



**Bulletin
No. 49**

**Events Date:
18-Nov-2020**

**Issued on:
19-Nov-2020**



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



Prepared by:

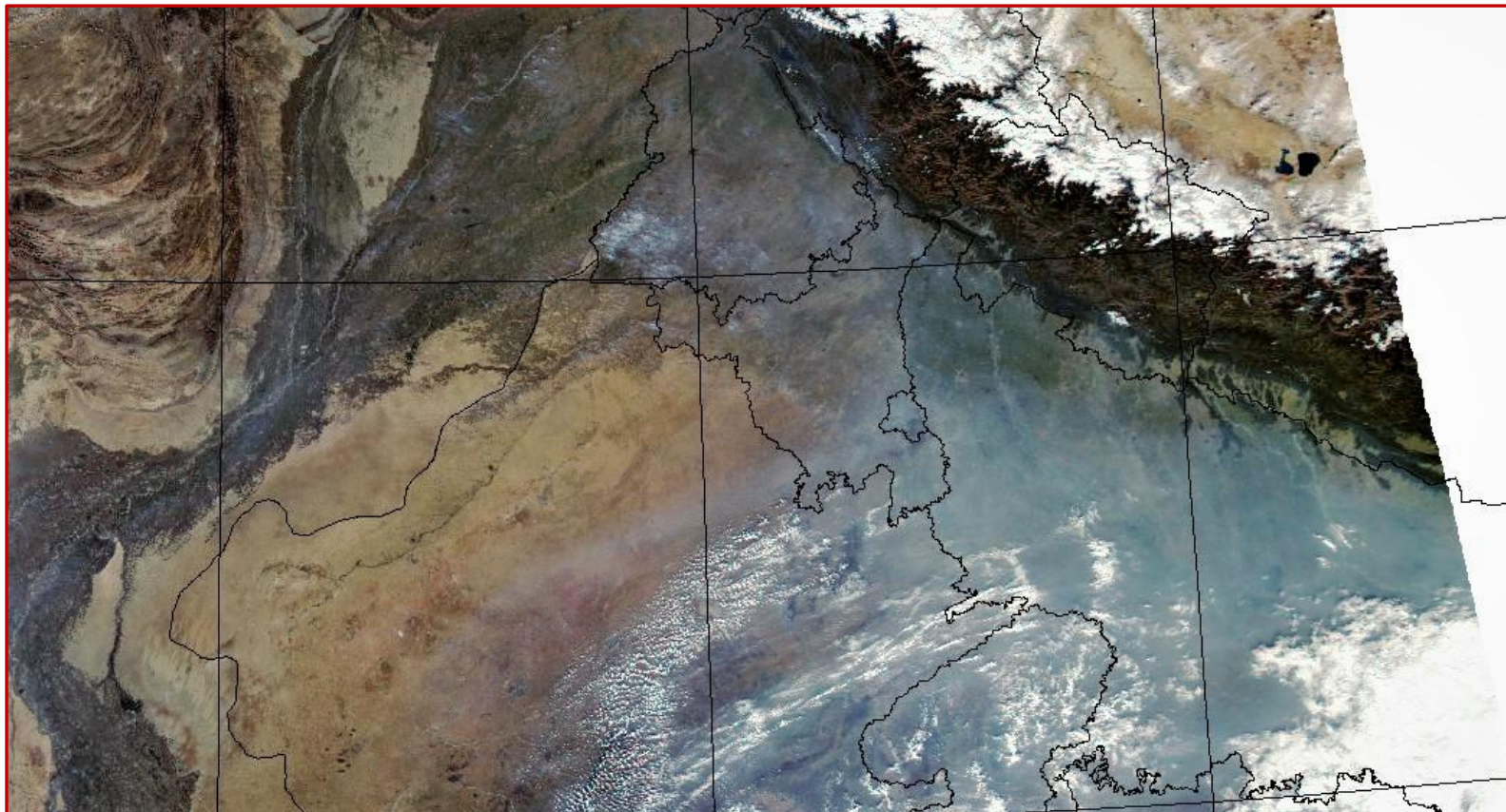
**Consortium for Research on Agroecosystem Monitoring and Modeling from Space (CREAMS) Laboratory,
Division of Agricultural Physics, ICAR – Indian Agricultural Research Institute, New Delhi – 110012**

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

Highlights for 18-November-2020

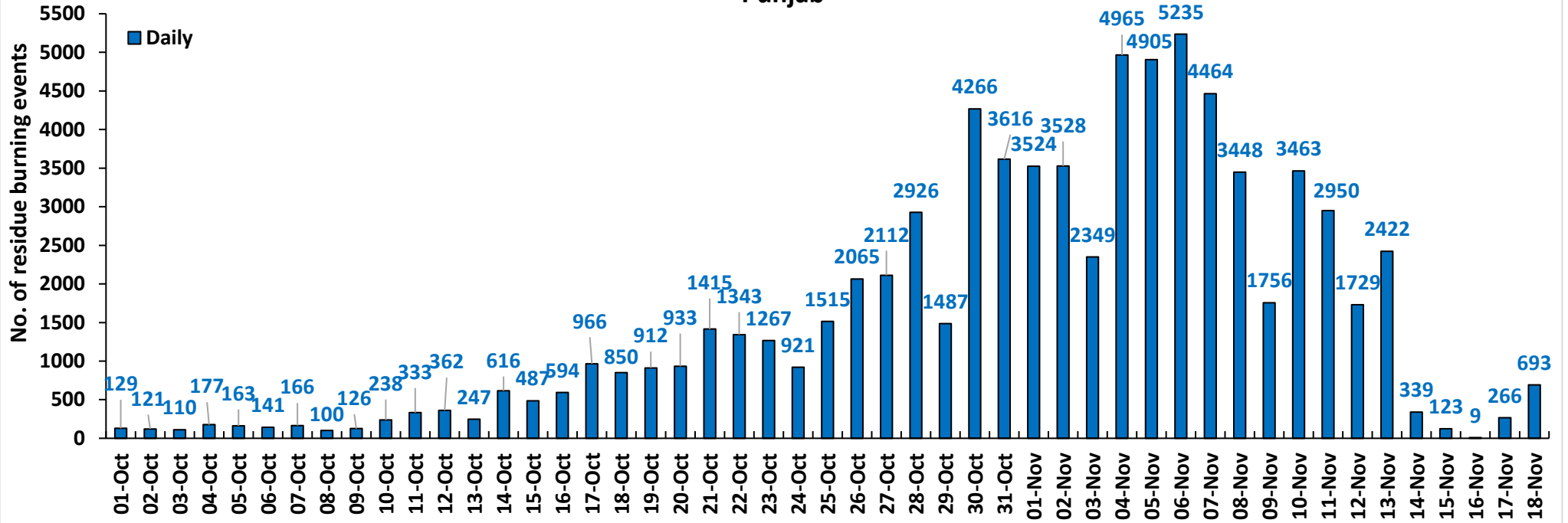
- Satellites detected **818** residue burning events in the three study States on **18-Nov-2020**.
- The state wise events detected on **18-Nov-2020** were **693** in Punjab, **67** in Haryana and **58** in UP.
- The number of events has increased from **319** on **17-Nov-2020** to **818** on **18-Nov-2020** in the three states.
- Fazilka in Punjab. Fatehabad in Haryana and Kheri in UP reported the highest number of events on **18-Nov-2020**.
- Total **84915** burning events were detected in the three States between **01-Oct-2020** and **18-Nov-2020**, which are distributed as **76872**, **5082** and **2961** in Punjab, Haryana and UP, respectively.
- In Haryana and UP, the cumulative number of burning events between **01-Oct** and **18-Nov 2020** were lower than in **2019**, while in Punjab the cumulative number of events were more than in **2019**.

[AQUA \(MODIS\) Satellite image of North India Acquired on 18-Nov-2020 at 14:05 IST by IARI Ground Station](#)

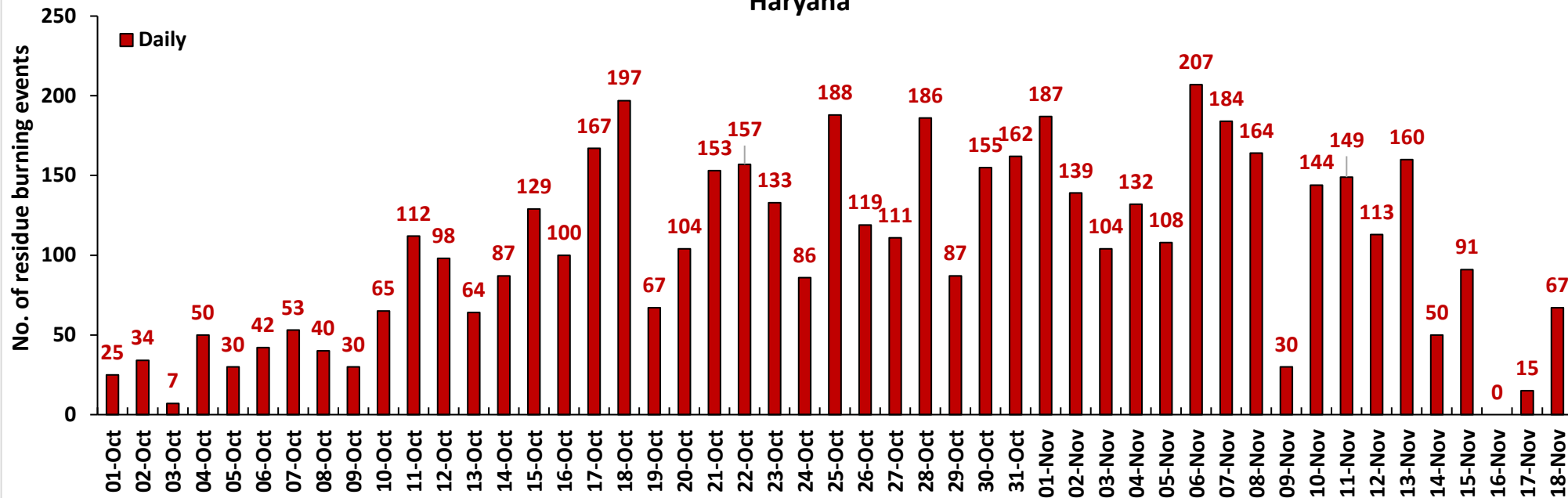


Temporal distribution of residue burning events for the three study States in 2020.

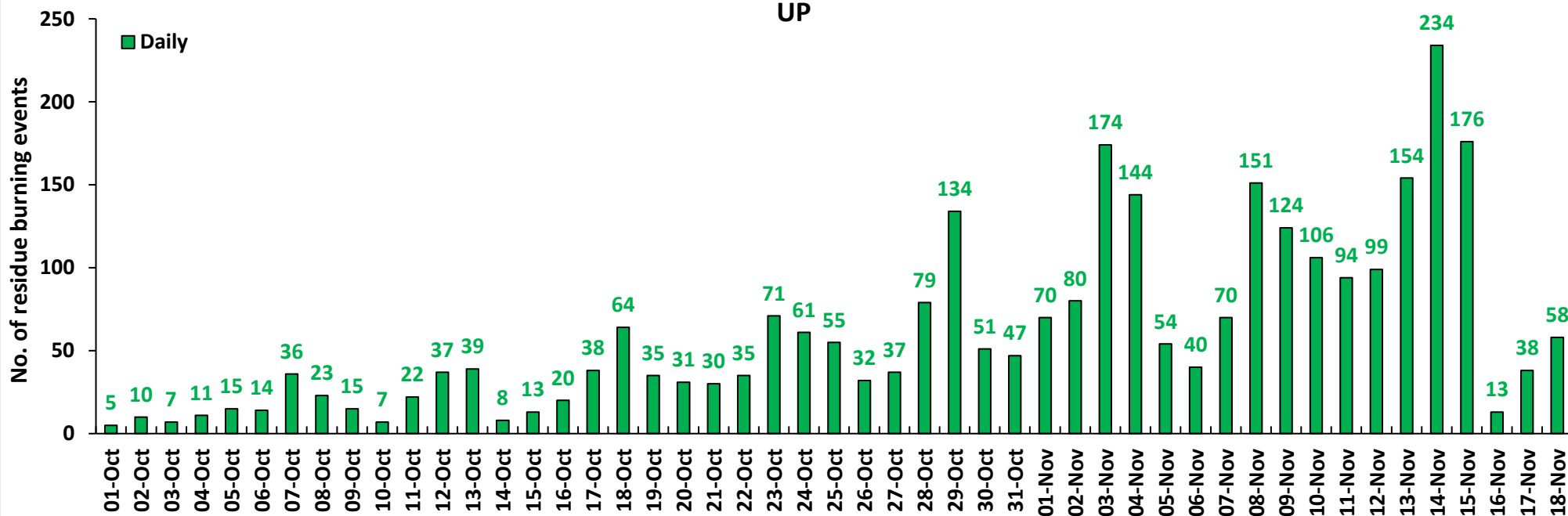
Punjab



Haryana



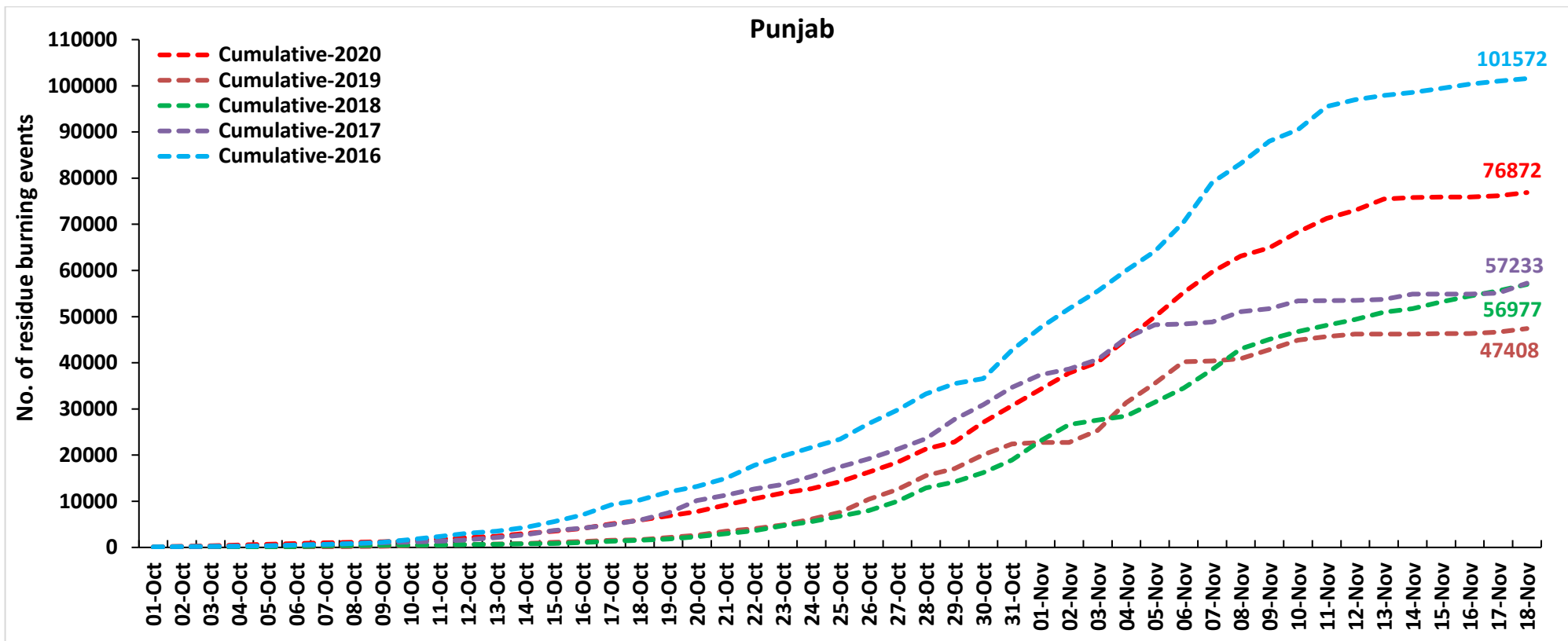
UP



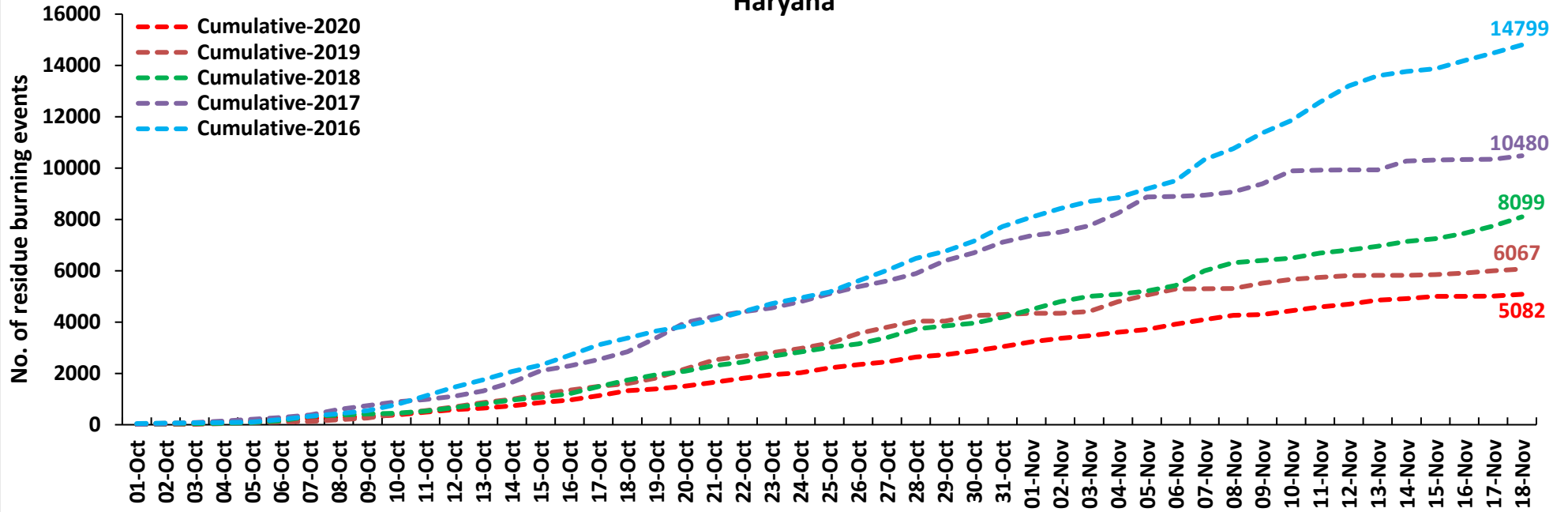
Comparison of residue burning events in current year (2020) with previous years (2019, 2018, 2017 & 2016) for the three study States

(01-Oct to 18-Nov)

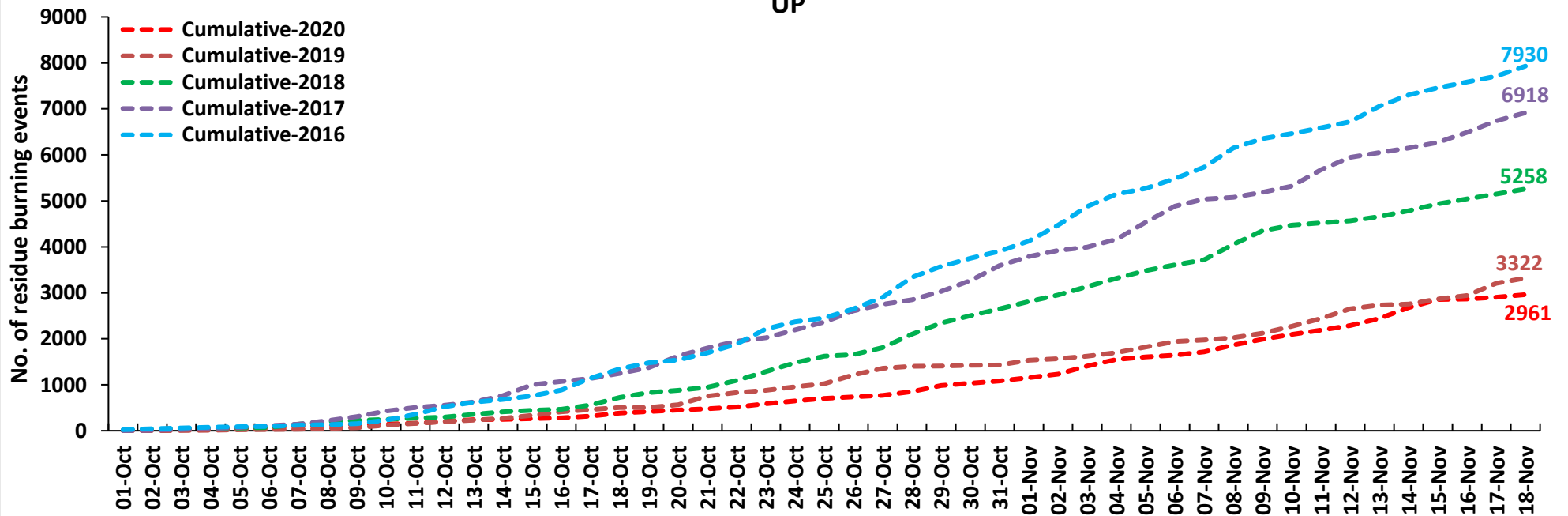
Punjab



Haryana

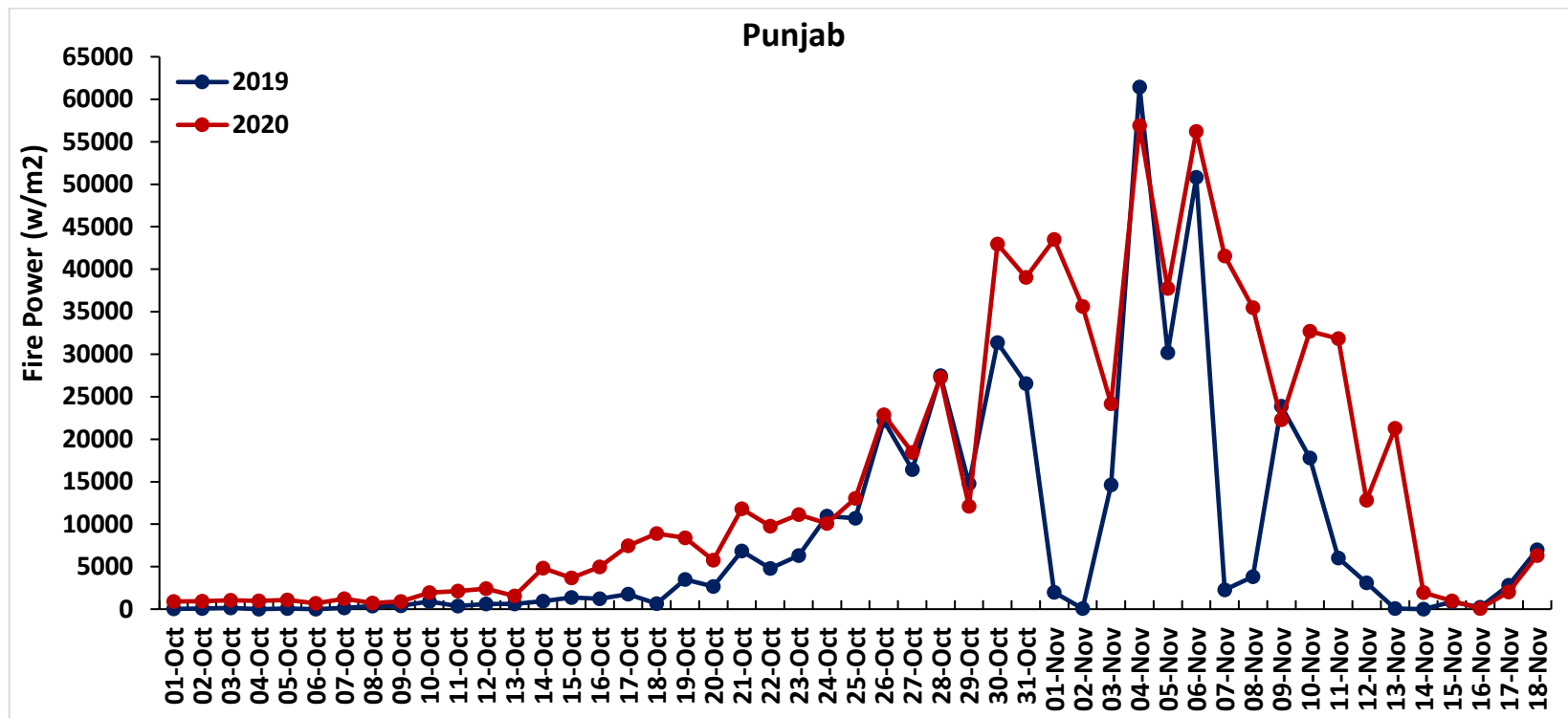


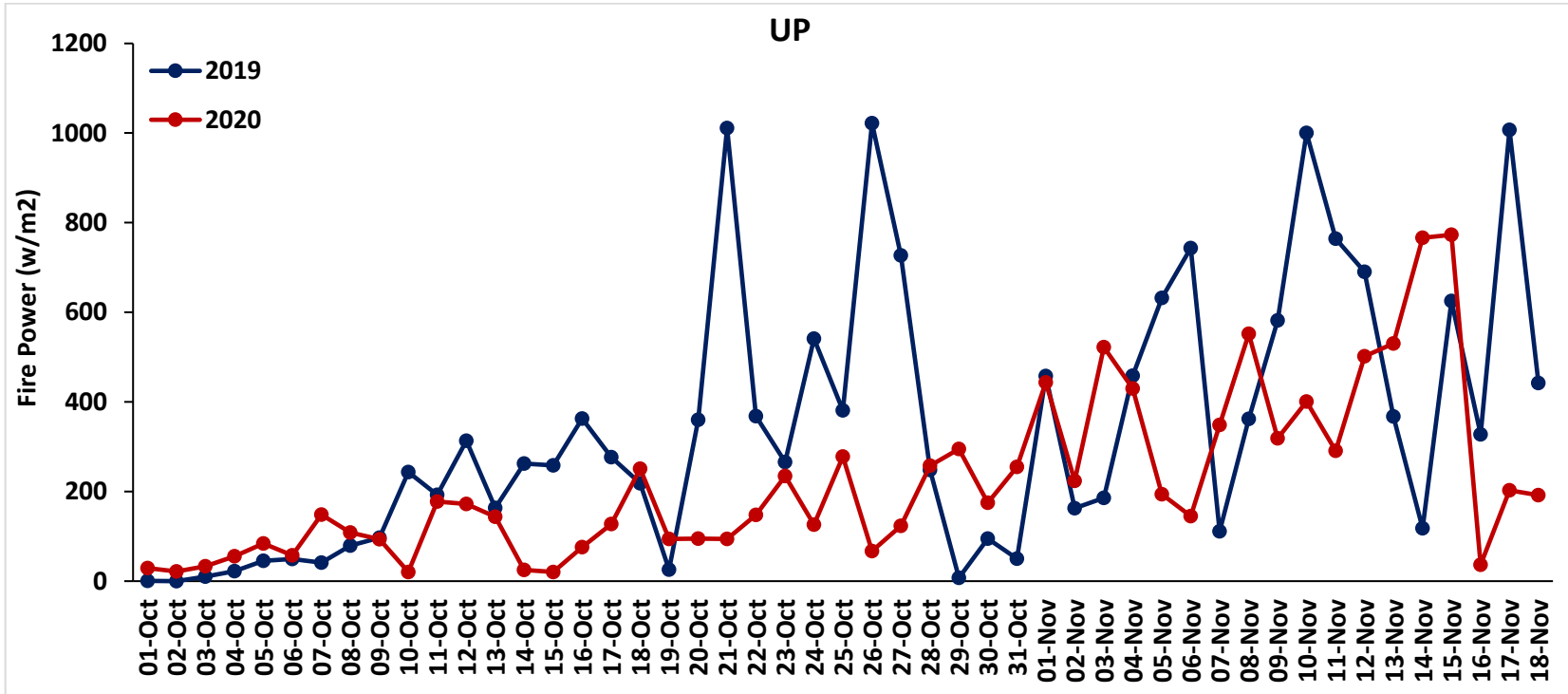
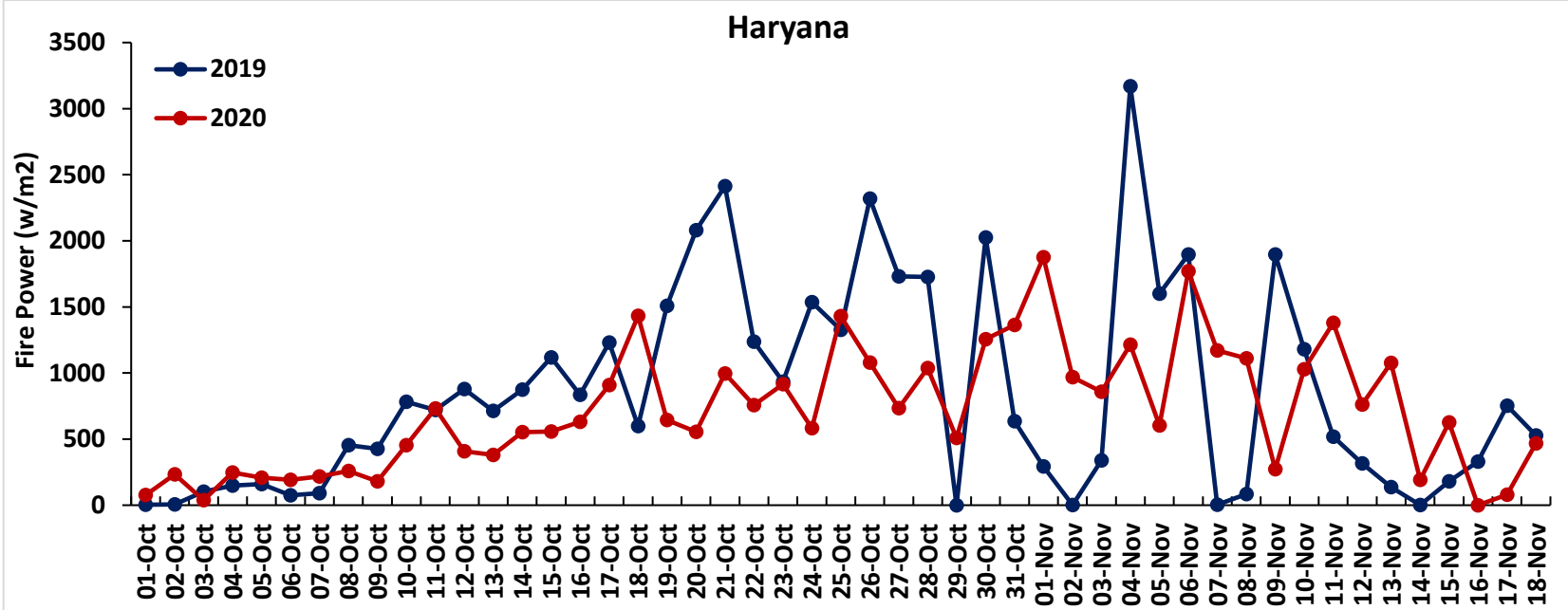
UP



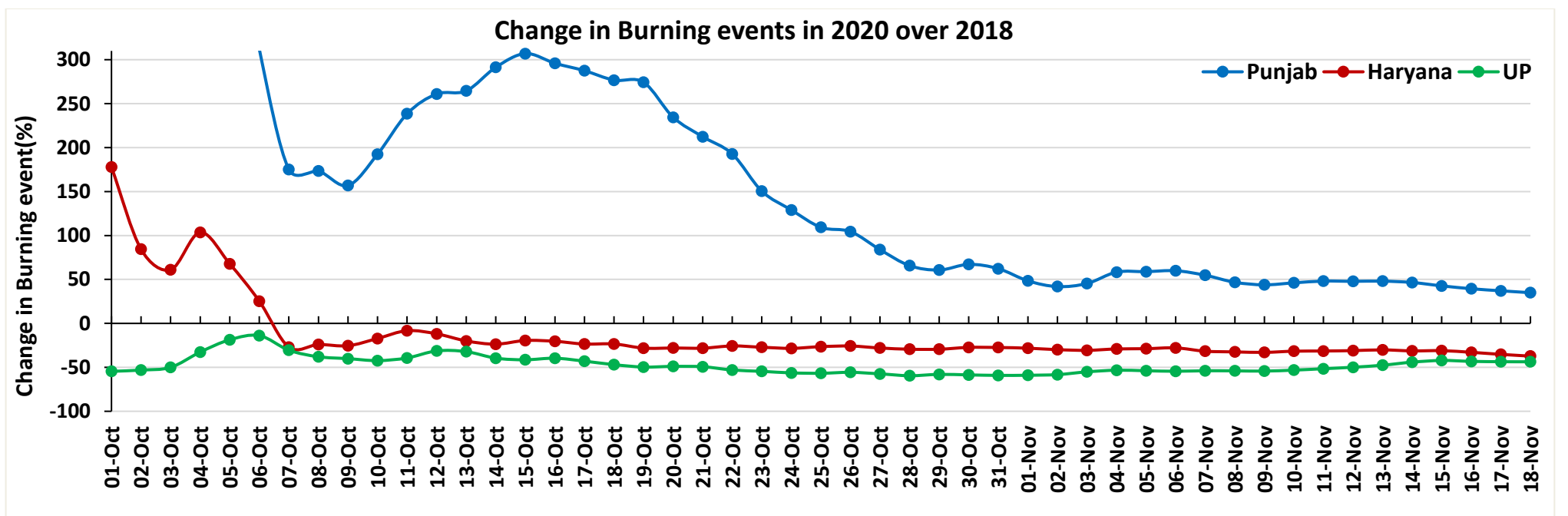
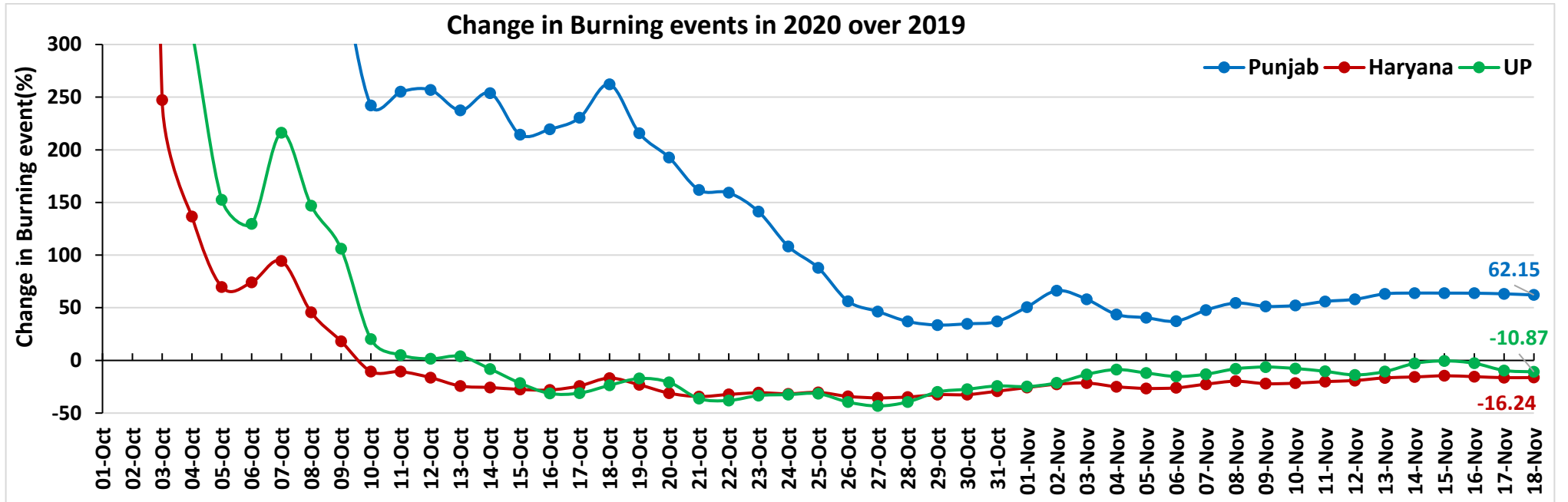
Comparison of Fire Intensity of residue burning events in current year (2020) with previous year (2019)
For the three study States

(01-Oct to 18-Nov)

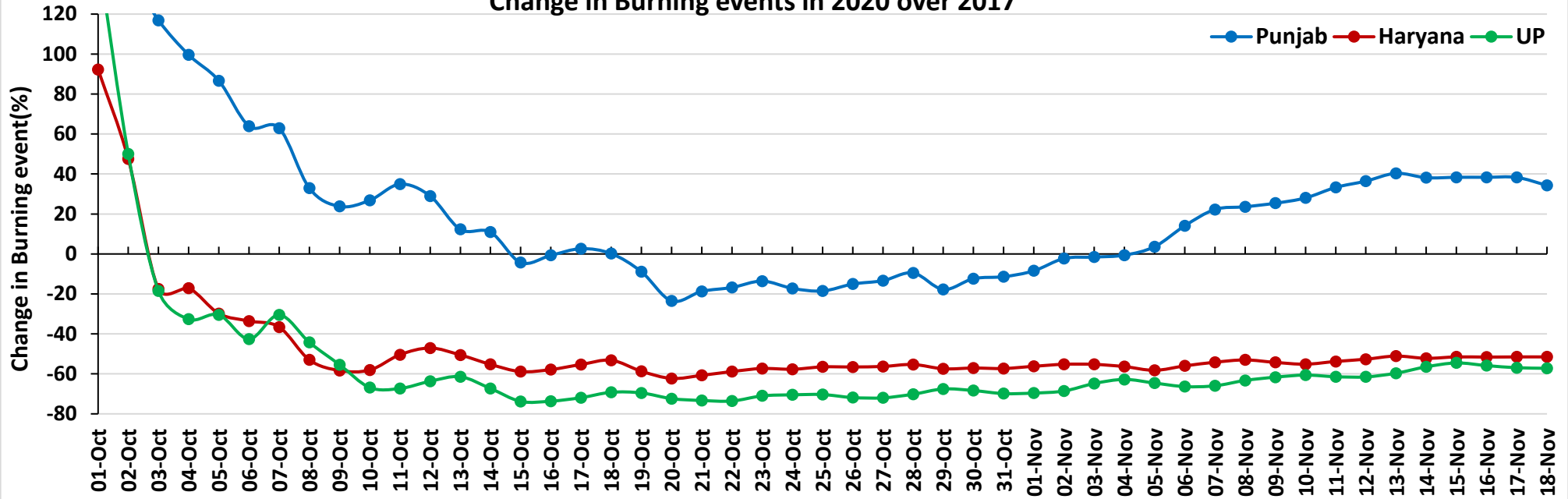




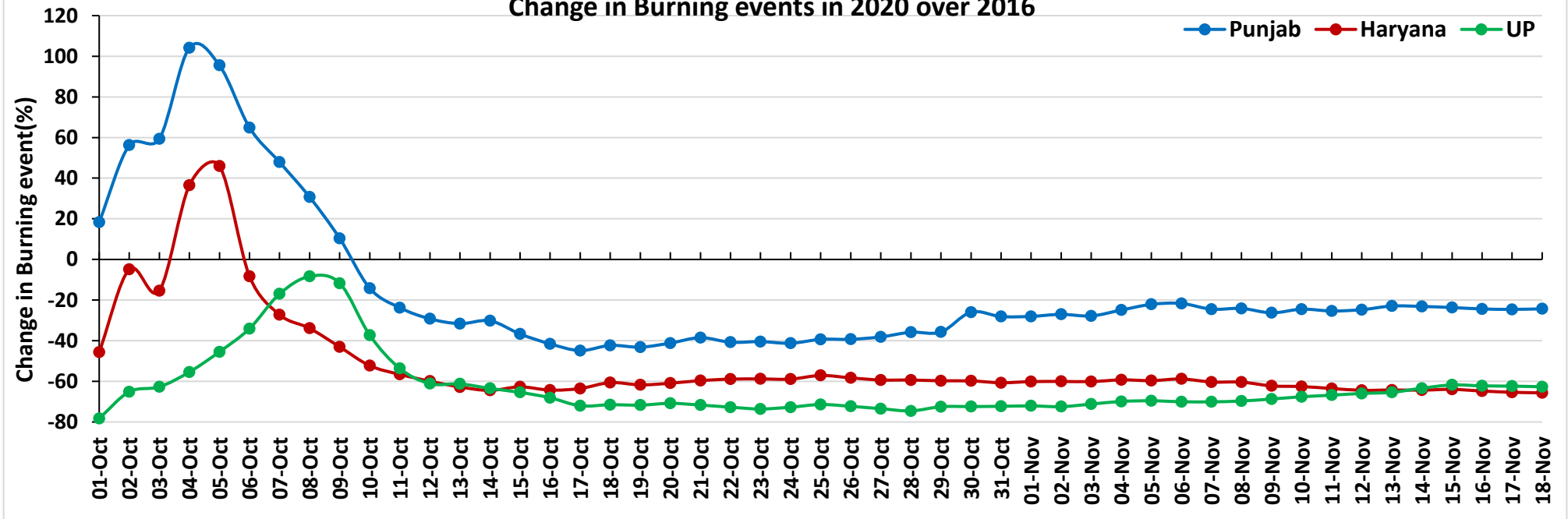
Percent Change in Burning events in 2020 over 2019, 2018, 2017 and 2016 (Daily Cumulative)



Change in Burning events in 2020 over 2017

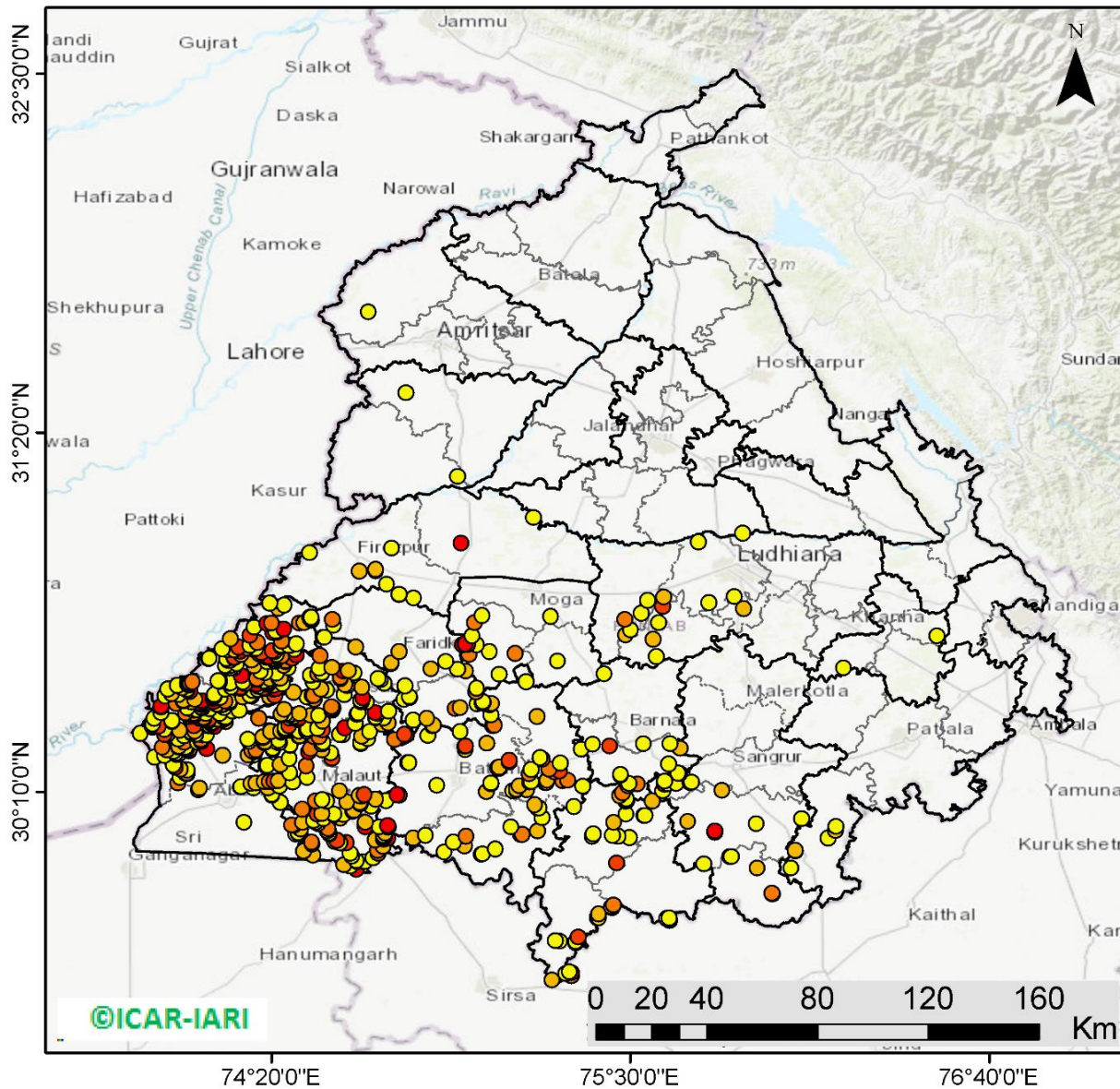


Change in Burning events in 2020 over 2016



(a) Punjab

RICE RESIDUE BURNING IN PUNJAB



693 burning events detected in Punjab on 18th November 2020

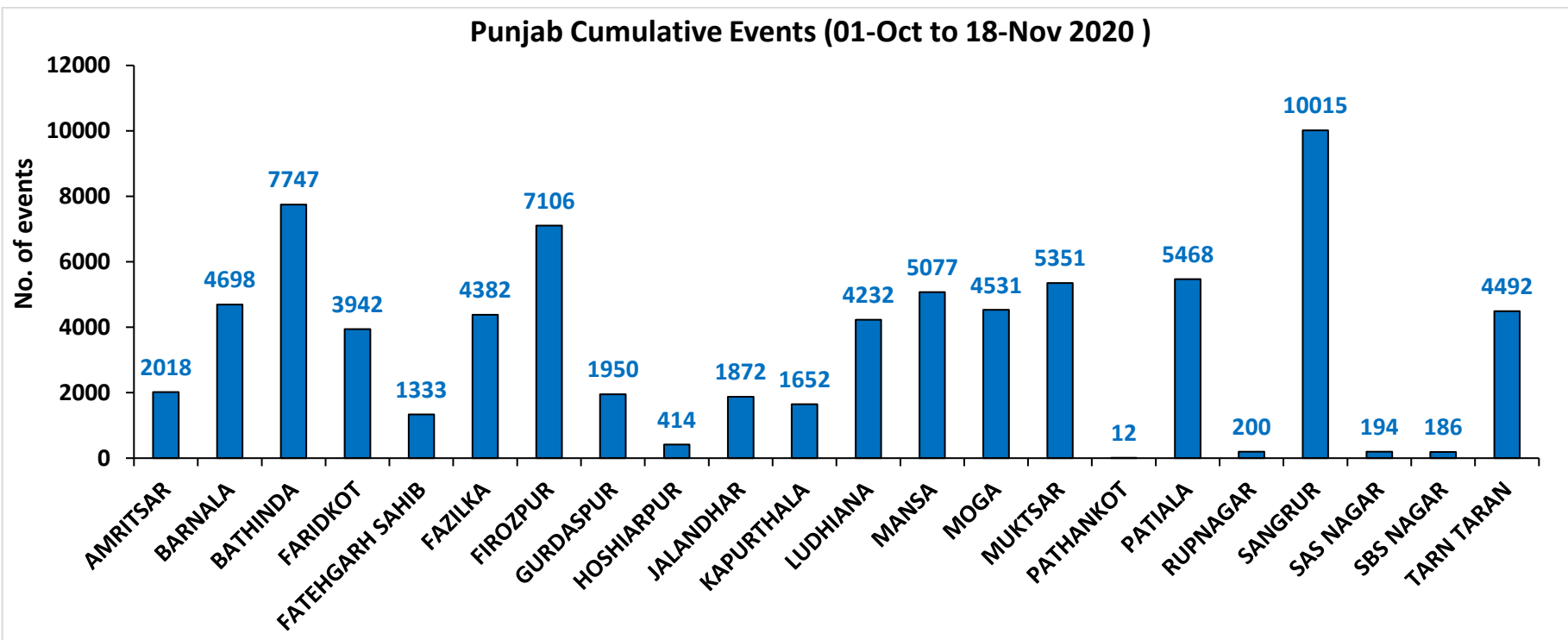
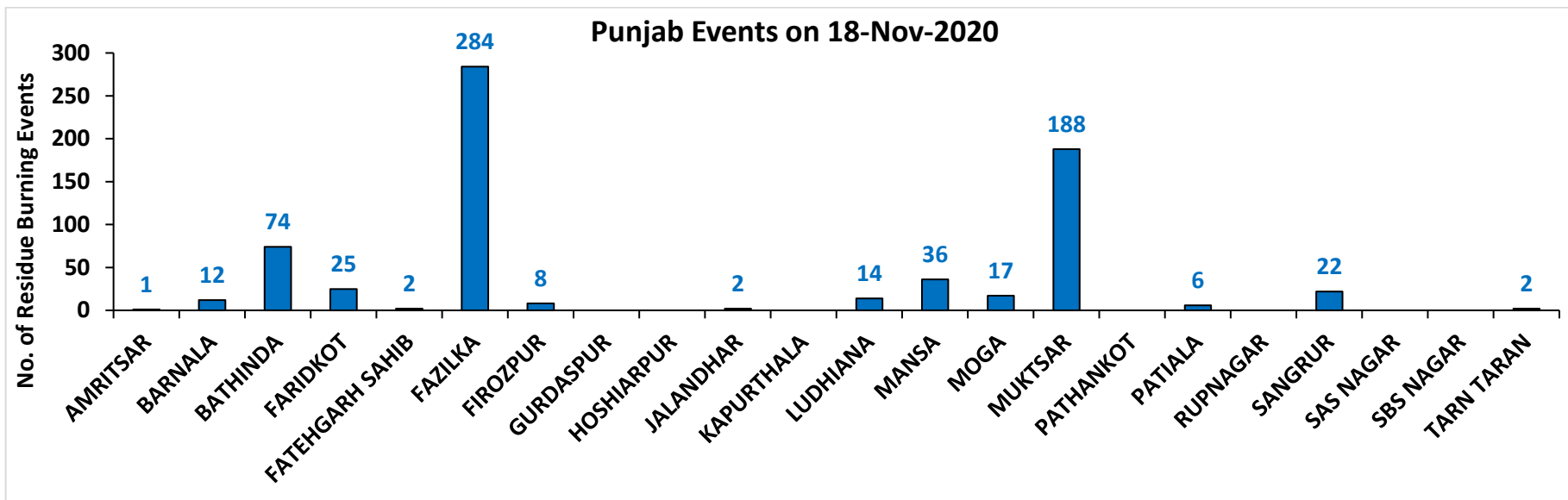
Fire Intensity (W/m²)

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



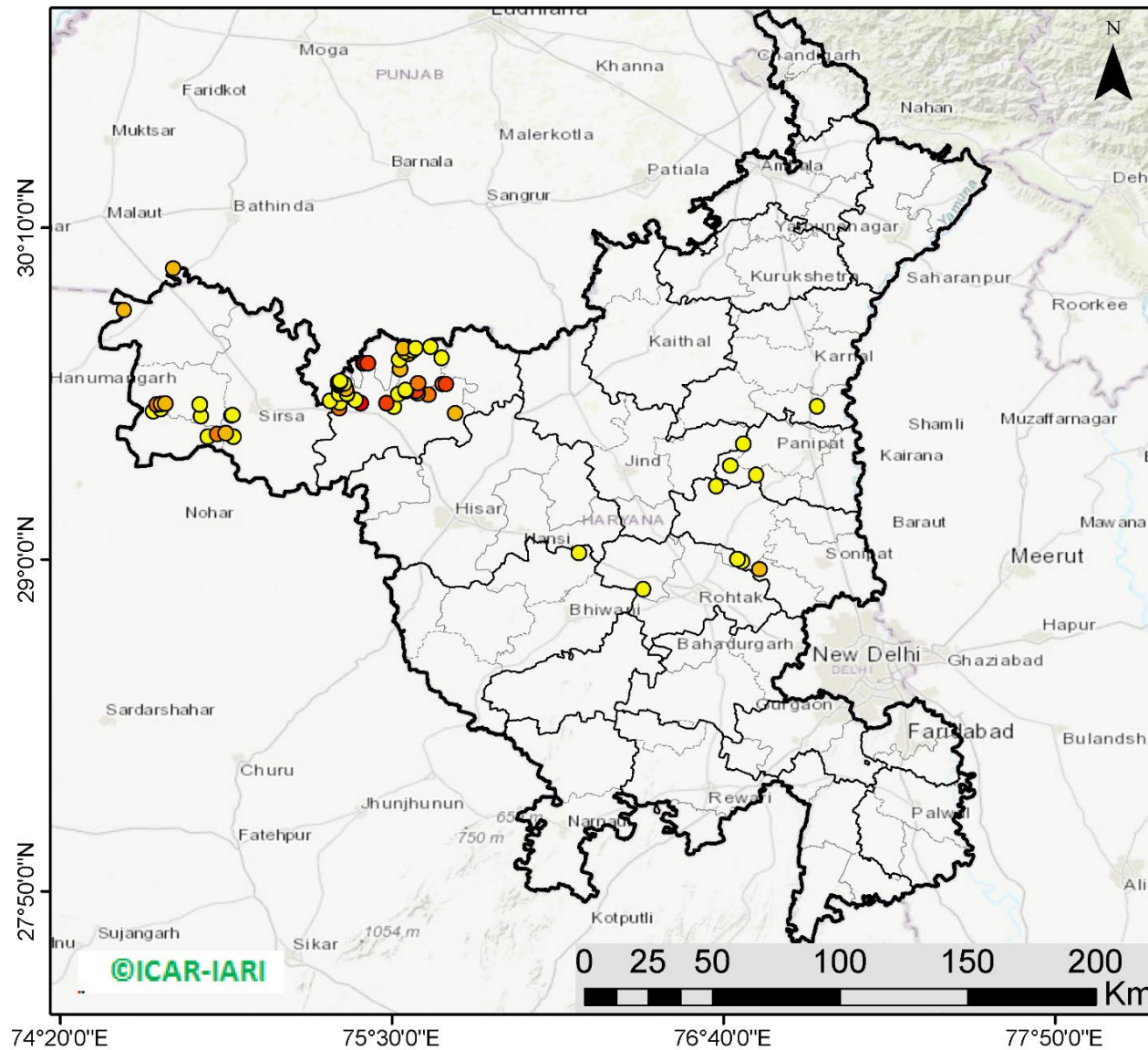
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise number of residue burning events in Punjab (01-Oct to 18-Nov 2020)



(b) Haryana

RICE RESIDUE BURNING IN HARYANA



67 burning events detected in Haryana on 18th November 2020

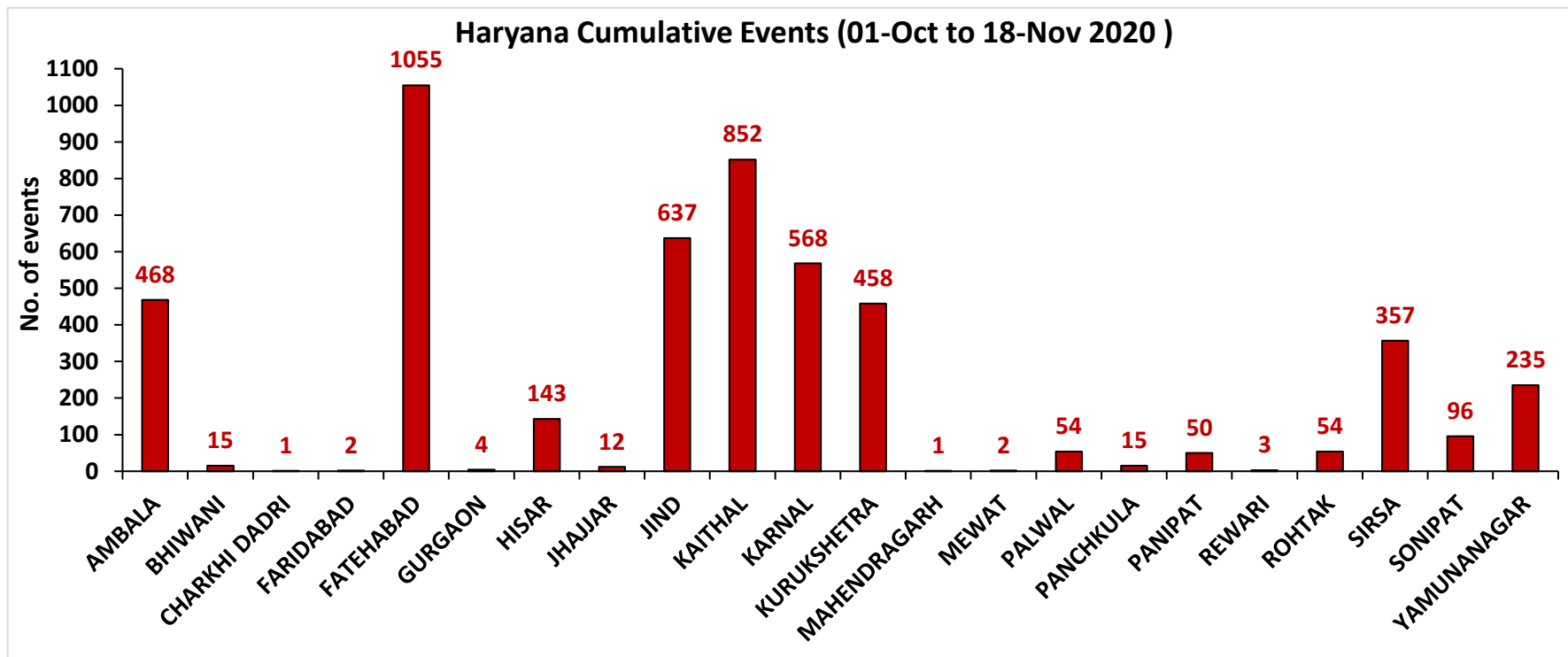
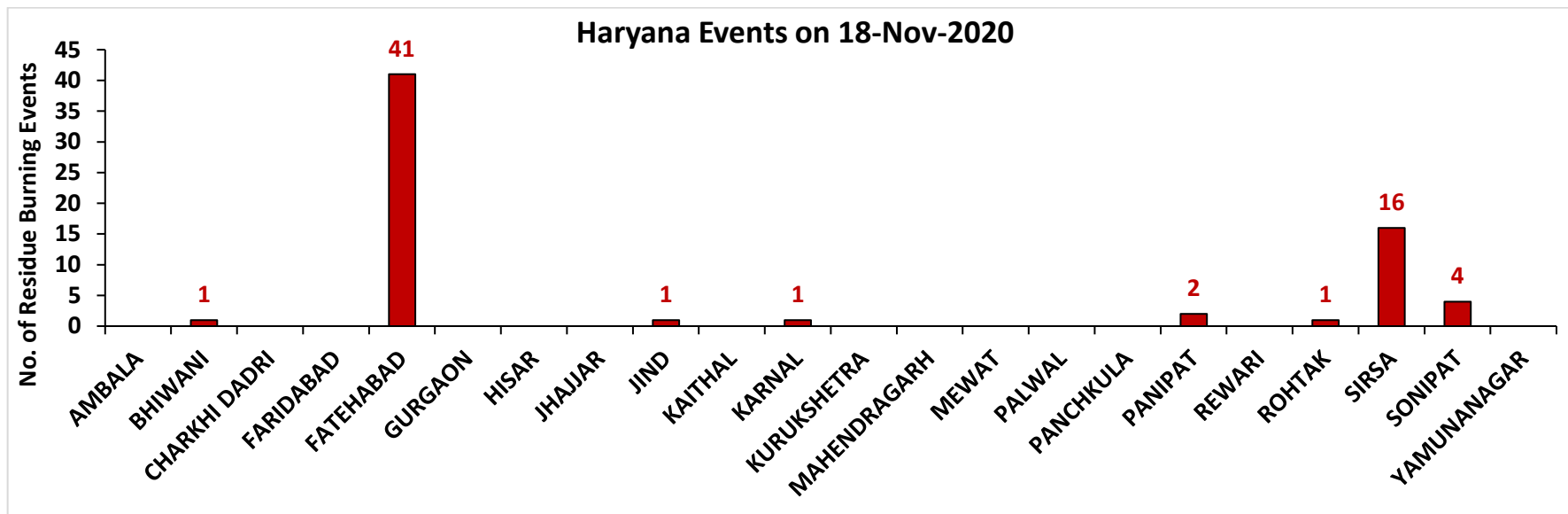
Fire Intensity (W/m²)

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



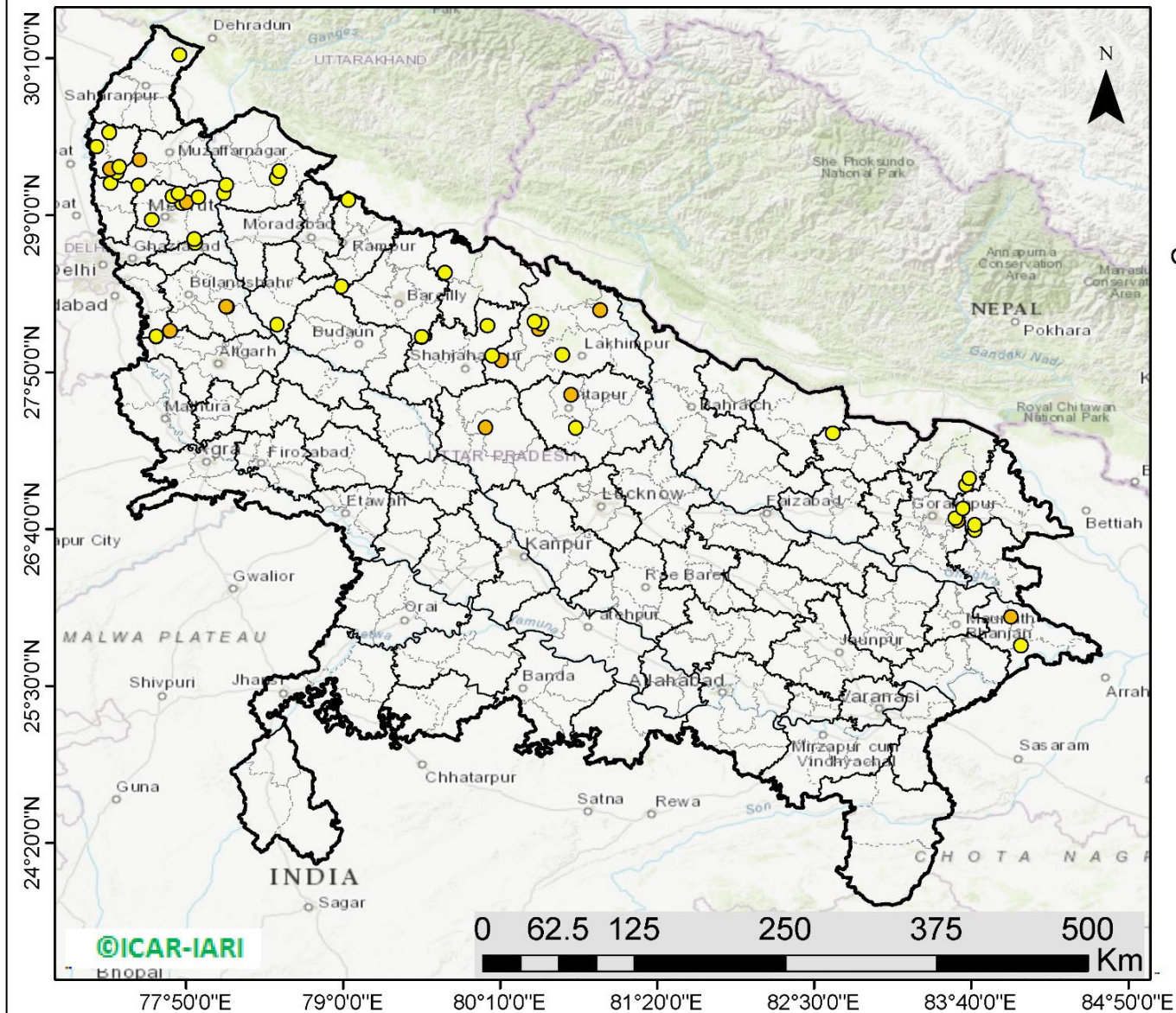
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise number of residue burning events in Haryana (01-Oct to 18-Nov 2020)



(c) Uttar Pradesh

RICE RESIDUE BURNING IN UTTAR PRADESH



58 burning events detected in Uttar Pradesh on 18th November 2020

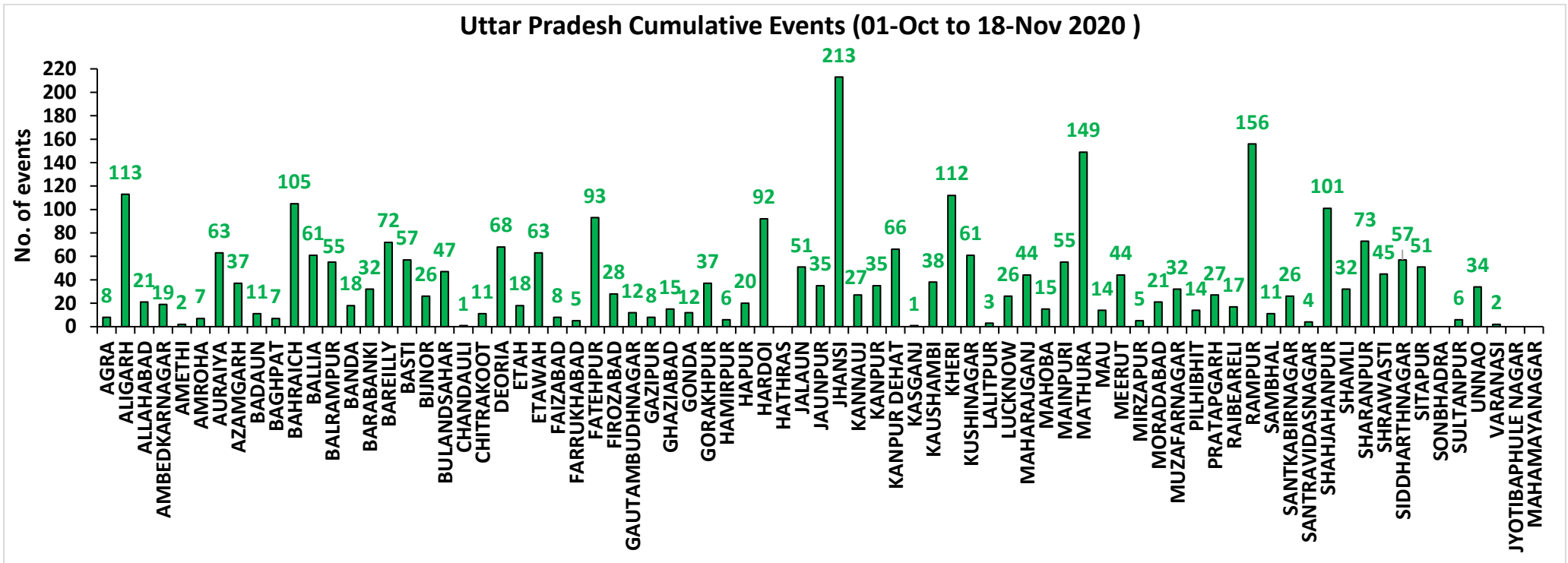
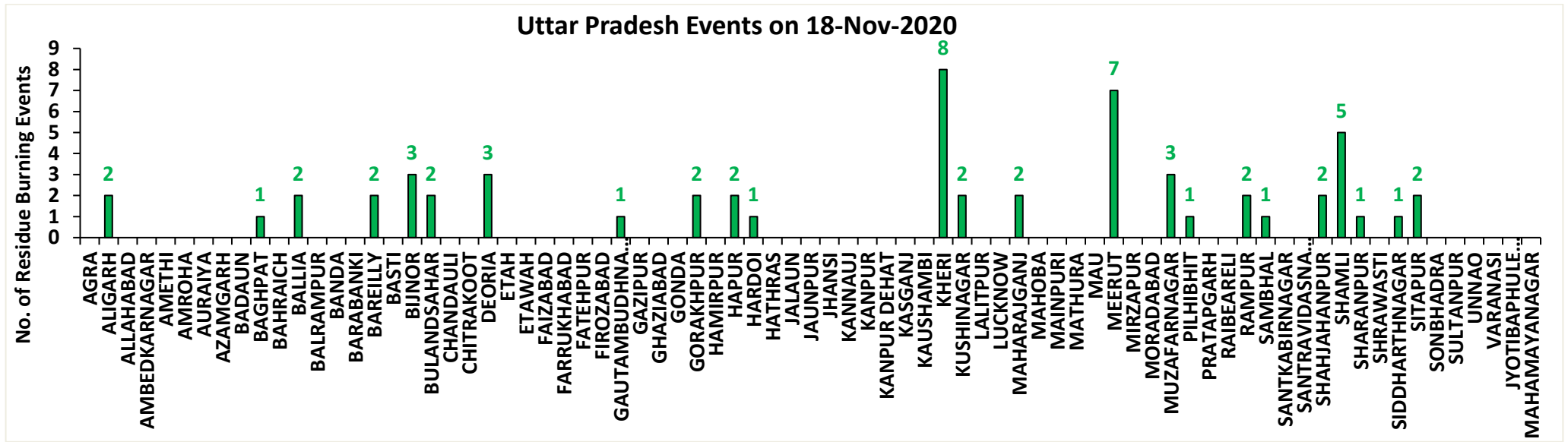
Fire Intensity (W/m²)

- 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 18-Nov 2020)



State-wise and date-wise number of residue burning events detected in 2016, 2017, 2018, 2019 and 2020
(Period: 01-October to 18-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
15-Nov	123	92	1480	5	871	91	29	107	40	107	176	111	146	123	154	390	232	1733	168	1132
16-Nov	9	23	1250	8	911	0	59	204	17	318	13	79	112	218	123	22	161	1566	243	1352
17-Nov	266	332	1132	217	638	15	85	289	12	299	38	265	103	249	130	319	682	1524	478	1067
18-Nov	693	740	1400	2147	568	67	70	356	139	312	58	113	111	180	217	818	923	1867	2466	1097
Total	76872	47408	56977	57233	101572	5082	6067	8099	10480	14799	2961	3322	5258	6918	7930	84915	56797	70334	74631	124301

District-wise and date-wise cumulative number of residue burning events detected in 2016, 2017, 2018, 2019 and 2020
(Period: 01-Oct to 18-Nov)

(a) Punjab

Districts	01-Oct to 18-Nov				
	2016	2017	2018	2019	2020
AMRITSAR	2147	1220	1219	1358	2018
BARNALA	5683	2790	3154	2935	4698
BATHINDA	8795	4756	6162	5140	7747
FARIDKOT	4612	3018	2936	2101	3942
FATEHGARH SAHIB	2456	1611	843	817	1333
FAZILKA	0	0	0	1539	4382
FIROZPUR	13361	7206	9374	4458	7106
GURDASPUR	2205	1508	1109	1452	1950
HOSHIARPUR	899	477	189	308	414
JALANDHAR	4652	1991	1344	1501	1872
KAPURTHALA	3131	1532	730	1349	1652
LUDHIANA	9465	3978	2668	2247	4232
MANSA	5596	4102	4206	3485	5077
MOGA	6388	1990	2612	2104	4531
MUKTSAR	6901	3824	5421	2711	5351
PATHANKOT	0	0	0	6	12
PATIALA	6533	5010	4193	3834	5468
RUPNAGAR	713	326	78	118	200
SANGRUR	11846	8223	7708	6321	10015
SAS NAGAR	114	107	104	150	194
SBS NAGAR	1600	793	366	263	186
TARN TARAN	4475	2771	2561	3211	4492
Total	101572	57233	56977	47408	76872

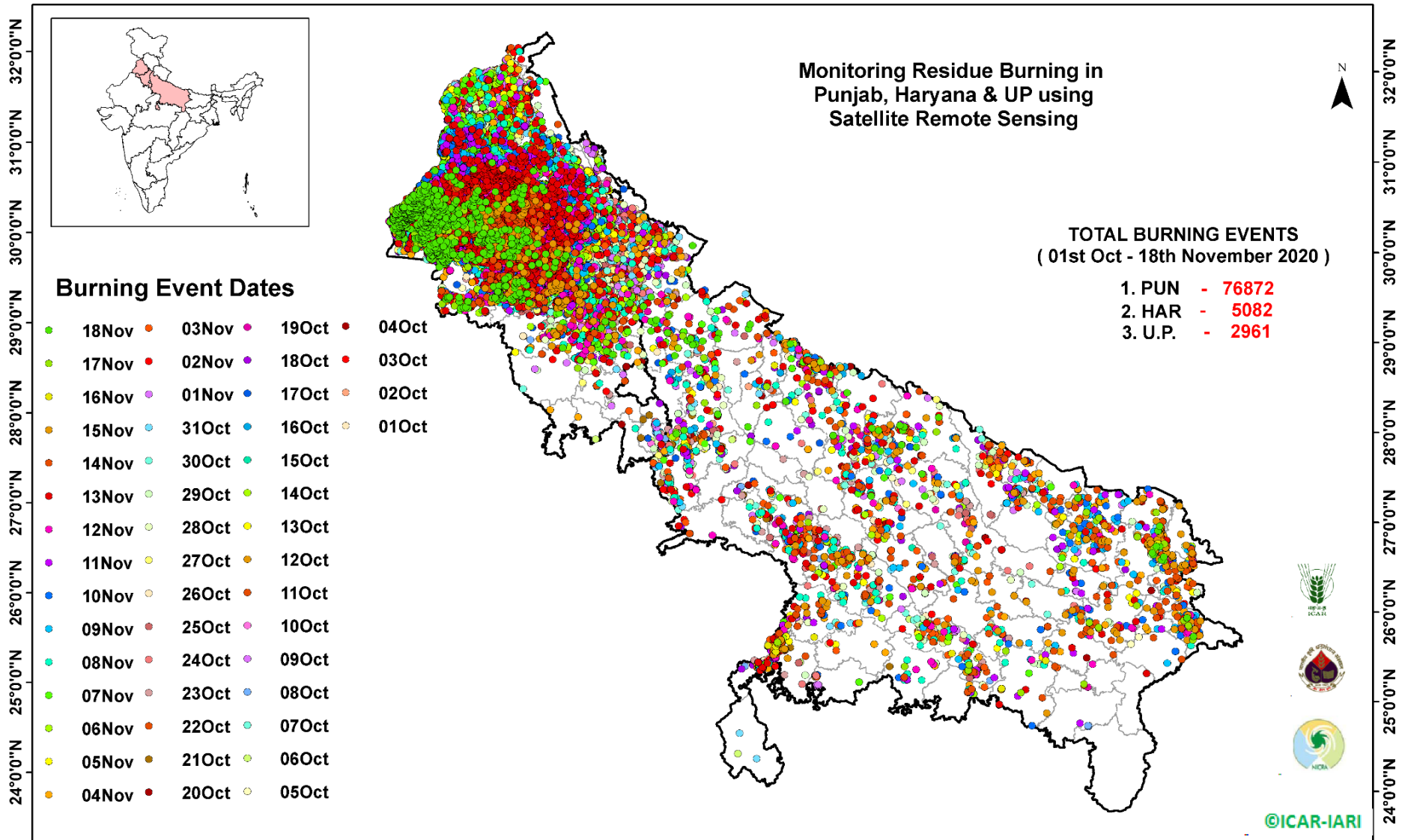
(b) Haryana

Districts	01-Oct to 18-Nov				
	2016	2017	2018	2019	2020
AMBALA	530	492	324	336	468
BHIWANI	72	27	13	10	15
CHARKHI DADRI	0	0	0	0	1
FARIDABAD	283	341	185	10	2
FATEHABAD	4689	2990	2197	1106	1055
GURGAON	0	0	0	4	4
HISAR	361	161	165	105	143
JHAJJAR	28	15	17	3	12
JIND	837	901	813	551	637
KAITHAL	1746	1491	1281	1242	852
KARNAL	1624	1484	838	1072	568
KURUKSHETRA	1076	1141	679	737	458
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	79	75	55	33	50
REWARI	0	0	0	3	3
ROHTAK	81	53	27	17	54
SIRSA	3074	947	1290	344	357
SONIPAT	80	55	30	30	96
YAMUNANAGAR	239	307	182	250	235
Total	14799	10480	8099	6067	5082

(C)
Uttar Pradesh

Districts	01-Oct to 18-Nov																
	2016	2017	2018	2019	2020	GAUTAMBUDHNAGAR	20	34	11	16	12	MUZAFARNAGAR	113	114	34	24	32
AGRA	0	0	0	4	8	GAZIPUR	13	8	10	9	8	PILHIBIT	921	708	426	341	14
ALIGARH	51	75	92	90	113	GHAZIABAD	62	41	27	12	15	PRATAPGARH	25	34	25	15	27
ALLAHABAD	4	8	11	9	21	GONDA	44	33	18	7	12	RAIBEARELI	60	53	32	18	17
AMBEDKARNAGAR	63	27	14	7	19	GORAKHPUR	49	94	79	11	37	RAMPUR	614	614	220	309	156
AMETHI	0	0	0	6	2	HAMIRPUR	0	0	1	28	6	SAMBHAL	0	0	0	8	11
AMROHA	0	0	0	7	7	HAPUR	0	0	0	9	20	SANTKABIRNAGAR	52	59	48	11	26
AURAIYA	201	165	52	37	63	HARDOI	232	189	108	76	92	SANTRAVIDASNAGAR	0	0	0	0	4
AZAMGARH	27	26	20	2	37	HATHRAS	0	0	0	1	0	SHAHJAHANPUR	1122	676	373	332	101
BADAUN	6	6	9	22	11	JALAUN	0	0	0	110	51	SHAMLI	0	0	0	22	32
BAGHPAT	0	0	0	9	7	JAUNPUR	13	11	14	6	35	SHARANPUR	90	108	51	61	73
BAHRAICH	61	39	57	41	105	JHANSI	0	0	2	121	213	SHRAWASTI	32	29	35	20	45
BALLIA	11	19	12	15	61	KANNAUJ	26	14	6	8	27	SIDDHARTHANAGAR	225	165	434	39	57
BALRAMPUR	29	27	39	5	55	KANPUR	10	7	9	6	35	SITAPUR	109	69	36	39	51
BANDA	2	14	8	9	18	KANPUR DEHAT	39	46	19	29	66	SONBHADRA	14	10	10	0	0
BARABANKI	208	150	171	59	32	KASGANJ	0	0	0	5	1	SULTANPUR	43	24	23	14	6
BAREILLY	237	198	114	106	72	KAUSHAMBI	16	36	35	14	38	UNNAO	53	45	37	27	34
BASTI	131	178	106	14	57	KHERI	399	251	183	164	112	VARANASI	1	0	0	0	2
BIJNOR	44	37	8	13	26	KUSHINAGAR	33	82	73	17	61	JYOTIBAPHULE NAGAR	10	13	4	0	0
BULANDSAHAR	22	28	12	23	47	LALITPUR	0	0	0	6	3	MAHAMAYANAGAR	2	2	8	0	0
CHANDAULI	3	4	0	0	1	LUCKNOW	57	30	26	21	26	Total	7930	6918	5258	3322	2961
CHITRAKOOT	0	0	0	4	11	MAHARAJGANJ	443	801	791	203	44						
DEORIA	44	50	43	5	68	MAHOBA	0	0	0	9	15						
ETAH	17	28	24	4	18	MAINPURI	74	82	43	39	55						
ETAWAH	109	95	41	46	63	MATHURA	1439	1082	1048	460	149						
FAIZABAD	12	9	7	5	8	MAU	10	8	9	6	14						
FARRUKHABAD	0	0	0	6	5	MEERUT	62	65	16	21	44						
FATEHPUR	51	36	69	51	93	MIRZAPUR	3	12	5	3	5						
FIROZABAD	23	18	9	14	28	MORADABAD	44	32	11	12	21						

Map of Cumulative Burning Events (01-Oct to 18-Nov 2020)



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

Details of residue burning events in Punjab on 18-Nov-2020

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	Time (IST)	Day / Night	Fire Power (W/m ²)
1	AMRITSAR	AJNALA	S-NPP	31.72613	74.64883	13:30:00	D	3.50
2	BARNALA	BARNALA	S-NPP	30.32211	75.54251	13:30:00	D	3.10
3	BARNALA	TAPPA	AQUA	30.16600	75.49100	14:05:00	D	63.80
4	BARNALA	TAPPA	S-NPP	30.18587	75.49217	13:30:00	D	7.70
5	BARNALA	TAPPA	AQUA	30.19200	75.52300	14:05:00	D	12.90
6	BARNALA	TAPPA	S-NPP	30.19308	75.49480	13:30:00	D	2.80
7	BARNALA	TAPPA	S-NPP	30.21972	75.46893	13:30:00	D	1.20
8	BARNALA	TAPPA	S-NPP	30.22302	75.46826	13:30:00	D	3.20
9	BARNALA	TAPPA	S-NPP	30.25718	75.62526	13:30:00	D	1.60
10	BARNALA	TAPPA	S-NPP	30.30481	75.34091	13:30:00	D	1.70
11	BARNALA	TAPPA	S-NPP	30.31558	75.43310	13:30:00	D	17.80
12	BARNALA	TAPPA	S-NPP	30.32083	75.37869	13:30:00	D	2.40
13	BARNALA	TAPPA	S-NPP	30.32162	75.62873	13:30:00	D	2.10
14	BATHINDA	BATHINDA	S-NPP	30.01278	74.79551	13:30:00	D	17.20
15	BATHINDA	BATHINDA	S-NPP	30.01609	74.79482	13:30:00	D	6.30
16	BATHINDA	BATHINDA	S-NPP	30.03254	74.70429	13:30:00	D	8.50
17	BATHINDA	BATHINDA	S-NPP	30.05022	74.71345	13:30:00	D	3.10
18	BATHINDA	BATHINDA	S-NPP	30.05354	74.71275	13:30:00	D	3.10
19	BATHINDA	BATHINDA	S-NPP	30.05686	74.71205	13:30:00	D	20.70
20	BATHINDA	BATHINDA	S-NPP	30.12008	74.65719	13:30:00	D	3.40
21	BATHINDA	BATHINDA	S-NPP	30.13835	74.70737	13:30:00	D	4.00
22	BATHINDA	BATHINDA	S-NPP	30.14318	74.67311	13:30:00	D	9.20
23	BATHINDA	BATHINDA	AQUA	30.15600	74.74900	14:05:00	D	14.40
24	BATHINDA	BATHINDA	AQUA	30.15800	74.74300	14:05:00	D	26.10
25	BATHINDA	BATHINDA	S-NPP	30.16570	75.03247	13:30:00	D	6.00
26	BATHINDA	BATHINDA	S-NPP	30.16888	75.11824	13:30:00	D	2.60
27	BATHINDA	BATHINDA	S-NPP	30.17075	75.13020	13:30:00	D	9.30
28	BATHINDA	BATHINDA	S-NPP	30.17405	75.12951	13:30:00	D	9.30
29	BATHINDA	BATHINDA	S-NPP	30.18582	75.13942	13:30:00	D	6.20
30	BATHINDA	BATHINDA	S-NPP	30.18711	74.87130	13:30:00	D	2.50

31	BATHINDA	BATHINDA	S-NPP	30.19195	75.04762	13:30:00	D	3.80
32	BATHINDA	BATHINDA	S-NPP	30.19526	75.04694	13:30:00	D	3.80
33	BATHINDA	BATHINDA	AQUA	30.22400	75.17100	14:05:00	D	10.70
34	BATHINDA	BATHINDA	S-NPP	30.23870	75.17793	13:30:00	D	1.80
35	BATHINDA	BATHINDA	S-NPP	30.24233	75.07022	13:30:00	D	5.50
36	BATHINDA	BATHINDA	S-NPP	30.24296	75.07421	13:30:00	D	5.50
37	BATHINDA	BATHINDA	S-NPP	30.24563	75.06953	13:30:00	D	5.50
38	BATHINDA	BATHINDA	S-NPP	30.24626	75.07352	13:30:00	D	5.50
39	BATHINDA	BATHINDA	S-NPP	30.26111	74.77715	13:30:00	D	2.80
40	BATHINDA	BATHINDA	S-NPP	30.26174	74.78116	13:30:00	D	2.80
41	BATHINDA	BATHINDA	S-NPP	30.26508	75.10669	13:30:00	D	2.70
42	BATHINDA	BATHINDA	S-NPP	30.26838	75.10600	13:30:00	D	18.90
43	BATHINDA	BATHINDA	S-NPP	30.30364	74.96369	13:30:00	D	3.30
44	BATHINDA	BATHINDA	S-NPP	30.31355	74.96162	13:30:00	D	4.90
45	BATHINDA	BATHINDA	S-NPP	30.31418	74.96561	13:30:00	D	18.30
46	BATHINDA	BATHINDA	AQUA	30.32400	75.03400	14:05:00	D	9.90
47	BATHINDA	BATHINDA	S-NPP	30.34943	74.84254	13:30:00	D	2.00
48	BATHINDA	BATHINDA	S-NPP	30.36250	74.94731	13:30:00	D	4.10
49	BATHINDA	BATHINDA	AQUA	30.38200	75.05300	14:05:00	D	14.30
50	BATHINDA	BATHINDA	AQUA	30.38300	75.05900	14:05:00	D	11.10
51	BATHINDA	RAMPURA PHUL	S-NPP	30.11835	75.31703	13:30:00	D	4.30
52	BATHINDA	RAMPURA PHUL	S-NPP	30.17241	75.16273	13:30:00	D	7.30
53	BATHINDA	RAMPURA PHUL	S-NPP	30.18366	75.34508	13:30:00	D	3.80
54	BATHINDA	RAMPURA PHUL	S-NPP	30.19551	75.22364	13:30:00	D	2.10
55	BATHINDA	RAMPURA PHUL	S-NPP	30.19613	75.22762	13:30:00	D	3.30
56	BATHINDA	RAMPURA PHUL	S-NPP	30.19800	75.17391	13:30:00	D	2.50
57	BATHINDA	RAMPURA PHUL	S-NPP	30.19862	75.17790	13:30:00	D	3.60
58	BATHINDA	RAMPURA PHUL	AQUA	30.20200	75.28000	14:05:00	D	12.90
59	BATHINDA	RAMPURA PHUL	AQUA	30.20300	75.29700	14:05:00	D	12.80
60	BATHINDA	RAMPURA PHUL	S-NPP	30.20335	75.23025	13:30:00	D	6.80
61	BATHINDA	RAMPURA PHUL	AQUA	30.23200	75.25400	14:05:00	D	11.50
62	BATHINDA	RAMPURA PHUL	AQUA	30.23400	75.27000	14:05:00	D	17.30
63	BATHINDA	RAMPURA PHUL	S-NPP	30.24075	75.23493	13:30:00	D	11.10

64	BATHINDA	RAMPURA PHUL	S-NPP	30.26012	75.27203	13:30:00	D	2.20
65	BATHINDA	RAMPURA PHUL	AQUA	30.27400	75.21400	14:05:00	D	13.10
66	BATHINDA	RAMPURA PHUL	S-NPP	30.27727	75.20690	13:30:00	D	3.00
67	BATHINDA	RAMPURA PHUL	S-NPP	30.41162	75.19673	13:30:00	D	6.00
68	BATHINDA	RAMPURA PHUL	S-NPP	30.41571	75.04768	13:30:00	D	2.80
69	BATHINDA	RAMPURA PHUL	AQUA	30.44900	75.04400	14:05:00	D	20.60
70	BATHINDA	RAMPURA PHUL	S-NPP	30.45253	75.04842	13:30:00	D	7.90
71	BATHINDA	RAMPURA PHUL	S-NPP	30.52459	75.16121	13:30:00	D	2.60
72	BATHINDA	TALWANDI SABO	S-NPP	29.96326	75.01611	13:30:00	D	2.90
73	BATHINDA	TALWANDI SABO	S-NPP	29.96389	75.02010	13:30:00	D	3.50
74	BATHINDA	TALWANDI SABO	S-NPP	29.97047	74.89529	13:30:00	D	2.70
75	BATHINDA	TALWANDI SABO	S-NPP	29.98067	75.06190	13:30:00	D	2.10
76	BATHINDA	TALWANDI SABO	S-NPP	29.99115	74.96112	13:30:00	D	6.10
77	BATHINDA	TALWANDI SABO	S-NPP	30.00264	74.92575	13:30:00	D	2.30
78	BATHINDA	TALWANDI SABO	S-NPP	30.02281	74.96692	13:30:00	D	10.60
79	BATHINDA	TALWANDI SABO	S-NPP	30.02576	74.83418	13:30:00	D	3.70
80	BATHINDA	TALWANDI SABO	AQUA	30.02800	75.14400	14:05:00	D	9.10
81	BATHINDA	TALWANDI SABO	AQUA	30.02800	75.14900	14:05:00	D	12.30
82	BATHINDA	TALWANDI SABO	S-NPP	30.03858	75.19808	13:30:00	D	5.60
83	BATHINDA	TALWANDI SABO	S-NPP	30.05258	75.11307	13:30:00	D	3.70
84	BATHINDA	TALWANDI SABO	S-NPP	30.08192	75.21382	13:30:00	D	2.70
85	BATHINDA	TALWANDI SABO	S-NPP	30.11370	75.19908	13:30:00	D	3.10
86	BATHINDA	TALWANDI SABO	S-NPP	30.11432	75.20306	13:30:00	D	3.30
87	BATHINDA	TALWANDI SABO	S-NPP	30.12537	75.18884	13:30:00	D	6.20
88	FARIDKOT	FARIDKOT	S-NPP	30.51030	74.76784	13:30:00	D	2.20
89	FARIDKOT	FARIDKOT	S-NPP	30.51996	74.69935	13:30:00	D	5.00
90	FARIDKOT	FARIDKOT	AQUA	30.56600	74.85200	14:05:00	D	9.00
91	FARIDKOT	FARIDKOT	S-NPP	30.58196	74.72368	13:30:00	D	8.70
92	FARIDKOT	FARIDKOT	S-NPP	30.58527	74.72298	13:30:00	D	8.70
93	FARIDKOT	FARIDKOT	S-NPP	30.58926	74.90048	13:30:00	D	2.40
94	FARIDKOT	FARIDKOT	AQUA	30.62200	74.74800	14:05:00	D	8.50
95	FARIDKOT	FARIDKOT	S-NPP	30.70760	74.53574	13:30:00	D	4.30
96	FARIDKOT	FARIDKOT	AQUA	30.72600	74.53100	14:05:00	D	10.80

97	FARIDKOT	FARIDKOT	S-NPP	30.80625	74.74821	13:30:00	D	1.50
98	FARIDKOT	FARIDKOT	S-NPP	30.80861	74.74792	13:30:00	D	5.00
99	FARIDKOT	JAITO	S-NPP	30.38235	74.85635	13:30:00	D	2.30
100	FARIDKOT	JAITO	S-NPP	30.38298	74.86035	13:30:00	D	6.40
101	FARIDKOT	JAITO	S-NPP	30.39899	74.79501	13:30:00	D	3.90
102	FARIDKOT	JAITO	AQUA	30.40500	74.83900	14:05:00	D	8.20
103	FARIDKOT	JAITO	AQUA	30.43700	74.93100	14:05:00	D	11.20
104	FARIDKOT	JAITO	AQUA	30.43900	74.94700	14:05:00	D	7.90
105	FARIDKOT	JAITO	S-NPP	30.45226	75.00311	13:30:00	D	2.70
106	FARIDKOT	JAITO	S-NPP	30.45476	75.01909	13:30:00	D	3.10
107	FARIDKOT	JAITO	S-NPP	30.45539	75.02309	13:30:00	D	3.10
108	FARIDKOT	JAITO	S-NPP	30.45869	75.02240	13:30:00	D	3.00
109	FARIDKOT	JAITO	S-NPP	30.46594	74.76436	13:30:00	D	3.70
110	FARIDKOT	JAITO	S-NPP	30.47242	74.78374	13:30:00	D	2.30
111	FARIDKOT	JAITO	S-NPP	30.47573	74.78305	13:30:00	D	2.90
112	FARIDKOT	JAITO	S-NPP	30.56454	74.93873	13:30:00	D	1.10
113	FATEHGARH SAHIB	ALMOH	S-NPP	30.56892	76.19336	13:30:00	D	2.10
114	FATEHGARH SAHIB	BASSI PATHANAN	S-NPP	30.67335	76.49696	13:30:00	D	2.10
115	FAZILKA	ABOHAR	S-NPP	30.02931	74.41328	13:30:00	D	2.20
116	FAZILKA	ABOHAR	S-NPP	30.06758	74.24509	13:30:00	D	4.90
117	FAZILKA	ABOHAR	S-NPP	30.13282	74.36201	13:30:00	D	3.60
118	FAZILKA	ABOHAR	S-NPP	30.15618	74.33598	13:30:00	D	1.40
119	FAZILKA	ABOHAR	S-NPP	30.15951	74.33527	13:30:00	D	3.80
120	FAZILKA	ABOHAR	AQUA	30.17300	74.09700	14:05:00	D	9.30
121	FAZILKA	ABOHAR	S-NPP	30.17761	74.27660	13:30:00	D	1.90
122	FAZILKA	ABOHAR	S-NPP	30.17810	74.09984	13:30:00	D	7.20
123	FAZILKA	ABOHAR	S-NPP	30.17819	74.32285	13:30:00	D	7.40
124	FAZILKA	ABOHAR	S-NPP	30.18101	74.23363	13:30:00	D	5.10
125	FAZILKA	ABOHAR	S-NPP	30.18294	74.23441	13:30:00	D	3.70
126	FAZILKA	ABOHAR	AQUA	30.19300	74.26800	14:05:00	D	7.10
127	FAZILKA	ABOHAR	AQUA	30.19400	74.28300	14:05:00	D	7.00
128	FAZILKA	ABOHAR	S-NPP	30.19895	74.31113	13:30:00	D	6.50
129	FAZILKA	ABOHAR	AQUA	30.19900	74.32600	14:05:00	D	14.50

130	FAZILKA	ABOHAR	AQUA	30.20100	74.34100	14:05:00	D	18.40
131	FAZILKA	FAZILKA	AQUA	30.19400	74.03000	14:05:00	D	12.70
132	FAZILKA	FAZILKA	S-NPP	30.21283	74.03695	13:30:00	D	1.80
133	FAZILKA	FAZILKA	S-NPP	30.22358	74.06018	13:30:00	D	10.40
134	FAZILKA	FAZILKA	S-NPP	30.22625	74.05535	13:30:00	D	10.40
135	FAZILKA	FAZILKA	S-NPP	30.22692	74.05946	13:30:00	D	10.40
136	FAZILKA	FAZILKA	S-NPP	30.23764	74.06139	13:30:00	D	3.20
137	FAZILKA	FAZILKA	S-NPP	30.24097	74.03934	13:30:00	D	8.20
138	FAZILKA	FAZILKA	AQUA	30.24600	74.02200	14:05:00	D	22.80
139	FAZILKA	FAZILKA	S-NPP	30.25435	74.01509	13:30:00	D	1.30
140	FAZILKA	FAZILKA	S-NPP	30.27995	73.95432	13:30:00	D	1.90
141	FAZILKA	FAZILKA	AQUA	30.28500	74.17500	14:05:00	D	9.80
142	FAZILKA	FAZILKA	S-NPP	30.28542	73.98736	13:30:00	D	2.60
143	FAZILKA	FAZILKA	S-NPP	30.28565	74.27144	13:30:00	D	4.40
144	FAZILKA	FAZILKA	S-NPP	30.28630	74.27551	13:30:00	D	4.40
145	FAZILKA	FAZILKA	S-NPP	30.28700	74.25848	13:30:00	D	7.40
146	FAZILKA	FAZILKA	S-NPP	30.28819	74.02518	13:30:00	D	3.10
147	FAZILKA	FAZILKA	S-NPP	30.28955	74.03341	13:30:00	D	6.60
148	FAZILKA	FAZILKA	S-NPP	30.29154	74.02444	13:30:00	D	2.40
149	FAZILKA	FAZILKA	AQUA	30.29600	74.27600	14:05:00	D	24.00
150	FAZILKA	FAZILKA	S-NPP	30.29688	74.01475	13:30:00	D	4.60
151	FAZILKA	FAZILKA	S-NPP	30.29762	74.28151	13:30:00	D	4.90
152	FAZILKA	FAZILKA	AQUA	30.29900	74.06600	14:05:00	D	13.00
153	FAZILKA	FAZILKA	S-NPP	30.29915	74.28146	13:30:00	D	6.70
154	FAZILKA	FAZILKA	AQUA	30.30000	74.27000	14:05:00	D	10.20
155	FAZILKA	FAZILKA	S-NPP	30.30167	74.06487	13:30:00	D	3.40
156	FAZILKA	FAZILKA	AQUA	30.30200	73.99400	14:05:00	D	5.90
157	FAZILKA	FAZILKA	AQUA	30.30200	74.28400	14:05:00	D	12.30
158	FAZILKA	FAZILKA	S-NPP	30.30568	74.06825	13:30:00	D	10.60
159	FAZILKA	FAZILKA	AQUA	30.30600	74.12300	14:05:00	D	24.40
160	FAZILKA	FAZILKA	S-NPP	30.30768	74.05930	13:30:00	D	7.00
161	FAZILKA	FAZILKA	AQUA	30.30800	74.05000	14:05:00	D	12.30
162	FAZILKA	FAZILKA	S-NPP	30.31032	74.03315	13:30:00	D	1.70

163	FAZILKA	FAZILKA	S-NPP	30.31035	74.05446	13:30:00	D	2.80
164	FAZILKA	FAZILKA	AQUA	30.31100	73.97900	14:05:00	D	12.10
165	FAZILKA	FAZILKA	S-NPP	30.31366	74.03242	13:30:00	D	5.60
166	FAZILKA	FAZILKA	AQUA	30.32600	74.31000	14:05:00	D	12.40
167	FAZILKA	FAZILKA	S-NPP	30.32709	74.05082	13:30:00	D	11.00
168	FAZILKA	FAZILKA	S-NPP	30.32713	74.09338	13:30:00	D	2.10
169	FAZILKA	FAZILKA	S-NPP	30.32844	74.31310	13:30:00	D	9.20
170	FAZILKA	FAZILKA	S-NPP	30.32914	74.10569	13:30:00	D	3.20
171	FAZILKA	FAZILKA	S-NPP	30.33049	74.26207	13:30:00	D	3.20
172	FAZILKA	FAZILKA	AQUA	30.33500	74.10400	14:05:00	D	10.90
173	FAZILKA	FAZILKA	S-NPP	30.33649	74.25656	13:30:00	D	2.10
174	FAZILKA	FAZILKA	S-NPP	30.33778	74.03143	13:30:00	D	2.80
175	FAZILKA	FAZILKA	S-NPP	30.34110	74.30616	13:30:00	D	1.80
176	FAZILKA	FAZILKA	S-NPP	30.34444	74.30544	13:30:00	D	6.60
177	FAZILKA	FAZILKA	S-NPP	30.34784	74.05055	13:30:00	D	4.50
178	FAZILKA	FAZILKA	S-NPP	30.35054	74.10955	13:30:00	D	2.90
179	FAZILKA	FAZILKA	AQUA	30.35200	73.99400	14:05:00	D	10.40
180	FAZILKA	FAZILKA	S-NPP	30.35255	74.12185	13:30:00	D	2.20
181	FAZILKA	FAZILKA	S-NPP	30.35388	74.08756	13:30:00	D	3.00
182	FAZILKA	FAZILKA	AQUA	30.35400	73.98600	14:05:00	D	15.60
183	FAZILKA	FAZILKA	S-NPP	30.35695	73.90808	13:30:00	D	2.80
184	FAZILKA	FAZILKA	S-NPP	30.35856	74.07378	13:30:00	D	3.70
185	FAZILKA	FAZILKA	S-NPP	30.36190	74.07305	13:30:00	D	1.70
186	FAZILKA	FAZILKA	S-NPP	30.36391	74.08538	13:30:00	D	6.50
187	FAZILKA	FAZILKA	AQUA	30.36700	74.03500	14:05:00	D	9.90
188	FAZILKA	FAZILKA	S-NPP	30.36997	73.98658	13:30:00	D	2.30
189	FAZILKA	FAZILKA	AQUA	30.37800	73.94800	14:05:00	D	16.20
190	FAZILKA	FAZILKA	AQUA	30.37900	74.14900	14:05:00	D	20.60
191	FAZILKA	FAZILKA	S-NPP	30.37996	73.96304	13:30:00	D	15.40
192	FAZILKA	FAZILKA	S-NPP	30.38064	73.96716	13:30:00	D	15.40
193	FAZILKA	FAZILKA	S-NPP	30.38128	74.12835	13:30:00	D	4.50
194	FAZILKA	FAZILKA	S-NPP	30.38194	74.13245	13:30:00	D	11.60
195	FAZILKA	FAZILKA	S-NPP	30.38226	74.08192	13:30:00	D	15.60

196	FAZILKA	FAZILKA	S-NPP	30.38300	74.12849	13:30:00	D	10.00
197	FAZILKA	FAZILKA	S-NPP	30.38368	74.13259	13:30:00	D	8.90
198	FAZILKA	FAZILKA	S-NPP	30.38393	73.94505	13:30:00	D	33.50
199	FAZILKA	FAZILKA	S-NPP	30.38728	73.94431	13:30:00	D	4.20
200	FAZILKA	FAZILKA	S-NPP	30.38796	73.94844	13:30:00	D	4.20
201	FAZILKA	FAZILKA	S-NPP	30.38836	74.14006	13:30:00	D	4.00
202	FAZILKA	FAZILKA	S-NPP	30.39170	74.13934	13:30:00	D	2.80
203	FAZILKA	FAZILKA	S-NPP	30.39483	74.01105	13:30:00	D	3.60
204	FAZILKA	FAZILKA	S-NPP	30.39576	74.18507	13:30:00	D	5.20
205	FAZILKA	FAZILKA	S-NPP	30.39704	74.12970	13:30:00	D	16.20
206	FAZILKA	FAZILKA	S-NPP	30.39818	74.01031	13:30:00	D	2.20
207	FAZILKA	FAZILKA	S-NPP	30.40105	74.13308	13:30:00	D	16.20
208	FAZILKA	FAZILKA	S-NPP	30.40109	74.17546	13:30:00	D	4.30
209	FAZILKA	FAZILKA	AQUA	30.40200	74.16000	14:05:00	D	21.60
210	FAZILKA	FAZILKA	S-NPP	30.40241	74.16246	13:30:00	D	5.20
211	FAZILKA	FAZILKA	S-NPP	30.40372	74.12826	13:30:00	D	20.00
212	FAZILKA	FAZILKA	S-NPP	30.40439	74.13235	13:30:00	D	20.00
213	FAZILKA	FAZILKA	S-NPP	30.40504	74.11523	13:30:00	D	2.90
214	FAZILKA	FAZILKA	S-NPP	30.40577	74.18291	13:30:00	D	4.20
215	FAZILKA	FAZILKA	AQUA	30.40600	74.10100	14:05:00	D	15.40
216	FAZILKA	FAZILKA	AQUA	30.40600	74.29200	14:05:00	D	10.40
217	FAZILKA	FAZILKA	S-NPP	30.40609	73.95304	13:30:00	D	4.70
218	FAZILKA	FAZILKA	AQUA	30.40700	74.11500	14:05:00	D	12.90
219	FAZILKA	FAZILKA	S-NPP	30.40838	74.11450	13:30:00	D	11.20
220	FAZILKA	FAZILKA	S-NPP	30.40843	74.17810	13:30:00	D	4.20
221	FAZILKA	FAZILKA	S-NPP	30.40977	74.18629	13:30:00	D	4.60
222	FAZILKA	FAZILKA	S-NPP	30.41100	74.06718	13:30:00	D	16.20
223	FAZILKA	FAZILKA	S-NPP	30.41302	74.07950	13:30:00	D	21.70
224	FAZILKA	FAZILKA	S-NPP	30.41369	74.08360	13:30:00	D	8.70
225	FAZILKA	FAZILKA	S-NPP	30.41768	74.06573	13:30:00	D	29.00
226	FAZILKA	FAZILKA	S-NPP	30.41836	74.06984	13:30:00	D	29.00
227	FAZILKA	FAZILKA	S-NPP	30.41975	74.12054	13:30:00	D	1.50
228	FAZILKA	FAZILKA	S-NPP	30.42038	74.08215	13:30:00	D	11.30

229	FAZILKA	FAZILKA	S-NPP	30.42044	74.16704	13:30:00	D	3.90
230	FAZILKA	FAZILKA	AQUA	30.42200	74.05500	14:05:00	D	13.00
231	FAZILKA	FAZILKA	S-NPP	30.42357	73.97488	13:30:00	D	2.50
232	FAZILKA	FAZILKA	S-NPP	30.42712	74.20792	13:30:00	D	4.00
233	FAZILKA	FAZILKA	S-NPP	30.43040	74.07997	13:30:00	D	4.00
234	FAZILKA	FAZILKA	S-NPP	30.43045	74.22834	13:30:00	D	3.60
235	FAZILKA	FAZILKA	S-NPP	30.43242	74.09229	13:30:00	D	4.40
236	FAZILKA	FAZILKA	AQUA	30.43500	73.98200	14:05:00	D	137.90
237	FAZILKA	FAZILKA	S-NPP	30.43579	74.13403	13:30:00	D	2.20
238	FAZILKA	FAZILKA	S-NPP	30.43775	74.06136	13:30:00	D	2.90
239	FAZILKA	FAZILKA	S-NPP	30.43845	74.10799	13:30:00	D	17.50
240	FAZILKA	FAZILKA	S-NPP	30.43980	74.17979	13:30:00	D	2.70
241	FAZILKA	FAZILKA	AQUA	30.44000	73.97500	14:05:00	D	101.50
242	FAZILKA	FAZILKA	S-NPP	30.44100	73.97535	13:30:00	D	43.80
243	FAZILKA	FAZILKA	S-NPP	30.44179	74.10726	13:30:00	D	4.00
244	FAZILKA	FAZILKA	S-NPP	30.44434	73.97462	13:30:00	D	43.80
245	FAZILKA	FAZILKA	S-NPP	30.44714	74.16125	13:30:00	D	6.40
246	FAZILKA	FAZILKA	AQUA	30.44900	74.10900	14:05:00	D	42.40
247	FAZILKA	FAZILKA	S-NPP	30.44914	74.17352	13:30:00	D	10.80
248	FAZILKA	FAZILKA	S-NPP	30.44981	74.11401	13:30:00	D	6.50
249	FAZILKA	FAZILKA	S-NPP	30.44981	74.15644	13:30:00	D	8.90
250	FAZILKA	FAZILKA	S-NPP	30.45181	74.10509	13:30:00	D	2.40
251	FAZILKA	FAZILKA	S-NPP	30.45244	74.02408	13:30:00	D	13.40
252	FAZILKA	FAZILKA	AQUA	30.45400	74.10300	14:05:00	D	24.00
253	FAZILKA	FAZILKA	S-NPP	30.45647	74.19735	13:30:00	D	2.70
254	FAZILKA	FAZILKA	S-NPP	30.45715	74.07415	13:30:00	D	6.40
255	FAZILKA	FAZILKA	AQUA	30.45900	74.14600	14:05:00	D	28.90
256	FAZILKA	FAZILKA	S-NPP	30.45981	74.04804	13:30:00	D	6.80
257	FAZILKA	FAZILKA	S-NPP	30.45981	74.19662	13:30:00	D	2.70
258	FAZILKA	FAZILKA	S-NPP	30.46115	74.18363	13:30:00	D	12.40
259	FAZILKA	FAZILKA	S-NPP	30.46250	74.10701	13:30:00	D	26.50
260	FAZILKA	FAZILKA	S-NPP	30.46316	74.04731	13:30:00	D	6.80
261	FAZILKA	FAZILKA	AQUA	30.46500	74.15100	14:05:00	D	61.00

262	FAZILKA	FAZILKA	S-NPP	30.46584	74.08503	13:30:00	D	7.30
263	FAZILKA	FAZILKA	AQUA	30.46900	74.14400	14:05:00	D	25.20
264	FAZILKA	FAZILKA	S-NPP	30.47250	74.16847	13:30:00	D	3.40
265	FAZILKA	FAZILKA	S-NPP	30.47585	74.14656	13:30:00	D	34.20
266	FAZILKA	FAZILKA	S-NPP	30.47885	73.98874	13:30:00	D	2.00
267	FAZILKA	FAZILKA	S-NPP	30.47985	74.14993	13:30:00	D	34.20
268	FAZILKA	FAZILKA	S-NPP	30.48230	74.03065	13:30:00	D	3.20
269	FAZILKA	FAZILKA	S-NPP	30.48318	74.14920	13:30:00	D	3.30
270	FAZILKA	FAZILKA	S-NPP	30.48560	74.00861	13:30:00	D	6.10
271	FAZILKA	FAZILKA	AQUA	30.49300	74.06800	14:05:00	D	31.50
272	FAZILKA	FAZILKA	S-NPP	30.49775	74.06136	13:30:00	D	6.80
273	FAZILKA	FAZILKA	S-NPP	30.50097	73.99672	13:30:00	D	2.70
274	FAZILKA	FAZILKA	S-NPP	30.50109	74.06062	13:30:00	D	3.90
275	FAZILKA	FAZILKA	S-NPP	30.50508	74.04272	13:30:00	D	10.00
276	FAZILKA	FAZILKA	S-NPP	30.51308	74.02820	13:30:00	D	1.50
277	FAZILKA	FAZILKA	AQUA	30.51400	74.06500	14:05:00	D	24.00
278	FAZILKA	FAZILKA	S-NPP	30.51848	74.06110	13:30:00	D	8.00
279	FAZILKA	FAZILKA	S-NPP	30.51915	74.06521	13:30:00	D	8.00
280	FAZILKA	FAZILKA	S-NPP	30.51983	74.06932	13:30:00	D	10.70
281	FAZILKA	FAZILKA	S-NPP	30.52452	74.07681	13:30:00	D	13.70
282	FAZILKA	JALALABAD	S-NPP	30.47096	74.32925	13:30:00	D	9.20
283	FAZILKA	JALALABAD	S-NPP	30.47376	74.24010	13:30:00	D	8.30
284	FAZILKA	JALALABAD	S-NPP	30.47429	74.32853	13:30:00	D	9.20
285	FAZILKA	JALALABAD	S-NPP	30.47838	74.26866	13:30:00	D	41.40
286	FAZILKA	JALALABAD	S-NPP	30.48024	74.34409	13:30:00	D	18.50
287	FAZILKA	JALALABAD	S-NPP	30.48106	74.26387	13:30:00	D	2.80
288	FAZILKA	JALALABAD	S-NPP	30.49635	74.27323	13:30:00	D	2.30
289	FAZILKA	JALALABAD	S-NPP	30.49898	74.28952	13:30:00	D	3.60
290	FAZILKA	JALALABAD	S-NPP	30.50020	74.33979	13:30:00	D	6.10
291	FAZILKA	JALALABAD	S-NPP	30.50057	74.18380	13:30:00	D	3.00
292	FAZILKA	JALALABAD	S-NPP	30.50151	74.34793	13:30:00	D	24.20
293	FAZILKA	JALALABAD	S-NPP	30.50227	74.30988	13:30:00	D	15.70
294	FAZILKA	JALALABAD	S-NPP	30.50375	74.23363	13:30:00	D	18.60

295	FAZILKA	JALALABAD	S-NPP	30.50560	74.30917	13:30:00	D	15.70
296	FAZILKA	JALALABAD	AQUA	30.50700	74.19700	14:05:00	D	70.40
297	FAZILKA	JALALABAD	S-NPP	30.50708	74.23291	13:30:00	D	18.60
298	FAZILKA	JALALABAD	S-NPP	30.50725	74.20351	13:30:00	D	3.50
299	FAZILKA	JALALABAD	S-NPP	30.50962	74.29145	13:30:00	D	2.30
300	FAZILKA	JALALABAD	S-NPP	30.51416	74.34100	13:30:00	D	7.10
301	FAZILKA	JALALABAD	AQUA	30.51700	74.28500	14:05:00	D	24.30
302	FAZILKA	JALALABAD	S-NPP	30.51754	74.31923	13:30:00	D	2.80
303	FAZILKA	JALALABAD	S-NPP	30.51791	74.24770	13:30:00	D	13.90
304	FAZILKA	JALALABAD	S-NPP	30.51820	74.32330	13:30:00	D	8.70
305	FAZILKA	JALALABAD	S-NPP	30.51873	74.36946	13:30:00	D	3.80
306	FAZILKA	JALALABAD	S-NPP	30.51991	74.19655	13:30:00	D	3.00
307	FAZILKA	JALALABAD	S-NPP	30.52058	74.20064	13:30:00	D	3.00
308	FAZILKA	JALALABAD	S-NPP	30.52087	74.31851	13:30:00	D	2.80
309	FAZILKA	JALALABAD	S-NPP	30.52391	74.24218	13:30:00	D	5.00
310	FAZILKA	JALALABAD	S-NPP	30.52524	74.16576	13:30:00	D	2.80
311	FAZILKA	JALALABAD	S-NPP	30.52652	74.32171	13:30:00	D	3.20
312	FAZILKA	JALALABAD	S-NPP	30.52718	74.32578	13:30:00	D	3.20
313	FAZILKA	JALALABAD	S-NPP	30.52786	74.30879	13:30:00	D	1.80
314	FAZILKA	JALALABAD	S-NPP	30.52791	74.16095	13:30:00	D	2.80
315	FAZILKA	JALALABAD	S-NPP	30.53121	74.28701	13:30:00	D	10.40
316	FAZILKA	JALALABAD	S-NPP	30.53449	74.32841	13:30:00	D	9.00
317	FAZILKA	JALALABAD	S-NPP	30.53454	74.28629	13:30:00	D	10.40
318	FAZILKA	JALALABAD	S-NPP	30.53578	74.35758	13:30:00	D	11.40
319	FAZILKA	JALALABAD	S-NPP	30.53644	74.36164	13:30:00	D	8.20
320	FAZILKA	JALALABAD	AQUA	30.54300	74.23600	14:05:00	D	23.90
321	FAZILKA	JALALABAD	S-NPP	30.55175	74.34995	13:30:00	D	3.70
322	FAZILKA	JALALABAD	S-NPP	30.55247	74.31193	13:30:00	D	1.10
323	FAZILKA	JALALABAD	S-NPP	30.55715	74.29828	13:30:00	D	4.70
324	FAZILKA	JALALABAD	AQUA	30.56700	74.19600	14:05:00	D	24.30
325	FAZILKA	JALALABAD	AQUA	30.56800	74.21100	14:05:00	D	7.80
326	FAZILKA	JALALABAD	S-NPP	30.56924	74.20280	13:30:00	D	2.50
327	FAZILKA	JALALABAD	S-NPP	30.57448	74.27769	13:30:00	D	7.80

328	FAZILKA	JALALABAD	S-NPP	30.57591	74.20136	13:30:00	D	1.80
329	FAZILKA	JALALABAD	S-NPP	30.57659	74.18429	13:30:00	D	2.90
330	FAZILKA	JALALABAD	S-NPP	30.58255	74.22107	13:30:00	D	2.90
331	FAZILKA	JALALABAD	S-NPP	30.58837	74.32104	13:30:00	D	2.00
332	FAZILKA	JALALABAD	S-NPP	30.58898	74.34617	13:30:00	D	2.80
333	FAZILKA	JALALABAD	S-NPP	30.59089	74.37938	13:30:00	D	13.50
334	FAZILKA	JALALABAD	S-NPP	30.59191	74.19366	13:30:00	D	20.60
335	FAZILKA	JALALABAD	S-NPP	30.59257	74.19777	13:30:00	D	10.60
336	FAZILKA	JALALABAD	S-NPP	30.59379	74.26931	13:30:00	D	6.70
337	FAZILKA	JALALABAD	S-NPP	30.59628	74.34880	13:30:00	D	13.50
338	FAZILKA	JALALABAD	S-NPP	30.59792	74.18814	13:30:00	D	2.50
339	FAZILKA	JALALABAD	S-NPP	30.59830	74.33995	13:30:00	D	13.40
340	FAZILKA	JALALABAD	S-NPP	30.59864	74.12865	13:30:00	D	2.20
341	FAZILKA	JALALABAD	S-NPP	30.59931	74.13274	13:30:00	D	2.20
342	FAZILKA	JALALABAD	AQUA	30.60000	74.40100	14:05:00	D	16.60
343	FAZILKA	JALALABAD	S-NPP	30.60157	74.36028	13:30:00	D	51.40
344	FAZILKA	JALALABAD	S-NPP	30.60188	74.21266	13:30:00	D	17.80
345	FAZILKA	JALALABAD	AQUA	30.60200	74.32500	14:05:00	D	61.70
346	FAZILKA	JALALABAD	S-NPP	30.60424	74.35550	13:30:00	D	6.00
347	FAZILKA	JALALABAD	S-NPP	30.60500	74.31747	13:30:00	D	3.50
348	FAZILKA	JALALABAD	S-NPP	30.60521	74.21194	13:30:00	D	17.80
349	FAZILKA	JALALABAD	S-NPP	30.60631	74.32560	13:30:00	D	22.70
350	FAZILKA	JALALABAD	S-NPP	30.60757	74.35478	13:30:00	D	6.00
351	FAZILKA	JALALABAD	S-NPP	30.60887	74.36292	13:30:00	D	13.10
352	FAZILKA	JALALABAD	S-NPP	30.60952	74.36697	13:30:00	D	13.10
353	FAZILKA	JALALABAD	AQUA	30.61200	74.41500	14:05:00	D	38.20
354	FAZILKA	JALALABAD	S-NPP	30.61356	74.34930	13:30:00	D	1.00
355	FAZILKA	JALALABAD	AQUA	30.61400	74.23400	14:05:00	D	7.40
356	FAZILKA	JALALABAD	S-NPP	30.61503	74.29424	13:30:00	D	25.20
357	FAZILKA	JALALABAD	S-NPP	30.61967	74.30167	13:30:00	D	16.80
358	FAZILKA	JALALABAD	S-NPP	30.62288	74.34309	13:30:00	D	2.90
359	FAZILKA	JALALABAD	AQUA	30.62300	74.21800	14:05:00	D	96.90
360	FAZILKA	JALALABAD	AQUA	30.62400	74.23200	14:05:00	D	36.20

361	FAZILKA	JALALABAD	AQUA	30.62500	74.33700	14:05:00	D	15.30
362	FAZILKA	JALALABAD	S-NPP	30.62794	74.19135	13:30:00	D	3.10
363	FAZILKA	JALALABAD	S-NPP	30.62794	74.21249	13:30:00	D	6.50
364	FAZILKA	JALALABAD	AQUA	30.62900	74.27600	14:05:00	D	26.70
365	FAZILKA	JALALABAD	S-NPP	30.62997	74.40878	13:30:00	D	3.20
366	FAZILKA	JALALABAD	S-NPP	30.63194	74.17355	13:30:00	D	1.60
367	FAZILKA	JALALABAD	S-NPP	30.63257	74.28325	13:30:00	D	2.20
368	FAZILKA	JALALABAD	S-NPP	30.63459	74.25328	13:30:00	D	14.30
369	FAZILKA	JALALABAD	S-NPP	30.63726	74.22737	13:30:00	D	17.30
370	FAZILKA	JALALABAD	AQUA	30.63900	74.36500	14:05:00	D	17.40
371	FAZILKA	JALALABAD	S-NPP	30.63911	74.36600	13:30:00	D	3.80
372	FAZILKA	JALALABAD	S-NPP	30.64132	74.39376	13:30:00	D	1.80
373	FAZILKA	JALALABAD	S-NPP	30.64244	74.36530	13:30:00	D	3.80
374	FAZILKA	JALALABAD	S-NPP	30.64306	74.39036	13:30:00	D	3.50
375	FAZILKA	JALALABAD	S-NPP	30.64323	74.26408	13:30:00	D	1.80
376	FAZILKA	JALALABAD	S-NPP	30.64698	74.41470	13:30:00	D	1.50
377	FAZILKA	JALALABAD	AQUA	30.65200	74.28800	14:05:00	D	11.60
378	FAZILKA	JALALABAD	S-NPP	30.65639	74.36651	13:30:00	D	11.10
379	FAZILKA	JALALABAD	S-NPP	30.66392	74.20048	13:30:00	D	8.60
380	FAZILKA	JALALABAD	S-NPP	30.66797	74.50237	13:30:00	D	2.40
381	FAZILKA	JALALABAD	AQUA	30.67500	74.26400	14:05:00	D	15.80
382	FAZILKA	JALALABAD	AQUA	30.68300	74.33800	14:05:00	D	27.30
383	FAZILKA	JALALABAD	AQUA	30.68500	74.35300	14:05:00	D	9.10
384	FAZILKA	JALALABAD	S-NPP	30.68765	74.34718	13:30:00	D	2.40
385	FAZILKA	JALALABAD	S-NPP	30.69555	74.37491	13:30:00	D	44.40
386	FAZILKA	JALALABAD	S-NPP	30.70042	74.27705	13:30:00	D	2.40
387	FAZILKA	JALALABAD	AQUA	30.71300	74.31900	14:05:00	D	31.10
388	FAZILKA	JALALABAD	AQUA	30.71400	74.42500	14:05:00	D	10.20
389	FAZILKA	JALALABAD	AQUA	30.71500	74.33400	14:05:00	D	11.80
390	FAZILKA	JALALABAD	AQUA	30.71600	74.44000	14:05:00	D	6.70
391	FAZILKA	JALALABAD	S-NPP	30.72378	74.46535	13:30:00	D	1.60
392	FAZILKA	JALALABAD	S-NPP	30.72977	74.45988	13:30:00	D	2.50
393	FAZILKA	JALALABAD	S-NPP	30.73042	74.46393	13:30:00	D	2.90

394	FAZILKA	JALALABAD	S-NPP	30.73309	74.45917	13:30:00	D	2.50
395	FAZILKA	JALALABAD	S-NPP	30.73373	74.46321	13:30:00	D	2.90
396	FAZILKA	JALALABAD	S-NPP	30.76318	74.35648	13:30:00	D	5.10
397	FAZILKA	JALALABAD	S-NPP	30.77309	74.37536	13:30:00	D	2.80
398	FAZILKA	JALALABAD	S-NPP	30.77917	74.32779	13:30:00	D	3.90
399	FIROZPUR	FIROZPUR	S-NPP	30.79667	74.79594	13:30:00	D	1.30
400	FIROZPUR	FIROZPUR	S-NPP	30.83990	74.70805	13:30:00	D	4.10
401	FIROZPUR	FIROZPUR	S-NPP	30.88404	74.61954	13:30:00	D	8.70
402	FIROZPUR	FIROZPUR	S-NPP	30.88569	74.67337	13:30:00	D	9.00
403	FIROZPUR	FIROZPUR	S-NPP	30.88900	74.67267	13:30:00	D	9.00
404	FIROZPUR	FIROZPUR	S-NPP	30.94306	74.45685	13:30:00	D	1.60
405	FIROZPUR	FIROZPUR	S-NPP	30.95820	74.72506	13:30:00	D	3.60
406	FIROZPUR	ZIRA	AQUA	30.97400	74.95100	14:05:00	D	31.20
407	JALANDHAR	PHILLAUR	S-NPP	31.00687	75.86475	13:30:00	D	3.20
408	JALANDHAR	SHAHKOT	S-NPP	31.05708	75.18531	13:30:00	D	1.50
409	LUDHIANA	JAGRAON	S-NPP	30.69227	75.50184	13:30:00	D	2.30
410	LUDHIANA	JAGRAON	S-NPP	30.72609	75.48264	13:30:00	D	13.90
411	LUDHIANA	JAGRAON	S-NPP	30.74778	75.53590	13:30:00	D	1.80
412	LUDHIANA	JAGRAON	S-NPP	30.78831	75.55653	13:30:00	D	1.90
413	LUDHIANA	JAGRAON	S-NPP	30.79947	75.60785	13:30:00	D	5.20
414	LUDHIANA	LUDHIANA EAST	TERRA	30.76200	75.86800	10:50:00	D	9.10
415	LUDHIANA	LUDHIANA EAST	S-NPP	30.80007	75.83858	13:30:00	D	2.40
416	LUDHIANA	LUDHIANA WEST	S-NPP	30.78091	75.75586	13:30:00	D	1.10
417	LUDHIANA	LUDHIANA WEST	S-NPP	30.97874	75.72155	13:30:00	D	3.80
418	LUDHIANA	RAIKOT	S-NPP	30.60648	75.58471	13:30:00	D	1.90
419	LUDHIANA	RAIKOT	S-NPP	30.66238	75.57374	13:30:00	D	5.10
420	LUDHIANA	RAIKOT	S-NPP	30.67605	75.48454	13:30:00	D	6.50
421	LUDHIANA	RAIKOT	S-NPP	30.71610	75.59170	13:30:00	D	4.20
422	LUDHIANA	RAIKOT	AQUA	30.76900	75.60500	14:05:00	D	18.70
423	MANSA	BUDHLADA	S-NPP	29.74949	75.62717	13:30:00	D	2.10
424	MANSA	BUDHLADA	S-NPP	29.75256	75.62682	13:30:00	D	3.20
425	MANSA	BUDHLADA	S-NPP	29.75465	75.61825	13:30:00	D	2.60
426	MANSA	BUDHLADA	S-NPP	29.75586	75.62616	13:30:00	D	3.20

427	MANSA	BUDHLADA	S-NPP	29.78850	75.44007	13:30:00	D	3.10
428	MANSA	BUDHLADA	S-NPP	29.79180	75.43940	13:30:00	D	9.20
429	MANSA	BUDHLADA	AQUA	29.79800	75.44500	14:05:00	D	11.10
430	MANSA	MANSA	AQUA	29.93500	75.45500	14:05:00	D	17.20
431	MANSA	MANSA	S-NPP	30.01747	75.49704	13:30:00	D	2.90
432	MANSA	MANSA	S-NPP	30.02188	75.45932	13:30:00	D	2.30
433	MANSA	MANSA	S-NPP	30.02286	75.37728	13:30:00	D	2.30
434	MANSA	MANSA	S-NPP	30.02604	75.44212	13:30:00	D	3.90
435	MANSA	MANSA	S-NPP	30.03008	75.37991	13:30:00	D	2.60
436	MANSA	MANSA	S-NPP	30.06682	75.44630	13:30:00	D	5.30
437	MANSA	MANSA	S-NPP	30.08864	75.54420	13:30:00	D	3.00
438	MANSA	MANSA	S-NPP	30.08925	75.54817	13:30:00	D	3.00
439	MANSA	MANSA	S-NPP	30.09332	75.48596	13:30:00	D	1.60
440	MANSA	MANSA	S-NPP	30.13699	75.57129	13:30:00	D	6.40
441	MANSA	MANSA	S-NPP	30.13743	75.48523	13:30:00	D	2.50
442	MANSA	MANSA	S-NPP	30.13804	75.48920	13:30:00	D	2.50
443	MANSA	MANSA	S-NPP	30.14464	75.48787	13:30:00	D	3.00
444	MANSA	MANSA	S-NPP	30.15479	75.46534	13:30:00	D	5.70
445	MANSA	MANSA	AQUA	30.16400	75.47400	14:05:00	D	13.80
446	MANSA	SARDULGARH	S-NPP	29.55524	75.24609	13:30:00	D	7.60
447	MANSA	SARDULGARH	S-NPP	29.56841	75.30881	13:30:00	D	11.70
448	MANSA	SARDULGARH	S-NPP	29.57586	75.29095	13:30:00	D	2.80
449	MANSA	SARDULGARH	AQUA	29.57800	75.30900	14:05:00	D	19.00
450	MANSA	SARDULGARH	S-NPP	29.58101	75.30216	13:30:00	D	3.90
451	MANSA	SARDULGARH	S-NPP	29.67553	75.32385	13:30:00	D	1.70
452	MANSA	SARDULGARH	S-NPP	29.67883	75.32318	13:30:00	D	4.10
453	MANSA	SARDULGARH	S-NPP	29.68073	75.26964	13:30:00	D	3.90
454	MANSA	SARDULGARH	S-NPP	29.68219	75.25707	13:30:00	D	3.40
455	MANSA	SARDULGARH	AQUA	29.69400	75.33100	14:05:00	D	17.40
456	MANSA	SARDULGARH	S-NPP	29.75744	75.39325	13:30:00	D	4.40
457	MANSA	SARDULGARH	S-NPP	29.75805	75.39721	13:30:00	D	4.00
458	MANSA	SARDULGARH	AQUA	29.77000	75.39800	14:05:00	D	9.50
459	MOGA	BAGHA PURANA	AQUA	30.49100	74.99800	14:05:00	D	11.20

460	MOGA	BAGHA PURANA	S-NPP	30.50305	75.00081	13:30:00	D	3.10
461	MOGA	BAGHA PURANA	S-NPP	30.54823	75.07427	13:30:00	D	2.50
462	MOGA	BAGHA PURANA	S-NPP	30.55840	74.96481	13:30:00	D	7.30
463	MOGA	BAGHA PURANA	AQUA	30.61300	74.97600	14:05:00	D	14.90
464	MOGA	BAGHA PURANA	AQUA	30.61700	75.12500	14:05:00	D	10.20
465	MOGA	BAGHA PURANA	S-NPP	30.62166	75.04255	13:30:00	D	2.40
466	MOGA	BAGHA PURANA	AQUA	30.64400	74.95500	14:05:00	D	27.60
467	MOGA	BAGHA PURANA	S-NPP	30.64498	75.00056	13:30:00	D	3.90
468	MOGA	BAGHA PURANA	AQUA	30.64600	74.97100	14:05:00	D	21.20
469	MOGA	BAGHA PURANA	AQUA	30.64700	74.96400	14:05:00	D	40.80
470	MOGA	BAGHA PURANA	S-NPP	30.67344	74.98639	13:30:00	D	1.80
471	MOGA	BAGHA PURANA	S-NPP	30.71556	74.99415	13:30:00	D	10.70
472	MOGA	BAGHA PURANA	S-NPP	30.73973	75.01807	13:30:00	D	3.80
473	MOGA	MOGA	S-NPP	30.73682	75.24148	13:30:00	D	3.20
474	MOGA	NIHAL SINGH WALA	S-NPP	30.55007	75.41523	13:30:00	D	2.80
475	MOGA	NIHAL SINGH WALA	S-NPP	30.59112	75.26314	13:30:00	D	1.70
476	MUKTSAR	GIDDARBAHA	S-NPP	30.12822	74.62217	13:30:00	D	7.30
477	MUKTSAR	GIDDARBAHA	S-NPP	30.13153	74.62147	13:30:00	D	7.70
478	MUKTSAR	GIDDARBAHA	S-NPP	30.13362	74.57951	13:30:00	D	8.00
479	MUKTSAR	GIDDARBAHA	AQUA	30.15300	74.62600	14:05:00	D	16.90
480	MUKTSAR	GIDDARBAHA	AQUA	30.15500	74.62000	14:05:00	D	7.20
481	MUKTSAR	GIDDARBAHA	AQUA	30.15700	74.63500	14:05:00	D	18.10
482	MUKTSAR	GIDDARBAHA	S-NPP	30.27564	74.52964	13:30:00	D	15.80
483	MUKTSAR	GIDDARBAHA	S-NPP	30.29225	74.52611	13:30:00	D	2.30
484	MUKTSAR	GIDDARBAHA	AQUA	30.32100	74.49700	14:05:00	D	8.80
485	MUKTSAR	GIDDARBAHA	S-NPP	30.32165	74.62417	13:30:00	D	5.00
486	MUKTSAR	GIDDARBAHA	S-NPP	30.32496	74.62347	13:30:00	D	5.00
487	MUKTSAR	GIDDARBAHA	S-NPP	30.32619	74.50217	13:30:00	D	2.80
488	MUKTSAR	GIDDARBAHA	S-NPP	30.33560	74.73350	13:30:00	D	10.70
489	MUKTSAR	GIDDARBAHA	S-NPP	30.33876	74.64553	13:30:00	D	4.00
490	MUKTSAR	GIDDARBAHA	S-NPP	30.34614	74.62732	13:30:00	D	8.70
491	MUKTSAR	GIDDARBAHA	S-NPP	30.35179	74.56377	13:30:00	D	3.30
492	MUKTSAR	GIDDARBAHA	AQUA	30.35200	74.77200	14:05:00	D	17.40

493	MUKTSAR	GIDDARBAHA	AQUA	30.35300	74.76600	14:05:00	D	15.50
494	MUKTSAR	GIDDARBAHA	S-NPP	30.35382	74.55499	13:30:00	D	2.70
495	MUKTSAR	GIDDARBAHA	S-NPP	30.36270	74.65313	13:30:00	D	3.30
496	MUKTSAR	GIDDARBAHA	S-NPP	30.38633	74.69389	13:30:00	D	5.80
497	MUKTSAR	GIDDARBAHA	S-NPP	30.38941	74.60583	13:30:00	D	1.90
498	MUKTSAR	GIDDARBAHA	AQUA	30.39100	74.71300	14:05:00	D	7.80
499	MUKTSAR	GIDDARBAHA	S-NPP	30.40696	74.67290	13:30:00	D	4.70
500	MUKTSAR	GIDDARBAHA	S-NPP	30.40749	74.69775	13:30:00	D	1.90
501	MUKTSAR	GIDDARBAHA	S-NPP	30.41027	74.67221	13:30:00	D	2.70
502	MUKTSAR	GIDDARBAHA	AQUA	30.42100	74.67800	14:05:00	D	19.80
503	MUKTSAR	GIDDARBAHA	AQUA	30.42400	74.67100	14:05:00	D	27.50
504	MUKTSAR	GIDDARBAHA	S-NPP	30.42724	74.71437	13:30:00	D	2.70
505	MUKTSAR	GIDDARBAHA	S-NPP	30.45677	74.64157	13:30:00	D	4.30
506	MUKTSAR	GIDDARBAHA	S-NPP	30.45753	74.62475	13:30:00	D	11.50
507	MUKTSAR	GIDDARBAHA	S-NPP	30.46342	74.62389	13:30:00	D	1.80
508	MUKTSAR	GIDDARBAHA	S-NPP	30.47133	74.63055	13:30:00	D	24.20
509	MUKTSAR	MALAUT	AQUA	29.91400	74.61100	14:05:00	D	24.10
510	MUKTSAR	MALAUT	S-NPP	29.92495	74.58966	13:30:00	D	3.20
511	MUKTSAR	MALAUT	S-NPP	29.92835	74.56811	13:30:00	D	6.70
512	MUKTSAR	MALAUT	S-NPP	29.93874	74.63258	13:30:00	D	2.00
513	MUKTSAR	MALAUT	S-NPP	29.93882	74.61174	13:30:00	D	4.50
514	MUKTSAR	MALAUT	S-NPP	29.93939	74.63660	13:30:00	D	3.00
515	MUKTSAR	MALAUT	S-NPP	29.94214	74.61104	13:30:00	D	4.50
516	MUKTSAR	MALAUT	S-NPP	29.95056	74.66336	13:30:00	D	1.40
517	MUKTSAR	MALAUT	S-NPP	29.95681	74.59544	13:30:00	D	4.00
518	MUKTSAR	MALAUT	S-NPP	29.96056	74.46935	13:30:00	D	5.20
519	MUKTSAR	MALAUT	AQUA	29.96600	74.68000	14:05:00	D	12.50
520	MUKTSAR	MALAUT	S-NPP	29.96613	74.58931	13:30:00	D	5.00
521	MUKTSAR	MALAUT	S-NPP	29.97264	74.43745	13:30:00	D	5.60
522	MUKTSAR	MALAUT	AQUA	29.97600	74.67900	14:05:00	D	12.90
523	MUKTSAR	MALAUT	S-NPP	29.99018	74.69659	13:30:00	D	5.40
524	MUKTSAR	MALAUT	S-NPP	29.99783	74.46561	13:30:00	D	4.40
525	MUKTSAR	MALAUT	AQUA	30.00000	74.56300	14:05:00	D	14.60

526	MUKTSAR	MALAUT	AQUA	30.00100	74.57800	14:05:00	D	18.00
527	MUKTSAR	MALAUT	S-NPP	30.00212	74.55667	13:30:00	D	1.30
528	MUKTSAR	MALAUT	S-NPP	30.00326	74.46493	13:30:00	D	11.30
529	MUKTSAR	MALAUT	S-NPP	30.00618	74.53912	13:30:00	D	6.10
530	MUKTSAR	MALAUT	AQUA	30.00900	74.54600	14:05:00	D	17.60
531	MUKTSAR	MALAUT	S-NPP	30.01019	74.67159	13:30:00	D	6.20
532	MUKTSAR	MALAUT	AQUA	30.01400	74.69800	14:05:00	D	7.90
533	MUKTSAR	MALAUT	S-NPP	30.01659	74.71180	13:30:00	D	20.80
534	MUKTSAR	MALAUT	S-NPP	30.01800	74.69904	13:30:00	D	5.10
535	MUKTSAR	MALAUT	S-NPP	30.02131	74.69834	13:30:00	D	2.80
536	MUKTSAR	MALAUT	S-NPP	30.02195	74.70237	13:30:00	D	7.70
537	MUKTSAR	MALAUT	S-NPP	30.02463	74.69765	13:30:00	D	2.80
538	MUKTSAR	MALAUT	S-NPP	30.02972	74.52206	13:30:00	D	2.70
539	MUKTSAR	MALAUT	S-NPP	30.03062	74.42139	13:30:00	D	3.80
540	MUKTSAR	MALAUT	S-NPP	30.03304	74.52135	13:30:00	D	2.30
541	MUKTSAR	MALAUT	S-NPP	30.03395	74.42068	13:30:00	D	3.80
542	MUKTSAR	MALAUT	S-NPP	30.03904	74.51590	13:30:00	D	4.90
543	MUKTSAR	MALAUT	AQUA	30.04500	74.42900	14:05:00	D	9.50
544	MUKTSAR	MALAUT	S-NPP	30.04634	74.51853	13:30:00	D	10.90
545	MUKTSAR	MALAUT	S-NPP	30.05188	74.63828	13:30:00	D	26.80
546	MUKTSAR	MALAUT	S-NPP	30.05235	74.68392	13:30:00	D	2.60
547	MUKTSAR	MALAUT	S-NPP	30.05595	74.40760	13:30:00	D	4.40
548	MUKTSAR	MALAUT	S-NPP	30.05797	74.39878	13:30:00	D	13.40
549	MUKTSAR	MALAUT	AQUA	30.06200	74.48600	14:05:00	D	7.30
550	MUKTSAR	MALAUT	AQUA	30.06700	74.63800	14:05:00	D	9.00
551	MUKTSAR	MALAUT	S-NPP	30.06708	74.47649	13:30:00	D	2.20
552	MUKTSAR	MALAUT	S-NPP	30.06720	74.43457	13:30:00	D	9.20
553	MUKTSAR	MALAUT	S-NPP	30.07308	74.47103	13:30:00	D	1.90
554	MUKTSAR	MALAUT	S-NPP	30.07829	74.50339	13:30:00	D	1.60
555	MUKTSAR	MALAUT	AQUA	30.08000	74.55900	14:05:00	D	8.30
556	MUKTSAR	MALAUT	S-NPP	30.09078	74.53835	13:30:00	D	3.30
557	MUKTSAR	MALAUT	S-NPP	30.09199	74.56732	13:30:00	D	3.70
558	MUKTSAR	MALAUT	AQUA	30.09400	74.48200	14:05:00	D	16.20

559	MUKTSAR	MALAUT	S-NPP	30.09410	74.53765	13:30:00	D	3.30
560	MUKTSAR	MALAUT	AQUA	30.09500	74.49700	14:05:00	D	8.80
561	MUKTSAR	MALAUT	S-NPP	30.10380	74.59818	13:30:00	D	3.20
562	MUKTSAR	MALAUT	AQUA	30.10700	74.60100	14:05:00	D	9.80
563	MUKTSAR	MALAUT	AQUA	30.11000	74.43400	14:05:00	D	10.50
564	MUKTSAR	MALAUT	AQUA	30.13600	74.47600	14:05:00	D	14.00
565	MUKTSAR	MALAUT	S-NPP	30.13648	74.51211	13:30:00	D	4.00
566	MUKTSAR	MALAUT	S-NPP	30.14117	74.49857	13:30:00	D	2.30
567	MUKTSAR	MALAUT	AQUA	30.17000	74.55600	14:05:00	D	9.30
568	MUKTSAR	MALAUT	S-NPP	30.18410	74.35944	13:30:00	D	2.60
569	MUKTSAR	MALAUT	S-NPP	30.19796	74.40269	13:30:00	D	2.40
570	MUKTSAR	MALAUT	AQUA	30.20200	74.35600	14:05:00	D	9.50
571	MUKTSAR	MALAUT	S-NPP	30.21243	74.44992	13:30:00	D	4.90
572	MUKTSAR	MALAUT	S-NPP	30.22950	74.39289	13:30:00	D	3.00
573	MUKTSAR	MALAUT	AQUA	30.25100	74.44700	14:05:00	D	13.30
574	MUKTSAR	MALAUT	S-NPP	30.25158	74.31669	13:30:00	D	2.60
575	MUKTSAR	MALAUT	S-NPP	30.25225	74.32076	13:30:00	D	3.70
576	MUKTSAR	MALAUT	S-NPP	30.25550	74.36213	13:30:00	D	6.50
577	MUKTSAR	MALAUT	S-NPP	30.27407	74.39176	13:30:00	D	4.70
578	MUKTSAR	MALAUT	AQUA	30.29500	74.45500	14:05:00	D	25.00
579	MUKTSAR	MALAUT	S-NPP	30.30164	74.49903	13:30:00	D	5.60
580	MUKTSAR	MALAUT	S-NPP	30.30348	74.33923	13:30:00	D	1.30
581	MUKTSAR	MALAUT	S-NPP	30.30577	74.46048	13:30:00	D	10.80
582	MUKTSAR	MALAUT	S-NPP	30.30681	74.33852	13:30:00	D	1.30
583	MUKTSAR	MALAUT	S-NPP	30.31595	74.39539	13:30:00	D	2.70
584	MUKTSAR	MALAUT	S-NPP	30.31769	74.39526	13:30:00	D	3.50
585	MUKTSAR	MALAUT	S-NPP	30.32507	74.35589	13:30:00	D	3.30
586	MUKTSAR	MALAUT	S-NPP	30.32573	74.35995	13:30:00	D	3.30
587	MUKTSAR	MALAUT	S-NPP	30.32773	74.35112	13:30:00	D	3.10
588	MUKTSAR	MALAUT	S-NPP	30.33238	74.35853	13:30:00	D	4.70
589	MUKTSAR	MALAUT	S-NPP	30.36098	74.36501	13:30:00	D	6.90
590	MUKTSAR	MALAUT	S-NPP	30.36237	74.33106	13:30:00	D	7.50
591	MUKTSAR	MALAUT	AQUA	30.36400	74.36400	14:05:00	D	9.40

592	MUKTSAR	MALAUT	S-NPP	30.36431	74.36430	13:30:00	D	6.90
593	MUKTSAR	MALAUT	AQUA	30.36600	74.37900	14:05:00	D	13.50
594	MUKTSAR	MUKTSAR	AQUA	30.34400	74.47300	14:05:00	D	11.60
595	MUKTSAR	MUKTSAR	AQUA	30.34500	74.48800	14:05:00	D	12.10
596	MUKTSAR	MUKTSAR	S-NPP	30.34623	74.42273	13:30:00	D	3.00
597	MUKTSAR	MUKTSAR	S-NPP	30.34688	74.42679	13:30:00	D	5.40
598	MUKTSAR	MUKTSAR	S-NPP	30.36350	74.42324	13:30:00	D	2.00
599	MUKTSAR	MUKTSAR	S-NPP	30.36410	74.44826	13:30:00	D	5.40
600	MUKTSAR	MUKTSAR	AQUA	30.36800	74.50000	14:05:00	D	17.10
601	MUKTSAR	MUKTSAR	S-NPP	30.37026	74.37983	13:30:00	D	4.60
602	MUKTSAR	MUKTSAR	S-NPP	30.37075	74.44684	13:30:00	D	3.40
603	MUKTSAR	MUKTSAR	S-NPP	30.37140	74.45088	13:30:00	D	3.40
604	MUKTSAR	MUKTSAR	S-NPP	30.37329	74.48399	13:30:00	D	1.20
605	MUKTSAR	MUKTSAR	S-NPP	30.37358	74.37912	13:30:00	D	4.60
606	MUKTSAR	MUKTSAR	S-NPP	30.37364	74.57165	13:30:00	D	25.00
607	MUKTSAR	MUKTSAR	S-NPP	30.38220	74.38986	13:30:00	D	17.90
608	MUKTSAR	MUKTSAR	S-NPP	30.39647	74.49997	13:30:00	D	8.40
609	MUKTSAR	MUKTSAR	AQUA	30.40300	74.41900	14:05:00	D	47.60
610	MUKTSAR	MUKTSAR	S-NPP	30.40679	74.39300	13:30:00	D	5.50
611	MUKTSAR	MUKTSAR	AQUA	30.40800	74.41100	14:05:00	D	32.20
612	MUKTSAR	MUKTSAR	S-NPP	30.40803	74.42212	13:30:00	D	6.50
613	MUKTSAR	MUKTSAR	AQUA	30.40900	74.42600	14:05:00	D	41.50
614	MUKTSAR	MUKTSAR	S-NPP	30.41207	74.40446	13:30:00	D	3.50
615	MUKTSAR	MUKTSAR	S-NPP	30.41409	74.39564	13:30:00	D	7.00
616	MUKTSAR	MUKTSAR	S-NPP	30.41452	74.46262	13:30:00	D	6.50
617	MUKTSAR	MUKTSAR	S-NPP	30.41509	74.48763	13:30:00	D	3.20
618	MUKTSAR	MUKTSAR	S-NPP	30.41617	74.36579	13:30:00	D	5.20
619	MUKTSAR	MUKTSAR	S-NPP	30.41741	74.39493	13:30:00	D	7.00
620	MUKTSAR	MUKTSAR	S-NPP	30.41786	74.61232	13:30:00	D	11.90
621	MUKTSAR	MUKTSAR	S-NPP	30.41813	74.37798	13:30:00	D	2.20
622	MUKTSAR	MUKTSAR	S-NPP	30.41930	74.42809	13:30:00	D	56.50
623	MUKTSAR	MUKTSAR	S-NPP	30.41950	74.36507	13:30:00	D	5.20
624	MUKTSAR	MUKTSAR	AQUA	30.42000	74.42500	14:05:00	D	7.10

625	MUKTSAR	MUKTSAR	S-NPP	30.42182	74.61565	13:30:00	D	4.70
626	MUKTSAR	MUKTSAR	AQUA	30.43100	74.53000	14:05:00	D	12.00
627	MUKTSAR	MUKTSAR	S-NPP	30.43364	74.37511	13:30:00	D	7.90
628	MUKTSAR	MUKTSAR	S-NPP	30.43612	74.53333	13:30:00	D	15.30
629	MUKTSAR	MUKTSAR	S-NPP	30.43945	74.53263	13:30:00	D	15.30
630	MUKTSAR	MUKTSAR	AQUA	30.44200	74.52800	14:05:00	D	11.40
631	MUKTSAR	MUKTSAR	S-NPP	30.46662	74.47289	13:30:00	D	12.30
632	MUKTSAR	MUKTSAR	S-NPP	30.47332	74.45052	13:30:00	D	3.50
633	MUKTSAR	MUKTSAR	S-NPP	30.47925	74.46601	13:30:00	D	11.50
634	MUKTSAR	MUKTSAR	S-NPP	30.47990	74.47005	13:30:00	D	11.50
635	MUKTSAR	MUKTSAR	S-NPP	30.48219	74.56989	13:30:00	D	4.00
636	MUKTSAR	MUKTSAR	S-NPP	30.49006	74.40501	13:30:00	D	5.30
637	MUKTSAR	MUKTSAR	S-NPP	30.49700	74.51244	13:30:00	D	1.30
638	MUKTSAR	MUKTSAR	S-NPP	30.50104	74.49484	13:30:00	D	7.10
639	MUKTSAR	MUKTSAR	AQUA	30.50700	74.62800	14:05:00	D	7.30
640	MUKTSAR	MUKTSAR	AQUA	30.51300	74.58000	14:05:00	D	6.60
641	MUKTSAR	MUKTSAR	AQUA	30.51500	74.57400	14:05:00	D	7.70
642	MUKTSAR	MUKTSAR	S-NPP	30.52436	74.46894	13:30:00	D	2.20
643	MUKTSAR	MUKTSAR	S-NPP	30.53193	74.68851	13:30:00	D	2.10
644	MUKTSAR	MUKTSAR	S-NPP	30.53395	74.67976	13:30:00	D	1.80
645	MUKTSAR	MUKTSAR	S-NPP	30.53525	74.55861	13:30:00	D	11.70
646	MUKTSAR	MUKTSAR	S-NPP	30.53856	74.55791	13:30:00	D	11.70
647	MUKTSAR	MUKTSAR	S-NPP	30.54364	74.46063	13:30:00	D	1.40
648	MUKTSAR	MUKTSAR	S-NPP	30.54553	74.46039	13:30:00	D	2.90
649	MUKTSAR	MUKTSAR	S-NPP	30.54751	74.48492	13:30:00	D	2.70
650	MUKTSAR	MUKTSAR	S-NPP	30.54905	74.49635	02:12:00	N	0.70
651	MUKTSAR	MUKTSAR	S-NPP	30.54945	74.48466	13:30:00	D	10.60
652	MUKTSAR	MUKTSAR	S-NPP	30.55226	74.60090	13:30:00	D	1.30
653	MUKTSAR	MUKTSAR	S-NPP	30.55235	74.49702	02:12:00	N	0.70
654	MUKTSAR	MUKTSAR	AQUA	30.55800	74.56800	14:05:00	D	28.80
655	MUKTSAR	MUKTSAR	AQUA	30.56000	74.58300	14:05:00	D	7.80
656	MUKTSAR	MUKTSAR	S-NPP	30.56734	74.48922	13:30:00	D	1.80
657	MUKTSAR	MUKTSAR	S-NPP	30.56828	74.38842	13:30:00	D	2.20

658	MUKTSAR	MUKTSAR	S-NPP	30.57052	74.53035	13:30:00	D	8.30
659	MUKTSAR	MUKTSAR	S-NPP	30.57629	74.37411	13:30:00	D	9.40
660	MUKTSAR	MUKTSAR	S-NPP	30.58757	74.38009	13:30:00	D	13.50
661	MUKTSAR	MUKTSAR	AQUA	30.60900	74.49200	14:05:00	D	12.70
662	MUKTSAR	MUKTSAR	S-NPP	30.63773	74.60789	13:30:00	D	6.20
663	MUKTSAR	MUKTSAR	S-NPP	30.66862	74.50642	13:30:00	D	2.40
664	PATIALA	SAMANA	S-NPP	29.91781	76.02246	13:30:00	D	1.30
665	PATIALA	SAMANA	S-NPP	29.97363	76.03677	13:30:00	D	4.10
666	PATIALA	SAMANA	S-NPP	29.97693	76.03613	13:30:00	D	7.30
667	PATIALA	SAMANA	S-NPP	30.01664	76.14286	13:30:00	D	2.40
668	PATIALA	SAMANA	S-NPP	30.04061	76.16686	13:30:00	D	7.50
669	PATIALA	SAMANA	S-NPP	30.05409	76.16872	13:30:00	D	5.00
670	SANGRUR	DHURI	AQUA	30.30800	75.66200	14:05:00	D	9.30
671	SANGRUR	MOONAK	S-NPP	29.83385	75.96137	13:30:00	D	15.30
672	SANGRUR	MOONAK	S-NPP	29.83716	75.96072	13:30:00	D	13.50
673	SANGRUR	MOONAK	S-NPP	29.91767	75.91291	13:30:00	D	5.90
674	SANGRUR	MOONAK	S-NPP	29.95524	75.82378	13:30:00	D	2.70
675	SANGRUR	MOONAK	S-NPP	29.95583	75.82774	13:30:00	D	2.70
676	SANGRUR	SANGRUR	S-NPP	30.16944	75.60568	13:30:00	D	2.50
677	SANGRUR	SANGRUR	AQUA	30.19000	75.61200	14:05:00	D	16.70
678	SANGRUR	SANGRUR	S-NPP	30.19208	75.62196	13:30:00	D	1.60
679	SANGRUR	SANGRUR	S-NPP	30.19301	75.65043	13:30:00	D	1.70
680	SANGRUR	SANGRUR	S-NPP	30.19634	75.69480	13:30:00	D	2.70
681	SANGRUR	SANGRUR	S-NPP	30.19695	75.69878	13:30:00	D	2.70
682	SANGRUR	SANGRUR	S-NPP	30.20077	75.61201	13:30:00	D	1.50
683	SANGRUR	SANGRUR	S-NPP	30.22512	75.66037	13:30:00	D	4.10
684	SANGRUR	SANGRUR	S-NPP	30.22782	75.65574	13:30:00	D	4.10
685	SANGRUR	SUNAM	S-NPP	29.93213	75.73853	13:30:00	D	3.10
686	SANGRUR	SUNAM	S-NPP	30.03606	75.77538	13:30:00	D	8.80
687	SANGRUR	SUNAM	S-NPP	30.03936	75.77472	13:30:00	D	25.60
688	SANGRUR	SUNAM	S-NPP	30.06301	75.90907	13:30:00	D	3.00
689	SANGRUR	SUNAM	S-NPP	30.07023	75.68680	13:30:00	D	8.50
690	SANGRUR	SUNAM	S-NPP	30.07839	76.05743	13:30:00	D	3.30

691	SANGRUR	SUNAM	S-NPP	30.17135	75.79771	13:30:00	D	5.20
692	TARN TARAN	KHADOOR SAHIB	S-NPP	31.46330	74.77019	13:30:00	D	1.50
693	TARN TARAN	PATTI	S-NPP	31.19151	74.93828	13:30:00	D	2.20

Details of residue burning events in Haryana on 18-Nov-2020

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	Time (IST)	Day / Night	Fire Power (W/m ²)
1	BHIWANI	BAWANI_KHERA	S-NPP	29.02439	76.15773	13:30:00	D	1.90
2	FATEHABAD	FATEHABAD	S-NPP	29.51343	75.72289	13:30:00	D	5.90
3	FATEHABAD	FATEHABAD	AQUA	29.53300	75.31500	14:05:00	D	12.40
4	FATEHABAD	FATEHABAD	S-NPP	29.53779	75.50662	13:30:00	D	2.00
5	FATEHABAD	FATEHABAD	AQUA	29.55000	75.48100	14:05:00	D	18.30
6	FATEHABAD	FATEHABAD	S-NPP	29.55037	75.38993	13:30:00	D	21.30
7	FATEHABAD	FATEHABAD	S-NPP	29.55252	75.31612	13:30:00	D	2.60
8	FATEHABAD	FATEHABAD	S-NPP	29.56113	75.37153	13:30:00	D	1.50
9	FATEHABAD	FATEHABAD	S-NPP	29.58034	75.62839	13:30:00	D	13.70
10	FATEHABAD	FATEHABAD	AQUA	29.58100	75.34200	14:05:00	D	30.10
11	FATEHABAD	FATEHABAD	S-NPP	29.58106	75.52237	13:30:00	D	2.20
12	FATEHABAD	FATEHABAD	S-NPP	29.58286	75.31403	13:30:00	D	3.60
13	FATEHABAD	FATEHABAD	S-NPP	29.58386	75.34243	13:30:00	D	3.00
14	FATEHABAD	FATEHABAD	S-NPP	29.58479	75.59086	13:30:00	D	3.30
15	FATEHABAD	FATEHABAD	S-NPP	29.59078	75.58559	13:30:00	D	19.50
16	FATEHABAD	FATEHABAD	S-NPP	29.59959	75.33927	13:30:00	D	5.60
17	FATEHABAD	FATEHABAD	S-NPP	29.61240	75.31216	13:30:00	D	3.70
18	FATEHABAD	FATEHABAD	S-NPP	29.61302	75.31612	13:30:00	D	3.70
19	FATEHABAD	FATEHABAD	S-NPP	29.61570	75.31149	13:30:00	D	3.40
20	FATEHABAD	FATEHABAD	S-NPP	29.61632	75.31545	13:30:00	D	3.40
21	FATEHABAD	FATEHABAD	AQUA	29.61700	75.67900	14:05:00	D	13.40
22	FATEHABAD	FATEHABAD	AQUA	29.61700	75.69000	14:05:00	D	16.60
23	FATEHABAD	FATEHABAD	S-NPP	29.61817	75.32733	13:30:00	D	3.60
24	FATEHABAD	FATEHABAD	S-NPP	29.61878	75.33129	13:30:00	D	3.60
25	FATEHABAD	FATEHABAD	S-NPP	29.62354	75.31808	13:30:00	D	2.70
26	FATEHABAD	FATEHABAD	AQUA	29.62500	75.31200	14:05:00	D	17.10
27	FATEHABAD	FATEHABAD	S-NPP	29.62684	75.31740	13:30:00	D	2.70
28	FATEHABAD	RATIA	S-NPP	29.59191	75.54870	13:30:00	D	1.90
29	FATEHABAD	RATIA	S-NPP	29.59521	75.54804	13:30:00	D	1.90
30	FATEHABAD	RATIA	AQUA	29.61900	75.59200	14:05:00	D	12.20

31	FATEHABAD	RATIA	S-NPP	29.66981	75.52901	13:30:00	D	6.30
32	FATEHABAD	RATIA	AQUA	29.69000	75.39900	14:05:00	D	24.80
33	FATEHABAD	RATIA	AQUA	29.69100	75.40400	14:05:00	D	39.50
34	FATEHABAD	RATIA	AQUA	29.69100	75.41500	14:05:00	D	17.90
35	FATEHABAD	RATIA	S-NPP	29.70342	75.52633	13:30:00	D	2.40
36	FATEHABAD	RATIA	S-NPP	29.70934	75.67596	13:30:00	D	2.20
37	FATEHABAD	RATIA	S-NPP	29.72209	75.55927	13:30:00	D	6.00
38	FATEHABAD	RATIA	S-NPP	29.73016	75.54542	13:30:00	D	2.90
39	FATEHABAD	RATIA	S-NPP	29.73441	75.57311	13:30:00	D	2.30
40	FATEHABAD	RATIA	S-NPP	29.74251	75.53912	13:30:00	D	6.80
41	FATEHABAD	RATIA	S-NPP	29.74283	75.58366	13:30:00	D	1.30
42	FATEHABAD	RATIA	S-NPP	29.74740	75.63574	13:30:00	D	3.00
43	JIND	SAFIDON	S-NPP	29.40705	76.73672	13:30:00	D	2.70
44	KARNAL	GHARAUNDA	S-NPP	29.53903	76.99700	13:30:00	D	1.40
45	PANIPAT	ISRANA	S-NPP	29.29881	76.78165	13:30:00	D	4.00
46	PANIPAT	ISRANA	S-NPP	29.32981	76.68975	13:30:00	D	2.20
47	ROHTAK	MAHAM	S-NPP	28.89550	76.38461	13:30:00	D	2.20
48	SIRSA	DABWALI	S-NPP	29.87679	74.55779	13:30:00	D	9.90
49	SIRSA	DABWALI	S-NPP	30.02311	74.73118	13:30:00	D	6.50
50	SIRSA	ELLENABAD	S-NPP	29.43153	74.85258	13:30:00	D	2.40
51	SIRSA	ELLENABAD	AQUA	29.44100	74.88500	14:05:00	D	11.70
52	SIRSA	ELLENABAD	S-NPP	29.52260	74.65973	13:30:00	D	4.90
53	SIRSA	ELLENABAD	S-NPP	29.53046	74.68717	13:30:00	D	4.30
54	SIRSA	RANIA	S-NPP	29.50326	74.82941	13:30:00	D	1.90
55	SIRSA	RANIA	S-NPP	29.54568	74.82485	13:30:00	D	2.90
56	SIRSA	RANIA	AQUA	29.54600	74.67300	14:05:00	D	13.20
57	SIRSA	RANIA	AQUA	29.54700	74.68800	14:05:00	D	8.60
58	SIRSA	RANIA	AQUA	29.54900	74.70300	14:05:00	D	7.90
59	SIRSA	SIRSA	S-NPP	29.43230	74.94312	13:30:00	D	3.40
60	SIRSA	SIRSA	S-NPP	29.44506	74.91578	13:30:00	D	5.70
61	SIRSA	SIRSA	S-NPP	29.50648	74.93603	13:30:00	D	2.60
62	SIRSA	SIRSA	S-NPP	29.50711	74.94003	13:30:00	D	2.60
63	SIRSA	SIRSA	S-NPP	29.55749	75.28242	13:30:00	D	3.90
64	SONIPAT	GOHANA	S-NPP	28.99419	76.73116	13:30:00	D	1.90

65	SONIPAT	GOHANA	S-NPP	29.00140	76.71590	02:12:00	N	0.50
66	SONIPAT	GOHANA	S-NPP	29.25807	76.64198	13:30:00	D	2.60
67	SONIPAT	KHARKHODA	S-NPP	28.96577	76.79359	13:30:00	D	5.10

Details of residue burning events in Uttar Pradesh on 18-Nov-2020

S. No.	District	Tehsil / Block	Satellite	Latitude	Longitude	Time (IST)	Day / Night	Fire Power (W/m²)
1	ALIGARH	KHAIR	S-NPP	28.09532	77.61396	13:30:00	D	3.20
2	ALIGARH	KHAIR	S-NPP	28.09685	77.61411	13:30:00	D	3.20
3	BAGHPAT	BARAUT	S-NPP	29.23514	77.27124	13:30:00	D	2.20
4	BALLIA	BALLIA	S-NPP	25.80085	84.03501	13:30:00	D	4.00
5	BALLIA	SIKANDARPUR	S-NPP	26.01096	83.96276	13:30:00	D	9.90
6	BAREILLY	FARIDPUR	S-NPP	28.09082	79.58484	02:12:00	N	2.20
7	BAREILLY	FARIDPUR	S-NPP	28.09442	79.58447	02:12:00	N	0.50
8	BIJNOR	BIJNOR	S-NPP	29.22265	78.13137	13:30:00	D	2.60
9	BIJNOR	DHAMPUR	S-NPP	29.27670	78.50602	13:30:00	D	3.00
10	BIJNOR	DHAMPUR	S-NPP	29.32678	78.52556	13:30:00	D	3.70
11	BULANSAHAR	DIBAI	TERRA	28.31600	78.13600	10:50:00	D	8.00
12	BULANSAHAR	SHIKARPUR	TERRA	28.32000	78.13100	10:50:00	D	5.10
13	DEORIA	DEORIA	S-NPP	26.65834	83.69434	02:12:00	N	0.40
14	DEORIA	DEORIA	S-NPP	26.66431	83.66789	02:12:00	N	0.30
15	DEORIA	DEORIA	S-NPP	26.69700	83.69402	13:30:00	D	4.30
16	GAUTAMBUDHNAGAR	JEVAR	S-NPP	28.13844	77.71425	13:30:00	D	6.30
17	GORAKHPUR	CHAURI CHAURA	TERRA	26.72700	83.56900	10:50:00	D	5.90
18	GORAKHPUR	GORAKHPUR	S-NPP	26.74525	83.55100	13:30:00	D	4.20
19	HAPUR	HAPUR	S-NPP	28.79438	77.89951	13:30:00	D	4.30
20	HAPUR	HAPUR	S-NPP	28.82154	77.89471	13:30:00	D	1.50
21	HARDOI	HARDOI	TERRA	27.42100	80.05900	10:50:00	D	5.40
22	KHERI	GOLA	S-NPP	27.99007	80.44073	02:12:00	N	0.30
23	KHERI	GOLA	S-NPP	28.15202	80.45564	13:30:00	D	5.90
24	KHERI	GOLA	S-NPP	28.19245	80.47316	13:30:00	D	2.60
25	KHERI	GOLA	S-NPP	28.20831	80.42234	02:12:00	N	0.40
26	KHERI	LAKHIMPUR	S-NPP	27.96211	80.62776	13:30:00	D	2.50
27	KHERI	MOHMADI	TERRA	27.92000	80.17700	10:50:00	D	5.50
28	KHERI	MOHMADI	S-NPP	27.95576	80.10612	02:12:00	N	0.70
29	KHERI	NIGHASAN	S-NPP	28.29533	80.91106	13:30:00	D	5.90
30	KUSHINAGAR	HATA	S-NPP	26.81457	83.64517	02:12:00	N	0.30

31	KUSHINAGAR	HATA	S-NPP	26.81922	83.60671	02:12:00	N	0.70
32	MAHARAJGANJ	MAHARAJGANJ	S-NPP	26.99087	83.62933	02:12:00	N	0.50
33	MAHARAJGANJ	MAHARAJGANJ	S-NPP	27.04198	83.65431	02:12:00	N	0.50
34	MEERUT	MAWANA	TERRA	29.09800	77.83800	10:50:00	D	8.30
35	MEERUT	MAWANA	S-NPP	29.13186	77.92676	13:30:00	D	2.00
36	MEERUT	MAWANA	S-NPP	29.16094	78.11604	13:30:00	D	1.60
37	MEERUT	MEERUT	S-NPP	28.96591	77.57837	13:30:00	D	2.60
38	MEERUT	SARDHANA	S-NPP	29.09043	77.80121	13:30:00	D	2.40
39	MEERUT	SARDHANA	S-NPP	29.13671	77.73381	13:30:00	D	3.20
40	MEERUT	SARDHANA	S-NPP	29.15997	77.77643	13:30:00	D	3.50
41	MUZAFARNAGAR	BUDHANA	S-NPP	29.21973	77.47890	13:30:00	D	2.40
42	MUZAFARNAGAR	BUDHANA	S-NPP	29.31944	77.32349	13:30:00	D	2.20
43	MUZAFARNAGAR	BUDHANA	S-NPP	29.40935	77.48823	13:30:00	D	6.40
44	PILHIBHIT	PILHIBHIT	S-NPP	28.57119	79.75699	02:12:00	N	0.90
45	RAMPUR	SHAHBAD	S-NPP	28.47189	78.98849	13:30:00	D	2.50
46	RAMPUR	SUAR	S-NPP	29.11332	79.03742	13:30:00	D	4.70
47	SAMBHAL	GUNNAUR	S-NPP	28.18544	78.51107	13:30:00	D	4.20
48	SHAHJAHANPUR	PUWANYA	S-NPP	28.15220	80.15460	02:12:00	N	0.30
49	SHAHJAHANPUR	PUWANYA	S-NPP	28.17710	80.07105	02:12:00	N	0.50
50	SHAMLI	KAIRANA	S-NPP	29.34270	77.26913	13:30:00	D	4.20
51	SHAMLI	KAIRANA	S-NPP	29.34431	77.26932	13:30:00	D	7.80
52	SHAMLI	KAIRANA	S-NPP	29.50668	77.16879	13:30:00	D	1.80
53	SHAMLI	KAIRANA	S-NPP	29.61439	77.26242	13:30:00	D	4.30
54	SHAMLI	SHAMLI	S-NPP	29.36072	77.33738	13:30:00	D	4.30
55	SHARANPUR	BEHAT	S-NPP	30.19060	77.78207	13:30:00	D	3.50
56	SIDDHARTHANAGAR	ITWA	S-NPP	27.37747	82.63952	13:30:00	D	4.00
57	SITAPUR	MISRIK	S-NPP	27.41890	80.73049	13:30:00	D	3.00
58	SITAPUR	SITAPUR	S-NPP	27.66412	80.69598	13:30:00	D	5.10

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 / 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)
