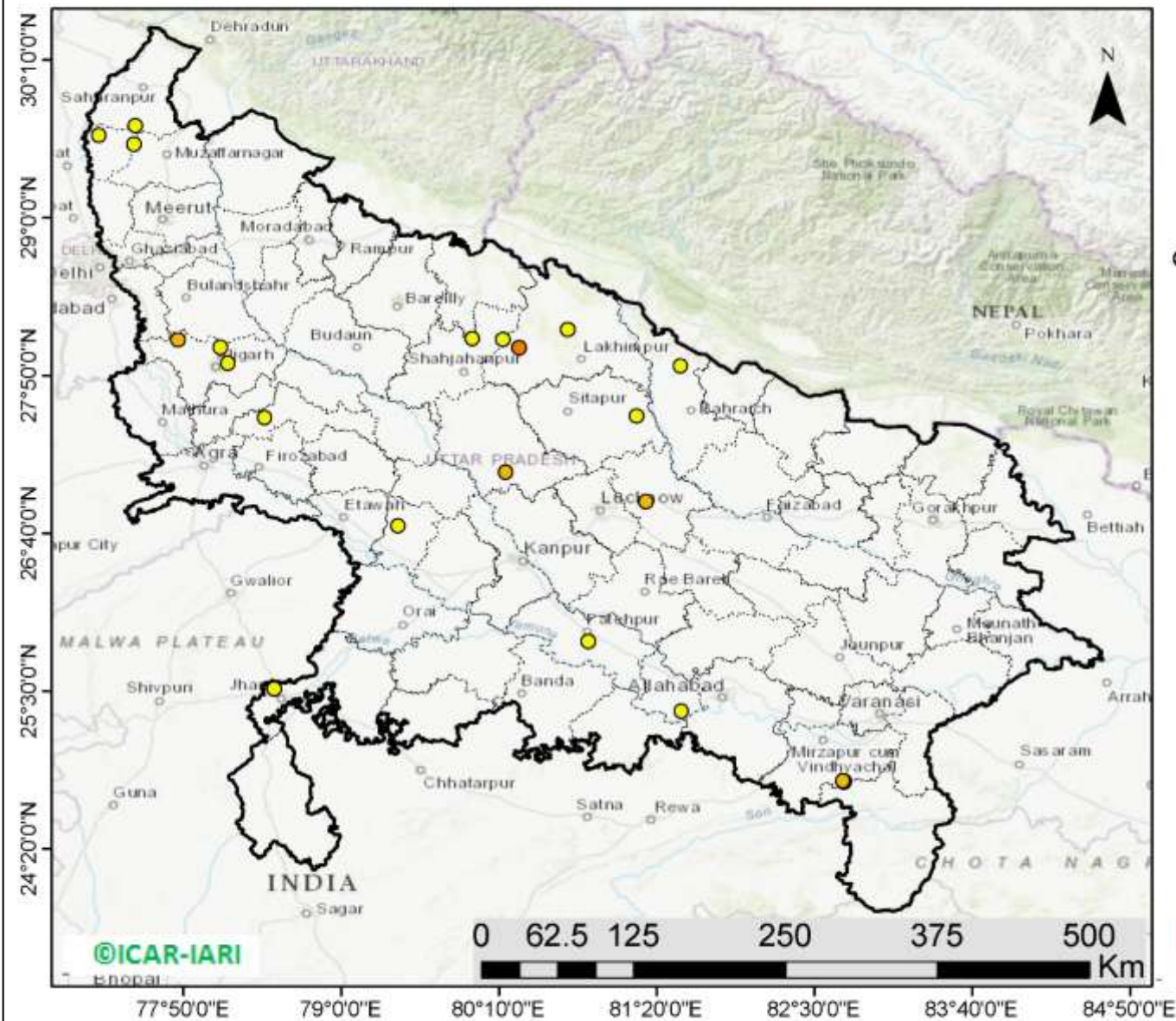


**District-wise cumulative number of residue burning events in Haryana (01-08 Oct-2020)**



(c) Uttar Pradesh

RICE RESIDUE BURNING IN UTTAR PRADESH



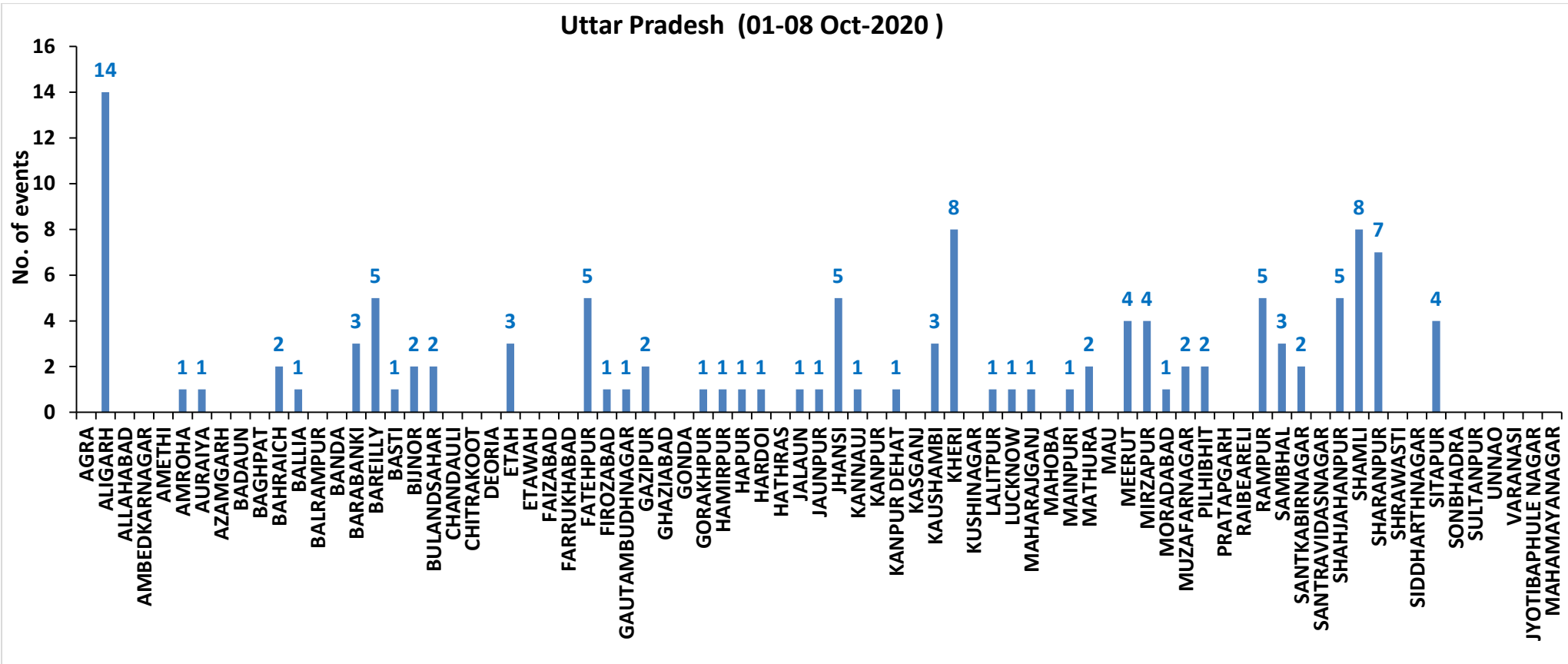
**23** burning events detected in Uttar Pradesh on 08th October 2020

Fire Intensity (W/m<sup>2</sup>)

- 0 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- >20

<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

## District-wise cumulative number of residue burning events in Uttar Pradesh (01-08 Oct-2020)



**State-wise and date-wise number of residue burning events detected in 2016, 2017, 2018, 2019 and 2020**  
**(Period: 01-08 October)**

Date	Punjab					Haryana					UP					Total				
	2020	2019	2018	2017	2016	2020	2019	2018	2017	2016	2020	2019	2018	2017	2016	2020	2019	2018	2017	2016
01-Oct	129	3	16	54	109	25	1	9	13	46	5	1	11	2	23	159	5	36	69	178
02-Oct	121	20	9	50	51	34	2	23	27	16	10	0	21	8	20	165	22	53	85	87
03-Oct	110	37	4	62	66	07	16	9	40	16	07	3	12	17	16	124	56	25	119	98
04-Oct	177	3	32	103	37	50	30	16	60	7	11	4	5	22	15	238	37	53	185	59
05-Oct	163	16	56	106	95	30	37	30	68	15	15	11	10	20	14	208	64	96	194	124
06-Oct	141	0	87	138	152	42	22	63	75	105	14	8	13	39	6	197	30	163	252	263
07-Oct	166	27	162	105	171	53	16	180	97	126	36	4	69	33	24	255	47	411	235	321
08-Oct	100	59	39	215	166	40	69	40	218	94	23	18	54	76	14	163	146	133	509	274
<b>Total</b>	<b>1107</b>	<b>165</b>	<b>405</b>	<b>833</b>	<b>847</b>	<b>281</b>	<b>193</b>	<b>370</b>	<b>598</b>	<b>425</b>	<b>121</b>	<b>49</b>	<b>195</b>	<b>217</b>	<b>132</b>	<b>1509</b>	<b>407</b>	<b>970</b>	<b>1648</b>	<b>1404</b>

**District-wise and date wise cumulative number of residue burning events detected in 2016, 2017, 2018, 2019 and 2020**  
**(Period: 01-08 October)**

**(a) Punjab**

Districts	01-08 Oct				
	2016	2017	2018	2019	2020
AMRITSAR	261	273	236	79	428
BARNALA	1	1	0	0	3
BATHINDA	20	13	12	0	2
FARIDKOT	28	42	0	0	14
FATEHGARH SAHIB	56	19	5	0	21
FAZILKA	0	0	0	2	6
FIROZPUR	46	57	15	3	48
GURDASPUR	21	17	18	6	76
HOSHIARPUR	6	4	3	2	4
JALANDHAR	46	41	0	3	18
KAPURTHALA	42	12	1	0	27
LUDHIANA	28	67	14	4	39
MANSA	8	7	1	5	3
MOGA	5	5	0	2	7
MUKTSAR	28	8	2	1	0
PATHANKOT	0	0	0	0	0
PATIALA	61	73	27	14	93
RUPNAGAR	2	2	0	0	4
SANGRUR	15	42	17	2	38
SAS NAGAR	10	14	9	2	15
SBS NAGAR	13	8	4	2	6
TARN TARAN	150	128	41	38	255
<b>Total</b>	<b>847</b>	<b>833</b>	<b>405</b>	<b>165</b>	<b>1107</b>

**(b) Haryana**

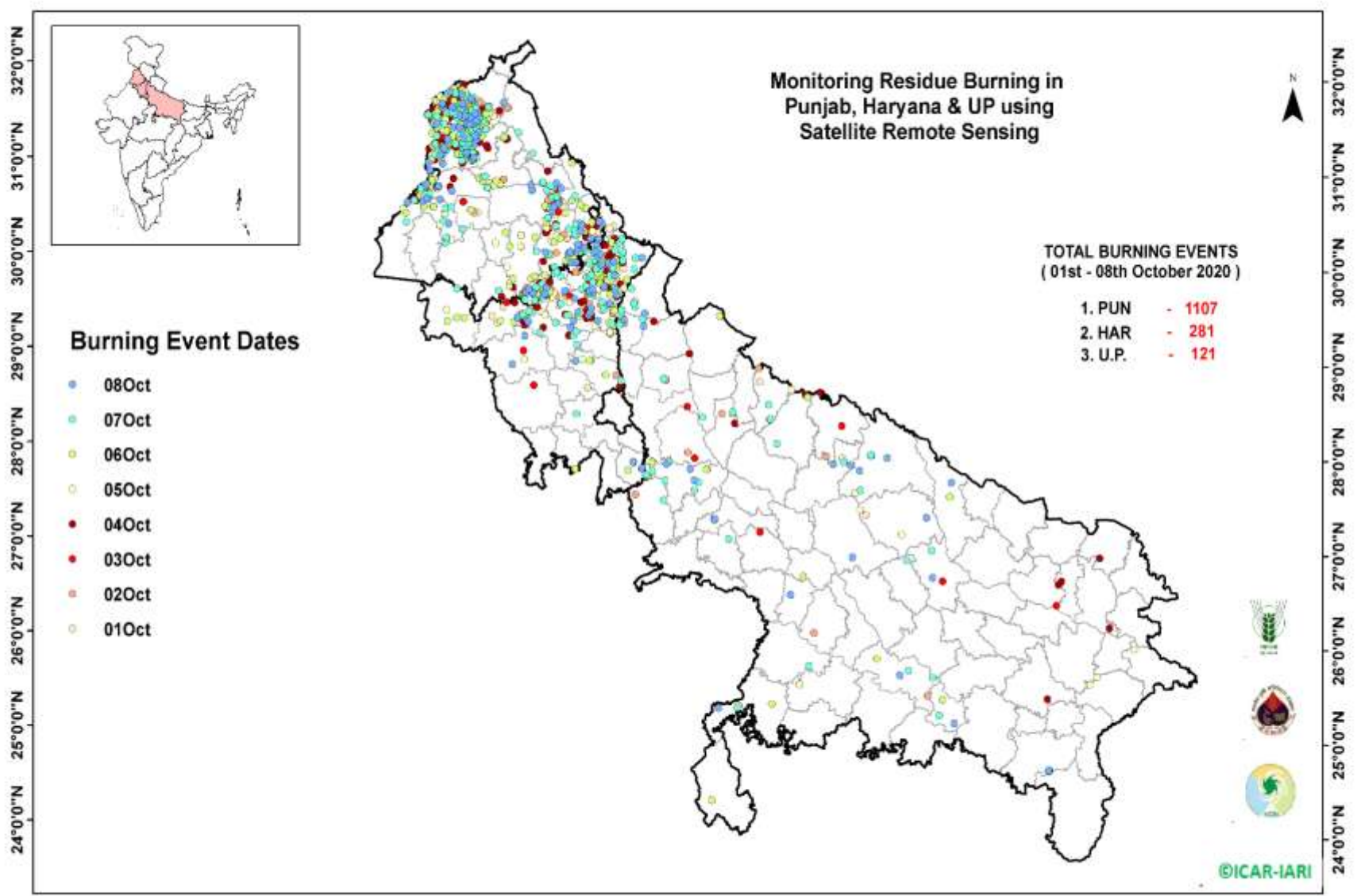
Districts	01-08 Oct				
	2016	2017	2018	2019	2020
AMBALA	24	44	29	3	40
BHIWANI	0	1	0	0	1
CHARKHI DADRI	0	0	0	0	0
FARIDABAD	2	4	12	1	0
FATEHABAD	4	26	7	6	17
GURGAON	0	0	0	0	0
HISAR	3	4	4	1	7
JHAJJAR	0	0	3	1	1
JIND	11	23	17	3	14
KAITHAL	110	93	51	42	33
KARNAL	168	206	96	81	54
KURUKSHETRA	84	155	101	44	76
MAHENDRAGARH	0	0	0	0	0
MEWAT	0	0	0	0	0
PALWAL	0	0	0	1	6
PANCHKULA	0	0	3	3	2
PANIPAT	6	11	21	1	0
REWARI	0	0	0	0	1
ROHTAK	0	0	0	0	1
SIRSA	8	5	4	0	4
SONIPAT	0	7	3	0	9
YAMUNANAGAR	5	19	19	6	15
<b>Total</b>	<b>425</b>	<b>598</b>	<b>370</b>	<b>193</b>	<b>281</b>

**(c)**

## Uttar Pradesh

Districts	01-08 Oct																
	2016	2017	2018	2019	2020	GAUTAMBUDHNAGAR	1	0	1	0	1	MUZAFARNAGAR	4	13	2	2	2
AGRA	0	0	0	0	0	GAZIPUR	0	0	0	0	2	PILHIBHIT	9	20	16	9	2
ALIGARH	0	5	4	0	14	GHAZIABAD	0	1	2	0	0	PRATAPGARH	0	0	0	0	0
ALLAHABAD	0	0	3	0	0	GONDA	0	0	0	0	0	RAIBEARELI	0	0	0	0	0
AMBEDKARNAGAR	0	0	0	0	0	GORAKHPUR	0	0	3	0	1	RAMPUR	42	18	20	1	5
AMETHI	0	0	0	0	0	HAMIRPUR	0	0	1	0	1	SAMBHAL	0	0	0	1	3
AMROHA	0	0	0	0	1	HAPUR	0	0	0	0	1	SANTKABIRNAGAR	0	0	0	0	2
AURAIYA	21	18	13	0	1	HARDOI	0	0	2	0	1	SANTRAVIDASNAGAR	0	0	0	0	0
AZAMGARH	0	0	0	0	0	HATHRAS	0	0	0	0	0	SHAHJAHANPUR	29	95	55	9	5
BADAUN	0	0	0	0	0	JALAUN	0	0	0	0	1	SHAMLI	0	0	0	2	8
BAGHPAT	0	0	0	0	0	JAUNPUR	0	0	0	0	1	SHARANPUR	2	1	4	1	7
BAHRAICH	0	0	1	0	2	JHANSI	0	0	0	0	5	SHRAWASTI	0	0	0	0	0
BALLIA	0	0	0	1	1	KANNAUJ	0	0	1	0	1	SIDDHARTHANAGAR	0	0	0	0	0
BALRAMPUR	0	0	0	0	0	KANPUR	0	0	0	0	0	SITAPUR	3	0	1	0	4
BANDA	0	0	1	0	0	KANPUR DEHAT	0	0	0	0	1	SONBHADRA	3	1	2	0	0
BARABANKI	2	1	13	0	3	KASGANJ	0	0	0	0	0	SULTANPUR	0	0	0	0	0
BAREILLY	8	1	3	3	5	KAUSHAMBI	0	1	5	0	3	UNNAO	0	0	0	0	0
BASTI	0	0	0	0	1	KHERI	4	30	17	9	8	VARANASI	0	0	0	0	0
BIJNOR	0	0	1	0	2	KUSHINAGAR	0	0	0	0	0	JYOTIBAPHULE NAGAR	0	0	0	0	0
BULANDSAHAR	0	1	2	1	2	LALITPUR	0	0	0	0	1	MAHAMAYANAGAR	0	0	0	0	0
CHANDAULI	0	0	0	0	0	LUCKNOW	2	3	0	1	1	<b>Total</b>	<b>132</b>	<b>217</b>	<b>195</b>	<b>49</b>	<b>121</b>
CHITRAKOOT	0	0	0	0	0	MAHARAJGANJ	0	0	1	0	1						
DEORIA	0	0	0	0	0	MAHOBAB	0	0	0	0	0						
ETAH	0	1	2	0	3	MAINPURI	0	0	2	0	1						
ETAWAH	0	0	0	0	0	MATHURA	1	3	14	3	2						
FAIZABAD	0	1	0	0	0	MAU	0	0	0	0	0						
FARRUKHABAD	0	0	0	0	0	MEERUT	1	0	0	2	4						
FATEHPUR	0	0	1	0	5	MIRZAPUR	0	1	1	3	4						
FIROZABAD	0	0	0	0	1	MORADABAD	0	2	1	1	1						

### Map of Cumulative Burning Events (01-08 Oct 2020)



[\(http://geoportal.icar.gov.in:8080/geoexplorer/composer/\)](http://geoportal.icar.gov.in:8080/geoexplorer/composer/)

**Details of residue burning events in Punjab on 08-Oct-2020**

S. No.	District	Tehsil / Block	Satellite	Longitude	Latitude	Time (IST)	Day / Night	Fire Power (W/m <sup>2</sup> )
1	AMRITSAR	AJNALA	S-NPP	74.72724	31.77541	13:00:00	D	4.70
2	AMRITSAR	AJNALA	S-NPP	74.87094	31.78329	13:00:00	D	2.80
3	AMRITSAR	AJNALA	S-NPP	74.83971	31.79076	13:00:00	D	1.90
4	AMRITSAR	AJNALA	S-NPP	74.70930	31.81502	13:00:00	D	25.60
5	AMRITSAR	AJNALA	S-NPP	74.71138	31.81860	13:00:00	D	22.90
6	AMRITSAR	AJNALA	S-NPP	74.70792	31.81956	13:00:00	D	15.10
7	AMRITSAR	AJNALA	S-NPP	74.80378	31.94998	13:00:00	D	4.80
8	AMRITSAR	AJNALA	S-NPP	74.80606	31.95058	13:00:00	D	4.10
9	AMRITSAR	AMRITSAR I	S-NPP	74.98360	31.55486	13:00:00	D	4.00
10	AMRITSAR	AMRITSAR I	S-NPP	74.98605	31.55524	13:00:00	D	4.70
11	AMRITSAR	AMRITSAR I	S-NPP	75.04939	31.62206	13:00:00	D	4.10
12	AMRITSAR	AMRITSAR I	S-NPP	75.04807	31.62653	13:00:00	D	7.80
13	AMRITSAR	AMRITSAR I	S-NPP	75.10221	31.68159	13:00:00	D	14.10
14	AMRITSAR	AMRITSAR I	S-NPP	75.10517	31.68176	13:00:00	D	7.90
15	AMRITSAR	AMRITSAR I	S-NPP	75.10090	31.68605	13:00:00	D	14.10
16	AMRITSAR	AMRITSAR I	S-NPP	75.10385	31.68621	13:00:00	D	18.30
17	AMRITSAR	AMRITSAR I	S-NPP	74.99461	31.81075	13:00:00	D	8.60
18	AMRITSAR	AMRITSAR I	S-NPP	74.98392	31.82745	13:00:00	D	3.90
19	AMRITSAR	AMRITSAR II	S-NPP	74.86700	31.57694	13:00:00	D	1.90
20	AMRITSAR	AMRITSAR II	S-NPP	74.94724	31.58033	13:00:00	D	4.90
21	AMRITSAR	AMRITSAR II	S-NPP	74.95266	31.58153	13:00:00	D	4.90
22	AMRITSAR	AMRITSAR II	S-NPP	74.64773	31.60838	13:00:00	D	4.10
23	AMRITSAR	AMRITSAR II	S-NPP	74.94897	31.69994	13:00:00	D	4.70
24	AMRITSAR	AMRITSAR II	S-NPP	75.02134	31.70642	13:00:00	D	9.10
25	AMRITSAR	BABA BAKALA	AQUA	75.20800	31.53300	14:10:00	D	14.50
26	AMRITSAR	BABA BAKALA	AQUA	75.08000	31.61400	14:10:00	D	17.00
27	AMRITSAR	BABA BAKALA	S-NPP	75.16191	31.64203	13:00:00	D	4.00
28	AMRITSAR	BABA BAKALA	S-NPP	75.17896	31.65994	13:00:00	D	2.50
29	AMRITSAR	BABA BAKALA	S-NPP	75.19402	31.73038	13:00:00	D	2.50
30	AMRITSAR	BABA BAKALA	S-NPP	75.15481	31.73117	13:00:00	D	5.70
31	FARIDKOT	FARIDKOT	S-NPP	74.84809	30.56299	13:00:00	D	5.70



32	FARIDKOT	FARIDKOT	S-NPP	74.72192	30.81337	13:00:00	D	6.40
33	FATEHGARH SAHIB	KHAMANOH	S-NPP	76.29543	30.80554	13:00:00	D	3.30
34	FAZILKA	JALALABAD	S-NPP	74.28423	30.76984	13:00:00	D	11.70
35	FIROZPUR	FIROZPUR	S-NPP	74.49547	30.79295	13:00:00	D	7.50
36	FIROZPUR	FIROZPUR	S-NPP	74.49734	30.79344	13:00:00	D	5.80
37	FIROZPUR	FIROZPUR	S-NPP	74.55886	30.81244	13:00:00	D	7.80
38	FIROZPUR	FIROZPUR	S-NPP	74.56088	30.81251	13:00:00	D	6.30
39	FIROZPUR	FIROZPUR	S-NPP	74.54433	30.81913	13:00:00	D	6.80
40	FIROZPUR	FIROZPUR	S-NPP	74.69087	30.95126	13:00:00	D	6.00
41	FIROZPUR	FIROZPUR	S-NPP	74.69662	30.95252	13:00:00	D	8.70
42	FIROZPUR	FIROZPUR	S-NPP	74.69401	30.95301	13:00:00	D	13.10
43	FIROZPUR	FIROZPUR	S-NPP	74.53529	30.96683	13:00:00	D	7.80
44	FIROZPUR	ZIRA	S-NPP	74.87325	30.90812	13:00:00	D	6.40
45	GURDASPUR	BATALA	AQUA	75.10300	31.87400	14:10:00	D	17.10
46	GURDASPUR	BATALA	S-NPP	75.08987	31.88857	13:00:00	D	19.30
47	GURDASPUR	DERA BABA NANAK	S-NPP	74.96371	31.92311	13:00:00	D	8.40
48	GURDASPUR	DERA BABA NANAK	S-NPP	74.96904	31.92428	13:00:00	D	7.90
49	GURDASPUR	GURDASPUR	S-NPP	75.53598	31.85604	13:00:00	D	4.10
50	KAPURTHALA	SULTANPUR LODHI	S-NPP	75.14864	31.24202	13:00:00	D	5.50
51	KAPURTHALA	SULTANPUR LODHI	S-NPP	75.15124	31.26635	13:00:00	D	5.90
52	KAPURTHALA	SULTANPUR LODHI	S-NPP	75.15273	31.26676	13:00:00	D	7.90
53	LUDHIANA	KHANNA	AQUA	76.22000	30.72800	14:10:00	D	30.90
54	LUDHIANA	LUDHIANA EAST	S-NPP	75.94515	30.94601	13:00:00	D	6.30
55	LUDHIANA	LUDHIANA EAST	S-NPP	75.94393	30.95033	13:00:00	D	4.10
56	LUDHIANA	LUDHIANA EAST	S-NPP	75.93222	31.00217	13:00:00	D	3.10
57	LUDHIANA	SAMRALA	S-NPP	76.23895	30.77564	13:00:00	D	6.20
58	PATIALA	PATIALA	S-NPP	76.48757	30.19707	13:00:00	D	3.00
59	PATIALA	PATIALA	S-NPP	76.55516	30.20216	13:00:00	D	6.40
60	PATIALA	PATIALA	S-NPP	76.44893	30.28925	13:00:00	D	1.30
61	PATIALA	PATIALA	S-NPP	76.48053	30.30034	13:00:00	D	3.70
62	PATIALA	PATIALA	S-NPP	76.47937	30.30459	13:00:00	D	3.20
63	PATIALA	RAJPURA	S-NPP	76.57326	30.33747	13:00:00	D	1.50
64	PATIALA	RAJPURA	S-NPP	76.65580	30.35447	13:00:00	D	2.10

65	PATIALA	RAJPURA	S-NPP	76.58555	30.38748	13:00:00	D	5.30
66	PATIALA	RAJPURA	S-NPP	76.59013	30.38845	13:00:00	D	5.30
67	PATIALA	RAJPURA	TERRA	76.57000	30.39000	10:55:00	D	9.50
68	PATIALA	RAJPURA	S-NPP	76.74429	30.45601	13:00:00	D	3.00
69	PATIALA	RAJPURA	S-NPP	76.60516	30.53205	13:00:00	D	3.30
70	PATIALA	RAJPURA	S-NPP	76.62474	30.59287	13:00:00	D	9.50
71	PATIALA	RAJPURA	S-NPP	76.62202	30.59315	13:00:00	D	5.40
72	PATIALA	SAMANA	S-NPP	76.15513	29.85308	13:00:00	D	9.00
73	PATIALA	SAMANA	S-NPP	76.15392	29.85745	13:00:00	D	9.00
74	PATIALA	SAMANA	S-NPP	76.16660	29.92482	13:00:00	D	4.10
75	PATIALA	SAMANA	S-NPP	76.17152	29.92585	13:00:00	D	6.40
76	RUPNAGAR	CHAMKOR SAHIB	S-NPP	76.33532	30.97468	13:00:00	D	2.40
77	SANGRUR	MOONAK	S-NPP	75.99306	29.86490	13:00:00	D	3.50
78	SANGRUR	MOONAK	S-NPP	75.89409	29.87197	13:00:00	D	4.70
79	SANGRUR	MOONAK	S-NPP	75.89922	29.87305	13:00:00	D	7.10
80	SANGRUR	MOONAK	S-NPP	75.93893	29.90486	13:00:00	D	4.70
81	SANGRUR	SANGRUR	S-NPP	76.14493	30.29864	13:00:00	D	5.40
82	SAS NAGAR	DERABASSI	S-NPP	76.85040	30.44720	13:00:00	D	4.00
83	SAS NAGAR	DERABASSI	S-NPP	76.88918	30.61686	13:00:00	D	4.30
84	SAS NAGAR	DERABASSI	S-NPP	76.85150	30.63537	13:00:00	D	3.10
85	SAS NAGAR	DERABASSI	S-NPP	76.85352	30.63651	13:00:00	D	3.00
86	SBS NAGAR	BALACHAUR	S-NPP	76.27101	31.02829	13:00:00	D	6.80
87	TARN TARAN	KHADOOR SAHIB	S-NPP	75.04560	31.31481	13:00:00	D	5.80
88	TARN TARAN	KHADOOR SAHIB	S-NPP	75.05101	31.31599	13:00:00	D	7.20
89	TARN TARAN	KHADOOR SAHIB	S-NPP	75.15697	31.41139	13:00:00	D	8.20
90	TARN TARAN	KHADOOR SAHIB	S-NPP	74.79002	31.44942	13:00:00	D	5.10
91	TARN TARAN	KHADOOR SAHIB	S-NPP	74.79558	31.45066	13:00:00	D	6.30
92	TARN TARAN	KHADOOR SAHIB	S-NPP	75.18220	31.45966	13:00:00	D	5.40
93	TARN TARAN	KHADOOR SAHIB	S-NPP	75.00608	31.46861	13:00:00	D	16.80
94	TARN TARAN	KHADOOR SAHIB	S-NPP	75.16342	31.49407	13:00:00	D	4.20
95	TARN TARAN	PATTI	S-NPP	74.57545	31.11603	13:00:00	D	10.30
96	TARN TARAN	PATTI	S-NPP	74.74015	31.19362	13:00:00	D	4.00
97	TARN TARAN	PATTI	S-NPP	74.55054	31.19538	13:00:00	D	3.70

98	TARN TARAN	PATTI	S-NPP	74.70838	31.27964	13:00:00	D	5.00
99	TARN TARAN	PATTI	S-NPP	74.70550	31.28158	13:00:00	D	5.00
100	TARN TARAN	PATTI	S-NPP	74.75652	31.35171	13:00:00	D	4.40

**Details of residue burning events in Haryana on 08-Oct-2020**

S. No.	District	Tehsil / Block	Satellite	Longitude	Latitude	Time (IST)	Day / Night	Fire Power (W/m <sup>2</sup> )
1	AMBALA	AMBALA	S-NPP	76.84087	30.26564	13:00:00	D	13.70
2	AMBALA	AMBALA	S-NPP	76.87087	30.29374	13:00:00	D	3.00
3	AMBALA	AMBALA	S-NPP	76.80279	30.32297	13:00:00	D	5.10
4	AMBALA	AMBALA	S-NPP	76.82158	30.39284	13:00:00	D	3.50
5	AMBALA	BARARA	S-NPP	76.99085	30.20409	13:00:00	D	2.50
6	AMBALA	BARARA	S-NPP	77.05214	30.21651	13:00:00	D	5.40
7	FATEHABAD	FATEHABAD	TERRA	75.79700	29.59700	10:55:00	D	8.30
8	FATEHABAD	TOHANA	S-NPP	75.91641	29.57769	13:00:00	D	9.10
9	HISAR	HISAR	METOP-1	75.74473	29.10415	21:22:00	N	7.00
10	HISAR	HISAR	S-NPP	75.90112	29.41191	13:00:00	D	1.70
11	HISAR	HISAR	S-NPP	75.93801	29.55879	13:00:00	D	4.10
12	HISAR	HISAR	S-NPP	75.93843	29.56221	13:00:00	D	3.90
13	JIND	JIND	S-NPP	76.50194	29.51153	13:00:00	D	4.50
14	KAITHAL	KAITHAL	S-NPP	76.54414	29.58433	13:00:00	D	4.10
15	KAITHAL	KAITHAL	S-NPP	76.59525	29.67211	13:00:00	D	2.60
16	KAITHAL	KAITHAL	S-NPP	76.54554	29.81735	13:00:00	D	3.50
17	KAITHAL	KAITHAL	S-NPP	76.41243	29.88982	13:00:00	D	5.20
18	KAITHAL	KAITHAL	S-NPP	76.41537	29.88986	13:00:00	D	3.50
19	KAITHAL	KAITHAL	S-NPP	76.41419	29.89416	13:00:00	D	3.50
20	KARNAL	GHARAUNDA	S-NPP	76.86046	29.59093	13:00:00	D	6.80
21	KARNAL	INDRI	S-NPP	77.10515	29.86907	13:00:00	D	2.60
22	KARNAL	INDRI	S-NPP	77.07973	29.91620	13:00:00	D	1.30
23	KARNAL	KARNAL	S-NPP	76.73499	29.64727	13:00:00	D	4.30
24	KARNAL	KARNAL	S-NPP	76.75234	29.67330	13:00:00	D	6.80
25	KARNAL	KARNAL	S-NPP	76.76738	29.72559	13:00:00	D	6.70
26	KARNAL	KARNAL	S-NPP	77.01710	29.77213	13:00:00	D	2.90
27	KURUKSHETRA	SHAHABAD	S-NPP	76.89799	30.18520	13:00:00	D	3.30
28	KURUKSHETRA	THANESAR	S-NPP	76.78622	29.88591	13:00:00	D	5.90
29	KURUKSHETRA	THANESAR	S-NPP	76.73483	29.89749	13:00:00	D	8.90
30	KURUKSHETRA	THANESAR	S-NPP	76.73941	29.89844	13:00:00	D	9.50
31	KURUKSHETRA	THANESAR	AQUA	76.78100	29.92000	14:10:00	D	26.20

32	KURUKSHETRA	THANESAR	S-NPP	76.93380	29.95625	13:00:00	D	1.60
33	PALWAL	PALWAL	S-NPP	77.47257	28.04247	13:00:00	D	8.60
34	PALWAL	PALWAL	S-NPP	77.47699	28.04338	13:00:00	D	38.90
35	PALWAL	PALWAL	S-NPP	77.35800	28.10346	13:00:00	D	3.90
36	PALWAL	PALWAL	S-NPP	77.35865	28.10630	13:00:00	D	7.20
37	PALWAL	PALWAL	S-NPP	77.35691	28.10769	13:00:00	D	3.90
38	SONIPAT	GOHANA	TERRA	76.57700	29.15800	11:00:00	D	11.20
39	YAMUNANAGAR	CHHACHHRAULII	S-NPP	77.43391	30.26348	13:00:00	D	2.90
40	YAMUNANAGAR	JAGADHRI	S-NPP	77.07046	30.07639	13:00:00	D	1.20

**Details of residue burning events in Uttar Pradesh on 08-Oct-2020**

S. No.	District	Tehsil / Block	Satellite	Longitude	Latitude	Time (IST)	Day / Night	Fire Power (W/m <sup>2</sup> )
1	ALIGARH	GABHANA	S-NPP	78.10477	28.04256	01:42:00	N	1.10
2	ALIGARH	KHAIR	METOP-1	77.79267	28.09354	21:22:00	N	6.00
3	ALIGARH	KOL	S-NPP	78.16132	27.92406	01:42:00	N	0.40
4	AURAIYA	BIDHUNA	S-NPP	79.41991	26.72111	01:42:00	N	0.40
5	BAHRAICH	NANPARA	S-NPP	81.51099	27.90103	13:00:00	D	3.10
6	BARABANKI	NAWABGANJ	S-NPP	81.25374	26.89867	12:54:00	D	7.30
7	ETAH	JALESAR	S-NPP	78.43391	27.51829	13:00:00	D	1.60
8	FATEHPUR	FATEHPUR	S-NPP	80.82639	25.86734	12:54:00	D	1.70
9	HARDOI	BILGRAM	METOP-2	80.21913	27.11887	20:08:00	N	6.00
10	JHANSI	JHANSI	S-NPP	78.50577	25.51475	12:54:00	D	4.40
11	KAUSHAMBI	CHAIL	S-NPP	81.51698	25.35254	12:54:00	D	2.40
12	KHERI	LAKHIMPUR	S-NPP	80.67555	28.16949	13:00:00	D	3.00
13	KHERI	MOHMADI	S-NPP	80.31491	28.03736	13:00:00	D	10.90
14	MIRZAPUR	MARIHAN	S-NPP	82.71845	24.82594	12:54:00	D	24.50
15	MIRZAPUR	MARIHAN	S-NPP	82.71297	24.83211	12:54:00	D	4.30
16	MIRZAPUR	MARIHAN	S-NPP	82.72119	24.83347	12:54:00	D	7.40
17	MIRZAPUR	MARIHAN	S-NPP	82.71229	24.83553	12:54:00	D	9.50
18	SHAHJAHANPUR	PUWANYA	S-NPP	80.19625	28.09692	01:42:00	N	1.50
19	SHAHJAHANPUR	PUWANYA	S-NPP	79.97160	28.10370	01:42:00	N	1.30
20	SHAMLI	KAIRANA	S-NPP	77.20779	29.61006	13:00:00	D	2.70
21	SHAMLI	SHAMLI	S-NPP	77.46796	29.54325	13:00:00	D	2.10
22	SHARANPUR	RAMPUR MANIHARRAN	S-NPP	77.47824	29.67874	13:00:00	D	2.20
23	SITAPUR	BISWAN	S-NPP	81.18352	27.53267	13:00:00	D	4.30

## The study used images received from following Satellites at IARI Satellite Ground Station

S. No.	Satellite Name	Sensor	Resolution (meter)	Day / Night Passes
1.	Suomi NPP	VIIRS	375 / 750	Both
2.	Terra	MODIS	1000	Both
3.	Aqua	MODIS	1000	Both
4.	NOAA – 18	AVHRR	1000	Night
5.	NOAA – 19	AVHRR	1000	Night
6.	Metop - 1	AVHRR	1000	Night
7.	Metop - 2	AVHRR	1000	Night

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Softcopy of this report and latest statistics can be seen on <http://creams.iari.res.in>

GIS Maps of fire events can be visualized online on ICAR KRISHI Geoportal website: <http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

(Part of KRISHI Portal: <https://krishi.icar.gov.in> initiative)

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