



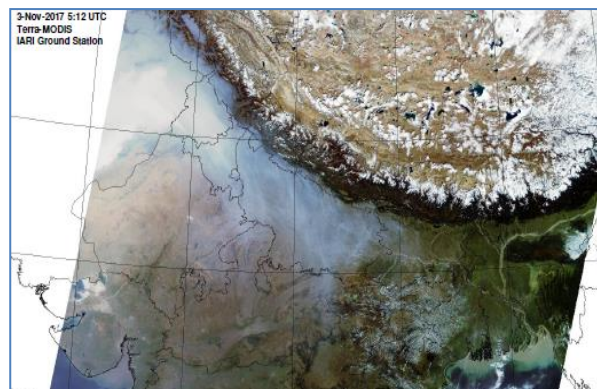
Bulletin No. 45

Events Date:
14-Nov-2020

Issued on:
15-Nov-2020



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



Prepared by:

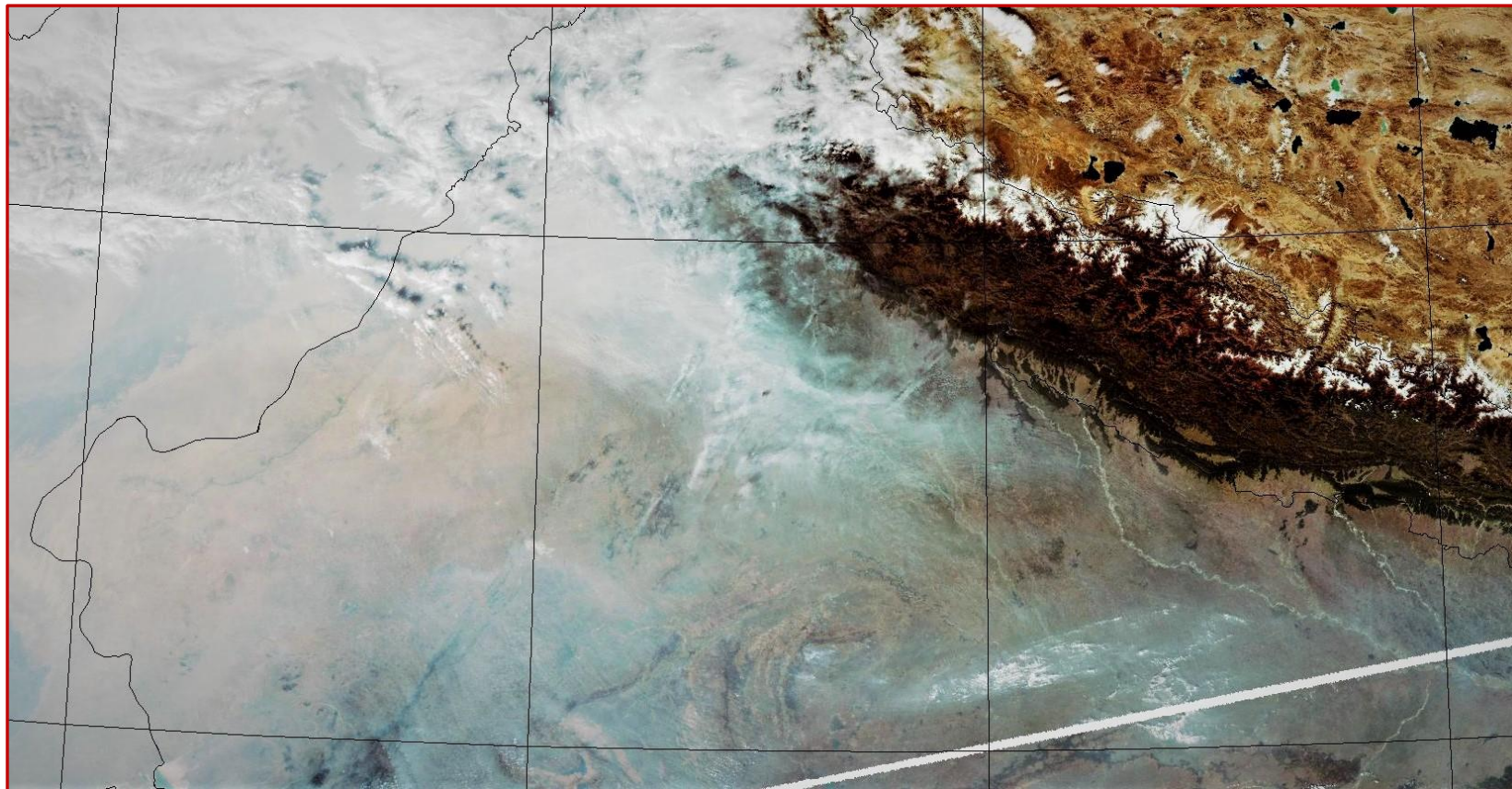
Consortium for Research on Agroecosystem Monitoring and Modeling from Space (CREAMS) Laboratory,
Division of Agricultural Physics, ICAR – Indian Agricultural Research Institute, New Delhi – 110012

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

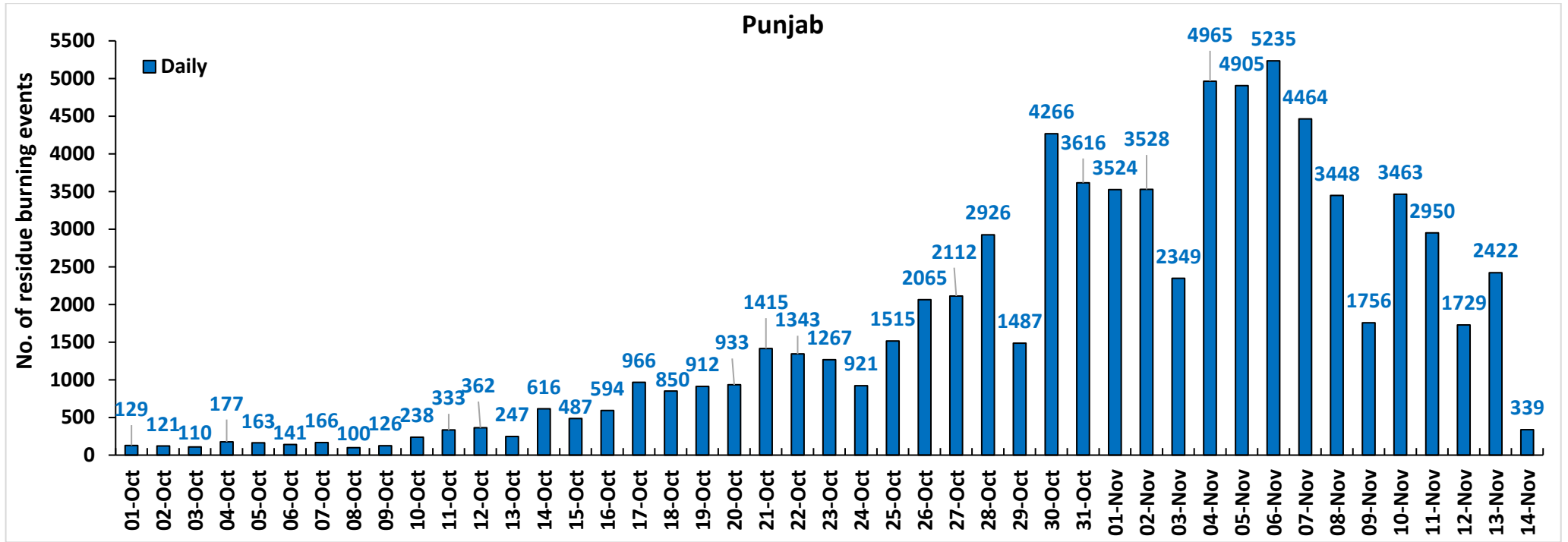
Highlights for 14-November-2020

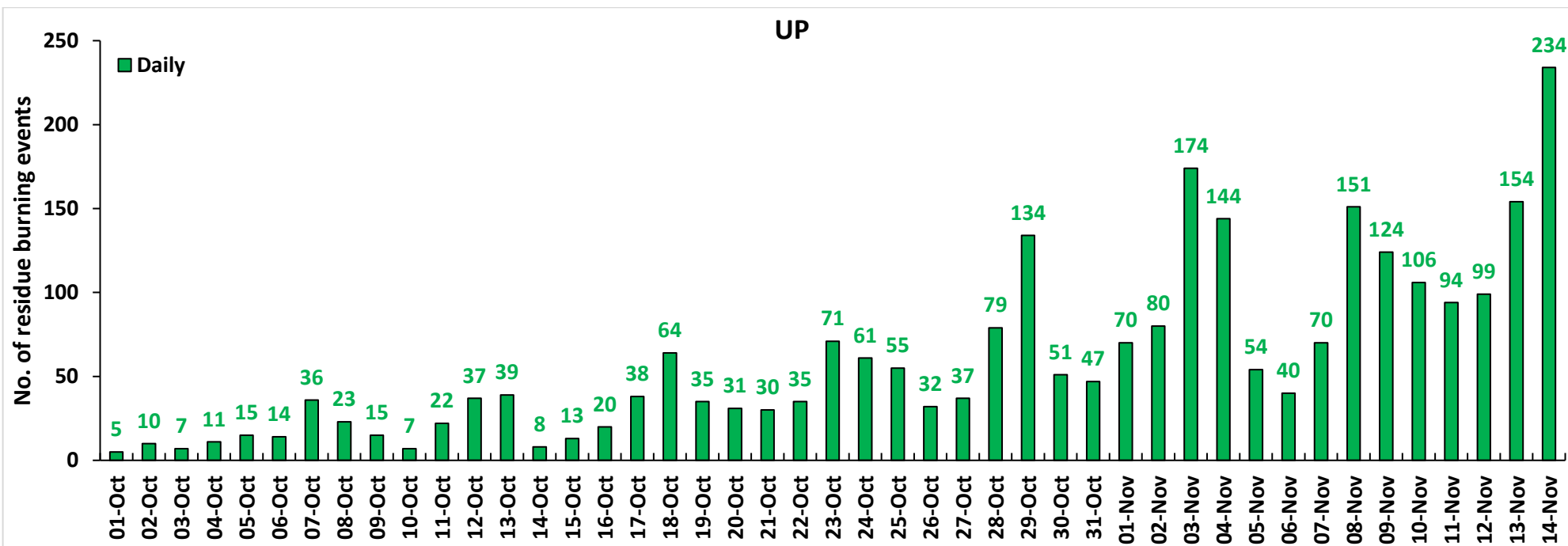
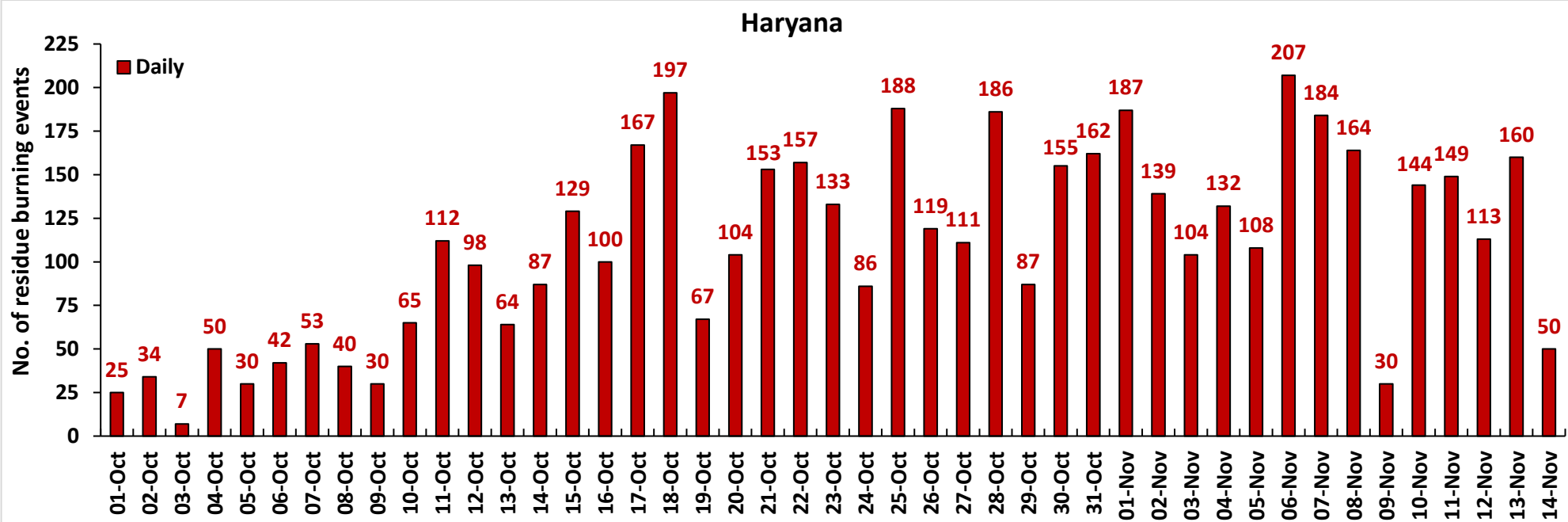
- Satellites detected **623** residue burning events in the three study States on **14-Nov-2020**.
- The state wise events detected on **14-Nov-2020** were **339** in Punjab, **50** in Haryana and **234** in UP.
- The number of events has decreased from **2736** on **13-Nov-2020** to **623** on **14-Nov-2020** in the three states.
- Bathinda in Punjab, Fatehabad in Haryana and Jhansi in UP reported the highest number of events on **14-Nov-2020**.
- Total **83366** burning events were detected in the three States between **01-Oct-2020** and **14-Nov-2020**, which are distributed as **75781**, **4909** and **2676** in Punjab, Haryana and UP, respectively.
- In Haryana and UP, the cumulative number of burning events between **01-Oct** and **14-Nov 2020** were lower than in **2019**, while in Punjab the cumulative number of events were more than in **2019**.

[SNPP \(VIIRS\) Satellite image of North India Acquired on 14-Nov-2020 at 13:06 IST by IARI Ground Station](#)



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

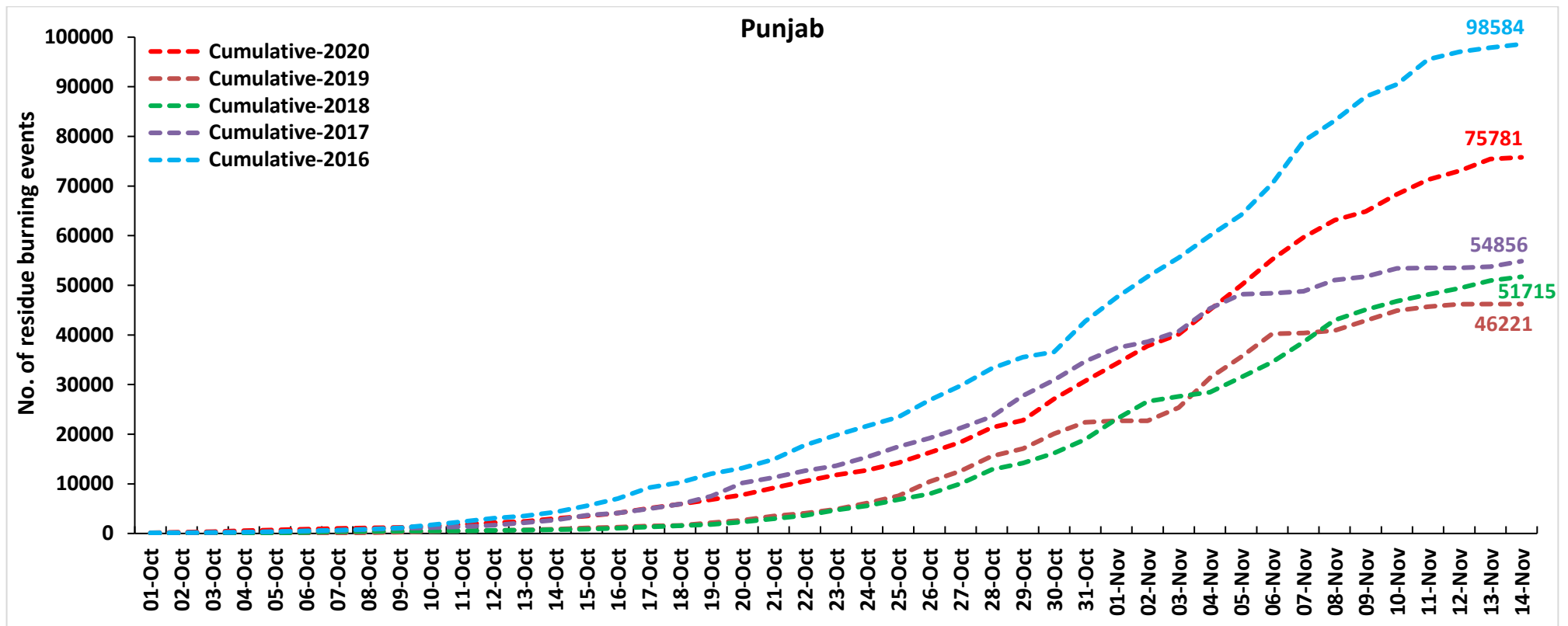




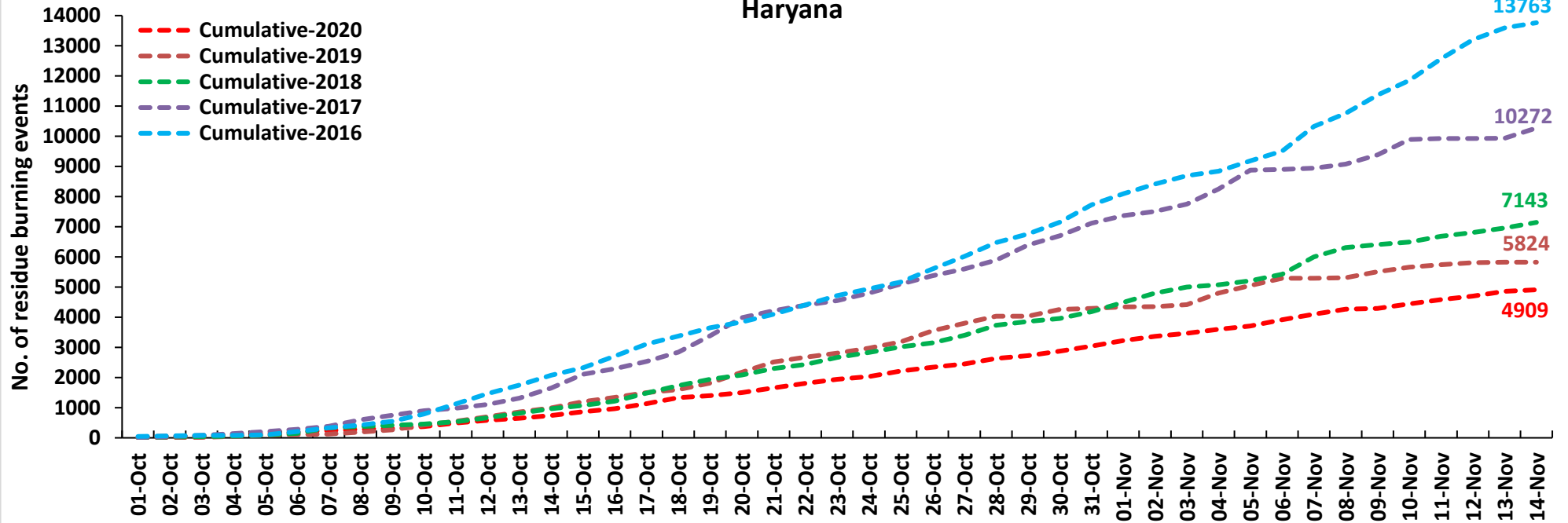
Comparison of residue burning events in current year (2020) with previous years (2019, 2018, 2017 & 2016) for the three study States

(01-Oct to 14-Nov)

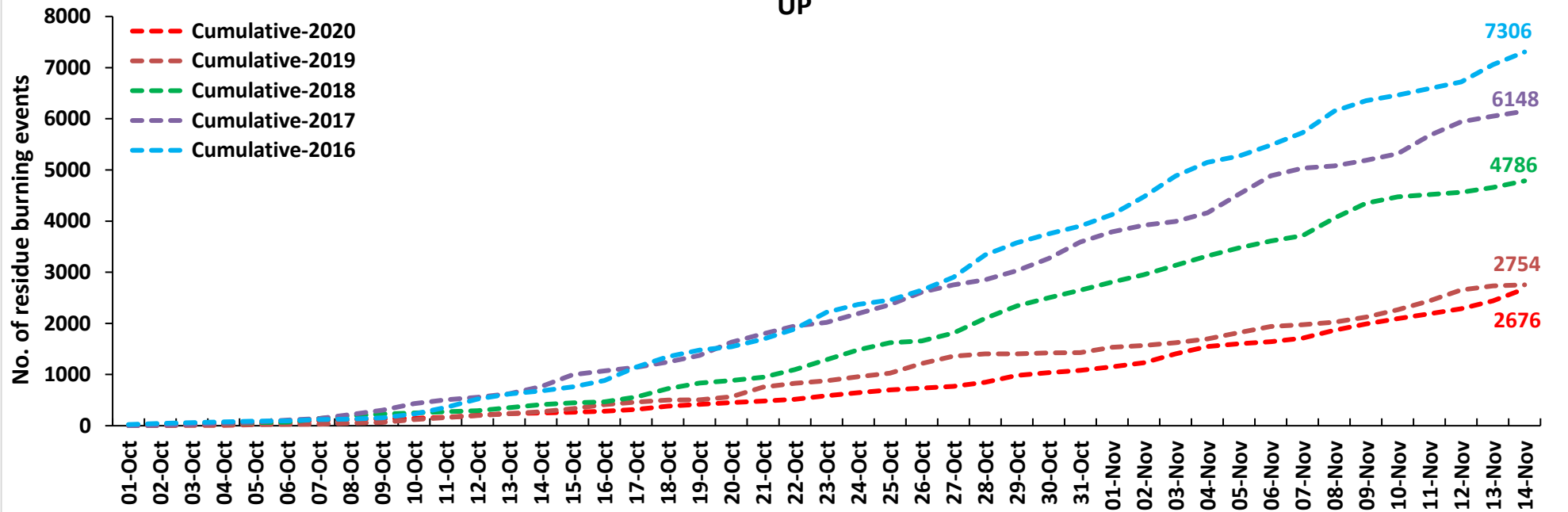
Punjab



Haryana

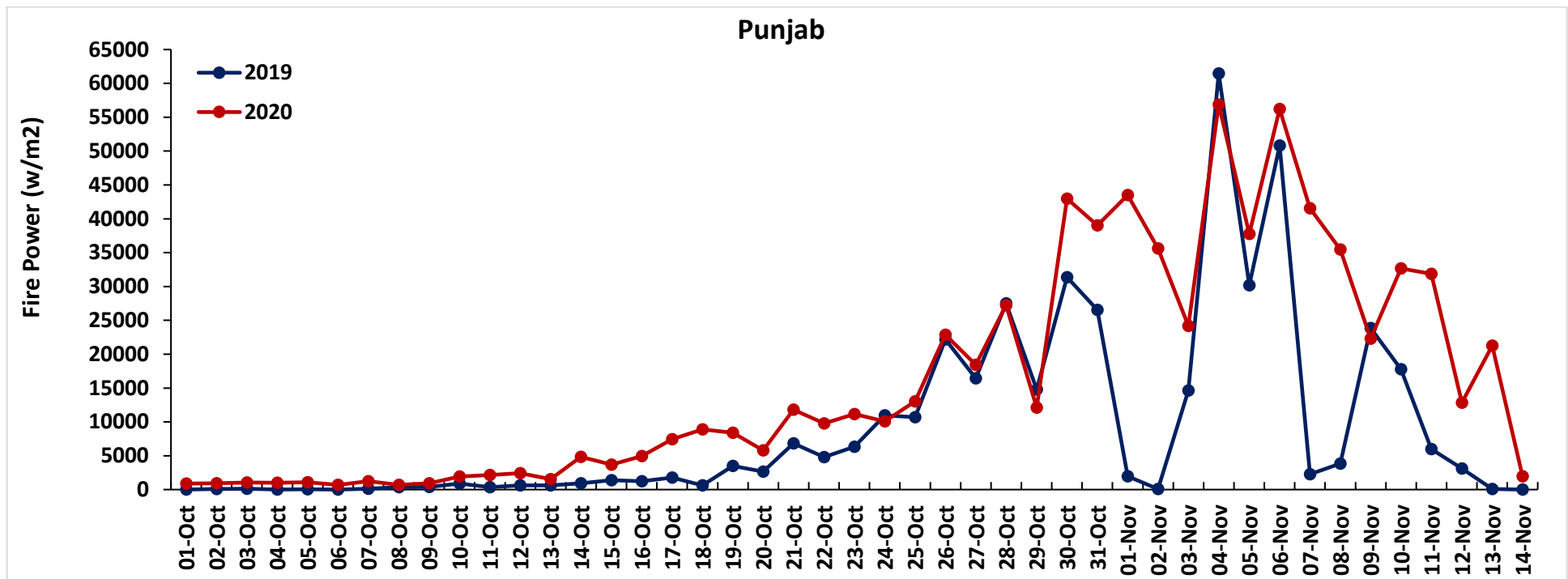


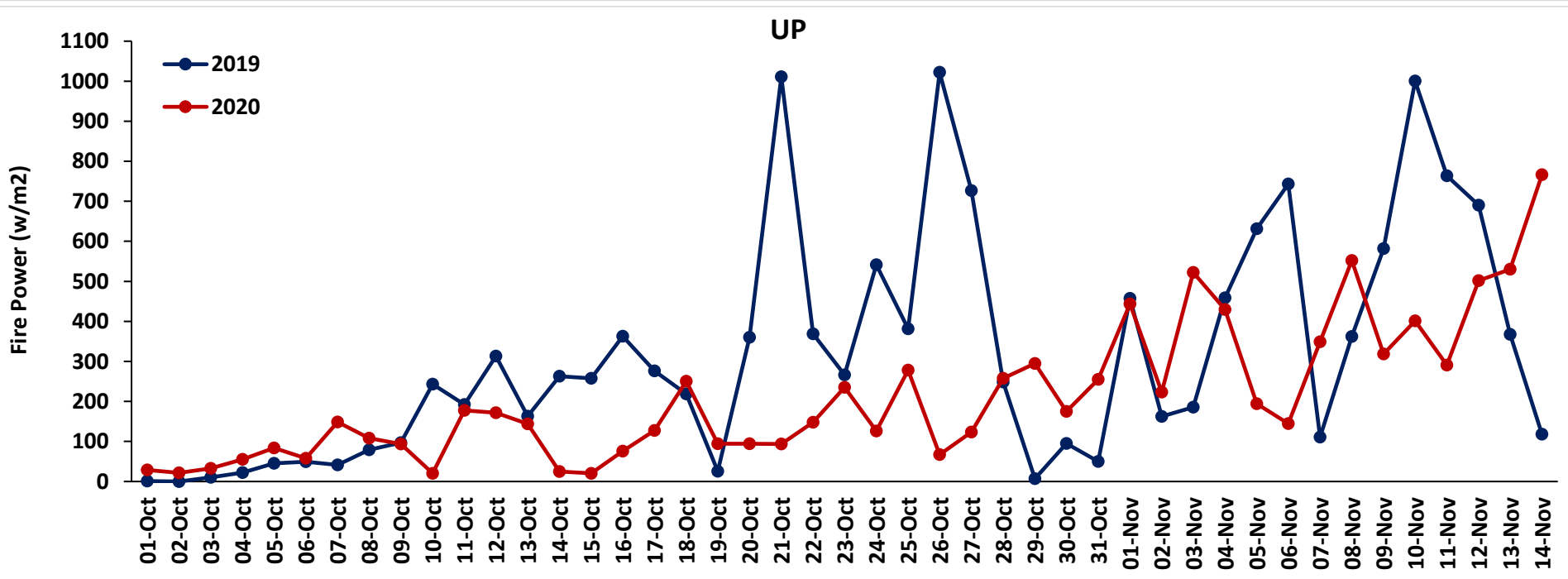
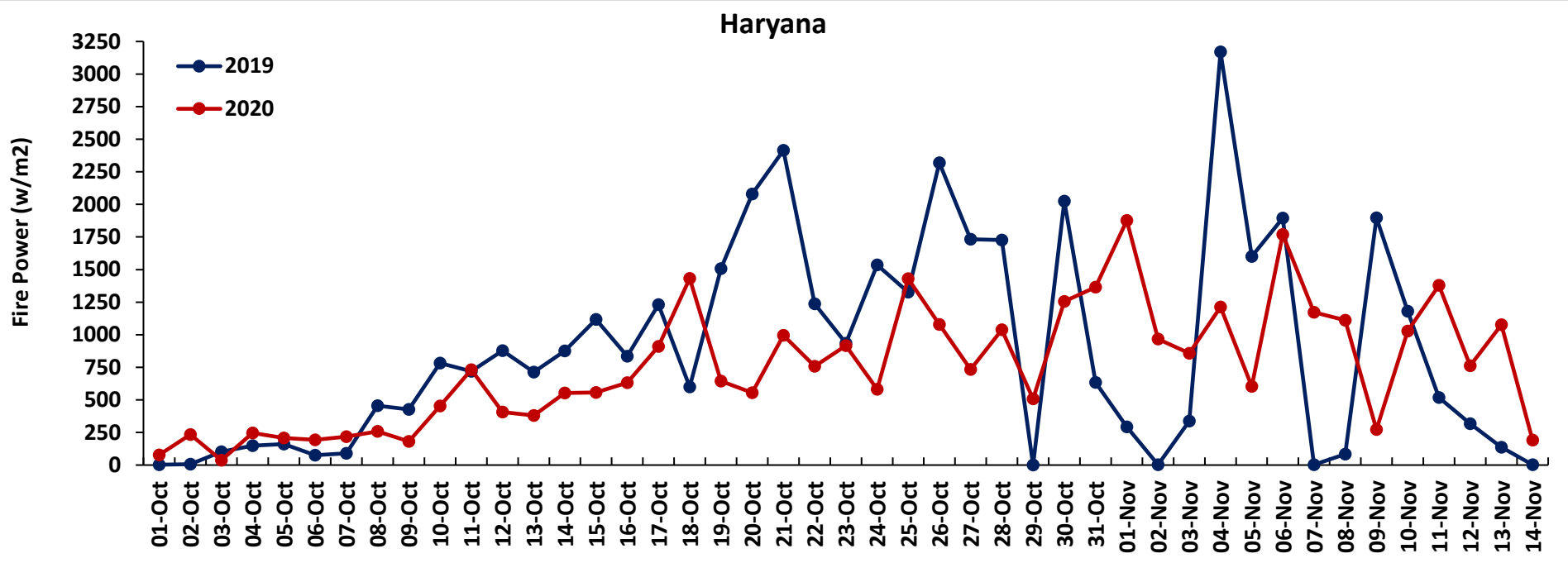
UP



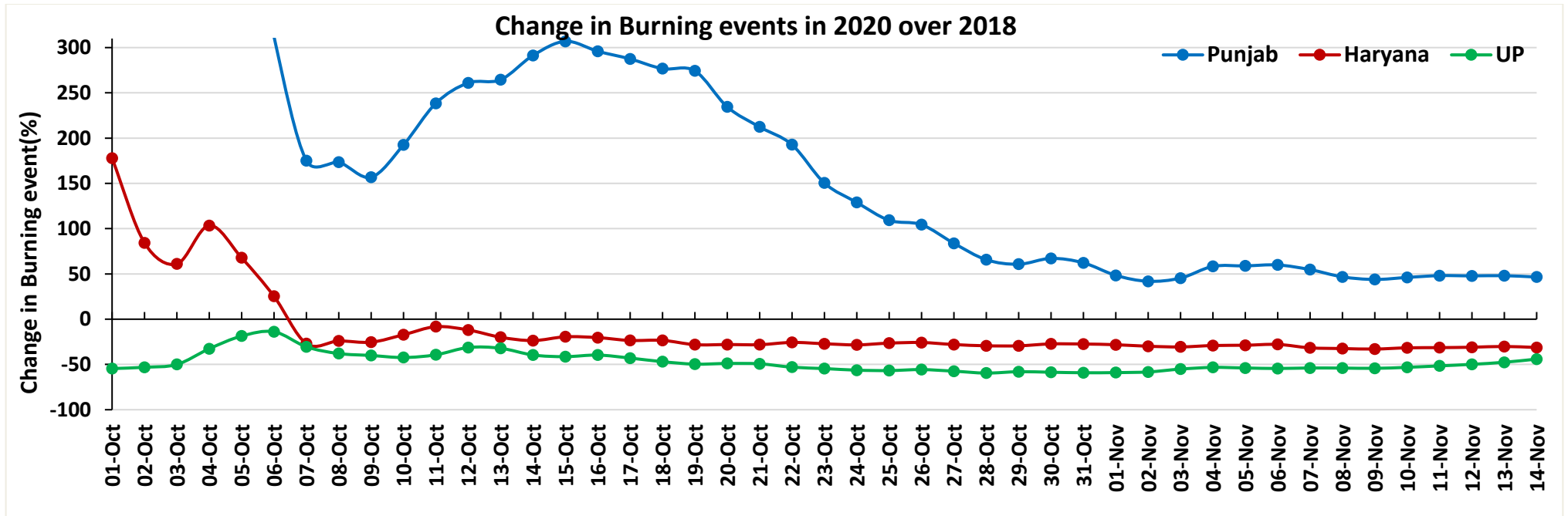
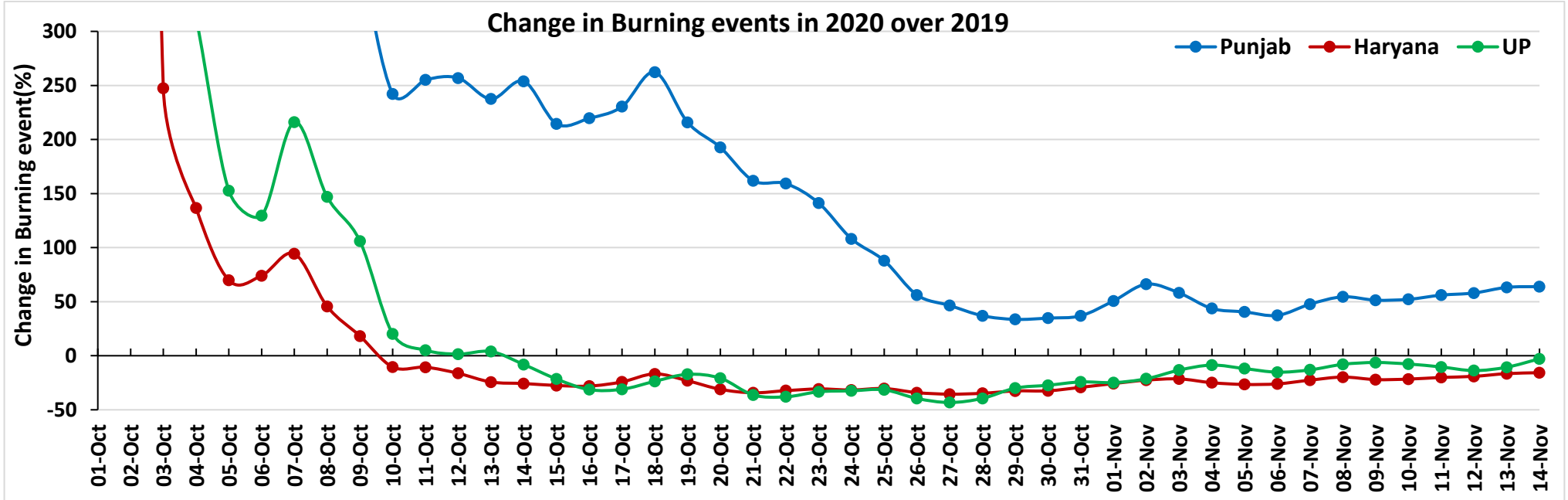
Comparison of Fire Intensity of residue burning events in current year (2020) with previous year (2019)
For the three study States

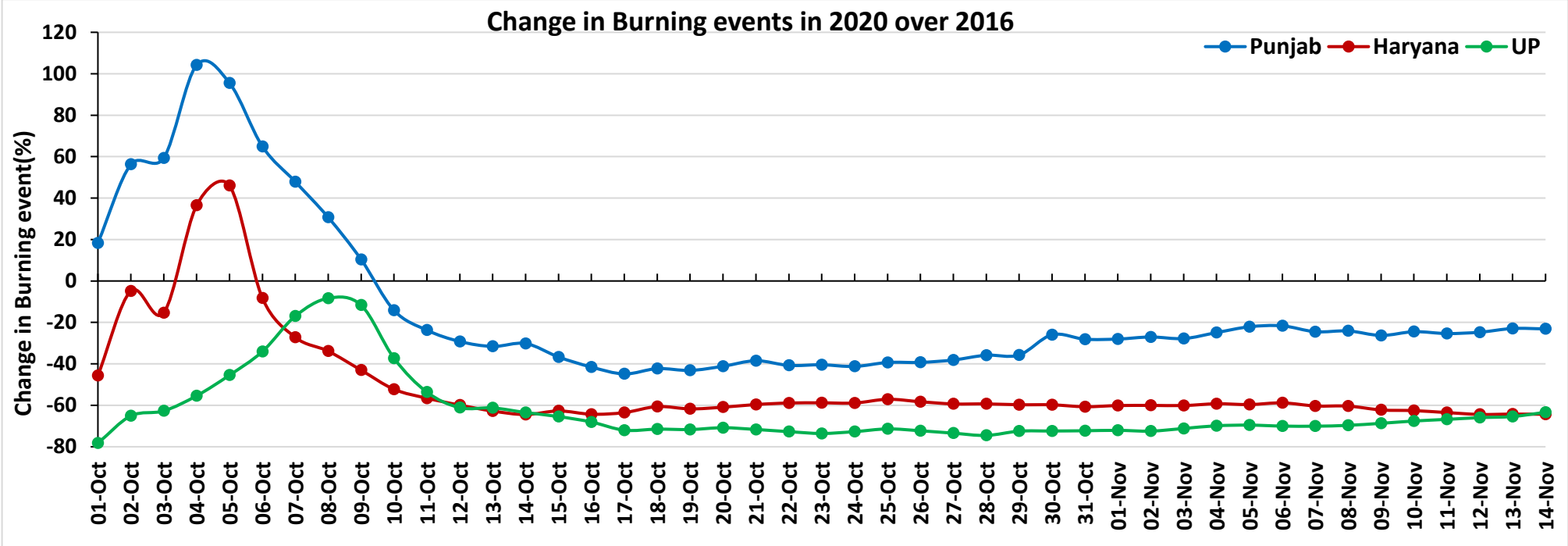
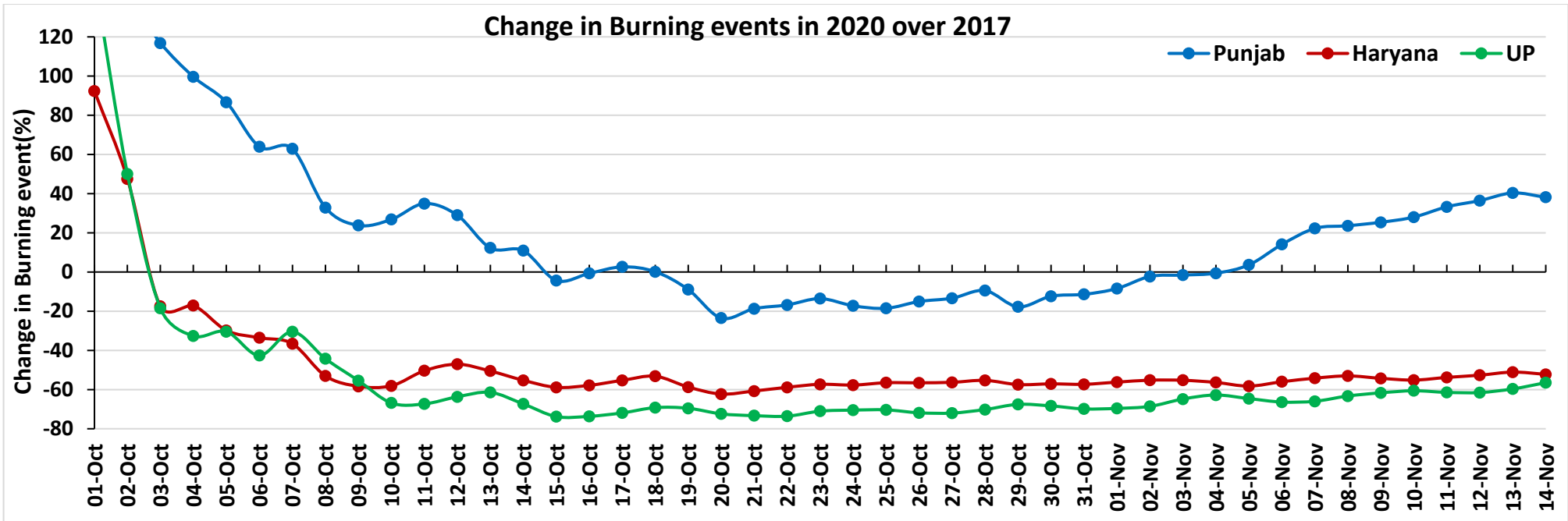
(01-Oct to 14-Nov)





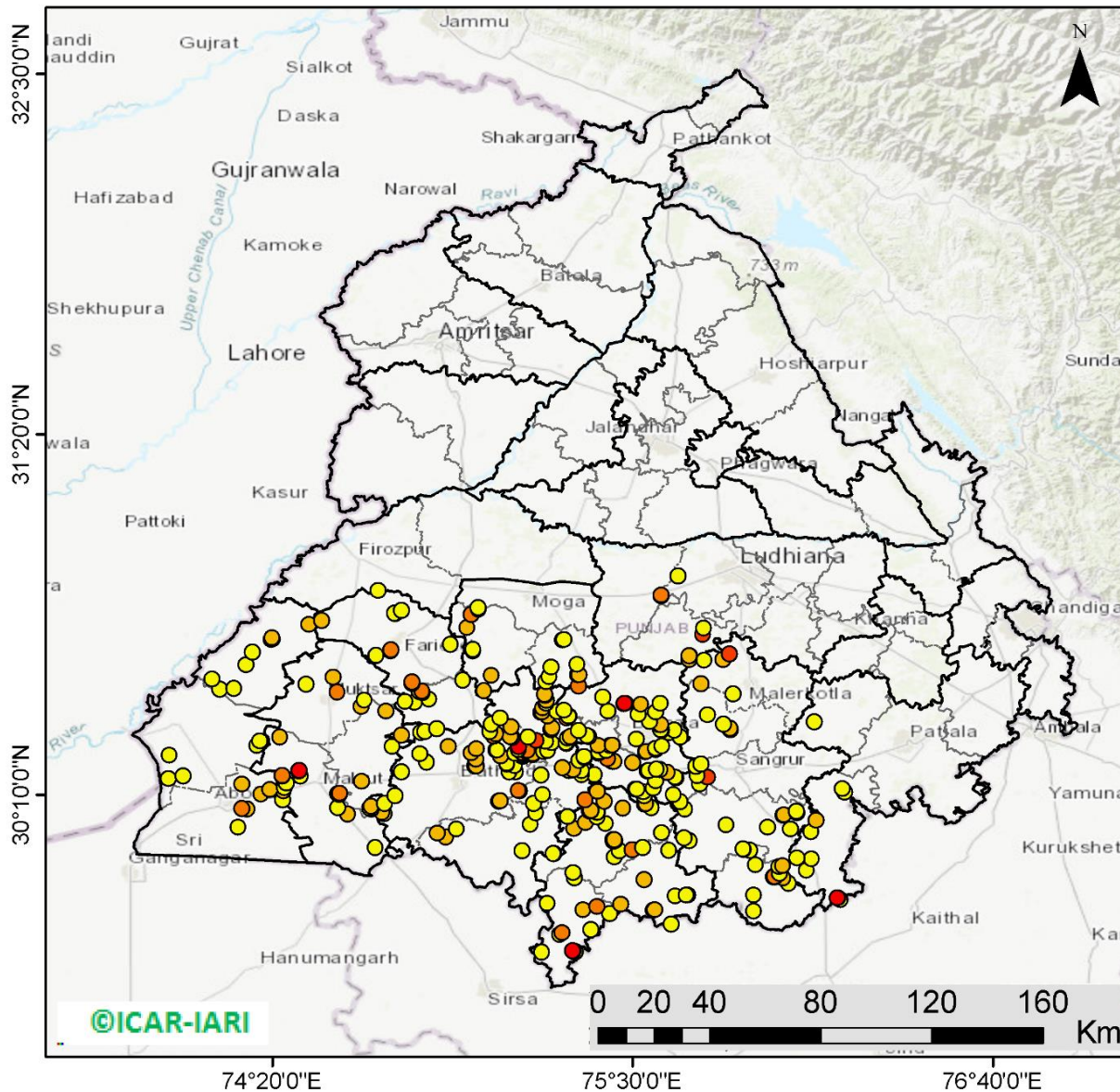
Percent Change in Burning events in 2020 over 2019, 2018, 2017 and 2016 (Daily Cumulative)





(a) Punjab

RICE RESIDUE BURNING IN PUNJAB



339 burning events detected in Punjab on 14th November 2020

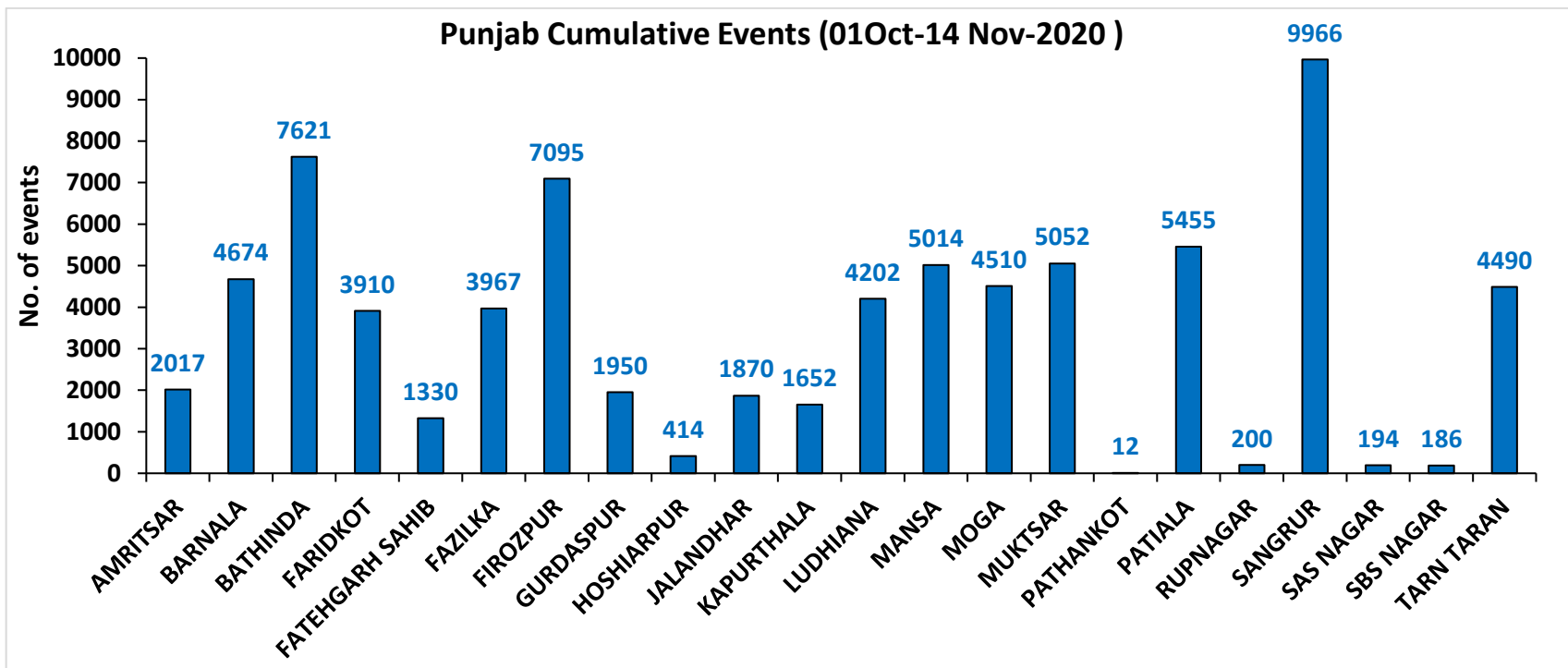
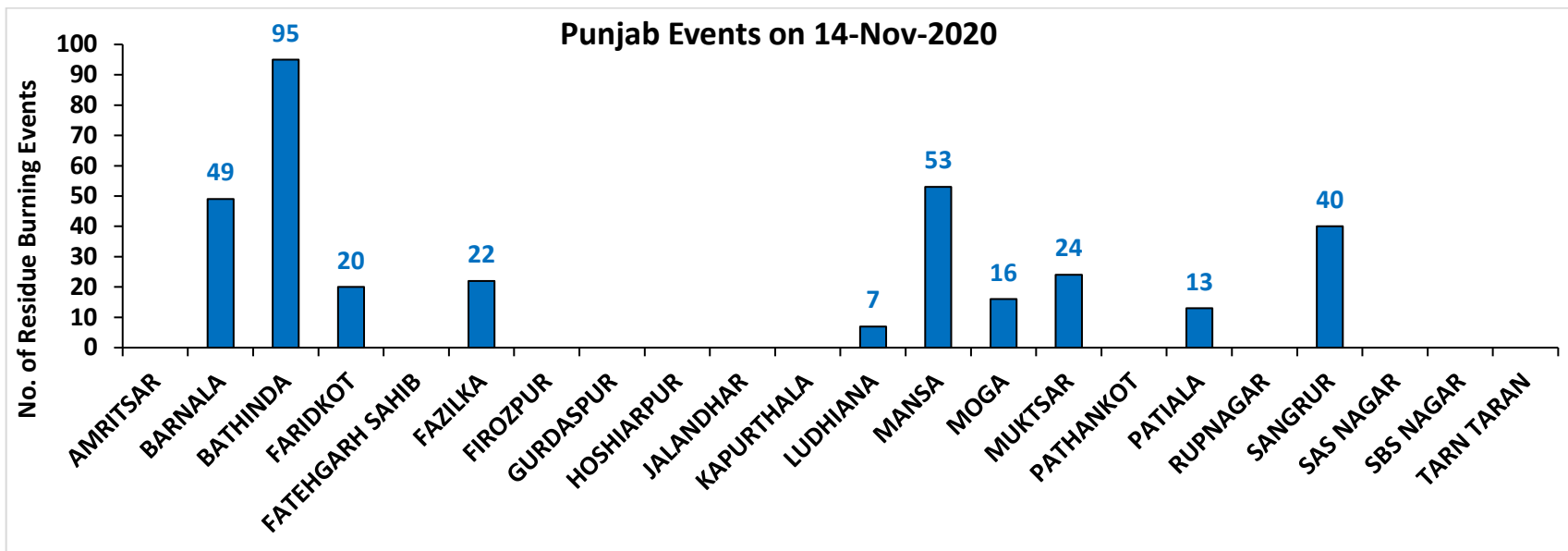
Fire Intensity (W/m²)

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



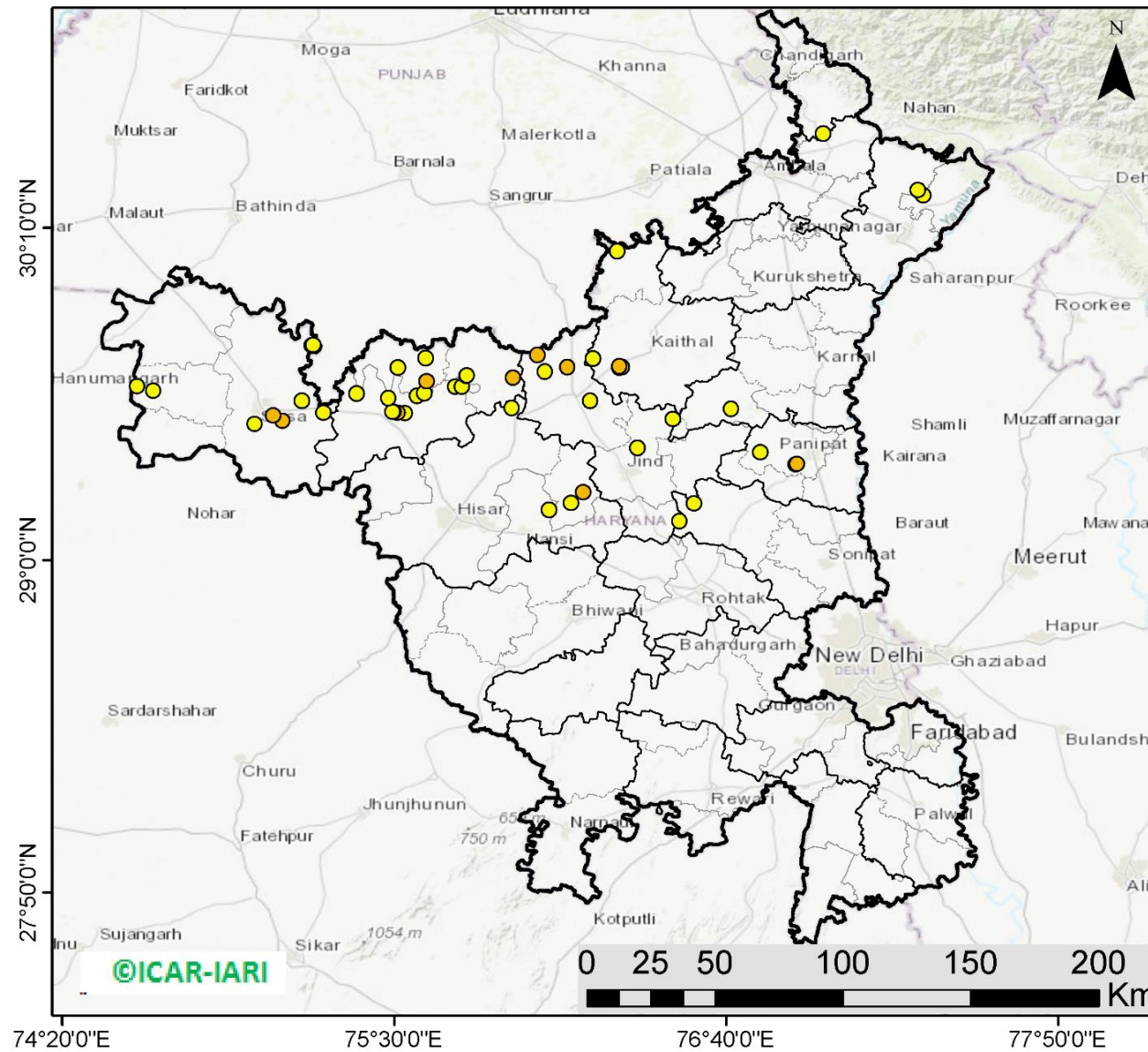
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise number of residue burning events in Punjab (01-Oct to 14-Nov 2020)



(b) Haryana

RICE RESIDUE BURNING IN HARYANA



50 burning events detected in Haryana on 14th November 2020

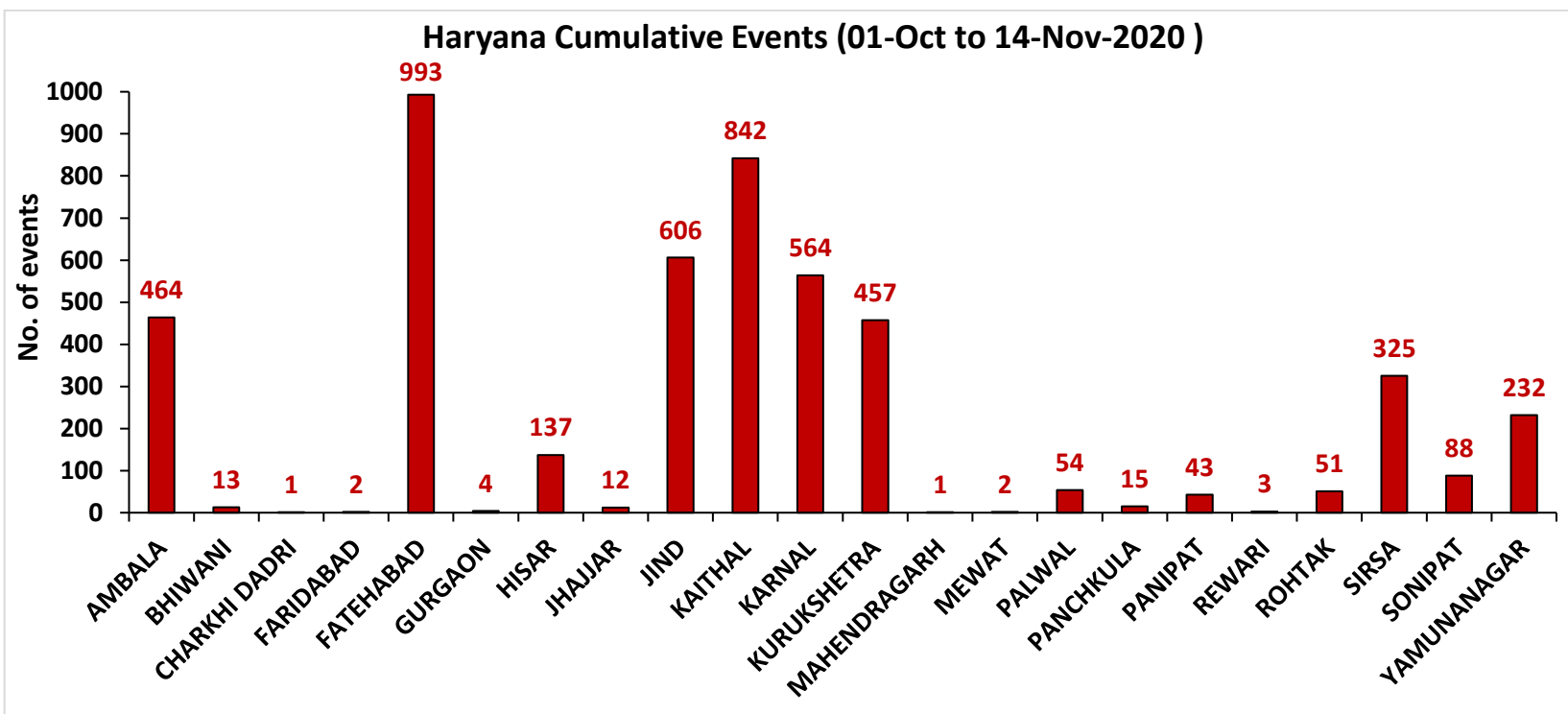
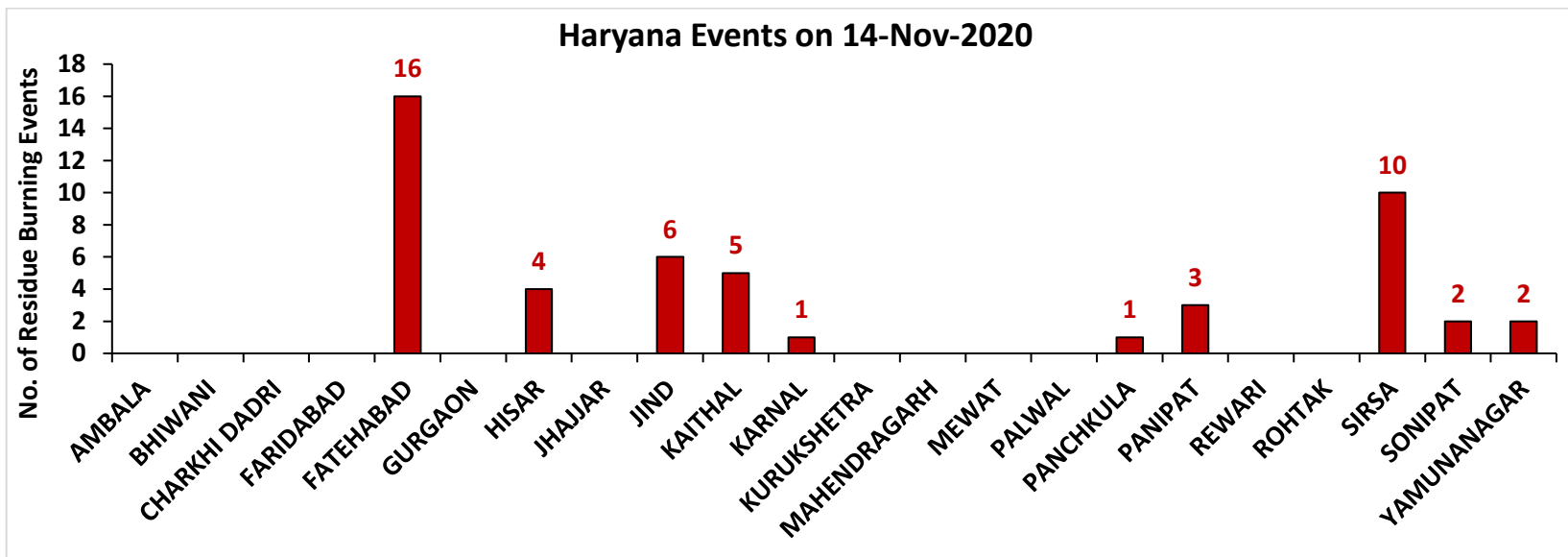
Fire Intensity (W/m²)

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



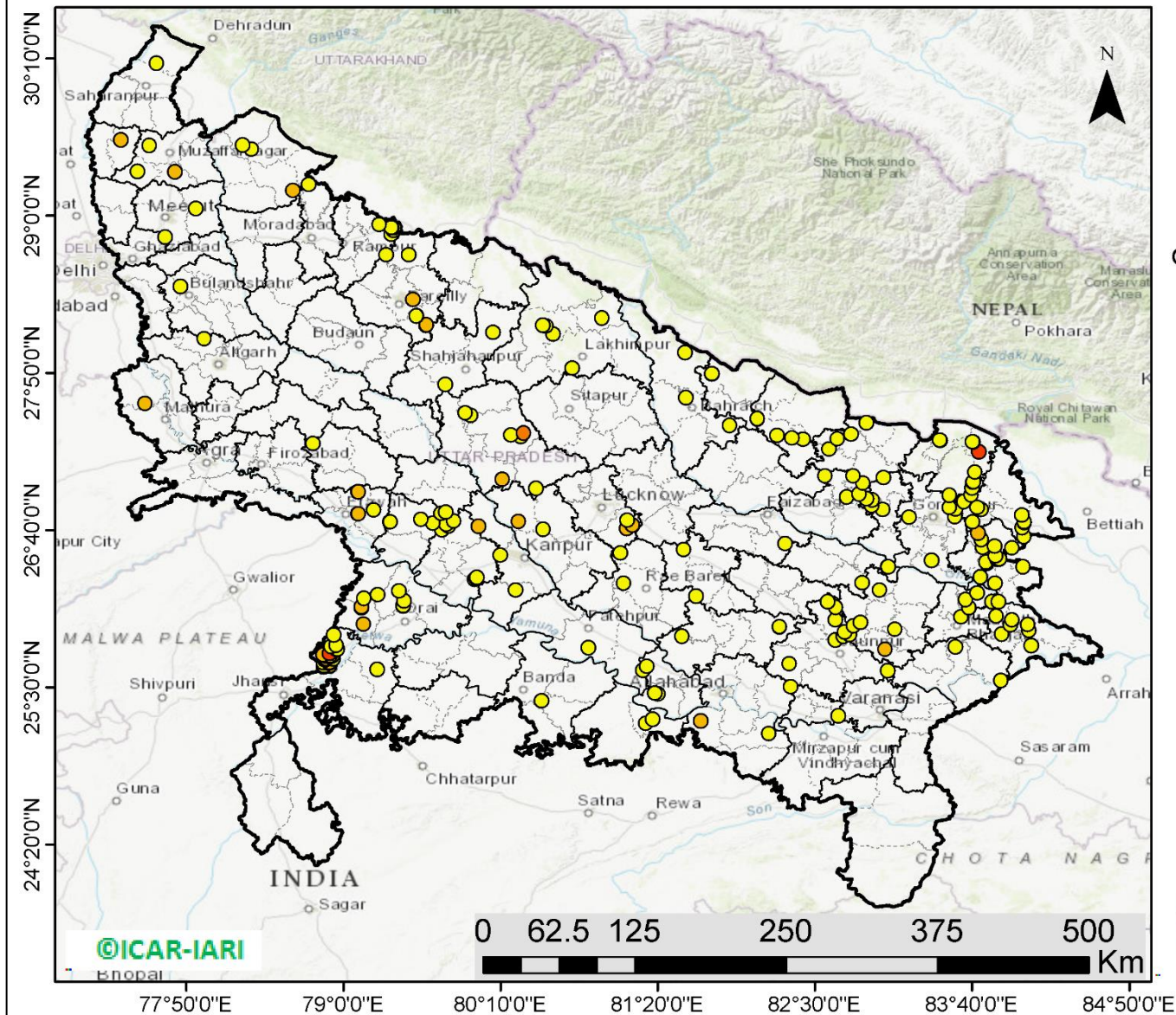
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise number of residue burning events in Haryana (01-Oct to 14-Nov 2020)



(c) Uttar Pradesh

RICE RESIDUE BURNING IN UTTAR PRADESH



234 burning events detected in Uttar Pradesh on 14th November 2020

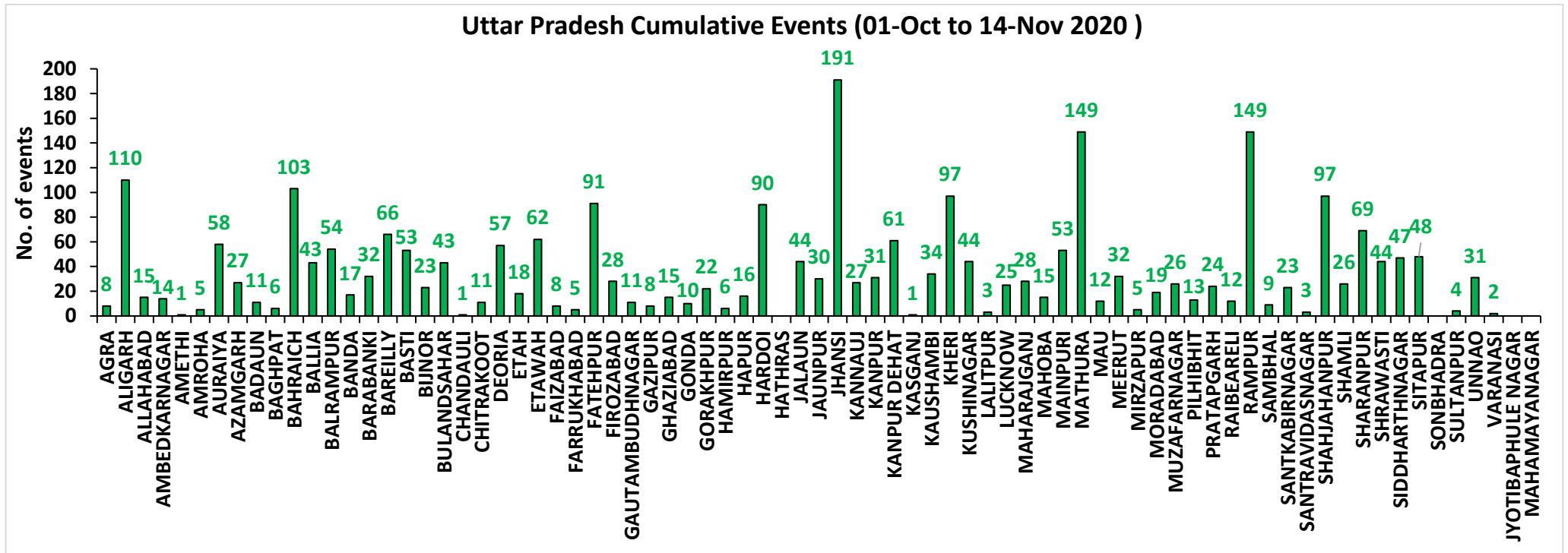
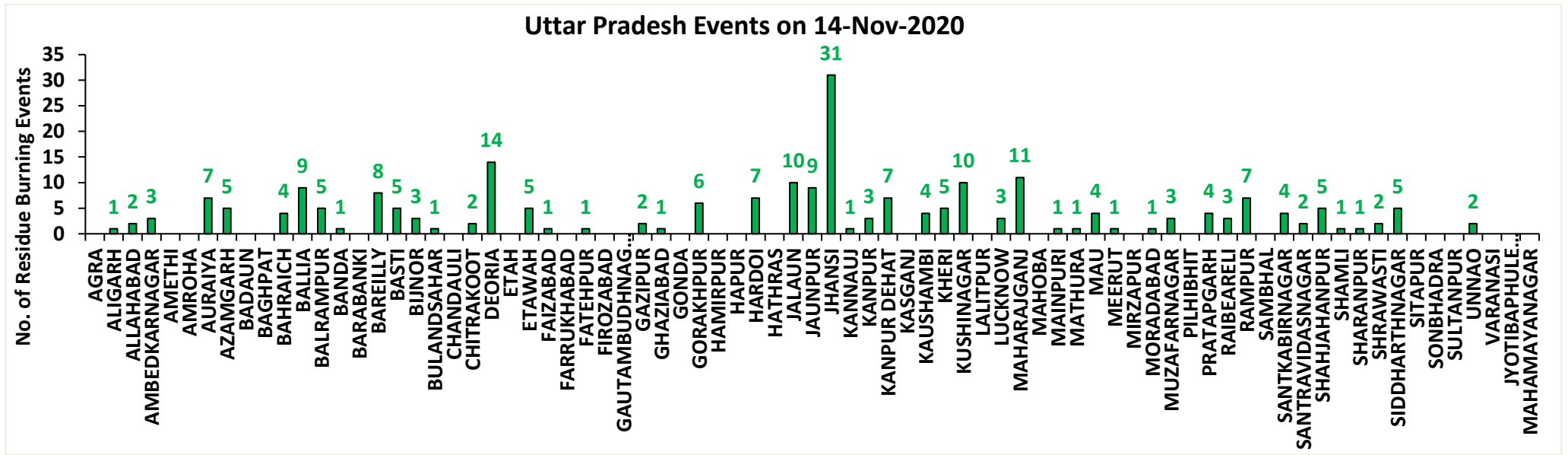
Fire Intensity (W/m²)

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



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

District-wise number of residue burning events in Uttar Pradesh (01-Oct to 14-Nov 2020)



State-wise and date-wise number of residue burning events detected in 2016, 2017, 2018, 2019 and 2020
(Period: 01-October to 14-November)

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
09-Oct	126	93	75	163	270	30	70	47	148	121	15	17	32	88	22	171	180	154	399	413
10-Oct	238	172	23	164	597	65	157	37	151	242	07	53	21	126	74	310	382	81	441	913
11-Oct	333	78	30	177	652	112	126	78	87	336	22	38	24	74	128	467	242	132	338	1116
12-Oct	362	99	67	342	694	98	154	133	123	338	37	42	22	51	164	497	295	222	516	1196
13-Oct	247	108	62	470	467	64	159	147	207	284	39	33	61	69	102	350	300	270	746	853
14-Oct	616	141	112	582	812	87	133	153	333	328	08	39	57	137	60	711	313	322	1052	1200
15-Oct	487	262	90	943	1215	129	203	110	458	248	13	63	35	237	76	629	528	235	1638	1539
16-Oct	594	168	174	465	1478	100	148	138	186	385	20	77	20	71	125	714	393	332	722	1988
17-Oct	966	250	272	807	2173	167	152	268	244	399	38	53	94	69	261	1171	455	634	1120	2833
18-Oct	850	100	263	970	1065	197	103	255	306	270	64	39	163	108	204	1111	242	681	1384	1539
19-Oct	912	529	254	1591	1762	67	220	208	541	276	35	3	108	128	132	1014	752	570	2260	2170
20-Oct	933	490	496	2653	1175	104	360	141	597	188	31	62	49	255	62	1068	912	686	3505	1425
21-Oct	1415	852	618	1139	1726	153	339	217	233	257	30	185	66	168	152	1598	1376	901	1540	2135
22-Oct	1343	555	656	1356	2837	157	158	134	186	309	35	78	149	151	194	1535	791	939	1693	3340
23-Oct	1267	827	1113	994	2040	133	131	232	155	313	71	48	193	72	331	1471	1006	1538	1221	2684
24-Oct	921	1220	844	1714	1836	86	165	166	244	221	61	79	192	171	152	1068	1464	1202	2129	2209
25-Oct	1515	1463	1247	2104	1813	188	212	182	303	229	55	67	142	175	83	1758	1742	1571	2582	2125
26-Oct	2065	2861	1173	1715	3390	119	366	132	276	434	32	189	33	240	195	2216	3416	1338	2231	4019
27-Oct	2112	2135	2040	2069	2904	111	249	252	224	417	37	145	154	145	255	2260	2529	2446	2438	3576
28-Oct	2926	3007	2864	2318	3493	186	238	330	292	458	79	45	290	99	435	3191	3290	3484	2709	4386
29-Oct	1487	1504	1321	4184	2258	87	0	124	502	278	134	1	243	180	237	1708	1505	1688	4866	2773
30-Oct	4266	3017	2008	3152	1076	155	222	103	307	395	51	19	158	238	175	4472	3258	2269	3697	1646
31-Oct	3616	2325	2715	3743	6132	162	36	229	413	575	47	4	148	321	153	3825	2365	3092	4477	6860
01-Nov	3524	293	4140	2736	4843	187	50	306	250	362	70	105	161	199	223	3781	448	4607	3185	5428
02-Nov	3528	6	3550	1246	4183	139	2	306	145	332	80	33	142	131	345	3747	41	3998	1522	4860

03-Nov	2349	2646	972	2109	3806	104	68	202	240	375	174	56	181	75	409	2627	2770	1355	2424	4490
04-Nov	4965	6001	882	4603	4477	132	383	77	499	146	144	75	183	168	265	5241	6459	1142	5270	4888
05-Nov	4905	4199	2989	2876	4137	108	253	129	625	345	54	124	163	367	125	5067	4576	3281	3868	4607
06-Nov	5235	4642	3071	171	6303	207	243	222	26	322	40	118	130	357	215	5482	5003	3423	554	6840
07-Nov	4464	189	4033	420	8575	184	2	568	46	821	70	33	108	149	244	4718	224	4709	615	9640
08-Nov	3448	462	4450	2256	4129	164	16	313	128	432	151	54	338	43	419	3763	532	5101	2427	4980
09-Nov	1756	2003	2083	675	4857	30	199	96	311	608	124	96	294	107	205	1910	2298	2473	1093	5670
10-Nov	3463	2046	1675	1642	2468	144	151	85	509	484	106	147	125	131	109	3713	2344	1885	2282	3061
11-Nov	2950	783	1364	103	5040	149	78	196	29	716	94	174	45	358	129	3193	1035	1605	490	5885
12-Nov	1729	520	1256	33	1477	113	68	122	3	634	99	210	45	269	129	1941	798	1423	305	2240
13-Nov	2422	10	1563	237	885	160	16	146	7	389	154	79	94	109	338	2736	105	1803	353	1612
14-Nov	339	0	765	1101	692	50	1	189	340	171	234	22	128	95	247	623	23	1082	1536	1110
Total	75781	46221	51715	54856	98584	4909	5824	7143	10272	13763	2676	2754	4786	6148	7306	83366	54799	63644	71276	119653

**District-wise and date-wise cumulative number of residue burning events detected in 2016, 2017, 2018, 2019 and 2020
(Period: 01-Oct to 14-Nov)**

(a) Punjab

Districts	01-Oct to 14-Nov				
	2016	2017	2018	2019	2020
AMRITSAR	2028	1205	1133	1300	2017
BARNALA	5595	2790	2812	2861	4674
BATHINDA	8606	4750	5564	5004	7621
FARIDKOT	4541	2862	2630	2017	3910
FATEHGARH SAHIB	2440	1605	822	789	1330
FAZILKA	0	0	0	1482	3967
FIROZPUR	12515	5606	7933	4350	7095
GURDASPUR	2132	1507	1090	1439	1950
HOSHIARPUR	891	475	187	307	414
JALANDHAR	4596	1987	1263	1480	1870
KAPURTHALA	3111	1526	707	1344	1652
LUDHIANA	9121	3978	2223	2187	4202
MANSA	5402	4082	3899	3399	5014
MOGA	6331	1986	2221	2037	4510
MUKTSAR	6420	3433	4713	2603	5052
PATHANKOT	0	0	0	6	12
PATIALA	6524	5004	4107	3758	5455
RUPNAGAR	706	326	76	113	200
SANGRUR	11773	8221	7476	6252	9966
SAS NAGAR	114	107	104	149	194
SBS NAGAR	1571	792	337	258	186
TARN TARAN	4167	2614	2418	3086	4490
Total	98584	54856	51715	46221	75781

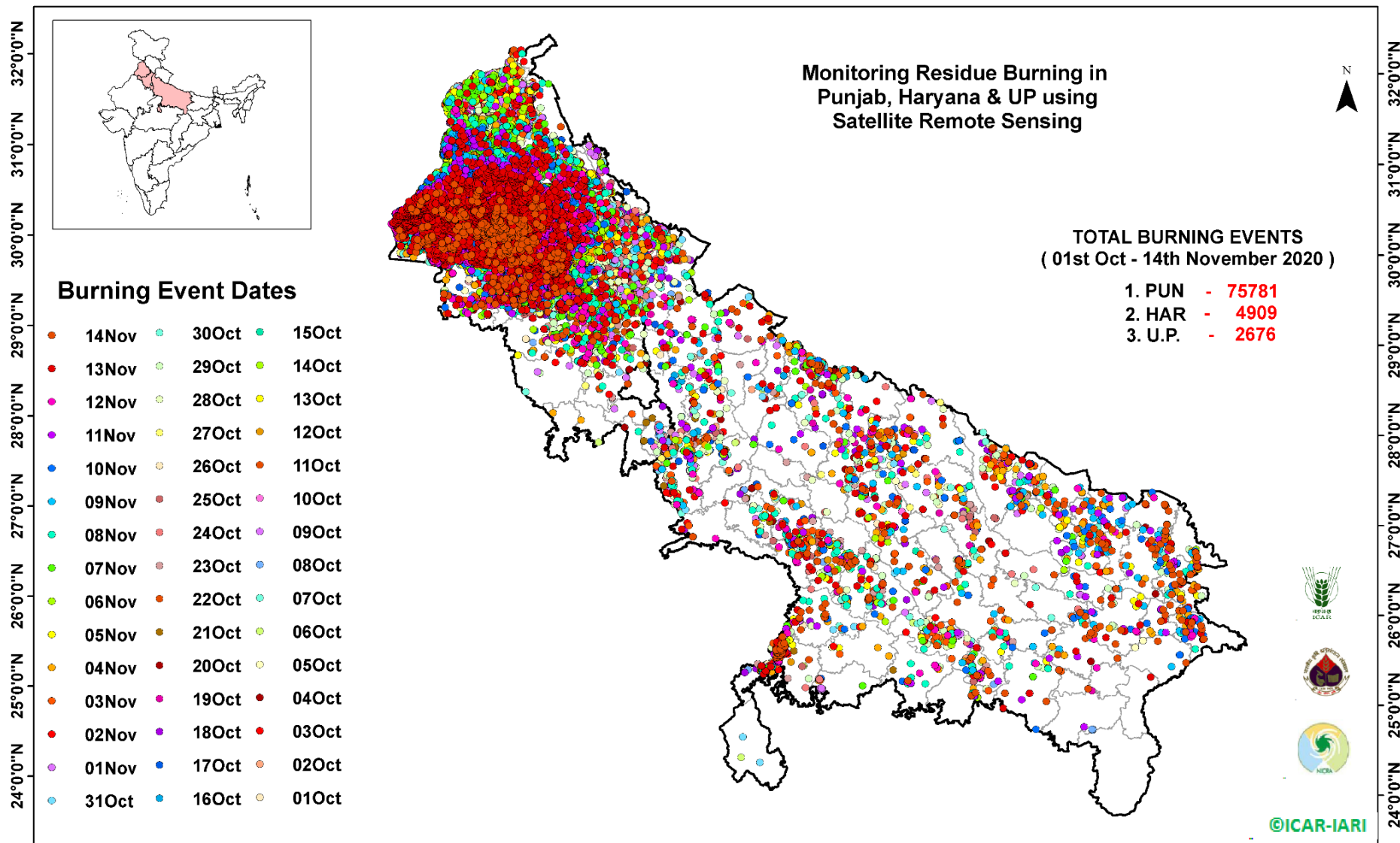
(b) Haryana

Districts	01-Oct to 14-Nov				
	2016	2017	2018	2019	2020
AMBALA	527	489	320	334	464
BHIWANI	54	25	13	6	13
CHARKHI DADRI	0	0	0	0	1
FARIDABAD	278	341	183	8	2
FATEHABAD	4358	2949	1855	1035	993
GURGAON	0	0	0	4	4
HISAR	325	160	123	98	137
JHAJJAR	22	12	14	2	12
JIND	811	889	696	494	606
KAITHAL	1732	1484	1247	1214	842
KARNAL	1616	1479	827	1050	564
KURUKSHETRA	1074	1141	677	735	457
MAHENDRAGARH	0	0	0	2	1
MEWAT	0	0	0	3	2
PALWAL	0	0	0	188	54
PANCHKULA	0	0	3	21	15
PANIPAT	70	69	51	23	43
REWARI	0	0	0	3	3
ROHTAK	72	50	11	11	51
SIRSA	2516	827	917	321	325
SONIPAT	69	53	28	23	88
YAMUNANAGAR	239	304	178	249	232
Total	13763	10272	7143	5824	4909

(C)
Uttar Pradesh

Districts	01-Oct to 14-Nov																
	2016	2017	2018	2019	2020	GAUTAMBUDHNAGAR	20	33	11	14	11	MUZAFARNAGAR	101	96	29	22	26
AGRA	0	0	0	2	8	GAZIPUR	13	7	4	6	8	PILHIBIT	905	670	410	312	13
ALIGARH	48	73	87	88	110	GHAZIABAD	54	33	23	12	15	PRATAPGARH	24	25	20	10	24
ALLAHABAD	3	8	10	6	15	GONDA	40	30	17	6	10	RAIBEARELI	43	29	29	9	12
AMBEDKARNAGAR	55	24	10	4	14	GORAKHPUR	42	58	54	9	22	RAMPUR	608	601	218	291	149
AMETHI	0	0	0	5	1	HAMIRPUR	0	0	1	17	6	SAMBHAL	0	0	0	7	9
AMROHA	0	0	0	4	5	HAPUR	0	0	0	8	16	SANTKABIRNAGAR	48	54	38	4	23
AURAIYA	168	118	42	15	58	HARDOI	225	173	104	57	90	SANTRAVIDASNAGAR	0	0	0	0	3
AZAMGARH	24	19	17	2	27	HATHRAS	0	0	0	1	0	SHAHJAHANPUR	1116	670	354	307	97
BADAUN	6	6	9	20	11	JALAUN	0	0	0	75	44	SHAMLI	0	0	0	20	26
BAGHPAT	0	0	0	5	6	JAUNPUR	9	6	13	1	30	SHARANPUR	73	93	48	61	69
BAHRAICH	53	35	56	28	103	JHANSI	0	0	2	62	191	SHRAWASTI	30	29	33	15	44
BALLIA	4	15	8	6	43	KANNAUJ	19	12	6	8	27	SIDDHARTHANAGAR	185	145	388	15	47
BALRAMPUR	25	24	35	4	54	KANPUR	9	6	8	4	31	SITAPUR	102	57	33	28	48
BANDA	1	8	8	8	17	KANPUR DEHAT	22	33	14	20	61	SONBHADRA	12	9	9	0	0
BARABANKI	202	137	164	53	32	KASGANJ	0	0	0	1	1	SULTANPUR	38	15	15	6	4
BAREILLY	234	191	113	98	66	KAUSHAMBI	14	27	32	12	34	UNNAO	48	30	32	18	31
BASTI	104	166	85	5	53	KHERI	377	230	168	137	97	VARANASI	1	0	0	0	2
BIJNOR	38	30	6	12	23	KUSHINAGAR	21	42	59	12	44	JYOTIBAPHULE NAGAR	7	10	3	0	0
BULANDSAHAR	15	28	12	22	43	LALITPUR	0	0	0	6	3	MAHAMAYANAGAR	2	2	6	0	0
CHANDAULI	2	0	0	0	1	LUCKNOW	53	29	26	13	25	Total	7306	6148	4786	2754	2676
CHITRAKOOT	0	0	0	3	11	MAHARAJGANJ	297	594	619	138	28						
DEORIA	33	34	39	2	57	MAHOBA	0	0	0	7	15						
ETAH	16	26	24	4	18	MAINPURI	58	69	41	29	53						
ETAWAH	69	65	32	34	62	MATHURA	1418	1082	1046	451	149						
FAIZABAD	10	6	7	3	8	MAU	9	5	8	1	12						
FARRUKHABAD	0	0	0	5	5	MEERUT	49	48	12	17	32						
FATEHPUR	43	32	64	40	91	MIRZAPUR	2	10	5	3	5						
FIROZABAD	22	15	9	13	28	MORADABAD	37	26	11	11	19						

Map of Cumulative Burning Events (01-Oct to 14-Nov 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 14-Nov-2020

S. No.	District	Tehsil / Block	Satellite	Longitude	Latitude	Time (IST)	Day / Night	Fire Power (W/m ²)
1	BARNALA	BARNALA	S-NPP	75.54088	30.30469	13:06:00	D	5.70
2	BARNALA	BARNALA	S-NPP	75.51147	30.34632	13:06:00	D	2.10
3	BARNALA	BARNALA	S-NPP	75.65396	30.35350	13:06:00	D	3.70
4	BARNALA	BARNALA	S-NPP	75.61873	30.36789	13:06:00	D	2.70
5	BARNALA	BARNALA	S-NPP	75.63464	30.37538	13:06:00	D	3.40
6	BARNALA	BARNALA	S-NPP	75.59409	30.37586	13:06:00	D	5.30
7	BARNALA	BARNALA	S-NPP	75.58997	30.37659	13:06:00	D	4.60
8	BARNALA	BARNALA	S-NPP	75.58560	30.39293	13:06:00	D	6.20
9	BARNALA	BARNALA	S-NPP	75.58987	30.39381	13:06:00	D	8.30
10	BARNALA	BARNALA	S-NPP	75.55558	30.40401	13:06:00	D	4.80
11	BARNALA	BARNALA	S-NPP	75.51785	30.42654	13:06:00	D	2.70
12	BARNALA	BARNALA	S-NPP	75.57465	30.43376	13:06:00	D	4.80
13	BARNALA	BARNALA	S-NPP	75.41914	30.43685	13:06:00	D	3.90
14	BARNALA	BARNALA	S-NPP	75.52732	30.45868	13:06:00	D	9.40
15	BARNALA	BARNALA	S-NPP	75.47224	30.46056	13:06:00	D	12.20
16	BARNALA	BARNALA	S-NPP	75.47657	30.46143	13:06:00	D	12.20
17	BARNALA	BARNALA	S-NPP	75.58941	30.46256	13:06:00	D	4.70
18	BARNALA	BARNALA	S-NPP	75.47359	30.46263	13:06:00	D	20.10
19	BARNALA	BARNALA	S-NPP	75.40408	30.48297	13:06:00	D	2.40
20	BARNALA	BARNALA	S-NPP	75.32504	30.51904	13:06:00	D	12.90
21	BARNALA	TAPPA	S-NPP	75.53674	30.16366	13:06:00	D	2.70
22	BARNALA	TAPPA	S-NPP	75.53342	30.17599	13:06:00	D	4.00
23	BARNALA	TAPPA	S-NPP	75.50844	30.18389	13:06:00	D	3.80
24	BARNALA	TAPPA	S-NPP	75.51277	30.18478	13:06:00	D	3.80
25	BARNALA	TAPPA	S-NPP	75.57429	30.21035	13:06:00	D	2.00
26	BARNALA	TAPPA	S-NPP	75.61174	30.23954	13:06:00	D	6.20
27	BARNALA	TAPPA	S-NPP	75.54714	30.24379	13:06:00	D	4.20
28	BARNALA	TAPPA	S-NPP	75.55145	30.24466	13:06:00	D	4.20
29	BARNALA	TAPPA	S-NPP	75.58699	30.24749	13:06:00	D	5.00
30	BARNALA	TAPPA	S-NPP	75.57729	30.24986	13:06:00	D	4.10

31	BARNALA	TAPPA	S-NPP	75.70534	30.25840	13:06:00	D	2.50
32	BARNALA	TAPPA	S-NPP	75.49999	30.27030	13:06:00	D	5.80
33	BARNALA	TAPPA	S-NPP	75.43468	30.27424	13:06:00	D	4.10
34	BARNALA	TAPPA	S-NPP	75.43905	30.27514	13:06:00	D	7.80
35	BARNALA	TAPPA	S-NPP	75.41824	30.28393	13:06:00	D	11.90
36	BARNALA	TAPPA	S-NPP	75.34339	30.28607	13:06:00	D	1.90
37	BARNALA	TAPPA	S-NPP	75.34227	30.29022	13:06:00	D	3.00
38	BARNALA	TAPPA	S-NPP	75.39073	30.30011	13:06:00	D	3.10
39	BARNALA	TAPPA	S-NPP	75.38960	30.30425	13:06:00	D	3.10
40	BARNALA	TAPPA	S-NPP	75.54518	30.30557	13:06:00	D	5.70
41	BARNALA	TAPPA	S-NPP	75.41592	30.30960	13:06:00	D	2.40
42	BARNALA	TAPPA	S-NPP	75.57524	30.31171	13:06:00	D	4.80
43	BARNALA	TAPPA	S-NPP	75.57414	30.31580	13:06:00	D	4.80
44	BARNALA	TAPPA	S-NPP	75.59444	30.32425	13:06:00	D	4.60
45	BARNALA	TAPPA	S-NPP	75.42567	30.32465	13:06:00	D	3.20
46	BARNALA	TAPPA	S-NPP	75.38840	30.32582	13:06:00	D	8.60
47	BARNALA	TAPPA	S-NPP	75.43440	30.32642	13:06:00	D	8.30
48	BARNALA	TAPPA	S-NPP	75.35825	30.35468	13:06:00	D	6.10
49	BARNALA	TAPPA	S-NPP	75.35274	30.35791	13:06:00	D	3.10
50	BATHINDA	BATHINDA	S-NPP	74.69532	30.10599	13:06:00	D	2.70
51	BATHINDA	BATHINDA	S-NPP	74.68930	30.10928	13:06:00	D	6.30
52	BATHINDA	BATHINDA	S-NPP	74.65549	30.12040	13:06:00	D	8.00
53	BATHINDA	BATHINDA	S-NPP	74.64946	30.12370	13:06:00	D	5.60
54	BATHINDA	BATHINDA	S-NPP	74.65311	30.12905	13:06:00	D	8.50
55	BATHINDA	BATHINDA	S-NPP	74.69661	30.13824	13:06:00	D	4.40
56	BATHINDA	BATHINDA	S-NPP	75.06606	30.14593	13:06:00	D	5.70
57	BATHINDA	BATHINDA	S-NPP	75.07065	30.14688	13:06:00	D	5.70
58	BATHINDA	BATHINDA	S-NPP	74.73030	30.16356	13:06:00	D	3.70
59	BATHINDA	BATHINDA	S-NPP	75.13068	30.18017	13:06:00	D	11.20
60	BATHINDA	BATHINDA	S-NPP	75.11919	30.23998	13:06:00	D	4.70
61	BATHINDA	BATHINDA	S-NPP	75.09981	30.24042	13:06:00	D	3.00
62	BATHINDA	BATHINDA	S-NPP	74.75105	30.24089	13:06:00	D	2.30
63	BATHINDA	BATHINDA	S-NPP	74.98906	30.25970	13:06:00	D	7.70

64	BATHINDA	BATHINDA	S-NPP	74.99368	30.26067	13:06:00	D	7.70
65	BATHINDA	BATHINDA	S-NPP	75.11800	30.26193	13:06:00	D	4.50
66	BATHINDA	BATHINDA	S-NPP	75.09292	30.26567	13:06:00	D	7.80
67	BATHINDA	BATHINDA	S-NPP	75.09336	30.26837	13:06:00	D	2.80
68	BATHINDA	BATHINDA	S-NPP	74.83279	30.27171	13:06:00	D	3.40
69	BATHINDA	BATHINDA	S-NPP	74.99249	30.28279	13:06:00	D	5.70
70	BATHINDA	BATHINDA	S-NPP	75.07281	30.29074	13:06:00	D	5.40
71	BATHINDA	BATHINDA	S-NPP	74.81036	30.29864	13:06:00	D	3.60
72	BATHINDA	BATHINDA	S-NPP	75.13758	30.29988	13:06:00	D	4.90
73	BATHINDA	BATHINDA	S-NPP	75.11831	30.30028	13:06:00	D	4.90
74	BATHINDA	BATHINDA	S-NPP	74.97746	30.30201	13:06:00	D	5.20
75	BATHINDA	BATHINDA	S-NPP	75.05793	30.30988	13:06:00	D	4.20
76	BATHINDA	BATHINDA	S-NPP	75.06250	30.31083	13:06:00	D	5.00
77	BATHINDA	BATHINDA	S-NPP	75.12963	30.31152	13:06:00	D	3.10
78	BATHINDA	BATHINDA	S-NPP	74.99361	30.31432	13:06:00	D	6.20
79	BATHINDA	BATHINDA	S-NPP	75.13186	30.32085	13:06:00	D	21.10
80	BATHINDA	BATHINDA	S-NPP	74.90311	30.32240	13:06:00	D	8.60
81	BATHINDA	BATHINDA	S-NPP	75.10906	30.35159	13:06:00	D	6.70
82	BATHINDA	BATHINDA	S-NPP	75.16114	30.35348	13:06:00	D	3.00
83	BATHINDA	BATHINDA	S-NPP	75.10336	30.35485	13:06:00	D	9.60
84	BATHINDA	BATHINDA	S-NPP	75.04977	30.35714	13:06:00	D	10.90
85	BATHINDA	BATHINDA	S-NPP	75.05775	30.36322	13:06:00	D	6.20
86	BATHINDA	BATHINDA	S-NPP	74.81371	30.36884	13:06:00	D	3.40
87	BATHINDA	BATHINDA	S-NPP	75.03865	30.37149	13:06:00	D	2.80
88	BATHINDA	BATHINDA	S-NPP	74.82782	30.37182	13:06:00	D	2.40
89	BATHINDA	BATHINDA	S-NPP	74.86529	30.37970	13:06:00	D	2.20
90	BATHINDA	BATHINDA	S-NPP	75.10686	30.38590	13:06:00	D	9.00
91	BATHINDA	RAMPURA PHUL	S-NPP	75.17911	30.13808	13:06:00	D	2.00
92	BATHINDA	RAMPURA PHUL	S-NPP	75.20959	30.16649	13:06:00	D	3.40
93	BATHINDA	RAMPURA PHUL	S-NPP	75.13469	30.17777	13:06:00	D	7.90
94	BATHINDA	RAMPURA PHUL	S-NPP	75.20300	30.23075	13:06:00	D	4.90
95	BATHINDA	RAMPURA PHUL	S-NPP	75.37671	30.23167	13:06:00	D	4.00
96	BATHINDA	RAMPURA PHUL	S-NPP	75.33475	30.23170	13:06:00	D	4.70

97	BATHINDA	RAMPURA PHUL	S-NPP	75.33582	30.24508	13:06:00	D	4.90
98	BATHINDA	RAMPURA PHUL	S-NPP	75.29362	30.24513	13:06:00	D	5.70
99	BATHINDA	RAMPURA PHUL	S-NPP	75.30696	30.24788	13:06:00	D	7.00
100	BATHINDA	RAMPURA PHUL	S-NPP	75.27243	30.25394	13:06:00	D	5.70
101	BATHINDA	RAMPURA PHUL	S-NPP	75.32684	30.27830	13:06:00	D	3.10
102	BATHINDA	RAMPURA PHUL	S-NPP	75.14406	30.28942	13:06:00	D	2.70
103	BATHINDA	RAMPURA PHUL	S-NPP	75.14438	30.29245	13:06:00	D	2.50
104	BATHINDA	RAMPURA PHUL	S-NPP	75.13872	30.29569	13:06:00	D	4.90
105	BATHINDA	RAMPURA PHUL	S-NPP	75.17572	30.29585	13:06:00	D	4.60
106	BATHINDA	RAMPURA PHUL	S-NPP	75.14324	30.29664	13:06:00	D	6.50
107	BATHINDA	RAMPURA PHUL	S-NPP	75.17593	30.29907	13:06:00	D	6.20
108	BATHINDA	RAMPURA PHUL	S-NPP	75.14210	30.30083	13:06:00	D	6.50
109	BATHINDA	RAMPURA PHUL	S-NPP	75.21187	30.30661	13:06:00	D	3.10
110	BATHINDA	RAMPURA PHUL	S-NPP	75.15450	30.30786	13:06:00	D	7.40
111	BATHINDA	RAMPURA PHUL	S-NPP	75.15900	30.30880	13:06:00	D	12.10
112	BATHINDA	RAMPURA PHUL	S-NPP	75.22530	30.30943	13:06:00	D	3.10
113	BATHINDA	RAMPURA PHUL	S-NPP	75.28542	30.33079	13:06:00	D	4.20
114	BATHINDA	RAMPURA PHUL	S-NPP	75.23753	30.33401	13:06:00	D	2.70
115	BATHINDA	RAMPURA PHUL	S-NPP	75.28430	30.33494	13:06:00	D	3.60
116	BATHINDA	RAMPURA PHUL	S-NPP	75.21738	30.33863	13:06:00	D	3.50
117	BATHINDA	RAMPURA PHUL	S-NPP	75.18819	30.34140	13:06:00	D	15.40
118	BATHINDA	RAMPURA PHUL	S-NPP	75.28979	30.34926	13:06:00	D	1.90
119	BATHINDA	RAMPURA PHUL	S-NPP	75.29754	30.35524	13:06:00	D	6.60
120	BATHINDA	RAMPURA PHUL	S-NPP	75.32511	30.37407	13:06:00	D	3.30
121	BATHINDA	RAMPURA PHUL	S-NPP	75.23513	30.37752	13:06:00	D	6.30
122	BATHINDA	RAMPURA PHUL	S-NPP	75.23846	30.38259	13:06:00	D	6.30
123	BATHINDA	RAMPURA PHUL	S-NPP	75.07048	30.41376	13:06:00	D	4.30
124	BATHINDA	RAMPURA PHUL	S-NPP	75.28616	30.41426	13:06:00	D	14.80
125	BATHINDA	RAMPURA PHUL	S-NPP	75.22586	30.41973	13:06:00	D	5.90
126	BATHINDA	RAMPURA PHUL	S-NPP	75.29389	30.42021	13:06:00	D	11.50
127	BATHINDA	RAMPURA PHUL	S-NPP	75.29136	30.42027	13:06:00	D	4.10
128	BATHINDA	RAMPURA PHUL	S-NPP	75.20348	30.43266	13:06:00	D	8.30
129	BATHINDA	RAMPURA PHUL	S-NPP	75.20795	30.43360	13:06:00	D	8.30

130	BATHINDA	RAMPURA PHUL	S-NPP	75.25473	30.43455	13:06:00	D	3.60
131	BATHINDA	RAMPURA PHUL	S-NPP	75.27689	30.43917	13:06:00	D	4.70
132	BATHINDA	RAMPURA PHUL	S-NPP	75.20899	30.44702	13:06:00	D	5.50
133	BATHINDA	RAMPURA PHUL	S-NPP	75.21898	30.46228	13:06:00	D	4.10
134	BATHINDA	RAMPURA PHUL	S-NPP	75.22118	30.47152	13:06:00	D	7.20
135	BATHINDA	RAMPURA PHUL	S-NPP	75.21666	30.48816	13:06:00	D	3.50
136	BATHINDA	RAMPURA PHUL	S-NPP	75.21552	30.49232	13:06:00	D	8.60
137	BATHINDA	TALWANDI SABO	S-NPP	75.24583	29.97618	13:06:00	D	2.80
138	BATHINDA	TALWANDI SABO	S-NPP	75.24319	29.97659	13:06:00	D	3.90
139	BATHINDA	TALWANDI SABO	S-NPP	75.14245	29.98563	13:06:00	D	2.30
140	BATHINDA	TALWANDI SABO	S-NPP	74.89613	30.02960	13:06:00	D	6.60
141	BATHINDA	TALWANDI SABO	S-NPP	74.86782	30.04172	13:06:00	D	9.10
142	BATHINDA	TALWANDI SABO	S-NPP	74.92905	30.05463	13:06:00	D	3.70
143	BATHINDA	TALWANDI SABO	S-NPP	75.16901	30.06937	13:06:00	D	2.10
144	BATHINDA	TALWANDI SABO	S-NPP	75.18709	30.10869	13:06:00	D	3.40
145	FARIDKOT	FARIDKOT	S-NPP	74.80864	30.49994	13:06:00	D	5.70
146	FARIDKOT	FARIDKOT	S-NPP	74.78626	30.52679	13:06:00	D	10.30
147	FARIDKOT	FARIDKOT	S-NPP	74.78508	30.53105	13:06:00	D	12.60
148	FARIDKOT	FARIDKOT	S-NPP	74.66782	30.61676	13:06:00	D	3.10
149	FARIDKOT	FARIDKOT	S-NPP	74.66909	30.61774	13:06:00	D	1.80
150	FARIDKOT	FARIDKOT	S-NPP	74.71523	30.63215	13:06:00	D	12.00
151	FARIDKOT	FARIDKOT	S-NPP	74.71763	30.63612	13:06:00	D	14.20
152	FARIDKOT	FARIDKOT	S-NPP	74.91026	30.65351	13:06:00	D	5.00
153	FARIDKOT	FARIDKOT	S-NPP	74.49327	30.73103	13:06:00	D	6.30
154	FARIDKOT	FARIDKOT	S-NPP	74.73139	30.75272	13:06:00	D	4.50
155	FARIDKOT	FARIDKOT	S-NPP	74.72902	30.75410	13:06:00	D	3.90
156	FARIDKOT	FARIDKOT	S-NPP	74.75124	30.76333	13:06:00	D	2.60
157	FARIDKOT	FARIDKOT	S-NPP	74.67576	30.82739	01:48:00	N	0.90
158	FARIDKOT	JAITO	S-NPP	75.04202	30.39446	13:06:00	D	4.00
159	FARIDKOT	JAITO	S-NPP	74.79343	30.46520	13:06:00	D	3.70
160	FARIDKOT	JAITO	S-NPP	74.76278	30.46776	13:06:00	D	2.40
161	FARIDKOT	JAITO	S-NPP	74.84029	30.47510	13:06:00	D	2.90
162	FARIDKOT	JAITO	S-NPP	74.81919	30.49764	13:06:00	D	13.30

163	FARIDKOT	JAITO	S-NPP	74.81802	30.50190	13:06:00	D	12.40
164	FARIDKOT	JAITO	S-NPP	74.95032	30.53839	13:06:00	D	4.90
165	FAZILKA	ABOHAR	S-NPP	74.22259	30.06075	13:06:00	D	4.70
166	FAZILKA	ABOHAR	S-NPP	74.25172	30.12004	13:06:00	D	6.80
167	FAZILKA	ABOHAR	S-NPP	74.23515	30.12113	13:06:00	D	11.70
168	FAZILKA	ABOHAR	S-NPP	74.36696	30.14964	13:06:00	D	3.60
169	FAZILKA	ABOHAR	S-NPP	74.29777	30.16743	13:06:00	D	5.90
170	FAZILKA	ABOHAR	S-NPP	74.32563	30.18273	13:06:00	D	5.80
171	FAZILKA	ABOHAR	S-NPP	74.23440	30.20075	13:06:00	D	5.70
172	FAZILKA	FAZILKA	S-NPP	73.99689	30.21766	13:06:00	D	4.80
173	FAZILKA	FAZILKA	S-NPP	74.04414	30.22787	13:06:00	D	3.80
174	FAZILKA	FAZILKA	S-NPP	73.99970	30.29476	13:06:00	D	2.70
175	FAZILKA	FAZILKA	S-NPP	74.28349	30.32591	13:06:00	D	4.70
176	FAZILKA	FAZILKA	S-NPP	74.29244	30.33963	13:06:00	D	4.40
177	FAZILKA	JALALABAD	S-NPP	74.16331	30.50800	13:06:00	D	3.00
178	FAZILKA	JALALABAD	S-NPP	74.20877	30.51115	13:06:00	D	3.30
179	FAZILKA	JALALABAD	S-NPP	74.13804	30.53996	13:06:00	D	3.90
180	FAZILKA	JALALABAD	S-NPP	74.24818	30.58706	13:06:00	D	4.90
181	FAZILKA	JALALABAD	S-NPP	74.26833	30.62849	13:06:00	D	3.40
182	FAZILKA	JALALABAD	S-NPP	74.32934	30.66821	13:06:00	D	6.30
183	FAZILKA	JALALABAD	S-NPP	74.33427	30.66928	13:06:00	D	6.30
184	FAZILKA	JALALABAD	S-NPP	74.33066	30.66938	13:06:00	D	10.10
185	FAZILKA	JALALABAD	S-NPP	74.33305	30.67363	13:06:00	D	5.80
186	FAZILKA	JALALABAD	S-NPP	74.45081	30.71737	13:06:00	D	6.50
187	LUDHIANA	JAGRAON	S-NPP	75.59267	30.80958	13:06:00	D	9.70
188	LUDHIANA	JAGRAON	S-NPP	75.59243	30.81205	13:06:00	D	11.40
189	LUDHIANA	LUDHIANA WEST	S-NPP	75.64632	30.87422	13:06:00	D	4.40
190	LUDHIANA	RAIKOT	S-NPP	75.68401	30.61571	13:06:00	D	5.50
191	LUDHIANA	RAIKOT	S-NPP	75.68327	30.61692	13:06:00	D	6.30
192	LUDHIANA	RAIKOT	S-NPP	75.72727	30.68410	13:06:00	D	19.60
193	LUDHIANA	RAIKOT	S-NPP	75.73019	30.70591	13:06:00	D	2.20
194	MANSA	BUDHLADA	S-NPP	75.62476	29.74780	13:06:00	D	2.80
195	MANSA	BUDHLADA	S-NPP	75.56694	29.79262	13:06:00	D	7.70

196	MANSA	BUDHLADA	S-NPP	75.57131	29.79351	13:06:00	D	8.70
197	MANSA	BUDHLADA	S-NPP	75.46130	29.81077	13:06:00	D	5.90
198	MANSA	BUDHLADA	S-NPP	75.63814	29.83874	13:06:00	D	3.50
199	MANSA	BUDHLADA	S-NPP	75.67747	29.84096	13:06:00	D	3.80
200	MANSA	BUDHLADA	S-NPP	75.67368	29.84175	13:06:00	D	3.20
201	MANSA	BUDHLADA	S-NPP	75.53699	29.89197	13:06:00	D	5.10
202	MANSA	BUDHLADA	S-NPP	75.61761	29.98719	13:06:00	D	1.80
203	MANSA	BUDHLADA	S-NPP	75.53303	29.99601	13:06:00	D	2.60
204	MANSA	BUDHLADA	S-NPP	75.68191	30.01757	13:06:00	D	2.80
205	MANSA	BUDHLADA	S-NPP	75.66580	30.02726	13:06:00	D	4.70
206	MANSA	MANSA	S-NPP	75.43992	29.96389	13:06:00	D	3.10
207	MANSA	MANSA	S-NPP	75.45749	29.98499	13:06:00	D	3.00
208	MANSA	MANSA	S-NPP	75.49810	29.98890	13:06:00	D	10.50
209	MANSA	MANSA	S-NPP	75.43739	30.01629	13:06:00	D	6.40
210	MANSA	MANSA	S-NPP	75.43974	30.01638	13:06:00	D	10.30
211	MANSA	MANSA	S-NPP	75.44179	30.01721	13:06:00	D	5.90
212	MANSA	MANSA	S-NPP	75.43629	30.02044	13:06:00	D	6.30
213	MANSA	MANSA	S-NPP	75.44069	30.02136	13:06:00	D	5.80
214	MANSA	MANSA	S-NPP	75.59362	30.04299	13:06:00	D	3.00
215	MANSA	MANSA	S-NPP	75.30977	30.05577	13:06:00	D	6.30
216	MANSA	MANSA	S-NPP	75.41301	30.07256	13:06:00	D	2.10
217	MANSA	MANSA	S-NPP	75.34650	30.07650	13:06:00	D	5.30
218	MANSA	MANSA	S-NPP	75.38420	30.09296	13:06:00	D	2.30
219	MANSA	MANSA	S-NPP	75.29063	30.09494	13:06:00	D	3.20
220	MANSA	MANSA	S-NPP	75.28949	30.09570	13:06:00	D	3.90
221	MANSA	MANSA	S-NPP	75.38501	30.11032	13:06:00	D	3.40
222	MANSA	MANSA	S-NPP	75.38414	30.11048	13:06:00	D	2.60
223	MANSA	MANSA	S-NPP	75.36069	30.11401	13:06:00	D	3.80
224	MANSA	MANSA	S-NPP	75.36511	30.11493	13:06:00	D	3.80
225	MANSA	MANSA	S-NPP	75.36417	30.11521	13:06:00	D	6.60
226	MANSA	MANSA	S-NPP	75.46887	30.12323	13:06:00	D	9.10
227	MANSA	MANSA	S-NPP	75.56030	30.12432	13:06:00	D	2.40
228	MANSA	MANSA	S-NPP	75.53858	30.13728	13:06:00	D	6.80

229	MANSA	MANSA	S-NPP	75.54291	30.13815	13:06:00	D	6.80
230	MANSA	MANSA	S-NPP	75.40807	30.14577	13:06:00	D	9.30
231	MANSA	MANSA	S-NPP	75.34616	30.15051	13:06:00	D	11.50
232	MANSA	MANSA	S-NPP	75.38590	30.17622	13:06:00	D	8.40
233	MANSA	SARDULGARH	S-NPP	75.31249	29.65640	13:06:00	D	9.20
234	MANSA	SARDULGARH	S-NPP	75.20658	29.65644	13:06:00	D	4.70
235	MANSA	SARDULGARH	S-NPP	75.31561	29.65873	13:06:00	D	5.60
236	MANSA	SARDULGARH	S-NPP	75.30685	29.65966	13:06:00	D	9.20
237	MANSA	SARDULGARH	S-NPP	75.30541	29.66109	13:06:00	D	26.90
238	MANSA	SARDULGARH	S-NPP	75.26376	29.71295	13:06:00	D	3.30
239	MANSA	SARDULGARH	S-NPP	75.27173	29.71904	13:06:00	D	12.60
240	MANSA	SARDULGARH	S-NPP	75.36436	29.72926	13:06:00	D	4.00
241	MANSA	SARDULGARH	S-NPP	75.42578	29.78151	13:06:00	D	4.50
242	MANSA	SARDULGARH	S-NPP	75.33884	29.79407	13:06:00	D	5.50
243	MANSA	SARDULGARH	S-NPP	75.38360	29.80340	13:06:00	D	10.20
244	MANSA	SARDULGARH	S-NPP	75.22347	29.81450	13:06:00	D	3.50
245	MANSA	SARDULGARH	S-NPP	75.31204	29.89783	13:06:00	D	2.30
246	MANSA	SARDULGARH	S-NPP	75.30753	29.91458	13:06:00	D	2.60
247	MOGA	BAGHA PURANA	S-NPP	75.01804	30.50354	13:06:00	D	6.30
248	MOGA	BAGHA PURANA	S-NPP	75.04294	30.55312	13:06:00	D	8.70
249	MOGA	BAGHA PURANA	S-NPP	74.98379	30.63316	13:06:00	D	5.60
250	MOGA	BAGHA PURANA	S-NPP	74.98262	30.63736	13:06:00	D	3.20
251	MOGA	BAGHA PURANA	S-NPP	74.96442	30.70740	13:06:00	D	6.40
252	MOGA	BAGHA PURANA	S-NPP	74.97680	30.74993	13:06:00	D	12.30
253	MOGA	BAGHA PURANA	S-NPP	75.00057	30.76814	13:06:00	D	3.60
254	MOGA	BAGHA PURANA	S-NPP	74.99940	30.77232	13:06:00	D	3.60
255	MOGA	NIHAL SINGH WALA	S-NPP	75.21954	30.53246	13:06:00	D	2.60
256	MOGA	NIHAL SINGH WALA	S-NPP	75.22947	30.54770	13:06:00	D	3.30
257	MOGA	NIHAL SINGH WALA	S-NPP	75.32105	30.55362	13:06:00	D	6.30
258	MOGA	NIHAL SINGH WALA	S-NPP	75.32544	30.55453	13:06:00	D	6.30
259	MOGA	NIHAL SINGH WALA	S-NPP	75.23486	30.57950	13:06:00	D	2.60
260	MOGA	NIHAL SINGH WALA	S-NPP	75.32085	30.58846	13:06:00	D	3.10
261	MOGA	NIHAL SINGH WALA	S-NPP	75.27277	30.66679	13:06:00	D	4.10

262	MOGA	NIHAL SINGH WALA	S-NPP	75.27716	30.66770	13:06:00	D	4.10
263	MUKTSAR	GIDDARBAHA	S-NPP	74.62241	30.20901	13:06:00	D	5.50
264	MUKTSAR	GIDDARBAHA	S-NPP	74.72134	30.32211	13:06:00	D	3.70
265	MUKTSAR	GIDDARBAHA	S-NPP	74.75108	30.36017	13:06:00	D	8.00
266	MUKTSAR	GIDDARBAHA	S-NPP	74.70116	30.43660	13:06:00	D	6.20
267	MUKTSAR	GIDDARBAHA	S-NPP	74.62099	30.45145	13:06:00	D	5.20
268	MUKTSAR	GIDDARBAHA	S-NPP	74.63062	30.47169	13:06:00	D	2.00
269	MUKTSAR	MALAUT	TERRA	74.66700	29.99500	11:15:00	D	5.00
270	MUKTSAR	MALAUT	S-NPP	74.57755	30.10385	13:06:00	D	8.70
271	MUKTSAR	MALAUT	S-NPP	74.54573	30.12473	13:06:00	D	2.80
272	MUKTSAR	MALAUT	S-NPP	74.54954	30.16697	13:06:00	D	6.30
273	MUKTSAR	MALAUT	S-NPP	74.54554	30.16958	13:06:00	D	7.60
274	MUKTSAR	MALAUT	S-NPP	74.55044	30.17063	13:06:00	D	14.60
275	MUKTSAR	MALAUT	S-NPP	74.36961	30.17814	13:06:00	D	6.50
276	MUKTSAR	MALAUT	S-NPP	74.37215	30.18799	13:06:00	D	2.60
277	MUKTSAR	MALAUT	S-NPP	74.37850	30.20328	13:06:00	D	3.30
278	MUKTSAR	MALAUT	S-NPP	74.36471	30.22689	13:06:00	D	6.40
279	MUKTSAR	MALAUT	S-NPP	74.42478	30.22699	13:06:00	D	5.00
280	MUKTSAR	MALAUT	S-NPP	74.36608	30.22853	13:06:00	D	11.10
281	MUKTSAR	MALAUT	S-NPP	74.41837	30.24319	13:06:00	D	18.80
282	MUKTSAR	MALAUT	S-NPP	74.41987	30.24447	13:06:00	D	21.70
283	MUKTSAR	MALAUT	S-NPP	74.35760	30.35374	13:06:00	D	5.70
284	MUKTSAR	MUKTSAR	S-NPP	74.54307	30.49938	13:06:00	D	11.60
285	MUKTSAR	MUKTSAR	S-NPP	74.44312	30.52390	13:06:00	D	2.90
286	MUKTSAR	MUKTSAR	S-NPP	74.52975	30.54686	13:06:00	D	6.30
287	PATIALA	NABHA	S-NPP	76.08843	30.40271	13:06:00	D	1.90
288	PATIALA	SAMANA	S-NPP	76.17311	29.82587	13:06:00	D	4.10
289	PATIALA	SAMANA	S-NPP	76.16304	29.83212	13:06:00	D	23.80
290	PATIALA	SAMANA	S-NPP	76.16292	29.83228	13:06:00	D	25.50
291	PATIALA	SAMANA	S-NPP	76.06310	29.92168	13:06:00	D	3.10
292	PATIALA	SAMANA	S-NPP	76.06257	29.92170	13:06:00	D	3.70
293	PATIALA	SAMANA	S-NPP	75.98600	29.93569	13:06:00	D	6.90
294	PATIALA	SAMANA	S-NPP	76.07922	29.95874	13:06:00	D	2.10

295	PATIALA	SAMANA	S-NPP	76.03111	29.96174	13:06:00	D	2.00
296	PATIALA	SAMANA	S-NPP	76.07789	30.04663	13:06:00	D	2.50
297	PATIALA	SAMANA	S-NPP	76.09386	30.08352	13:06:00	D	7.90
298	PATIALA	SAMANA	S-NPP	76.18591	30.17404	13:06:00	D	4.20
299	PATIALA	SAMANA	S-NPP	76.17880	30.18515	13:06:00	D	2.10
300	SANGRUR	DHURI	S-NPP	75.81564	30.37750	13:06:00	D	9.90
301	SANGRUR	DHURI	S-NPP	75.81458	30.38154	13:06:00	D	9.90
302	SANGRUR	DHURI	S-NPP	75.79363	30.39436	13:06:00	D	3.90
303	SANGRUR	DHURI	S-NPP	75.74189	30.42496	13:06:00	D	4.00
304	SANGRUR	DHURI	S-NPP	75.72076	30.52645	13:06:00	D	7.10
305	SANGRUR	MALERKOTLA	S-NPP	75.82461	30.49273	13:06:00	D	3.90
306	SANGRUR	MALERKOTLA	S-NPP	75.73160	30.60102	13:06:00	D	2.90
307	SANGRUR	MALERKOTLA	S-NPP	75.68234	30.60395	13:06:00	D	8.00
308	SANGRUR	MALERKOTLA	S-NPP	75.79191	30.60459	13:06:00	D	8.30
309	SANGRUR	MALERKOTLA	S-NPP	75.81348	30.62160	13:06:00	D	15.80
310	SANGRUR	MOONAK	S-NPP	75.89228	29.78973	13:06:00	D	2.30
311	SANGRUR	MOONAK	S-NPP	75.89205	29.84102	13:06:00	D	2.50
312	SANGRUR	MOONAK	S-NPP	76.00419	29.88051	13:06:00	D	4.00
313	SANGRUR	MOONAK	S-NPP	75.98650	29.89821	13:06:00	D	5.50
314	SANGRUR	MOONAK	S-NPP	75.95621	29.89988	13:06:00	D	5.60
315	SANGRUR	MOONAK	S-NPP	75.96034	29.90072	13:06:00	D	5.60
316	SANGRUR	MOONAK	S-NPP	75.95953	29.90137	13:06:00	D	11.20
317	SANGRUR	MOONAK	S-NPP	75.97477	29.91217	13:06:00	D	4.30
318	SANGRUR	MOONAK	S-NPP	75.97363	29.93319	13:06:00	D	2.30
319	SANGRUR	MOONAK	S-NPP	75.89775	29.93914	13:06:00	D	2.80
320	SANGRUR	MOONAK	S-NPP	75.85860	29.98921	13:06:00	D	3.70
321	SANGRUR	MOONAK	S-NPP	75.85769	29.99087	13:06:00	D	2.20
322	SANGRUR	SANGRUR	S-NPP	75.63138	30.16589	13:06:00	D	4.00
323	SANGRUR	SANGRUR	S-NPP	75.56688	30.18720	13:06:00	D	2.70
324	SANGRUR	SANGRUR	S-NPP	75.71627	30.20057	13:06:00	D	2.80
325	SANGRUR	SANGRUR	S-NPP	75.63963	30.21933	13:06:00	D	2.10
326	SANGRUR	SANGRUR	S-NPP	75.74146	30.22286	13:06:00	D	15.60
327	SANGRUR	SANGRUR	S-NPP	75.63855	30.22342	13:06:00	D	3.50

328	SANGRUR	SANGRUR	S-NPP	75.70869	30.22906	13:06:00	D	3.10
329	SANGRUR	SANGRUR	S-NPP	75.72114	30.26586	13:06:00	D	3.10
330	SANGRUR	SUNAM	S-NPP	75.88074	29.98692	13:06:00	D	4.50
331	SANGRUR	SUNAM	S-NPP	76.01149	30.05432	13:06:00	D	2.90
332	SANGRUR	SUNAM	S-NPP	75.93623	30.06035	13:06:00	D	1.50
333	SANGRUR	SUNAM	S-NPP	75.80257	30.06764	13:06:00	D	2.10
334	SANGRUR	SUNAM	S-NPP	75.98653	30.10007	13:06:00	D	7.90
335	SANGRUR	SUNAM	S-NPP	75.99063	30.10089	13:06:00	D	5.50
336	SANGRUR	SUNAM	S-NPP	76.03156	30.10902	13:06:00	D	2.10
337	SANGRUR	SUNAM	S-NPP	76.03051	30.11302	13:06:00	D	2.10
338	SANGRUR	SUNAM	S-NPP	75.66994	30.12060	13:06:00	D	3.20
339	SANGRUR	SUNAM	S-NPP	75.65485	30.14340	13:06:00	D	2.80

Details of residue burning events in Haryana on 14-Nov-2020

S. No.	District	Tehsil / Block	Satellite	Longitude	Latitude	Time (IST)	Day / Night	Fire Power (W/m ²)
1	FATEHABAD	FATEHABAD	S-NPP	75.53872	29.51596	01:48:00	N	0.40
2	FATEHABAD	FATEHABAD	METOP-2	75.51179	29.51737	20:43:00	N	9.00
3	FATEHABAD	FATEHABAD	S-NPP	75.49830	29.52050	01:48:00	N	0.60
4	FATEHABAD	FATEHABAD	S-NPP	75.49426	29.52096	01:48:00	N	0.60
5	FATEHABAD	FATEHABAD	S-NPP	75.48048	29.56908	13:06:00	D	3.70
6	FATEHABAD	FATEHABAD	S-NPP	75.58110	29.57634	13:06:00	D	4.20
7	FATEHABAD	FATEHABAD	S-NPP	75.36868	29.58536	13:06:00	D	5.00
8	FATEHABAD	FATEHABAD	S-NPP	75.60631	29.58582	13:06:00	D	3.20
9	FATEHABAD	FATEHABAD	S-NPP	75.71500	29.60778	13:06:00	D	3.50
10	FATEHABAD	FATEHABAD	S-NPP	75.73766	29.60802	13:06:00	D	2.00
11	FATEHABAD	RATIA	S-NPP	75.61465	29.62761	13:06:00	D	8.90
12	FATEHABAD	RATIA	S-NPP	75.51363	29.67692	13:06:00	D	4.70
13	FATEHABAD	RATIA	S-NPP	75.61123	29.70977	13:06:00	D	3.30
14	FATEHABAD	TOHANA	S-NPP	75.91735	29.63984	13:06:00	D	5.50
15	FATEHABAD	TOHANA	S-NPP	75.75475	29.64607	13:06:00	D	5.00
16	FATEHABAD	TOHANA	S-NPP	75.75511	29.64790	13:06:00	D	4.00
17	HISAR	HANSI	S-NPP	76.04372	29.17589	13:06:00	D	3.20
18	HISAR	HISAR	S-NPP	75.91258	29.53393	13:06:00	D	3.20
19	HISAR	NARNAUND	S-NPP	76.12096	29.20010	13:06:00	D	2.00
20	HISAR	NARNAUND	S-NPP	76.16333	29.23845	13:06:00	D	5.70
21	JIND	JIND	S-NPP	76.35479	29.39453	13:06:00	D	3.50
22	JIND	JIND	S-NPP	76.47952	29.49493	13:06:00	D	4.10
23	JIND	NARWANA	S-NPP	76.18945	29.55952	13:06:00	D	2.90
24	JIND	NARWANA	S-NPP	76.03001	29.66237	13:06:00	D	2.60
25	JIND	NARWANA	S-NPP	76.10833	29.67797	13:06:00	D	6.00
26	JIND	NARWANA	S-NPP	76.00247	29.71989	13:06:00	D	7.20
27	KAITHAL	GUHLA	S-NPP	76.28340	30.08388	13:06:00	D	3.70
28	KAITHAL	KAITHAL	S-NPP	76.29195	29.67665	13:06:00	D	2.40
29	KAITHAL	KAITHAL	S-NPP	76.29996	29.67824	13:06:00	D	7.70

30	KAITHAL	KAITHAL	S-NPP	76.29091	29.68063	13:06:00	D	5.30
31	KAITHAL	KAITHAL	S-NPP	76.19897	29.70858	13:06:00	D	1.60
32	KARNAL	ASSANDH	S-NPP	76.68372	29.53115	13:06:00	D	4.90
33	PANCHKULA	PANCHKULA	S-NPP	77.00711	30.49723	13:06:00	D	3.20
34	PANIPAT	PANIPAT	S-NPP	76.91064	29.33657	13:06:00	D	3.30
35	PANIPAT	PANIPAT	S-NPP	76.91629	29.33768	13:06:00	D	5.30
36	PANIPAT	PANIPAT	S-NPP	76.78709	29.37779	13:06:00	D	2.90
37	SIRSA	RANIA	S-NPP	74.65445	29.59479	13:06:00	D	4.30
38	SIRSA	RANIA	S-NPP	74.59752	29.61061	13:06:00	D	2.40
39	SIRSA	SIRSA	S-NPP	75.01053	29.47732	13:06:00	D	4.20
40	SIRSA	SIRSA	S-NPP	75.10719	29.48823	13:06:00	D	6.70
41	SIRSA	SIRSA	METOP-2	75.07503	29.50839	20:43:00	N	6.00
42	SIRSA	SIRSA	S-NPP	75.25098	29.51781	13:06:00	D	1.40
43	SIRSA	SIRSA	S-NPP	75.17633	29.56041	01:48:00	N	1.10
44	SIRSA	SIRSA	S-NPP	75.21474	29.75188	13:06:00	D	5.50
45	SIRSA	SIRSA	S-NPP	75.21090	29.75393	13:06:00	D	3.00
46	SIRSA	SIRSA	S-NPP	75.21546	29.75490	13:06:00	D	4.00
47	SONIPAT	GOHANA	S-NPP	76.50249	29.13762	13:06:00	D	1.90
48	SONIPAT	GOHANA	S-NPP	76.55379	29.19861	13:06:00	D	2.10
49	YAMUNANAGAR	JAGADHRI	S-NPP	77.35840	30.27939	13:06:00	D	2.20
50	YAMUNANAGAR	JAGADHRI	S-NPP	77.33994	30.29890	13:06:00	D	3.10

Details of residue burning events in Uttar Pradesh on 14-Nov-2020

S. No.	District	Tehsil / Block	Satellite	Longitude	Latitude	Time (IST)	Day / Night	Fire Power (W/m ²)
1	ALIGARH	GABHANA	S-NPP	77.96630	28.08414	01:48:00	N	0.40
2	ALLAHABAD	BARA	TERRA	81.65400	25.25100	22:15:00	N	6.80
3	ALLAHABAD	MEZA	S-NPP	82.15934	25.15505	13:00:00	D	3.70
4	AMBEDKARNAGAR	ALAPUR	S-NPP	83.04058	26.39328	13:00:00	D	3.40
5	AMBEDKARNAGAR	ALAPUR	S-NPP	83.04441	26.39386	13:00:00	D	3.40
6	AMBEDKARNAGAR	JALALPUR	S-NPP	82.85012	26.27276	13:00:00	D	2.30
7	AURAIYA	AURAIYA	S-NPP	79.56555	26.62027	01:48:00	N	0.30
8	AURAIYA	BIDHUNA	S-NPP	79.66531	26.71618	13:00:00	D	3.80
9	AURAIYA	BIDHUNA	S-NPP	79.63164	26.72220	01:48:00	N	0.30
10	AURAIYA	BIDHUNA	S-NPP	79.34555	26.72664	13:00:00	D	1.70
11	AURAIYA	BIDHUNA	S-NPP	79.34692	26.72724	13:00:00	D	3.30
12	AURAIYA	BIDHUNA	S-NPP	79.57586	26.74426	01:48:00	N	0.80
13	AURAIYA	BIDHUNA	S-NPP	79.72398	26.78882	13:00:00	D	2.20
14	AZAMGARH	BURHANPUR	S-NPP	82.98161	26.22151	01:48:00	N	0.50
15	AZAMGARH	LALGANJ	S-NPP	83.02039	25.78134	13:00:00	D	8.30
16	AZAMGARH	MEHNAGAR	S-NPP	83.09442	25.93111	13:00:00	D	1.50
17	AZAMGARH	PHULPUR	S-NPP	82.78712	25.95546	13:00:00	D	2.50
18	AZAMGARH	PHULPUR	S-NPP	82.83759	25.98021	13:00:00	D	2.60
19	BAHRAICH	BAHRAICH	S-NPP	81.88753	27.34112	01:48:00	N	0.30
20	BAHRAICH	BAHRAICH	S-NPP	81.86686	27.44311	01:48:00	N	0.40
21	BAHRAICH	BAHRAICH	S-NPP	81.54276	27.64934	01:48:00	N	2.50
22	BAHRAICH	NANPARA	S-NPP	81.53552	27.98451	13:06:00	D	1.90
23	BALLIA	BALLIA	S-NPP	84.10627	25.81083	13:00:00	D	2.50
24	BALLIA	BELTHARA ROAD	S-NPP	83.84544	26.02648	13:00:00	D	4.10
25	BALLIA	BELTHARA ROAD	S-NPP	83.81445	26.13372	13:00:00	D	3.20
26	BALLIA	BELTHARA ROAD	S-NPP	83.86206	26.13389	13:00:00	D	1.50
27	BALLIA	RASRA	S-NPP	83.88906	25.89427	13:00:00	D	2.50
28	BALLIA	RASRA	S-NPP	83.95246	25.96030	13:00:00	D	1.70
29	BALLIA	SIKANDARPUR	S-NPP	84.09101	25.92029	13:00:00	D	4.80
30	BALLIA	SIKANDARPUR	S-NPP	84.07949	25.96303	13:00:00	D	3.60

31	BALLIA	SIKANDARPUR	S-NPP	83.96533	25.99969	13:00:00	D	3.20
32	BALRAMPUR	BALRAMPUR	S-NPP	82.21736	27.36712	01:48:00	N	0.60
33	BALRAMPUR	BALRAMPUR	S-NPP	82.07217	27.48974	01:48:00	N	1.00
34	BALRAMPUR	BALRAMPUR	S-NPP	82.07288	27.49308	01:48:00	N	1.00
35	BALRAMPUR	UTRAULA	S-NPP	82.41218	27.34101	01:48:00	N	0.50
36	BALRAMPUR	UTRAULA	S-NPP	82.32993	27.34804	01:48:00	N	1.30
37	BANDA	ATARRA	S-NPP	80.46925	25.39877	13:00:00	D	2.60
38	BAREILLY	BAHERI	S-NPP	79.48277	28.70938	13:06:00	D	1.60
39	BAREILLY	BAHERI	S-NPP	79.48370	28.70956	13:06:00	D	1.10
40	BAREILLY	BAREILY	S-NPP	79.51545	28.37761	13:06:00	D	5.10
41	BAREILLY	FARIDPUR	S-NPP	79.61489	28.18785	13:06:00	D	3.00
42	BAREILLY	FARIDPUR	S-NPP	79.61593	28.18856	13:06:00	D	5.40
43	BAREILLY	FARIDPUR	S-NPP	79.54414	28.25714	01:48:00	N	0.40
44	BAREILLY	FARIDPUR	S-NPP	79.54014	28.25773	01:48:00	N	0.40
45	BAREILLY	MIRGANJ	S-NPP	79.31741	28.70930	13:06:00	D	3.70
46	BASTI	BHANPUR	S-NPP	82.73761	26.91224	13:00:00	D	3.70
47	BASTI	BHANPUR	S-NPP	82.57597	27.06721	01:48:00	N	0.40
48	BASTI	BHANPUR	S-NPP	82.78414	27.06861	13:00:00	D	2.70
49	BASTI	RUDHAULI	S-NPP	82.82823	26.93624	13:00:00	D	1.80
50	BASTI	RUDHAULI	S-NPP	82.85770	27.01525	13:00:00	D	2.10
51	BIJNOR	DHAMPUR	S-NPP	78.62446	29.18636	13:06:00	D	8.70
52	BIJNOR	NAJIBABAD	S-NPP	78.31647	29.49145	13:06:00	D	1.40
53	BIJNOR	NAJIBABAD	S-NPP	78.25291	29.52510	13:06:00	D	2.50
54	BULANDSAHAR	BULANDSHAHR	S-NPP	77.79137	28.47356	13:06:00	D	4.40
55	CHITRAKOOT	MAU	S-NPP	81.24539	25.22948	01:48:00	N	0.70
56	CHITRAKOOT	MAU	S-NPP	81.29434	25.26242	13:00:00	D	2.70
57	DEORIA	BARHAJ	S-NPP	83.83820	26.27159	13:00:00	D	3.00
58	DEORIA	BARHAJ	S-NPP	83.73064	26.31720	13:00:00	D	3.90
59	DEORIA	BHATPAR RANI	S-NPP	84.04685	26.39344	01:48:00	N	0.70
60	DEORIA	DEORIA	S-NPP	83.77602	26.41813	13:00:00	D	3.50
61	DEORIA	DEORIA	S-NPP	83.77035	26.42752	13:00:00	D	3.70
62	DEORIA	DEORIA	AQUA	83.85400	26.44800	12:50:00	D	17.30
63	DEORIA	DEORIA	AQUA	83.86500	26.44900	12:50:00	D	15.20

64	DEORIA	DEORIA	S-NPP	83.86958	26.45226	13:00:00	D	2.90
65	DEORIA	DEORIA	S-NPP	83.84208	26.47213	13:00:00	D	2.10
66	DEORIA	DEORIA	S-NPP	83.96333	26.53321	13:00:00	D	2.50
67	DEORIA	DEORIA	S-NPP	83.74700	26.53586	13:00:00	D	3.20
68	DEORIA	DEORIA	S-NPP	83.83315	26.54505	13:00:00	D	1.80
69	DEORIA	DEORIA	S-NPP	83.73637	26.59791	13:00:00	D	2.50
70	DEORIA	DEORIA	S-NPP	83.71185	26.64546	13:00:00	D	6.00
71	ETAWAH	BHARTHNA	S-NPP	79.22382	26.81422	13:00:00	D	1.80
72	ETAWAH	ETAWAH	S-NPP	79.10788	26.78559	13:00:00	D	9.90
73	ETAWAH	ETAWAH	S-NPP	79.11008	26.78614	13:00:00	D	8.90
74	ETAWAH	ETAWAH	S-NPP	79.10726	26.95077	13:00:00	D	5.50
75	ETAWAH	ETAWAH	S-NPP	79.11198	26.95162	13:00:00	D	5.20
76	FAIZABAD	BIKAPUR	S-NPP	82.28036	26.56343	13:00:00	D	2.50
77	FATEHPUR	FATEHPUR	S-NPP	80.81890	25.79223	13:00:00	D	2.40
78	GAZIPUR	GAZIPUR	S-NPP	83.54320	25.79901	13:00:00	D	3.40
79	GAZIPUR	MUHAMMADBAD	S-NPP	83.88246	25.55165	13:00:00	D	2.10
80	GHAZIABAD	MODINAGAR	S-NPP	77.67690	28.84122	13:06:00	D	2.70
81	GORAKHPUR	GOLA	S-NPP	83.36714	26.44233	13:00:00	D	1.40
82	GORAKHPUR	GORAKHPUR	S-NPP	83.53875	26.76479	13:00:00	D	2.20
83	GORAKHPUR	GORAKHPUR	S-NPP	83.54462	26.82013	13:00:00	D	3.50
84	GORAKHPUR	GORAKHPUR	S-NPP	83.55235	26.83257	01:48:00	N	0.20
85	GORAKHPUR	GORAKHPUR	S-NPP	83.49832	26.83372	13:00:00	D	2.40
86	GORAKHPUR	SAHJANWA	S-NPP	83.19939	26.76141	01:48:00	N	0.80
87	HARDOI	BILGRAM	S-NPP	80.18042	27.04132	13:00:00	D	5.60
88	HARDOI	HARDOI	S-NPP	80.31647	27.35882	01:48:00	N	0.40
89	HARDOI	HARDOI	S-NPP	80.24290	27.37015	01:48:00	N	0.70
90	HARDOI	HARDOI	S-NPP	80.33817	27.38717	13:00:00	D	14.60
91	HARDOI	SANDILA	S-NPP	80.42840	26.97566	01:48:00	N	0.60
92	HARDOI	SHAHABAD	S-NPP	79.94526	27.51604	13:06:00	D	2.80
93	HARDOI	SHAHABAD	S-NPP	79.90528	27.53436	13:06:00	D	2.90
94	JALAUN	JALAUN	S-NPP	79.44425	26.10273	13:00:00	D	8.60
95	JALAUN	JALAUN	S-NPP	79.44244	26.10801	01:48:00	N	0.70
96	JALAUN	JALAUN	S-NPP	79.45035	26.14126	13:00:00	D	3.00

97	JALAUN	JALAUN	S-NPP	79.25299	26.18434	01:48:00	N	0.70
98	JALAUN	JALAUN	S-NPP	79.41212	26.21361	13:00:00	D	1.60
99	JALAUN	JALAUN	S-NPP	79.44947	26.25594	01:48:00	N	0.30
100	JALAUN	KONCH	S-NPP	79.14857	25.96710	13:00:00	D	8.00
101	JALAUN	KONCH	S-NPP	79.13284	26.09195	13:00:00	D	13.30
102	JALAUN	KONCH	S-NPP	79.13203	26.09561	13:00:00	D	7.80
103	JALAUN	MADHOGARH	S-NPP	79.15257	26.16169	01:48:00	N	1.20
104	JAUNPUR	JAUNPUR	S-NPP	82.65330	25.85005	13:00:00	D	2.00
105	JAUNPUR	KIRAKAT	S-NPP	83.04217	25.62182	13:00:00	D	3.00
106	JAUNPUR	MACHHALI SAHAR	S-NPP	82.31098	25.67481	13:00:00	D	3.20
107	JAUNPUR	SHHGANJ	S-NPP	82.71088	25.87908	13:00:00	D	2.40
108	JAUNPUR	SHHGANJ	S-NPP	82.75557	25.89279	13:00:00	D	3.70
109	JAUNPUR	SHHGANJ	S-NPP	82.72060	25.91120	13:00:00	D	2.90
110	JAUNPUR	SHHGANJ	S-NPP	82.65300	26.00037	01:48:00	N	0.40
111	JAUNPUR	SHHGANJ	S-NPP	82.65520	26.09388	13:00:00	D	3.40
112	JAUNPUR	SHHGANJ	S-NPP	82.59594	26.13574	13:00:00	D	2.10
113	JHANSI	GARAUTHA	S-NPP	79.25024	25.63194	13:00:00	D	2.30
114	JHANSI	MOTH	S-NPP	78.85246	25.64863	13:00:00	D	3.40
115	JHANSI	MOTH	S-NPP	78.89513	25.65598	13:00:00	D	3.30
116	JHANSI	MOTH	S-NPP	78.89722	25.65696	13:00:00	D	5.30
117	JHANSI	MOTH	S-NPP	78.85580	25.65702	13:00:00	D	4.20
118	JHANSI	MOTH	S-NPP	78.89313	25.67559	13:00:00	D	6.80
119	JHANSI	MOTH	TERRA	78.88700	25.67700	11:15:00	D	8.10
120	JHANSI	MOTH	S-NPP	78.89230	25.67931	13:00:00	D	6.80
121	JHANSI	MOTH	S-NPP	78.85085	25.67942	13:00:00	D	2.00
122	JHANSI	MOTH	S-NPP	78.89149	25.68304	13:00:00	D	6.80
123	JHANSI	MOTH	S-NPP	78.89644	25.68395	13:00:00	D	7.20
124	JHANSI	MOTH	S-NPP	78.86168	25.70083	13:00:00	D	10.10
125	JHANSI	MOTH	S-NPP	78.86666	25.70174	13:00:00	D	10.10
126	JHANSI	MOTH	S-NPP	78.87579	25.70729	13:00:00	D	5.30
127	JHANSI	MOTH	S-NPP	78.92205	25.70802	13:00:00	D	3.30
128	JHANSI	MOTH	S-NPP	78.89814	25.72300	13:00:00	D	4.40
129	JHANSI	MOTH	S-NPP	78.91218	25.72942	13:00:00	D	6.80

130	JHANSI	MOTH	S-NPP	78.87082	25.72965	13:00:00	D	5.30
131	JHANSI	MOTH	S-NPP	78.91713	25.73032	13:00:00	D	7.50
132	JHANSI	MOTH	S-NPP	78.87579	25.73055	13:00:00	D	6.10
133	JHANSI	MOTH	S-NPP	78.89566	25.73416	13:00:00	D	5.70
134	JHANSI	MOTH	S-NPP	78.90265	25.73512	01:48:00	N	0.40
135	JHANSI	MOTH	S-NPP	78.84840	25.73721	13:00:00	D	4.60
136	JHANSI	MOTH	S-NPP	78.84756	25.74094	13:00:00	D	6.70
137	JHANSI	MOTH	S-NPP	78.89732	25.74994	13:00:00	D	16.20
138	JHANSI	MOTH	S-NPP	78.95253	25.77919	13:00:00	D	6.70
139	JHANSI	MOTH	S-NPP	78.95024	25.77941	13:00:00	D	3.80
140	JHANSI	MOTH	S-NPP	78.95516	25.78032	13:00:00	D	3.80
141	JHANSI	MOTH	S-NPP	78.90918	25.80273	13:00:00	D	2.90
142	JHANSI	MOTH	S-NPP	78.94779	25.81368	13:00:00	D	3.40
143	JHANSI	MOTH	S-NPP	78.92645	25.88693	13:00:00	D	1.90
144	KANNAUJ	TIRWA	S-NPP	79.76026	26.79750	13:00:00	D	2.90
145	KANPUR	BILHAUR	S-NPP	80.00397	26.69544	13:00:00	D	5.10
146	KANPUR	GHATAMPUR	S-NPP	80.27891	26.22092	13:00:00	D	2.00
147	KANPUR	KANPUR NAGAR	S-NPP	80.16410	26.48035	13:00:00	D	4.00
148	KANPUR DEHAT	AKBARPUR	S-NPP	79.97559	26.29901	13:00:00	D	2.50
149	KANPUR DEHAT	AKBARPUR	S-NPP	79.98804	26.30484	13:00:00	D	1.70
150	KANPUR DEHAT	AKBARPUR	S-NPP	79.99020	26.31615	13:00:00	D	3.90
151	KANPUR DEHAT	RASULABAD	S-NPP	79.72978	26.66992	13:00:00	D	2.50
152	KANPUR DEHAT	RASULABAD	S-NPP	79.78100	26.69624	13:00:00	D	3.70
153	KANPUR DEHAT	RASULABAD	S-NPP	79.76385	26.71152	13:00:00	D	3.40
154	KANPUR DEHAT	RASULABAD	S-NPP	79.82077	26.73099	01:48:00	N	0.50
155	KAUSHAMBI	MANJHANPUR	S-NPP	81.33367	25.44776	13:00:00	D	3.10
156	KAUSHAMBI	MANJHANPUR	S-NPP	81.31149	25.45458	13:00:00	D	3.20
157	KAUSHAMBI	SIRATHU	S-NPP	81.22318	25.62546	13:00:00	D	3.00
158	KAUSHAMBI	SIRATHU	S-NPP	81.25118	25.65479	13:00:00	D	4.20
159	KHERI	GOLA	S-NPP	80.55452	28.12154	13:06:00	D	3.80
160	KHERI	GOLA	S-NPP	80.50179	28.18034	01:48:00	N	1.20
161	KHERI	GOLA	S-NPP	80.48141	28.18673	13:06:00	D	2.50
162	KHERI	LAKHIMPUR	S-NPP	80.69950	27.86876	01:48:00	N	0.60

163	KHERI	NIGHASAN	S-NPP	80.91872	28.24159	13:06:00	D	2.10
164	KUSHINAGAR	HATA	S-NPP	83.66950	26.72480	01:48:00	N	0.50
165	KUSHINAGAR	HATA	S-NPP	83.73676	26.81758	13:00:00	D	1.90
166	KUSHINAGAR	HATA	S-NPP	83.70586	26.83354	13:00:00	D	2.80
167	KUSHINAGAR	HATA	S-NPP	83.60571	26.87954	13:00:00	D	2.30
168	KUSHINAGAR	HATA	S-NPP	83.66080	26.92848	13:00:00	D	1.90
169	KUSHINAGAR	KASAYA	S-NPP	84.05304	26.61975	13:00:00	D	3.10
170	KUSHINAGAR	KASAYA	S-NPP	84.04120	26.68653	13:00:00	D	2.70
171	KUSHINAGAR	KASAYA	S-NPP	84.03741	26.77711	13:00:00	D	2.80
172	KUSHINAGAR	TAMKUHI RAJ	S-NPP	84.05536	26.72145	13:00:00	D	4.00
173	KUSHINAGAR	TAMKUHI RAJ	S-NPP	84.05476	26.72480	13:00:00	D	4.00
174	LUCKNOW	MOHANLAL GANJ	S-NPP	81.10325	26.67729	13:00:00	D	5.80
175	LUCKNOW	MOHANLAL GANJ	S-NPP	81.14355	26.70481	13:00:00	D	5.50
176	LUCKNOW	MOHANLAL GANJ	S-NPP	81.10467	26.73747	13:00:00	D	2.60
177	MAHARAJGANJ	MAHARAJGANJ	S-NPP	83.49854	26.92590	01:48:00	N	1.20
178	MAHARAJGANJ	MAHARAJGANJ	S-NPP	83.66695	26.97978	01:48:00	N	0.40
179	MAHARAJGANJ	MAHARAJGANJ	S-NPP	83.67393	27.02138	01:48:00	N	0.70
180	MAHARAJGANJ	MAHARAJGANJ	S-NPP	83.67471	27.02490	01:48:00	N	0.70
181	MAHARAJGANJ	MAHARAJGANJ	S-NPP	83.68832	27.09507	01:48:00	N	0.70
182	MAHARAJGANJ	NAUTANWA	S-NPP	83.42825	27.33046	13:00:00	D	2.20
183	MAHARAJGANJ	NAUTANWA	S-NPP	83.42764	27.33378	13:00:00	D	3.70
184	MAHARAJGANJ	NICHLAUL	AQUA	83.71800	27.24700	12:50:00	D	19.90
185	MAHARAJGANJ	NICHLAUL	S-NPP	83.67331	27.31596	01:48:00	N	1.30
186	MAHARAJGANJ	NICHLAUL	S-NPP	83.67410	27.31947	01:48:00	N	2.30
187	MAHARAJGANJ	NICHLAUL	S-NPP	83.66967	27.32027	01:48:00	N	2.30
188	MAINPURI	MAINPURI	S-NPP	78.77243	27.30902	01:48:00	N	0.80
189	MATHURA	CHHATA	S-NPP	77.52802	27.60360	13:06:00	D	6.80
190	MAU	MADHUBAN	S-NPP	83.64384	26.09153	13:00:00	D	4.20
191	MAU	MADHUBAN	S-NPP	83.61777	26.15140	13:00:00	D	2.70
192	MAU	MADHUBAN	S-NPP	83.70432	26.19819	13:00:00	D	2.40
193	MAU	MAU	S-NPP	83.58537	26.02167	13:00:00	D	2.10
194	MEERUT	MAWANA	S-NPP	77.90520	29.05192	13:06:00	D	2.20
195	MORADABAD	THAKUR DWARA	S-NPP	78.74166	29.22951	13:06:00	D	2.40

196	MUZAFARNAGAR	BUDHANA	S-NPP	77.46933	29.32816	13:06:00	D	3.70
197	MUZAFARNAGAR	KHATOLI	TERRA	77.75000	29.32400	11:15:00	D	6.50
198	MUZAFARNAGAR	MUZAFFARNAGAR	S-NPP	77.55802	29.52064	13:06:00	D	1.50
199	PRATAPGARH	PRATAPGARH	S-NPP	81.61891	26.17715	13:00:00	D	2.10
200	PRATAPGARH	KUNDA	S-NPP	81.51360	25.87942	13:00:00	D	3.00
201	PRATAPGARH	PATTI	S-NPP	82.23859	25.94540	01:48:00	N	0.60
202	PRATAPGARH	PATTI	S-NPP	82.23930	25.94878	01:48:00	N	0.60
203	RAIBEARELI	MAHARAJGANG	S-NPP	81.05646	26.49473	13:00:00	D	1.90
204	RAIBEARELI	RAEBARELI	S-NPP	81.08034	26.27090	13:00:00	D	2.20
205	RAIBEARELI	TILOI	S-NPP	81.52744	26.52081	01:48:00	N	0.60
206	RAMPUR	BILASPUR	S-NPP	79.35506	28.85978	01:48:00	N	0.50
207	RAMPUR	BILASPUR	S-NPP	79.37190	28.88958	01:48:00	N	0.50
208	RAMPUR	BILASPUR	S-NPP	79.37505	28.90642	01:48:00	N	0.40
209	RAMPUR	BILASPUR	S-NPP	79.35866	28.90878	01:48:00	N	0.80
210	RAMPUR	BILASPUR	S-NPP	79.35456	28.90936	01:48:00	N	0.80
211	RAMPUR	BILASPUR	S-NPP	79.32108	28.91069	01:48:00	N	0.20
212	RAMPUR	BILASPUR	S-NPP	79.26579	28.93250	13:06:00	D	2.80
213	SANTKABIRNAGAR	KHALILABAD	S-NPP	83.00140	26.81701	13:00:00	D	4.00
214	SANTKABIRNAGAR	KHALILABAD	S-NPP	82.92017	26.84888	13:00:00	D	0.90
215	SANTKABIRNAGAR	KHALILABAD	S-NPP	82.92419	26.88966	13:00:00	D	4.30
216	SANTKABIRNAGAR	KHALILABAD	S-NPP	82.88256	26.90033	13:00:00	D	4.10
217	SANTRAVIDASNAGAR	AURAI	S-NPP	82.67287	25.28749	13:00:00	D	1.90
218	SANTRAVIDASNAGAR	BHADOHI	S-NPP	82.31991	25.50331	01:48:00	N	0.60
219	SHAHJAHANPUR	PUWANYA	S-NPP	80.01576	28.05126	01:48:00	N	0.30
220	SHAHJAHANPUR	PUWANYA	S-NPP	80.11106	28.13172	01:48:00	N	1.00
221	SHAHJAHANPUR	PUWANYA	S-NPP	80.21671	28.17702	01:48:00	N	0.30
222	SHAHJAHANPUR	SHAHJAHANPUR	S-NPP	79.75668	27.74803	13:06:00	D	1.40
223	SHAHJAHANPUR	TILHAR	S-NPP	79.59766	28.02950	01:48:00	N	0.10
224	SHAMLI	SHAMLI	S-NPP	77.34640	29.56253	13:06:00	D	6.20
225	SHARANPUR	BEHAT	S-NPP	77.61388	30.13231	13:06:00	D	3.00
226	SHRAWASTI	BHINGA	S-NPP	81.73434	27.82314	13:06:00	D	2.60
227	SHRAWASTI	BHINGA	S-NPP	81.73368	27.82646	13:06:00	D	2.70
228	SIDDHARTHANAGAR	BANSI	S-NPP	83.00896	27.05508	13:00:00	D	2.90

229	SIDDHARTHANAGAR	DOMARIYAGANJ	S-NPP	82.60322	27.26718	13:00:00	D	1.30
230	SIDDHARTHANAGAR	ITWA	S-NPP	82.66859	27.34173	13:00:00	D	2.50
231	SIDDHARTHANAGAR	ITWA	S-NPP	82.76926	27.37742	13:00:00	D	1.90
232	SIDDHARTHANAGAR	SHOHRATGARH	S-NPP	82.88226	27.46369	01:48:00	N	1.50
233	UNNAO	HASANGANJ	S-NPP	80.48312	26.67237	13:00:00	D	1.80
234	UNNAO	SAFIPUR	S-NPP	80.30093	26.72838	13:00:00	D	8.30

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

Study Team

ICAR – HQ	Dr K. Alagusundaram	DDG (AG. ENGG.)	ddgengg@icar.org.in
	Dr S. Bhasker	ADG (NRM)	adgagroandaf@gmail.com
	Dr K.K. Singh	ADG (AG. ENGG.)	kanchansingh044@gmail.com
ICAR - IARI	Dr V.K. Sehgal	Professor & Nodal Scientist	iaricreams@gmail.com
	Dr Rajkumar Dhakar	Scientist	raidhakar.iari@gmail.com
	Mr Rakeswer Verma	Chief Technical Officer	rakeshwar.verma@icar.gov.in
	Mr Mohd Jahangir	Lab Assistant (KRISHI)	mjahangir198@gmail.com
ICAR - ATARI	Dr Rajbir Singh	Director ATARI (Zone-I) Ludhiana	rajbirsingh.zpd@gmail.com
	Dr S.K. Singh	Director ATARI (Zone-II) Jodhpur	sushilsinghiipr@yahoo.co.in
	Dr Atar Singh	Director ATARI (Zone-III) Kanpur	zpdicarkanpur@gmail.com
ICAR - IASRI	Dr Rajender Parsad	Director IASRI	rajender.parsad@icar.gov.in

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)
