

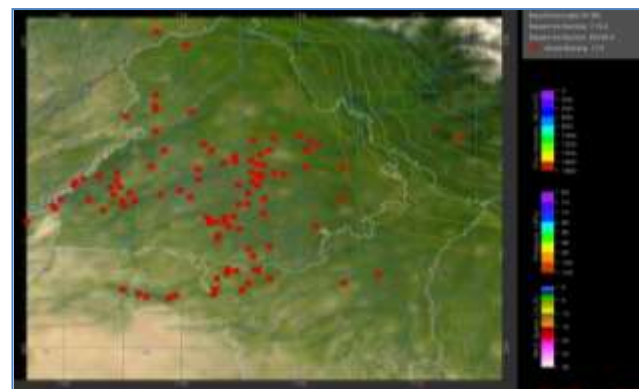


MONITORING PADDY RESIDUE BURNING IN NORTH INDIA USING SATELLITE REMOTE SENSING DURING 2020

**Bulletin
No. 1**

**Events Date:
01-Oct-2020**

**Issued on:
02-Oct-2020**



Prepared by:

**Consortium for Research on Agroecosystem Monitoring and Modeling from Space (CREAMS) Laboratory,
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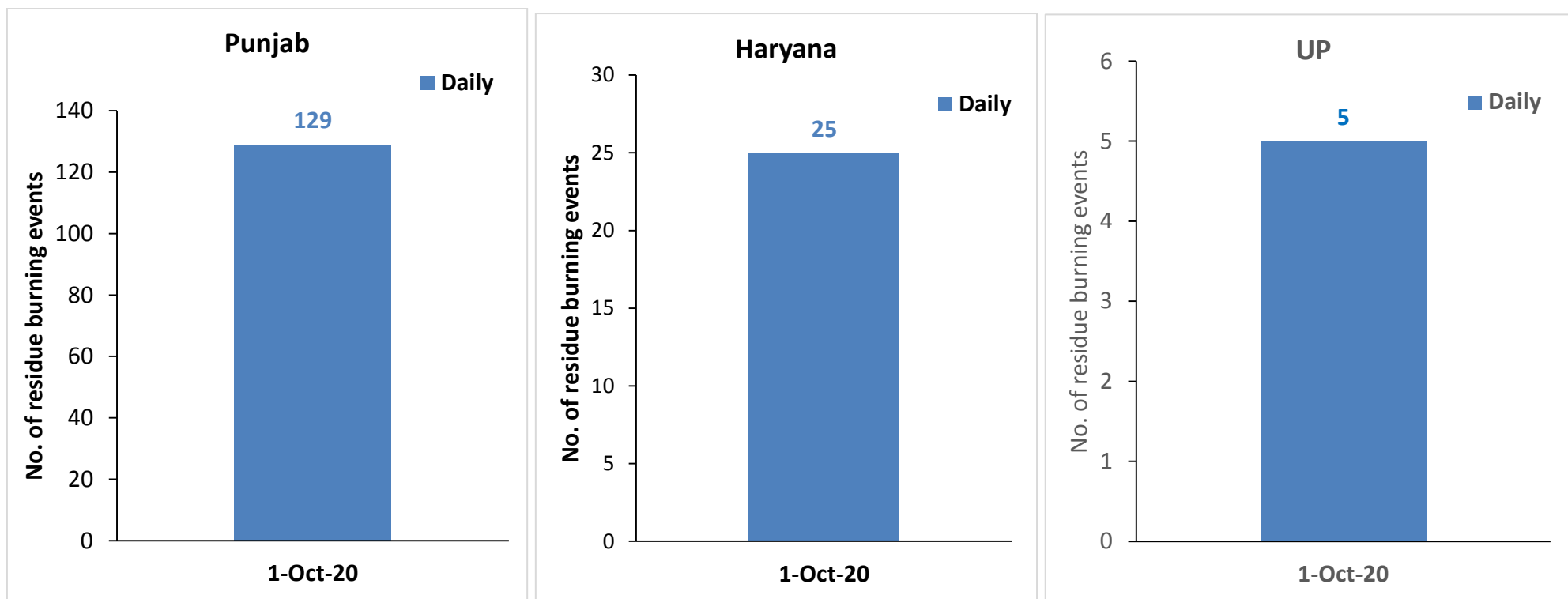
<http://creams.iari.res.in>



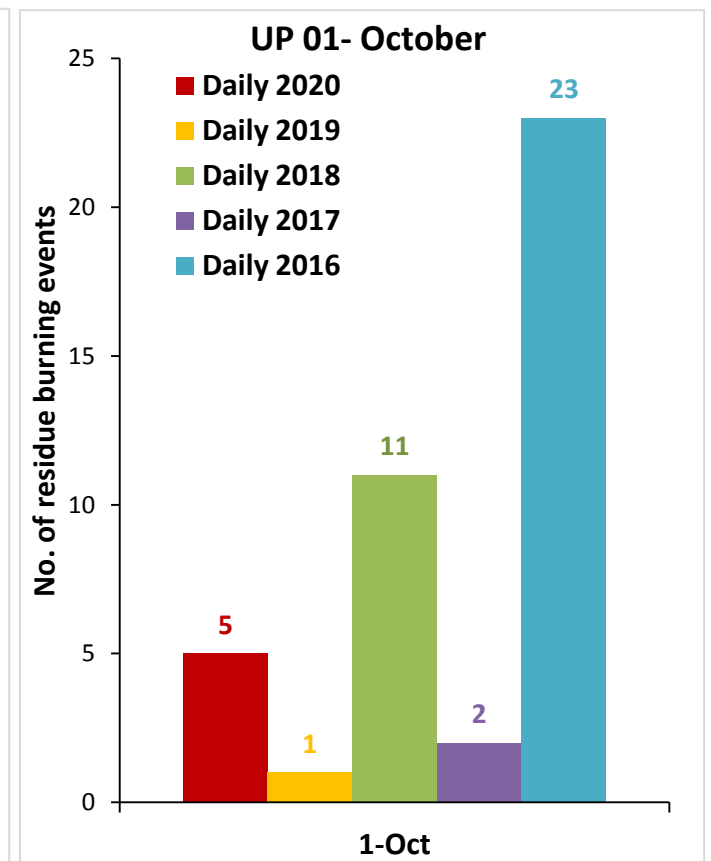
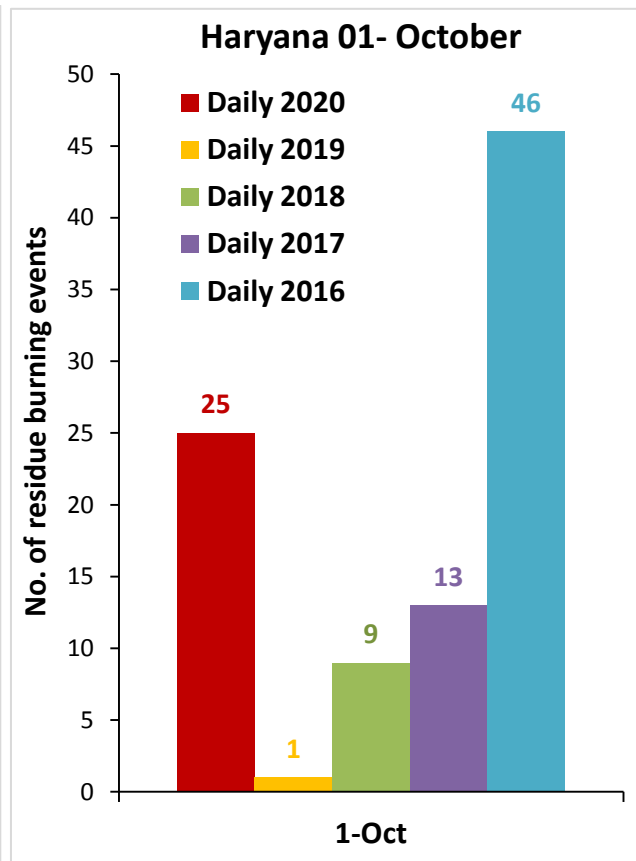
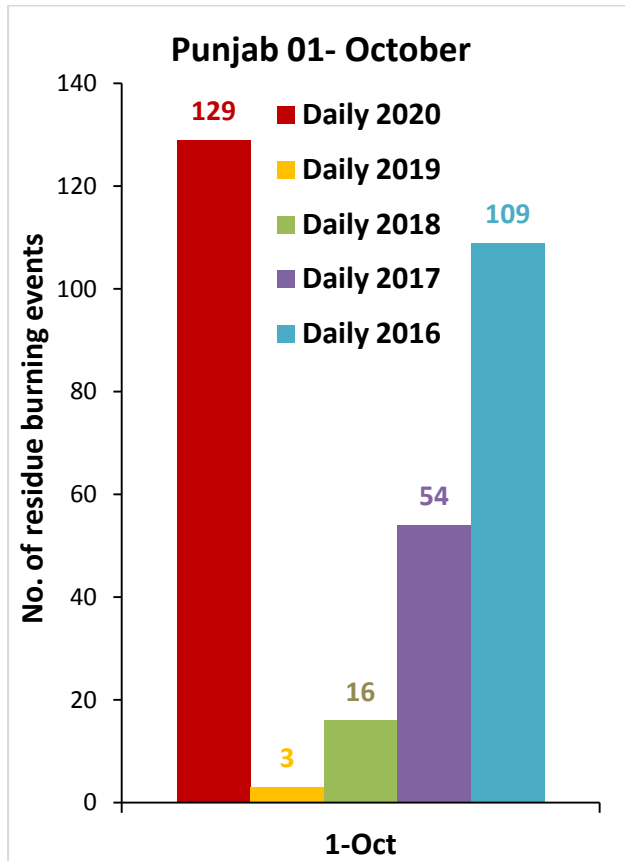
Highlights for 01-October-2020

- Satellites detected **159** residue burning events in the three study States on **01-Oct-2020**.
- The state wise events detected were **129** in Punjab, **25** in Haryana and **5** in UP.
- In Punjab, burning/fire events were concentrated in Amritsar, Tarn Taran and Gurdaspur districts.
- In Haryana and Uttar Pradesh, the burning events were scattered.
- The number of burning events was highest on 1-Oct in Punjab in last five years.

Temporal distribution of residue burning events for the three study States

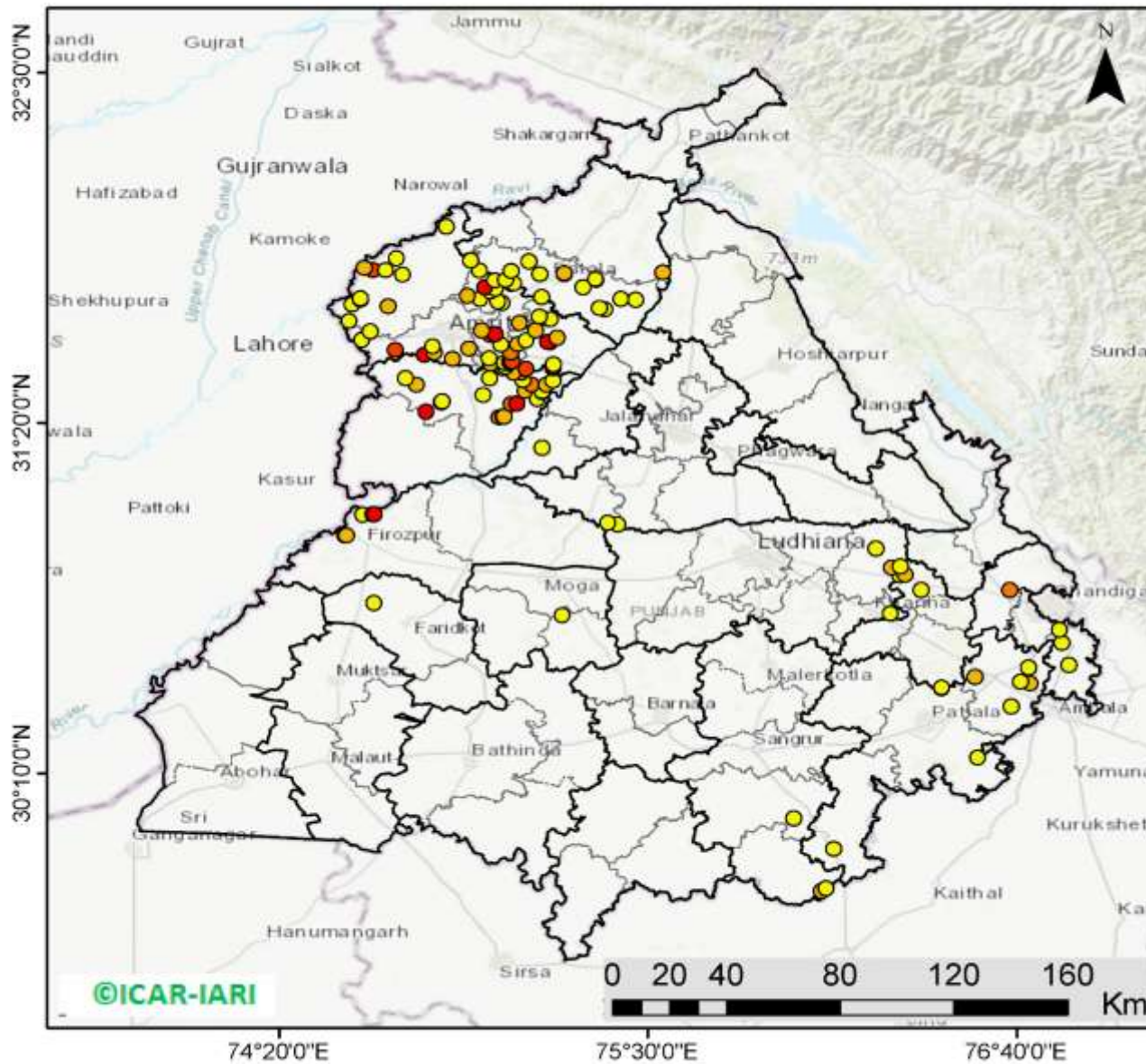


Comparison of residue burning events in current year (2020) with previous years in the three study States
(01-Oct 2016, 2017, 2018, 2019 and 2020)



Punjab

RICE RESIDUE BURNING IN PUNJAB



129 burning events detected in Punjab on 01st October 2020

Fire Intensity (W/m²)

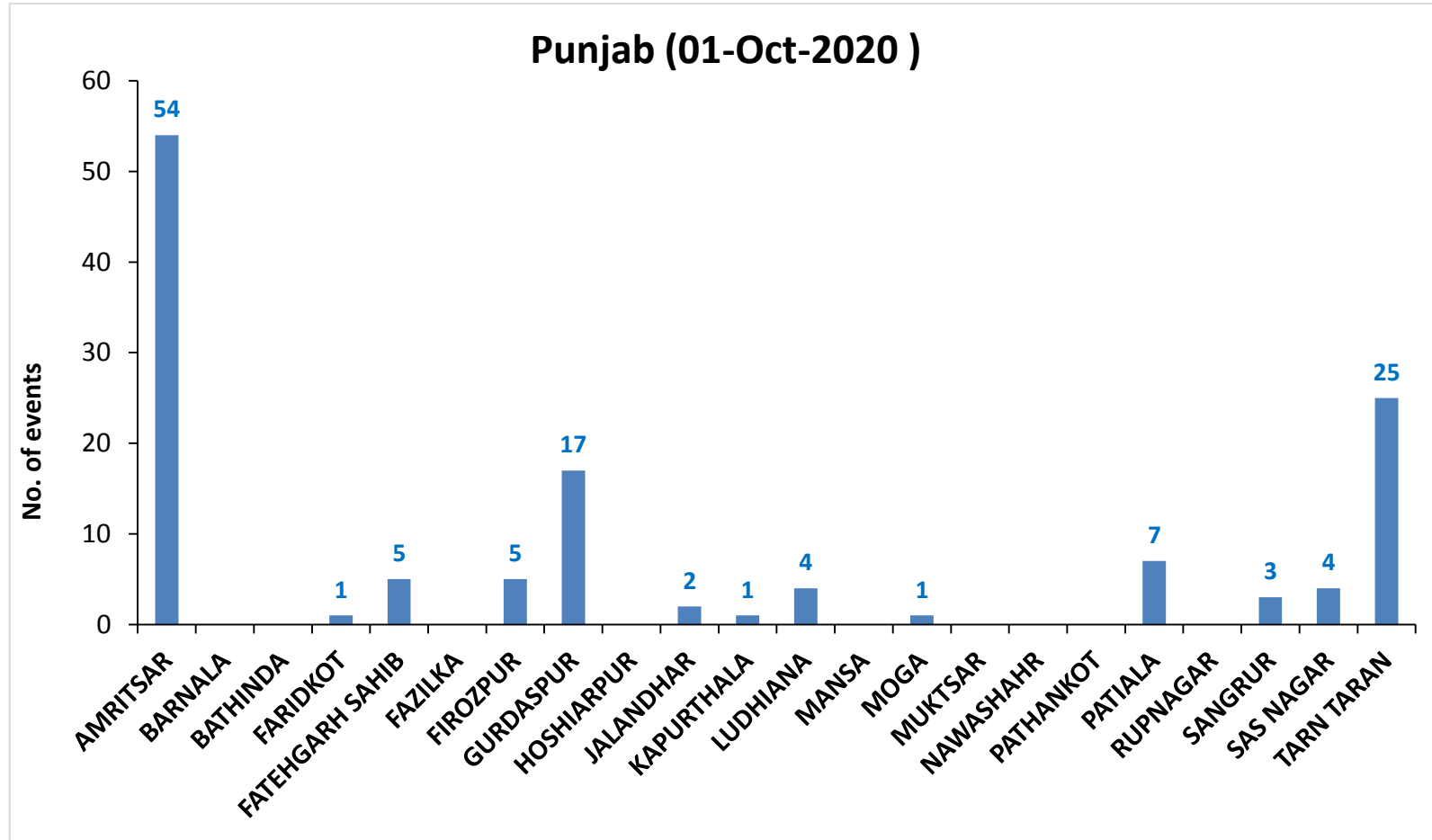
- 0 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- >20

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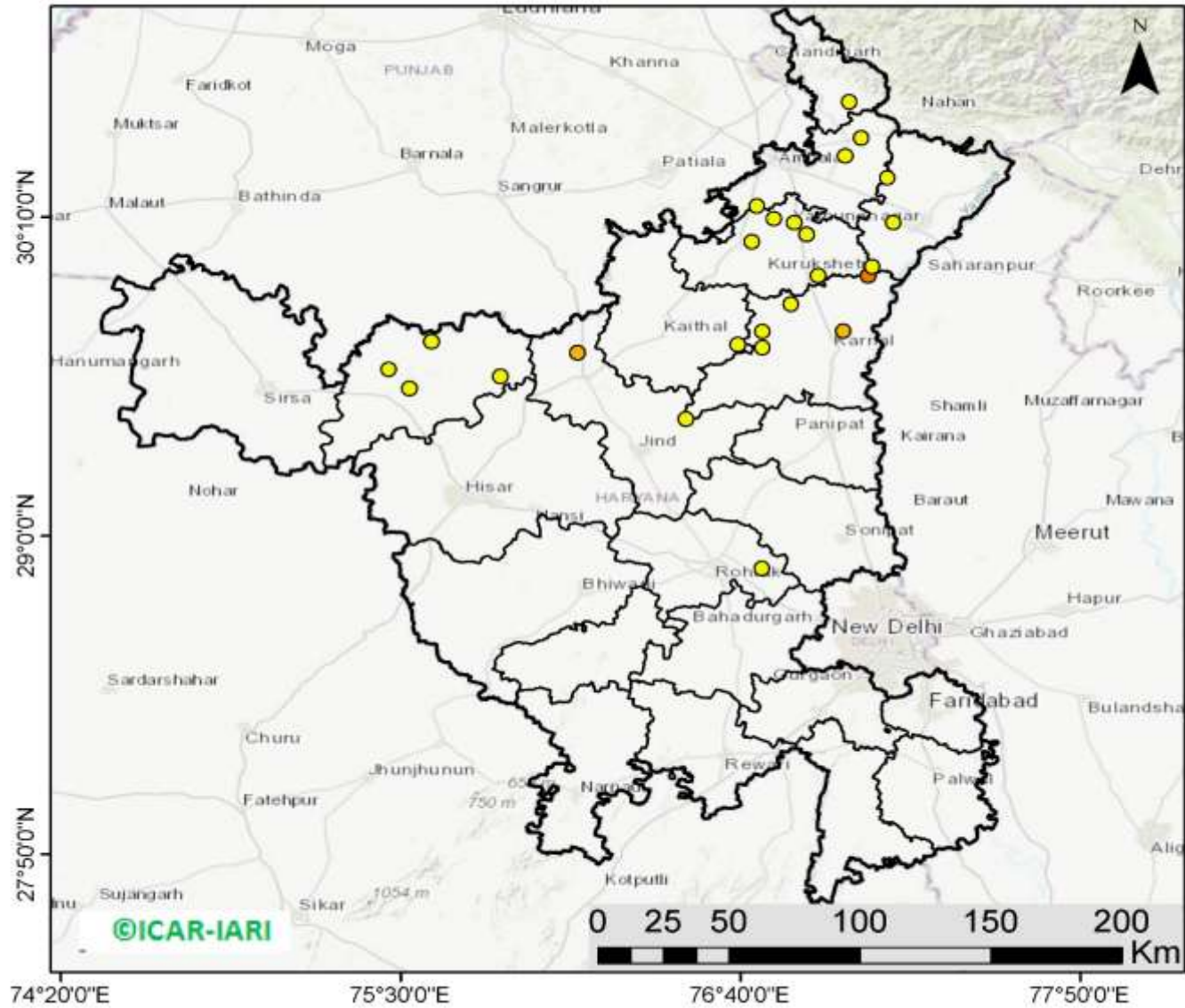
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

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



(b) Haryana

RICE RESIDUE BURNING IN HARYANA



25 burning events detected in Haryana on 01st October 2020

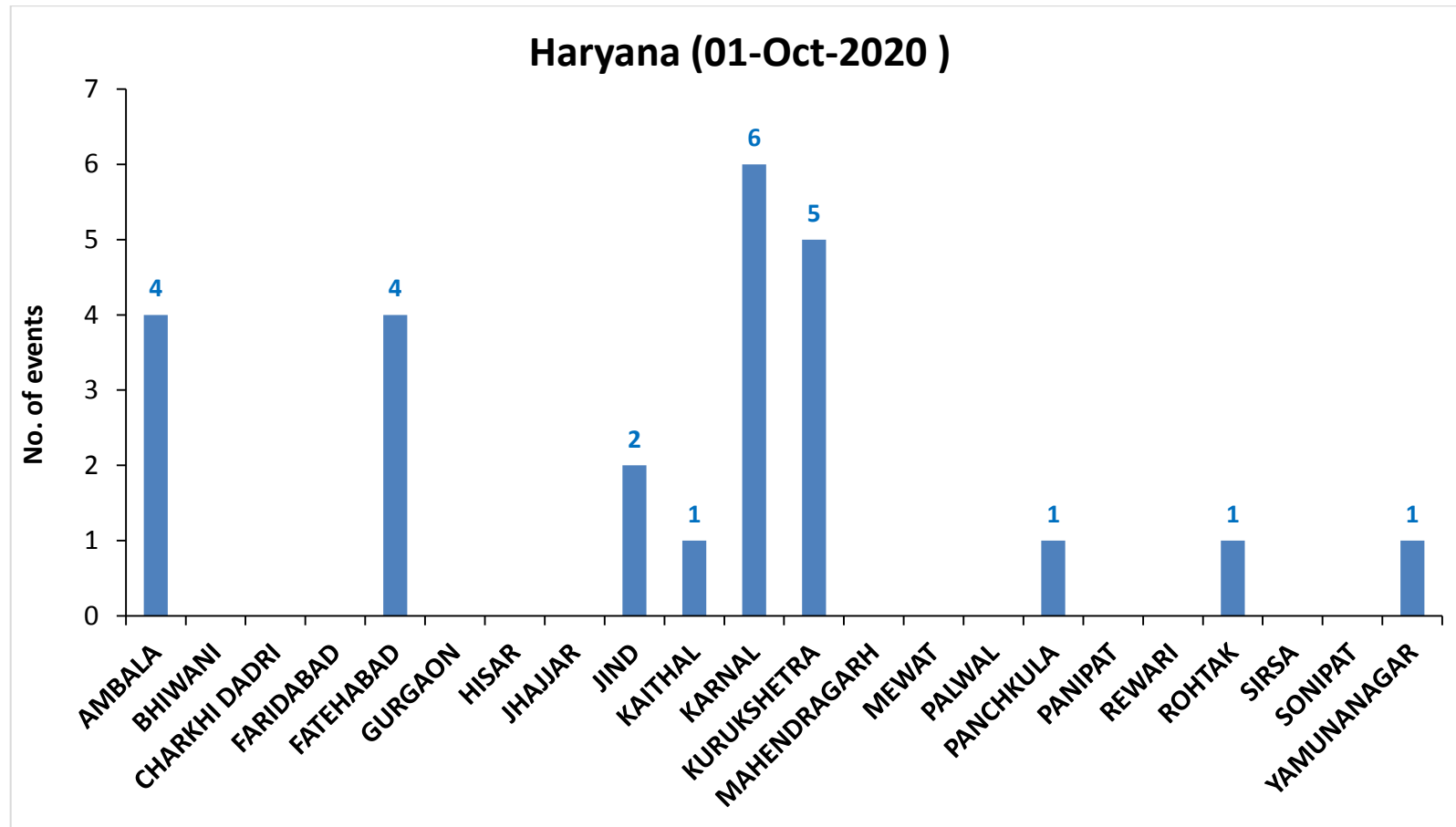
Fire Intensity (W/m²)

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



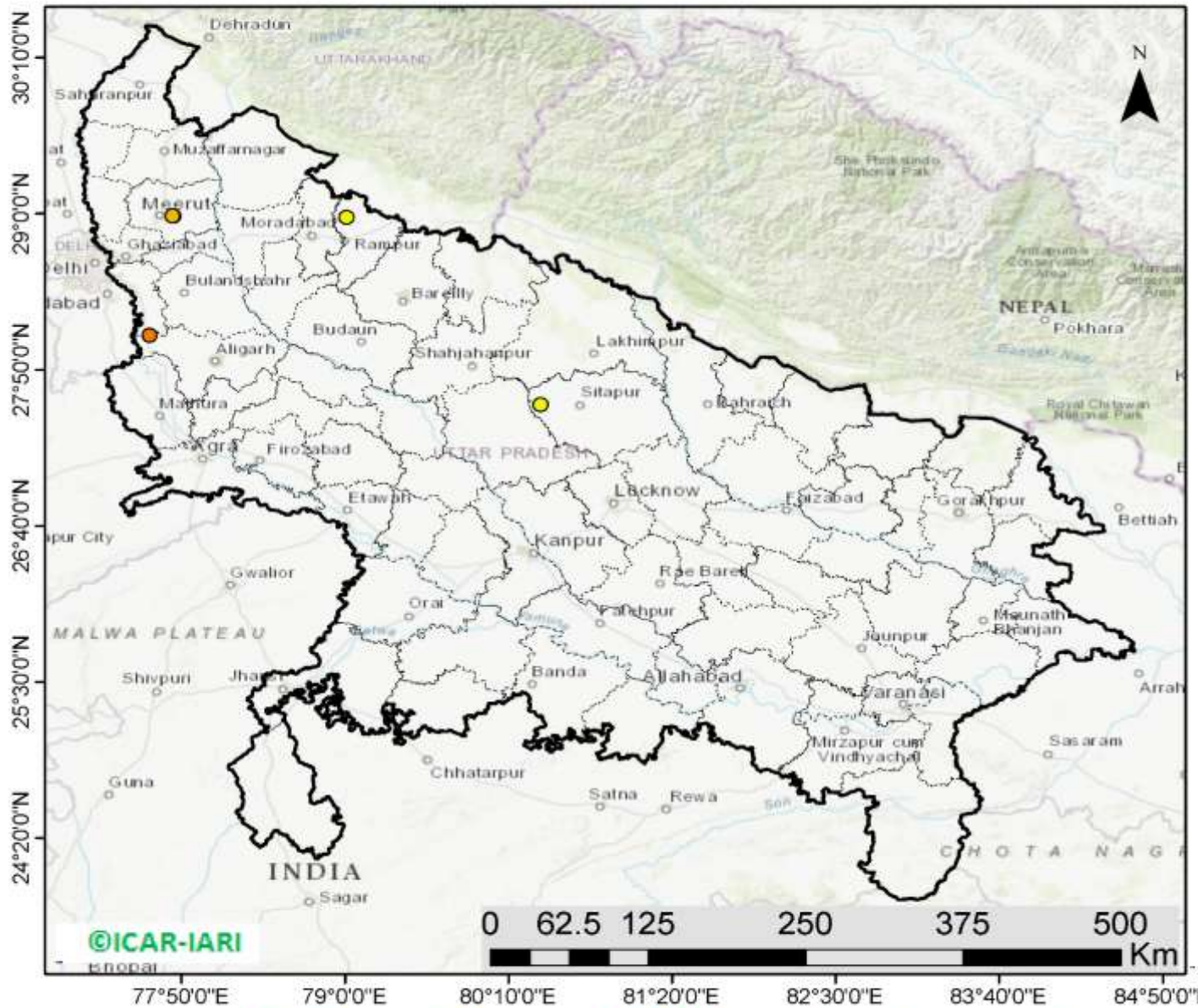
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

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



(c) Uttar Pradesh

RICE RESIDUE BURNING IN UTTAR PRADESH



05 burning events detected in Uttar Pradesh on 01st October 2020

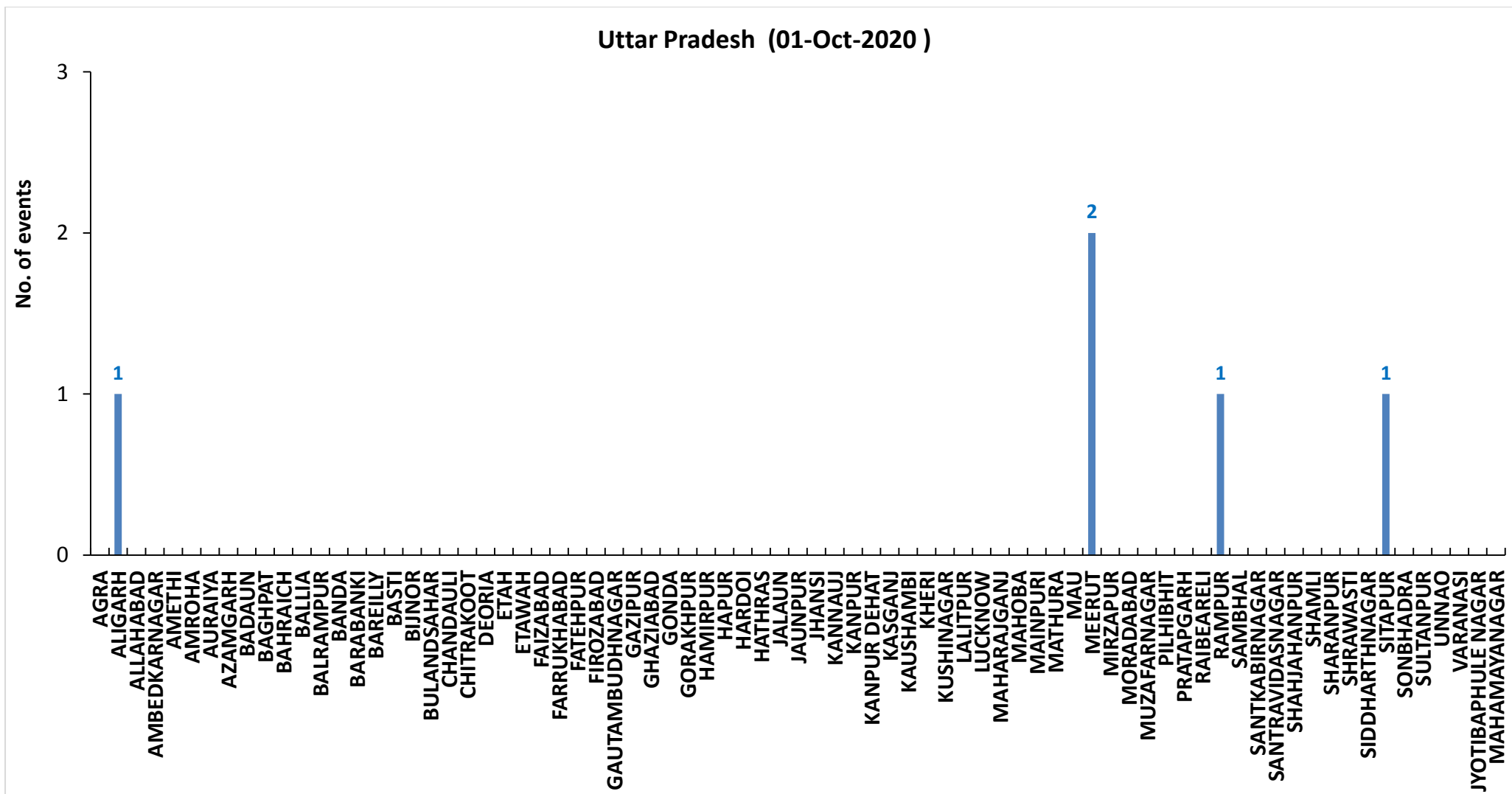
Fire Intensity (W/m²)

- 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-Oct-2020)



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

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

(a) Punjab

Districts	01-Oct				
	2016	2017	2018	2019	2020
AMRITSAR	48	36	11	2	54
BARNALA	0	0	0	0	0
BATHINDA	3	0	0	0	0
FARIDKOT	2	0	0	0	1
FATEHGARH SAHIB	0	0	2	0	5
FAZILKA	0	0	0	0	0
FIROZPUR	7	0	1	0	5
GURDASPUR	0	0	0	0	17
HOSHIARPUR	0	0	1	0	0
JALANDHAR	5	0	0	0	2
KAPURTHALA	4	0	0	0	1
LUDHIANA	8	0	0	0	4
MANSA	2	0	0	0	0
MOGA	0	0	0	0	1
MUKTSAR	0	0	0	0	0
NAWASHAHR	0	0	1	0	0
PATHANKOT	0	0	0	0	0
PATIALA	2	0	0	0	7
RUPNAGAR	0	0	0	0	0
SANGRUR	2	1	0	0	3
SAS NAGAR	0	0	0	0	4
TARN TARAN	26	17	0	1	25
Total	109	54	16	3	129

(b) Haryana

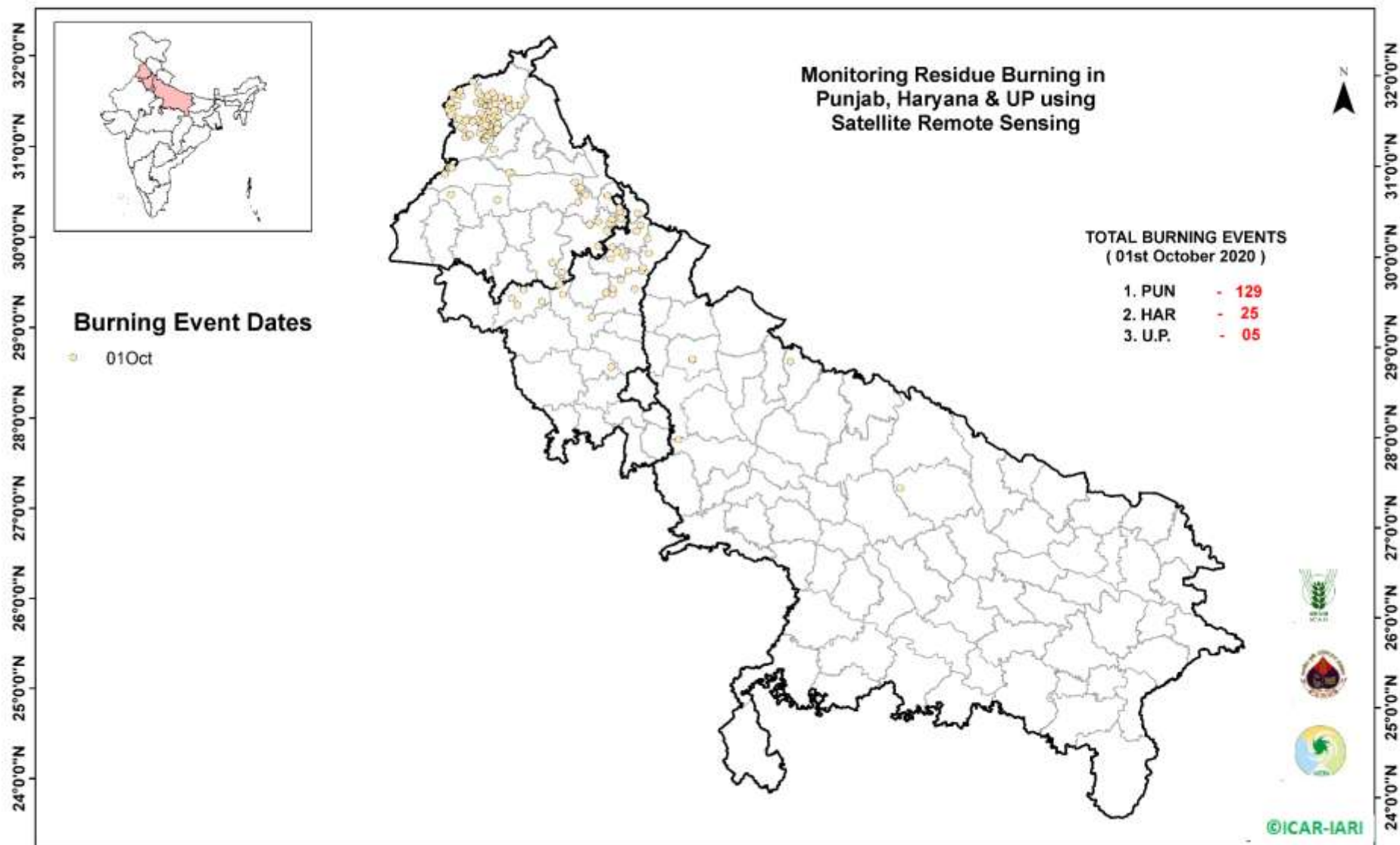
Districts	01-Oct				
	2016	2017	2018	2019	2020
AMBALA	2	0	2	0	4
BHIWANI	0	0	0	0	0
CHARKHI DADRI	0	0	0	0	0
FARIDABAD	0	0	0	0	0
FATEHABAD	1	4	0	1	4
GURGAON	0	0	0	0	0
HISAR	0	0	1	0	0
JHAJJAR	0	0	0	0	0
JIND	2	0	0	0	2
KAITHAL	7	0	0	0	1
KARNAL	18	3	1	0	6
KURUKSHETRA	13	5	3	0	5
MAHENDRAGARH	0	0	0	0	0
MEWAT	0	0	0	0	0
PALWAL	0	0	0	0	0
PANCHKULA	0	0	0	0	1
PANIPAT	1	0	1	0	0
REWARI	0	0	0	0	0
ROHTAK	0	0	0	0	1
SIRSA	0	0	0	0	0
SONIPAT	0	0	0	0	0
YAMUNANAGAR	2	1	1	0	1
Total	46	13	9	1	25

(C)

Uttar Pradesh

Districts	01-Oct																
	2016	2017	2018	2019	2020	GAUTAMBUDHNAGAR	0	0	0	0	0	PILHIBHIT	1	0	0	0	0
AGRA	0	0	0	0	0	GAZIPUR	0	0	0	0	0	PRATAPGARH	0	0	0	0	0
ALIGARH	0	0	0	0	1	GHAZIABAD	0	0	0	0	0	RAE BARELI	0	0	0	0	0
ALLAHABAD	0	0	0	0	0	GONDA	0	0	0	0	0	RAMPUR	11	0	0	0	1
AMBEDKARNAGAR	0	0	0	0	0	GORAKHPUR	0	0	1	0	0	SHARANPUR	0	0	0	0	0
AMETHI	0	0	0	0	0	HAMIRPUR	0	0	0	0	0	SAMBHAL	0	0	0	0	0
AMROHA	0	0	0	0	0	HAPUR	0	0	0	0	0	SANTKABIRNAGAR	0	0	0	0	0
AURAIYA	0	0	1	0	0	HARDOI	0	0	0	0	0	SHAHJAHANPUR	7	1	4	0	0
AZAMGARH	0	0	0	0	0	HATHRAS	0	0	0	0	0	SHAMALI	0	0	0	0	0
BADAUN	0	0	0	0	0	JALAUN	0	0	0	0	0	SHRAWASTI	0	0	0	0	0
BAGHPAT	0	0	0	0	0	JAUNPUR	0	0	0	0	0	SIDDHARTHANAGAR	0	0	0	0	0
BAHRAICH	0	0	0	0	0	JHANSI	0	0	0	0	0	SITAPUR	0	0	0	0	0
BALLIA	0	0	0	0	0	KANNAUJ	0	0	0	0	0	SONBHADRA	0	0	0	0	1
BALRAMPUR	0	0	0	0	0	KANPUR	0	0	0	0	0	SULTANPUR	0	1	1	0	0
BANDA	0	0	0	0	0	KANPUR DEHAT	0	0	0	0	0	UNNAO	0	0	0	0	0
BARABANKI	1	0	1	0	0	KASGANJ	0	0	0	0	0	VARANASI	0	0	0	0	0
BAREILLY	1	0	0	0	0	KAUSHAMBI	0	0	0	0	0	JYOTIBAPHULE NAGAR	0	0	0	0	0
BASTI	0	0	0	0	0	KHERI	0	0	0	0	0	MAHAMAYANAGAR	0	0	0	0	0
BHADOHI	0	0	0	0	0	KUSHINAGAR	0	0	0	0	0	Total	23	2	11	1	5
BIJNOR	0	0	0	0	0	LALITPUR	0	0	0	0	0						
BULANDSAHAR	0	0	0	0	0	LUCKNOW	0	0	0	0	0						
CHANDAUJI	0	0	0	0	0	MAHARAJGANJ	0	0	0	0	0						
CHITRAKOOT	0	0	0	0	0	MAHABA	0	0	0	0	0						
DEORIA	0	0	0	0	0	MAINPURI	0	0	0	0	0						
ETAH	0	0	0	0	0	MATHURA	0	0	3	0	0						
ETAWAH	0	0	0	0	0	MAU	0	0	0	0	0						
FAIZABAD	0	0	0	0	0	MEERUT	0	0	0	0	2						
FARRUKHABAD	0	0	0	0	0	MIRZAPUR	0	0	0	0	0						
FATEHPUR	0	0	0	0	0	MORADABAD	0	0	0	1	0						
FIROZABAD	0	0	0	0	0	MUZAFARNAGAR	2	0	0	0	0						

Map of Cumulative Burning Events (01 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 01-Oct-2020

S. No.	District	Block	Satellite	Longitude	Latitude	Time (IST)	Day / Night	Fire Power (W/m ²)
1	AMRITSAR	AJNALA	S-NPP	74.62170	31.63750	13:30:00	D	1.80
2	AMRITSAR	AJNALA	S-NPP	74.55582	31.67151	13:30:00	D	4.60
3	AMRITSAR	AJNALA	S-NPP	74.67905	31.72151	13:30:00	D	5.20
4	AMRITSAR	AJNALA	S-NPP	74.56477	31.72753	13:30:00	D	3.40
5	AMRITSAR	AJNALA	S-NPP	74.59135	31.74450	13:30:00	D	5.70
6	AMRITSAR	AJNALA	S-NPP	74.59064	31.74780	13:30:00	D	4.00
7	AMRITSAR	AJNALA	S-NPP	74.72444	31.82667	13:30:00	D	4.40
8	AMRITSAR	AJNALA	AQUA	74.63100	31.84100	14:05:00	D	15.60
9	AMRITSAR	AJNALA	S-NPP	74.67094	31.84220	13:30:00	D	4.00
10	AMRITSAR	AJNALA	S-NPP	74.60312	31.84826	13:30:00	D	5.10
11	AMRITSAR	AJNALA	S-NPP	74.70493	31.88122	13:30:00	D	4.50
12	AMRITSAR	AJNALA	S-NPP	74.86212	31.98729	13:30:00	D	2.20
13	AMRITSAR	AMRITSAR I	S-NPP	75.04974	31.52119	13:30:00	D	3.40
14	AMRITSAR	AMRITSAR I	S-NPP	75.00198	31.53086	13:30:00	D	5.90
15	AMRITSAR	AMRITSAR I	S-NPP	75.05975	31.53293	13:30:00	D	9.20
16	AMRITSAR	AMRITSAR I	S-NPP	75.04698	31.53437	13:30:00	D	4.60
17	AMRITSAR	AMRITSAR I	S-NPP	75.06309	31.53684	13:30:00	D	6.00
18	AMRITSAR	AMRITSAR I	S-NPP	75.06712	31.53746	13:30:00	D	18.60
19	AMRITSAR	AMRITSAR I	S-NPP	75.07115	31.53808	13:30:00	D	18.60
20	AMRITSAR	AMRITSAR I	S-NPP	74.99854	31.54734	13:30:00	D	2.30
21	AMRITSAR	AMRITSAR I	AQUA	75.06600	31.56700	14:05:00	D	12.70
22	AMRITSAR	AMRITSAR I	S-NPP	75.03486	31.59310	13:30:00	D	2.20
23	AMRITSAR	AMRITSAR I	S-NPP	75.08862	31.59455	13:30:00	D	5.50
24	AMRITSAR	AMRITSAR I	AQUA	75.00100	31.62700	14:05:00	D	16.00
25	AMRITSAR	AMRITSAR I	AQUA	75.01800	31.62900	14:05:00	D	30.80
26	AMRITSAR	AMRITSAR I	S-NPP	74.97475	31.64170	13:30:00	D	5.60
27	AMRITSAR	AMRITSAR I	S-NPP	75.03943	31.73299	13:30:00	D	3.20
28	AMRITSAR	AMRITSAR I	S-NPP	75.02594	31.73772	13:30:00	D	4.20
29	AMRITSAR	AMRITSAR I	S-NPP	74.97002	31.74615	13:30:00	D	1.00
30	AMRITSAR	AMRITSAR I	S-NPP	74.93023	31.75704	13:30:00	D	6.90

31	AMRITSAR	AMRITSAR I	S-NPP	75.00220	31.77151	13:30:00	D	1.80
32	AMRITSAR	AMRITSAR I	S-NPP	75.01698	31.78058	13:30:00	D	3.60
33	AMRITSAR	AMRITSAR I	AQUA	74.98400	31.78500	14:05:00	D	29.10
34	AMRITSAR	AMRITSAR I	S-NPP	75.06809	31.79520	13:30:00	D	3.10
35	AMRITSAR	AMRITSAR I	S-NPP	75.07616	31.79644	13:30:00	D	3.00
36	AMRITSAR	AMRITSAR I	S-NPP	75.01646	31.80710	13:30:00	D	2.10
37	AMRITSAR	AMRITSAR II	S-NPP	74.82391	31.56729	13:30:00	D	5.90
38	AMRITSAR	AMRITSAR II	S-NPP	74.70123	31.57541	13:30:00	D	15.20
39	AMRITSAR	AMRITSAR II	S-NPP	74.93340	31.58086	13:30:00	D	8.80
40	AMRITSAR	AMRITSAR II	S-NPP	74.81973	31.58707	13:30:00	D	3.10
41	AMRITSAR	AMRITSAR II	S-NPP	74.59573	31.60987	02:12:00	N	0.90
42	AMRITSAR	BABA BAKALA	AQUA	75.11500	31.51400	14:05:00	D	17.80
43	AMRITSAR	BABA BAKALA	S-NPP	75.20015	31.51700	13:30:00	D	17.20
44	AMRITSAR	BABA BAKALA	S-NPP	75.19947	31.52029	13:30:00	D	17.20
45	AMRITSAR	BABA BAKALA	S-NPP	75.20213	31.52750	13:30:00	D	1.90
46	AMRITSAR	BABA BAKALA	S-NPP	75.19113	31.60064	13:30:00	D	5.90
47	AMRITSAR	BABA BAKALA	AQUA	75.18400	31.60200	14:05:00	D	23.90
48	AMRITSAR	BABA BAKALA	S-NPP	75.11477	31.60875	13:30:00	D	3.30
49	AMRITSAR	BABA BAKALA	S-NPP	75.21284	31.61691	13:30:00	D	5.20
50	AMRITSAR	BABA BAKALA	S-NPP	75.14555	31.64066	13:30:00	D	6.90
51	AMRITSAR	BABA BAKALA	S-NPP	75.09435	31.66685	13:30:00	D	5.10
52	AMRITSAR	BABA BAKALA	S-NPP	75.18778	31.67771	13:30:00	D	3.50
53	AMRITSAR	BABA BAKALA	S-NPP	75.19182	31.67832	13:30:00	D	3.50
54	AMRITSAR	BABA BAKALA	S-NPP	75.15681	31.68659	13:30:00	D	3.00
55	FARIDKOT	FARIDKOT	S-NPP	74.63388	30.73428	13:30:00	D	3.90
56	FATEHGARH SAHIB	FATEHGARH SAHIB	S-NPP	76.43021	30.44848	13:30:00	D	2.80
57	FATEHGARH SAHIB	FATEHGARH SAHIB	S-NPP	76.42956	30.45179	13:30:00	D	2.80
58	FATEHGARH SAHIB	KHAMANOH	S-NPP	76.36417	30.77679	13:30:00	D	2.50
59	FATEHGARH SAHIB	KHAMANOH	S-NPP	76.29717	30.82424	13:30:00	D	4.20
60	FATEHGARH SAHIB	KHAMANOH	S-NPP	76.31335	30.82659	13:30:00	D	9.20
61	FIROZPUR	FIROZPUR	S-NPP	74.54207	30.95724	13:30:00	D	6.10
62	FIROZPUR	FIROZPUR	S-NPP	74.54611	30.95787	13:30:00	D	7.00
63	FIROZPUR	FIROZPUR	S-NPP	74.59866	31.02703	13:30:00	D	2.80

64	FIROZPUR	FIROZPUR	S-NPP	74.63165	31.02883	13:30:00	D	45.00
65	FIROZPUR	FIROZPUR	S-NPP	74.63569	31.02947	13:30:00	D	45.00
66	GURDASPUR	BATALA	S-NPP	75.36393	31.71119	13:30:00	D	3.00
67	GURDASPUR	BATALA	S-NPP	75.34644	31.71535	13:30:00	D	1.60
68	GURDASPUR	BATALA	S-NPP	75.46152	31.74287	13:30:00	D	2.30
69	GURDASPUR	BATALA	S-NPP	75.41505	31.74609	13:30:00	D	2.70
70	GURDASPUR	BATALA	S-NPP	75.16453	31.75210	13:30:00	D	3.40
71	GURDASPUR	BATALA	S-NPP	75.29502	31.78549	13:30:00	D	2.90
72	GURDASPUR	BATALA	S-NPP	75.33607	31.80868	13:30:00	D	4.10
73	GURDASPUR	BATALA	S-NPP	75.04945	31.80875	13:30:00	D	3.70
74	GURDASPUR	BATALA	S-NPP	75.33539	31.81198	13:30:00	D	4.10
75	GURDASPUR	BATALA	S-NPP	75.23633	31.82761	13:30:00	D	5.60
76	GURDASPUR	BATALA	S-NPP	75.15781	31.82868	13:30:00	D	2.40
77	GURDASPUR	BATALA	S-NPP	75.23565	31.83090	13:30:00	D	5.60
78	GURDASPUR	BATALA	S-NPP	75.06818	31.83883	13:30:00	D	2.60
79	GURDASPUR	BATALA	S-NPP	74.96777	31.84045	13:30:00	D	1.10
80	GURDASPUR	BATALA	S-NPP	75.12396	31.87114	13:30:00	D	1.60
81	GURDASPUR	BATALA	S-NPP	74.93994	31.87361	13:30:00	D	2.90
82	GURDASPUR	GURDASPUR	S-NPP	75.54768	31.83360	13:30:00	D	7.10
83	JALANDHAR	NAKODAR	S-NPP	75.40446	30.99578	13:30:00	D	2.90
84	JALANDHAR	SHAHKOT	S-NPP	75.37441	31.00141	13:30:00	D	2.40
85	KAPURTHALA	SULTANPUR LODHI	S-NPP	75.16648	31.25094	13:30:00	D	3.00
86	LUDHIANA	KHANNA	S-NPP	76.26732	30.69793	13:30:00	D	2.30
87	LUDHIANA	SAMRALA	S-NPP	76.27115	30.85116	13:30:00	D	6.70
88	LUDHIANA	SAMRALA	S-NPP	76.29946	30.85528	13:30:00	D	2.20
89	LUDHIANA	SAMRALA	S-NPP	76.22168	30.91440	13:30:00	D	3.30
90	MOGA	NIHAL SINGH WALA	S-NPP	75.23014	30.69189	13:30:00	D	5.00
91	PATIALA	PATIALA	S-NPP	76.54430	30.21791	13:30:00	D	2.70
92	PATIALA	RAJPURA	S-NPP	76.64886	30.38878	13:30:00	D	3.30
93	PATIALA	RAJPURA	S-NPP	76.70997	30.46484	13:30:00	D	6.90
94	PATIALA	RAJPURA	S-NPP	76.67960	30.47077	13:30:00	D	4.80
95	PATIALA	RAJPURA	S-NPP	76.53477	30.48754	13:30:00	D	8.50
96	PATIALA	RAJPURA	S-NPP	76.70392	30.51876	13:30:00	D	3.50

97	PATIALA	SAMANA	S-NPP	76.08813	29.91418	13:30:00	D	1.90
98	SANGRUR	MOONAK	S-NPP	76.05000	29.77361	13:30:00	D	5.50
99	SANGRUR	MOONAK	S-NPP	76.06456	29.78259	13:30:00	D	3.00
100	SANGRUR	SUNAM	S-NPP	75.96182	30.01702	13:30:00	D	3.10
101	SAS NAGAR	DERABASSI	S-NPP	76.83231	30.52684	13:30:00	D	4.40
102	SAS NAGAR	DERABASSI	S-NPP	76.81023	30.60072	13:30:00	D	4.40
103	SAS NAGAR	DERABASSI	S-NPP	76.80201	30.64417	13:30:00	D	2.90
104	SAS NAGAR	KHARAR	TERRA	76.64500	30.77700	10:50:00	D	13.70
105	TARN TARAN	KHADOOR SAHIB	S-NPP	75.02976	31.35219	13:30:00	D	10.90
106	TARN TARAN	KHADOOR SAHIB	S-NPP	75.04182	31.35405	13:30:00	D	4.50
107	TARN TARAN	KHADOOR SAHIB	S-NPP	75.04585	31.35467	13:30:00	D	7.00
108	TARN TARAN	KHADOOR SAHIB	S-NPP	74.79838	31.37012	13:30:00	D	20.90
109	TARN TARAN	KHADOOR SAHIB	AQUA	75.06800	31.39600	14:05:00	D	15.00
110	TARN TARAN	KHADOOR SAHIB	AQUA	75.08500	31.39800	14:05:00	D	23.10
111	TARN TARAN	KHADOOR SAHIB	S-NPP	74.84588	31.40137	13:30:00	D	2.50
112	TARN TARAN	KHADOOR SAHIB	S-NPP	74.84922	31.40529	13:30:00	D	2.50
113	TARN TARAN	KHADOOR SAHIB	S-NPP	75.15051	31.41434	13:30:00	D	4.30
114	TARN TARAN	KHADOOR SAHIB	S-NPP	74.97799	31.42525	13:30:00	D	5.00
115	TARN TARAN	KHADOOR SAHIB	S-NPP	75.16720	31.43391	13:30:00	D	4.20
116	TARN TARAN	KHADOOR SAHIB	S-NPP	75.16651	31.43720	13:30:00	D	4.70
117	TARN TARAN	KHADOOR SAHIB	S-NPP	75.11217	31.43909	13:30:00	D	5.20
118	TARN TARAN	KHADOOR SAHIB	S-NPP	75.13288	31.45927	13:30:00	D	10.20
119	TARN TARAN	KHADOOR SAHIB	S-NPP	75.17850	31.45944	13:30:00	D	6.20
120	TARN TARAN	KHADOOR SAHIB	S-NPP	74.76718	31.46039	13:30:00	D	7.10
121	TARN TARAN	KHADOOR SAHIB	S-NPP	75.20059	31.47302	13:30:00	D	2.10
122	TARN TARAN	KHADOOR SAHIB	S-NPP	75.10462	31.47535	13:30:00	D	2.80
123	TARN TARAN	KHADOOR SAHIB	S-NPP	74.73335	31.48237	13:30:00	D	1.10
124	TARN TARAN	KHADOOR SAHIB	S-NPP	74.99956	31.48284	13:30:00	D	2.00
125	TARN TARAN	KHADOOR SAHIB	AQUA	75.10000	31.50100	14:05:00	D	14.40
126	TARN TARAN	KHADOOR SAHIB	S-NPP	75.07468	31.50120	13:30:00	D	6.80
127	TARN TARAN	KHADOOR SAHIB	S-NPP	75.04237	31.51665	13:30:00	D	1.60
128	TARN TARAN	KHADOOR SAHIB	S-NPP	74.88222	31.54641	13:30:00	D	5.20
129	TARN TARAN	KHADOOR SAHIB	S-NPP	74.79232	31.55896	13:30:00	D	36.80

Details of residue burning events in Haryana on 01-Oct-2020

S. No.	District	Block	Satellite	Longitude	Latitude	Time (IST)	Day / Night	Fire Power (W/m ²)
1	AMBALA	AMBALA	S-NPP	76.72365	30.20720	13:30:00	D	4.90
2	AMBALA	BARARA	S-NPP	77.17148	30.31034	13:30:00	D	4.20
3	AMBALA	NARAYANGARH	S-NPP	77.02567	30.39089	13:30:00	D	2.00
4	AMBALA	NARAYANGARH	S-NPP	77.08098	30.45720	13:30:00	D	1.20
5	FATEHABAD	FATEHABAD	S-NPP	75.53044	29.53857	13:30:00	D	3.80
6	FATEHABAD	FATEHABAD	S-NPP	75.45946	29.60906	13:30:00	D	3.70
7	FATEHABAD	RATIA	S-NPP	75.60545	29.71024	02:12:00	N	1.00
8	FATEHABAD	TOHANA	S-NPP	75.84296	29.58292	13:30:00	D	1.90
9	JIND	JIND	S-NPP	76.47860	29.42722	13:30:00	D	1.80
10	JIND	NARWANA	S-NPP	76.10665	29.67017	13:30:00	D	5.70
11	KAITHAL	KAITHAL	S-NPP	76.65722	29.70018	13:30:00	D	0.90
12	KARNAL	INDRI	S-NPP	77.10471	29.95270	13:30:00	D	10.70
13	KARNAL	INDRI	S-NPP	77.11958	29.98574	13:30:00	D	2.60
14	KARNAL	KARNAL	S-NPP	76.74182	29.68850	13:30:00	D	1.10
15	KARNAL	KARNAL	S-NPP	76.74319	29.74677	13:30:00	D	1.50
16	KARNAL	KARNAL	S-NPP	77.02058	29.74885	13:30:00	D	7.90
17	KARNAL	NILOKHERI	S-NPP	76.84023	29.84858	13:30:00	D	2.60
18	KURUKSHETRA	SHAHABAD	S-NPP	76.85171	30.14678	13:30:00	D	2.60
19	KURUKSHETRA	SHAHABAD	S-NPP	76.78236	30.16087	13:30:00	D	3.50
20	KURUKSHETRA	THANESAR	S-NPP	76.93324	29.95253	13:30:00	D	2.10
21	KURUKSHETRA	THANESAR	S-NPP	76.70674	30.07629	13:30:00	D	3.20
22	KURUKSHETRA	THANESAR	S-NPP	76.89307	30.10305	13:30:00	D	2.10
23	PANCHKULA	PANCHKULA	S-NPP	77.04048	30.58838	13:30:00	D	2.30
24	ROHTAK	ROHTAK	S-NPP	76.74158	28.88058	02:12:00	N	0.70
25	YAMUNANAGAR	JAGADHRI	S-NPP	77.19186	30.14543	13:30:00	D	3.50

Details of residue burning events in Uttar Pradesh on 01-Oct-2020

S. No.	District	Block	Satellite	Longitude	Latitude	Time (IST)	Day / Night	Fire Power (W/m²)
1	ALIGARH	KHAIR	TERRA	77.60700	28.08900	10:50:00	D	13.50
2	MEERUT	MEERUT	S-NPP	77.77291	28.97978	13:30:00	D	2.30
3	MEERUT	MEERUT	S-NPP	77.77231	28.98317	13:30:00	D	8.30
4	RAMPUR	TANDA	S-NPP	79.01109	28.97198	13:30:00	D	3.80
5	SITAPUR	MISRIK	S-NPP	80.39445	27.57008	13:30:00	D	1.10

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 / 1000	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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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)
