

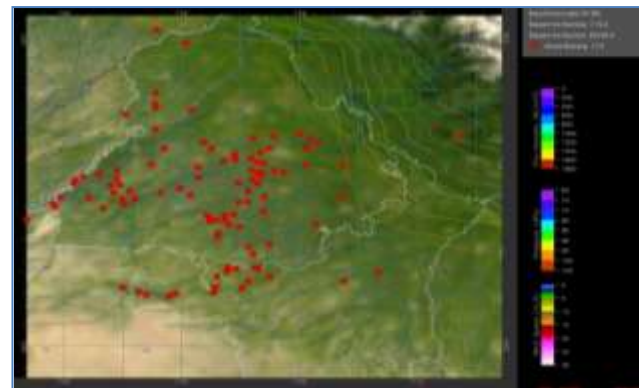


MONITORING PADDY RESIDUE BURNING IN NORTH INDIA USING SATELLITE REMOTE SENSING DURING 2020

**Bulletin
No. 15**

**Events Date:
15-Oct-2020**

**Issued on:
16-Oct-2020**



Prepared by:

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

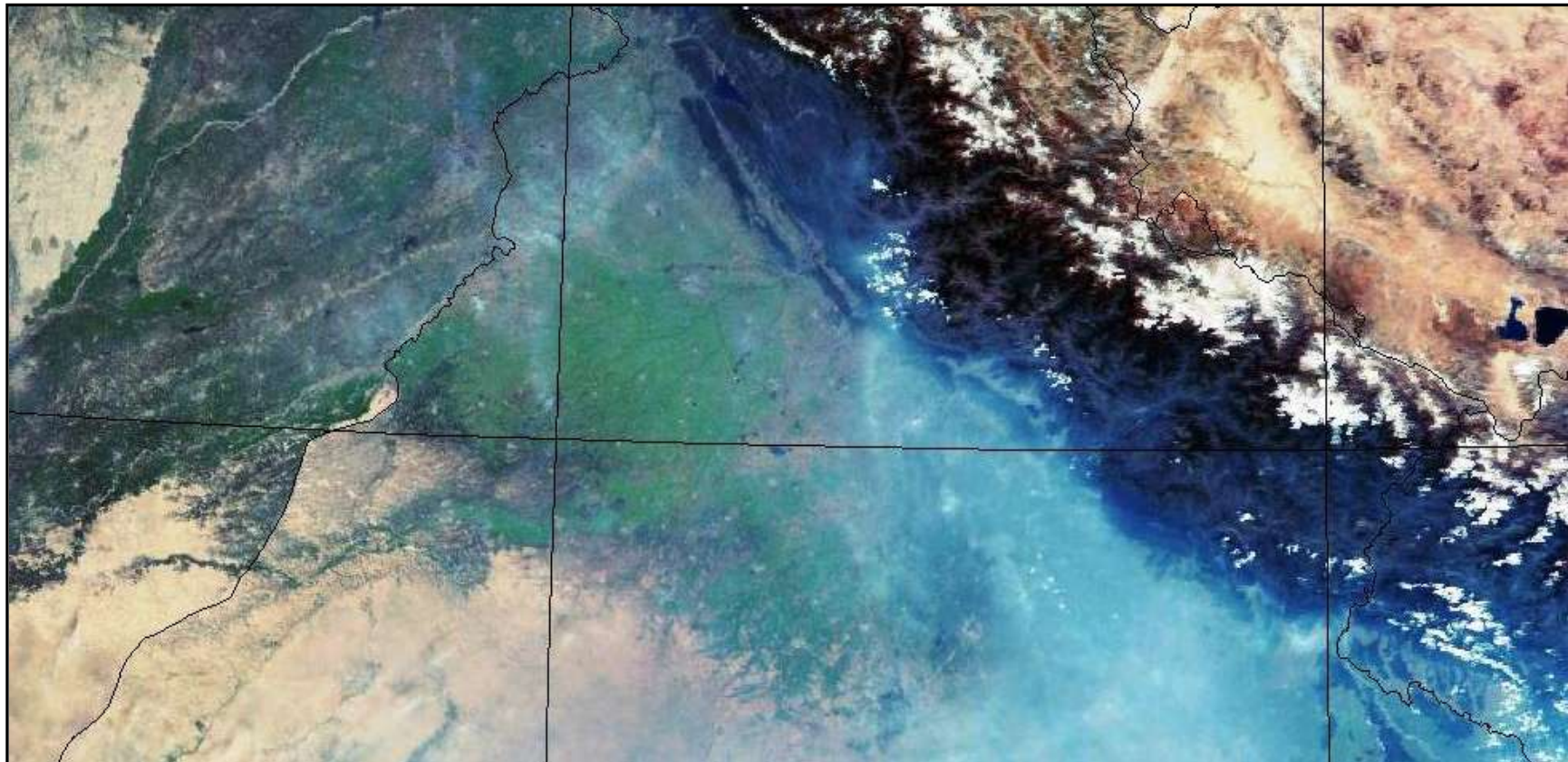
<http://creams.iari.res.in>



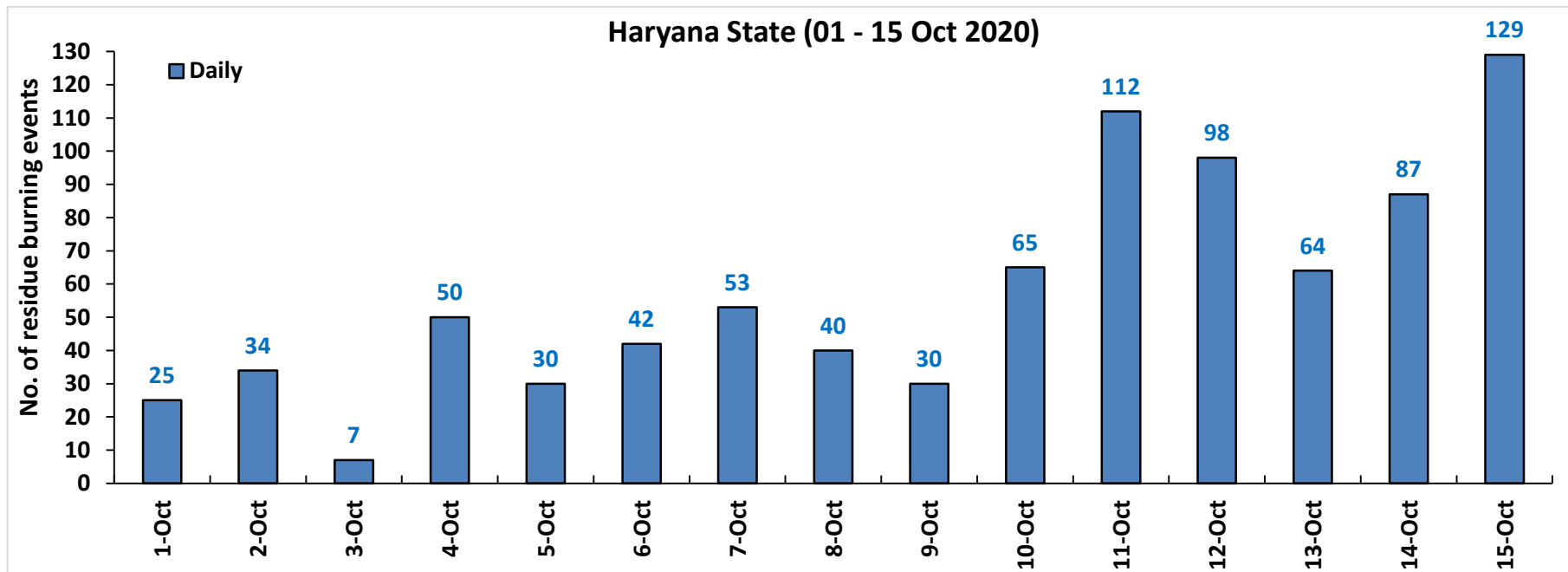
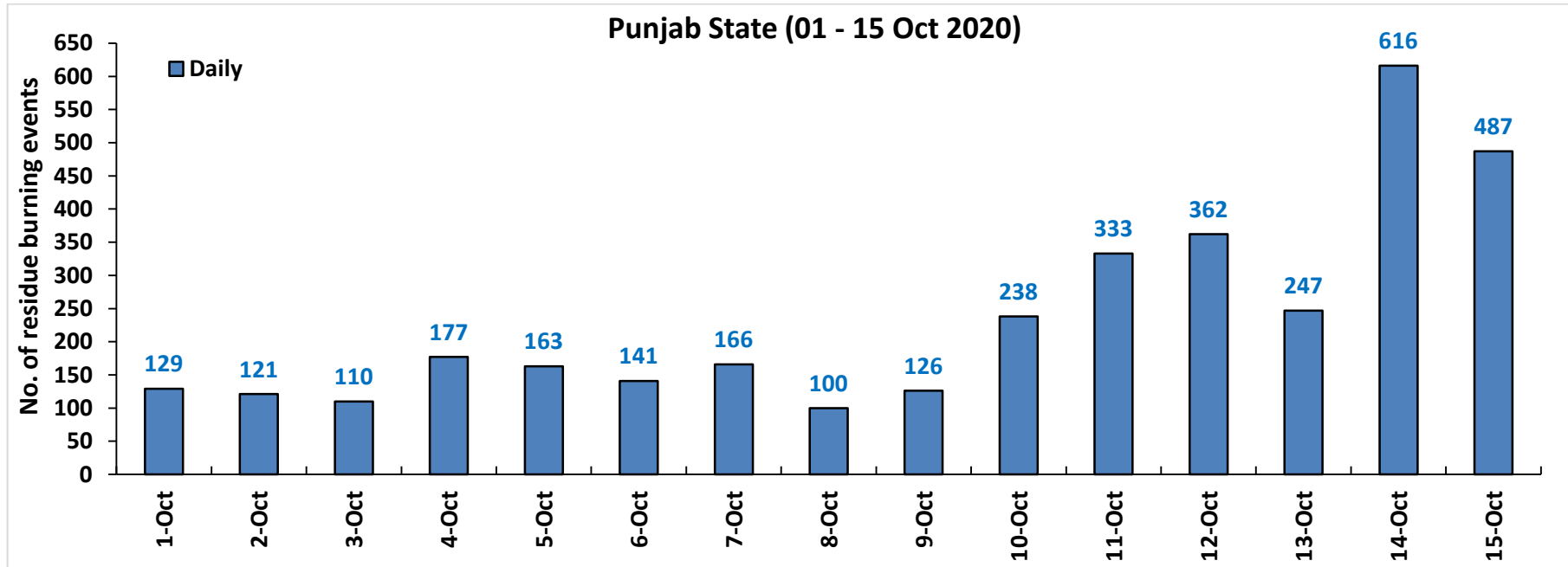
Highlights for 15-October-2020

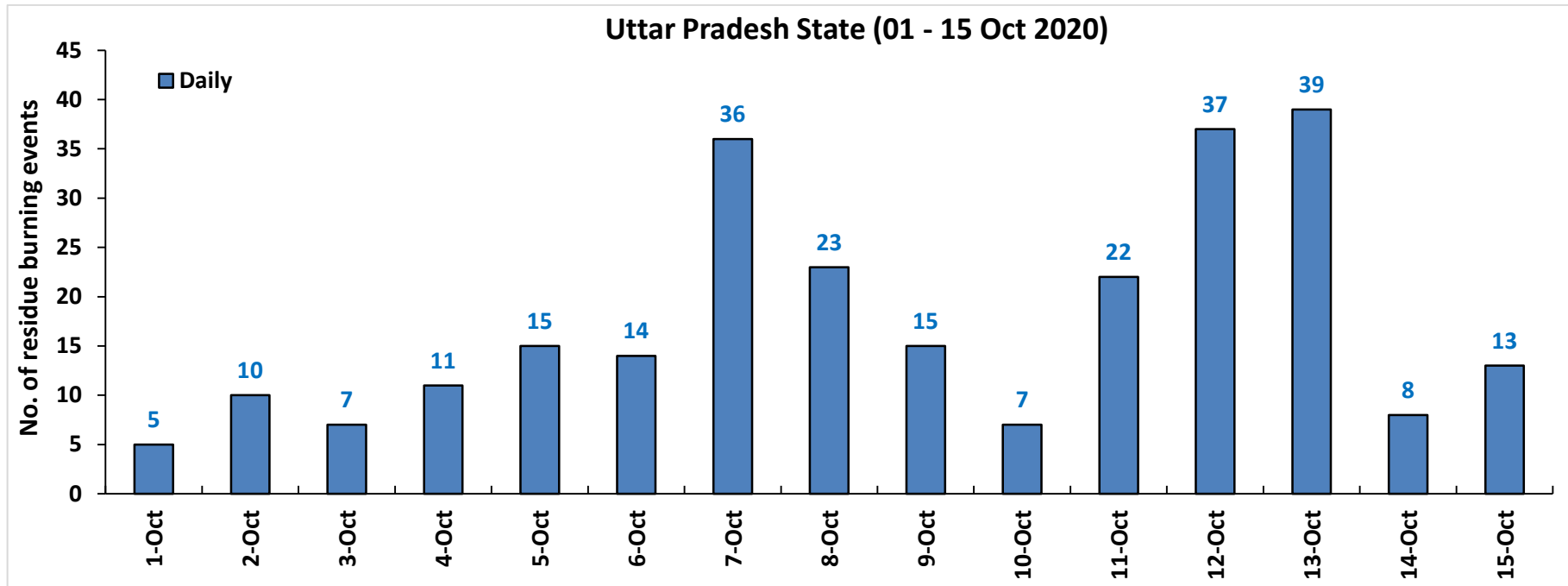
- Satellites detected **629** residue burning events in the three study States on **15-Oct-2020**.
- The state wise events detected on **15-Oct-2020** were **487** in Punjab, **129** in Haryana and **13** in UP.
- The number of events has decreased from **711** on **14-Oct-2020** to **629** on **15-Oct-2020** in the three states.
- Tarn Taran in Punjab, Karnal in Haryana and Mathura in UP reported highest events on 15-Oct-2020.
- Total **4644** burning events were detected in the three States between **01-Oct-2020** and **15-Oct-2020**, which are distributed as **3516**, **866** and **262** in Punjab, Haryana and UP, respectively.
- In Haryana and UP, the cumulative number of burning events between **1-Oct** and **15-Oct 2020** were lower than in **2019**, while in Punjab the cumulative number of events were more than in 2019

S-NPP (VIIRS) Satellite image of North India Acquired on 15-Oct-2020 at 14:03 by IARI Ground Station

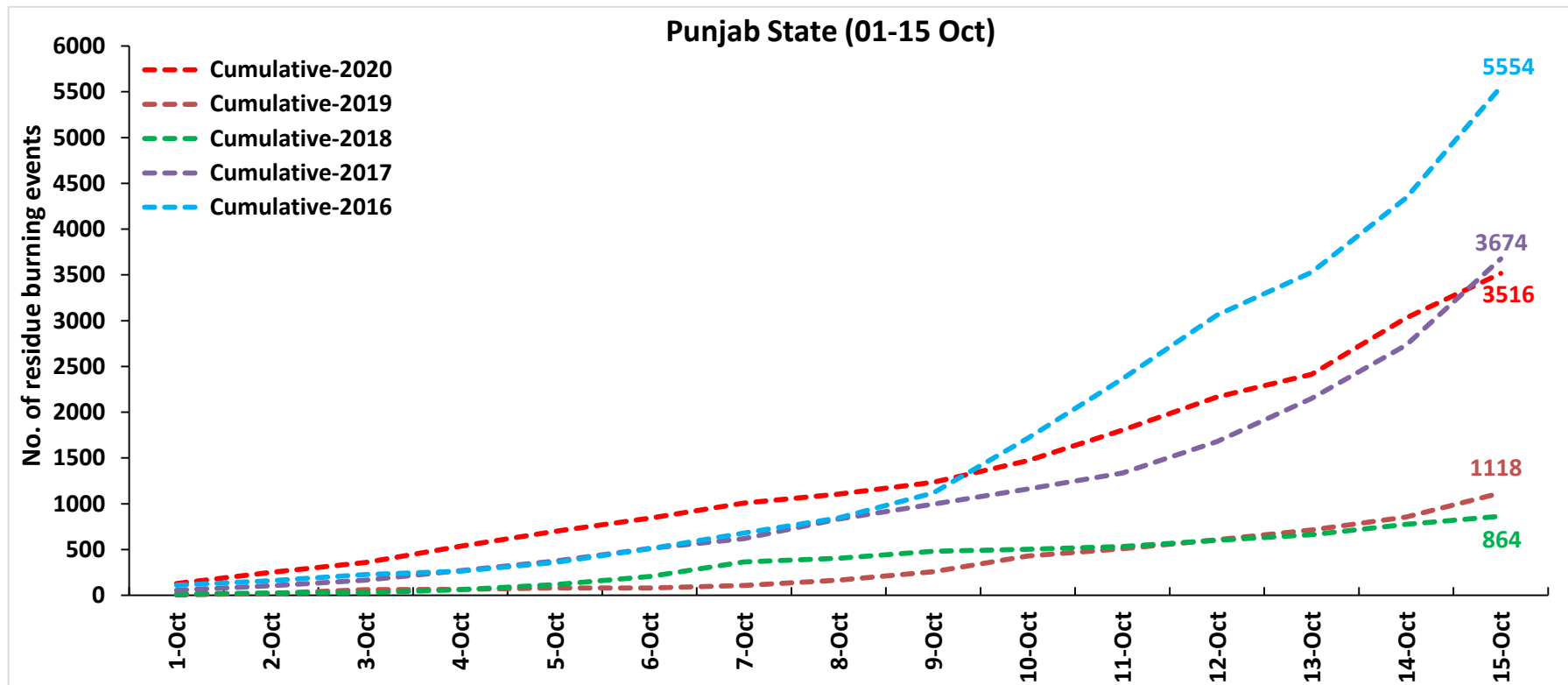


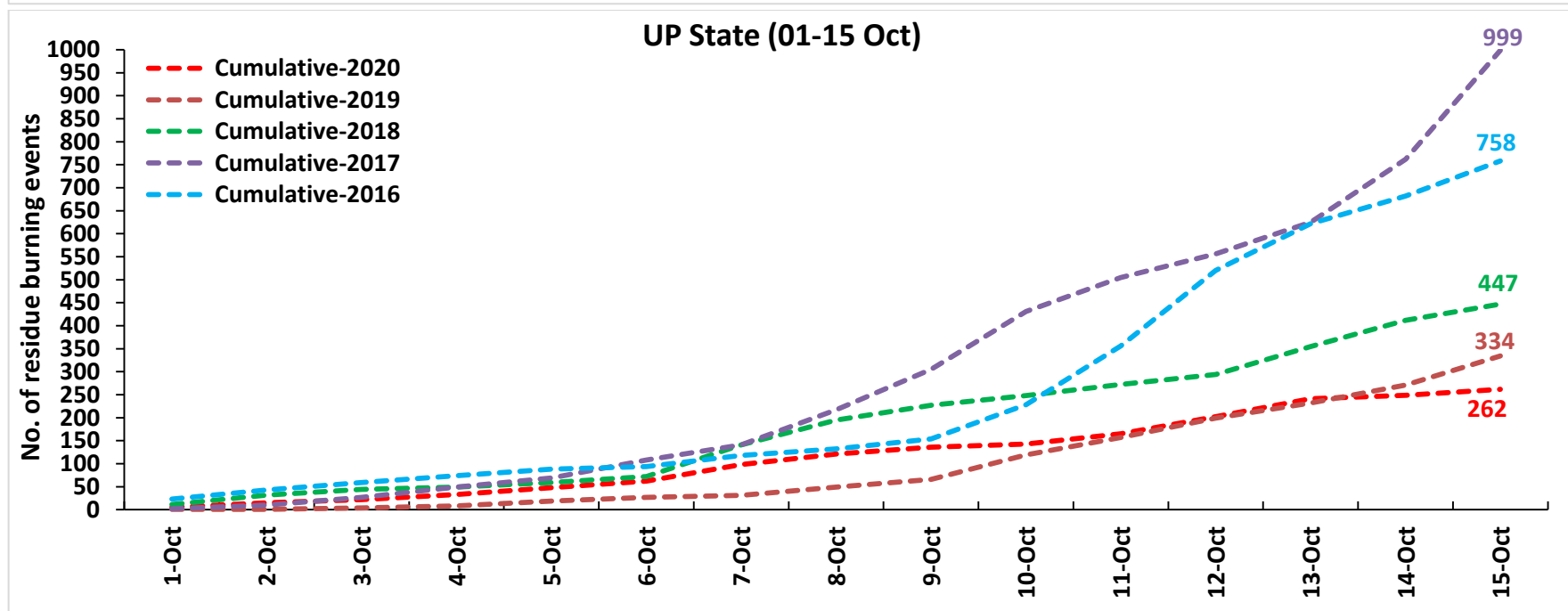
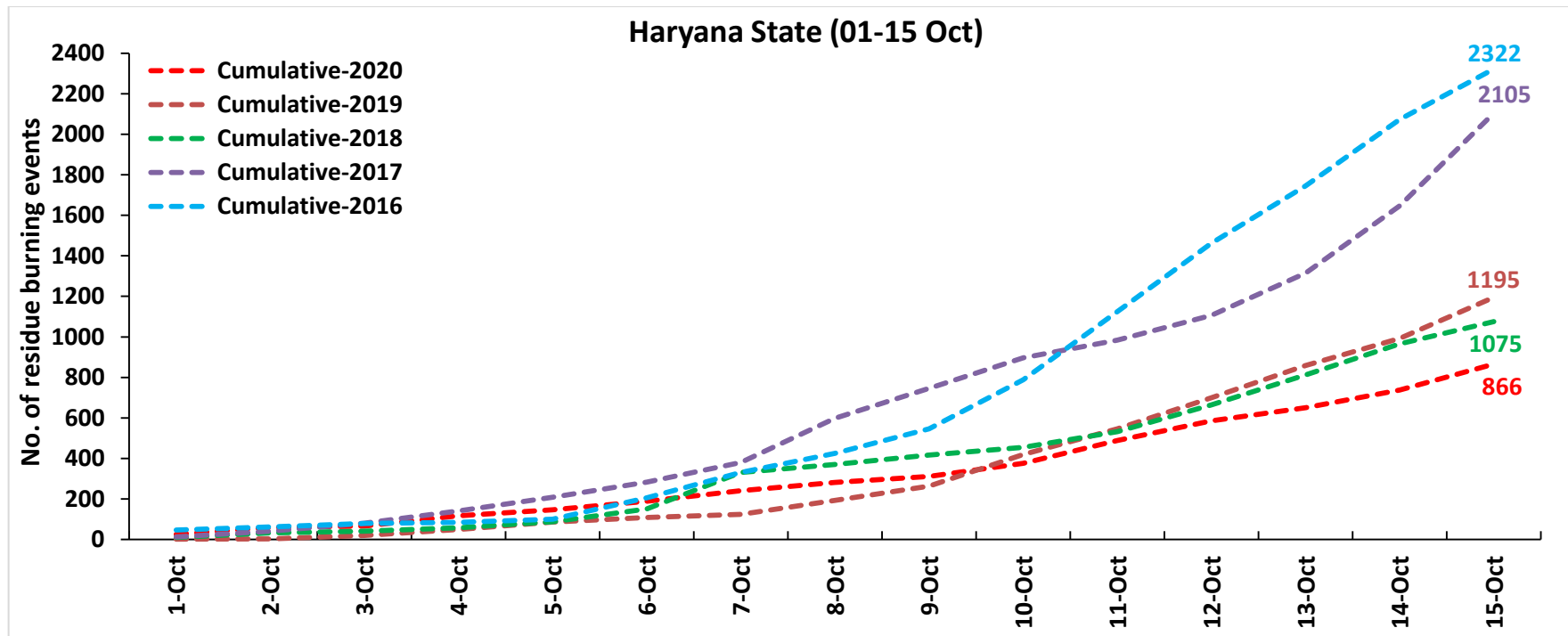
Temporal distribution of residue burning events for the three study States in 2020



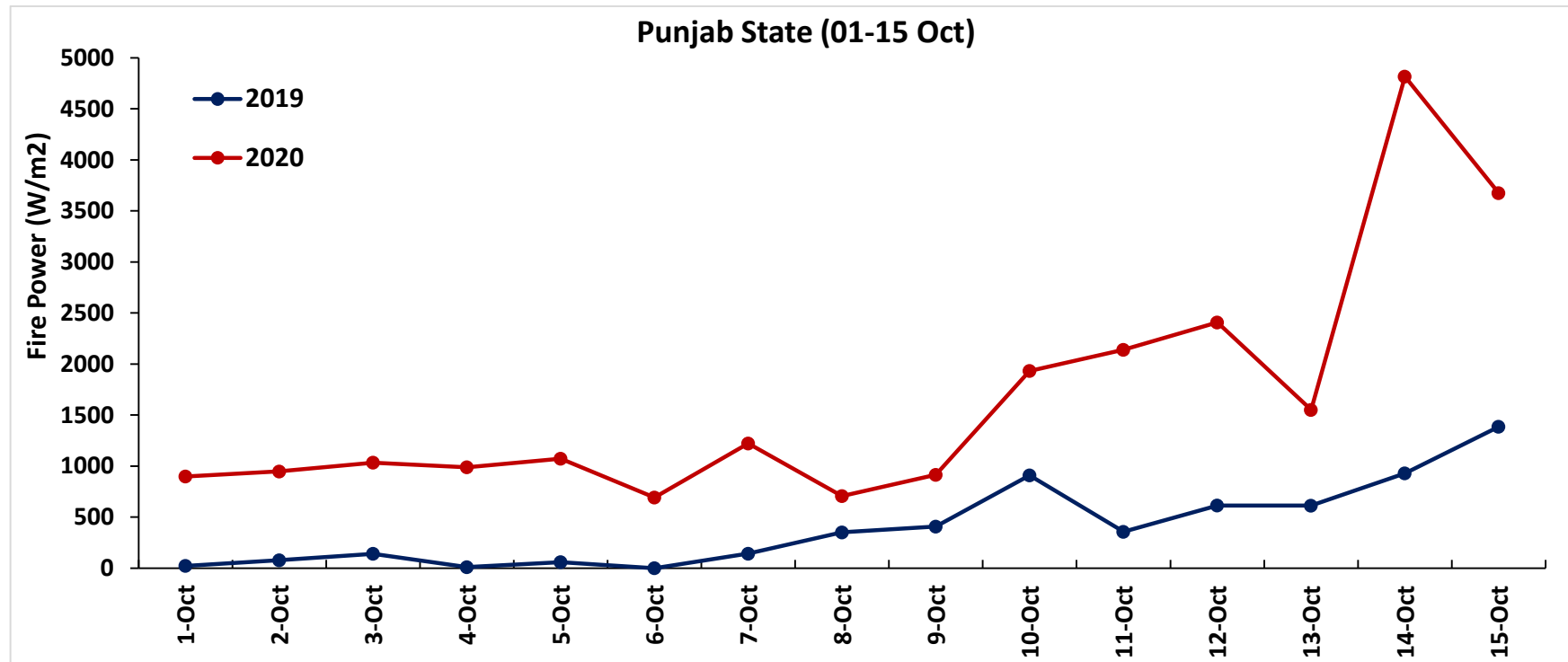


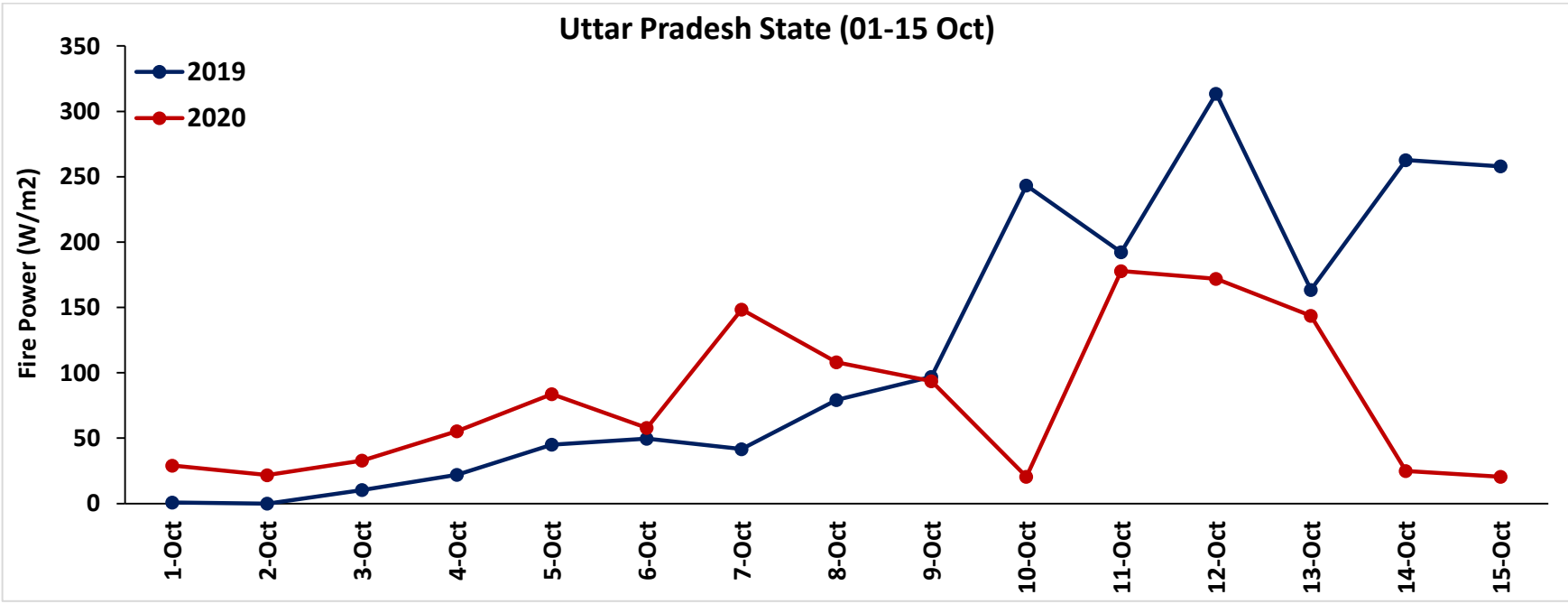
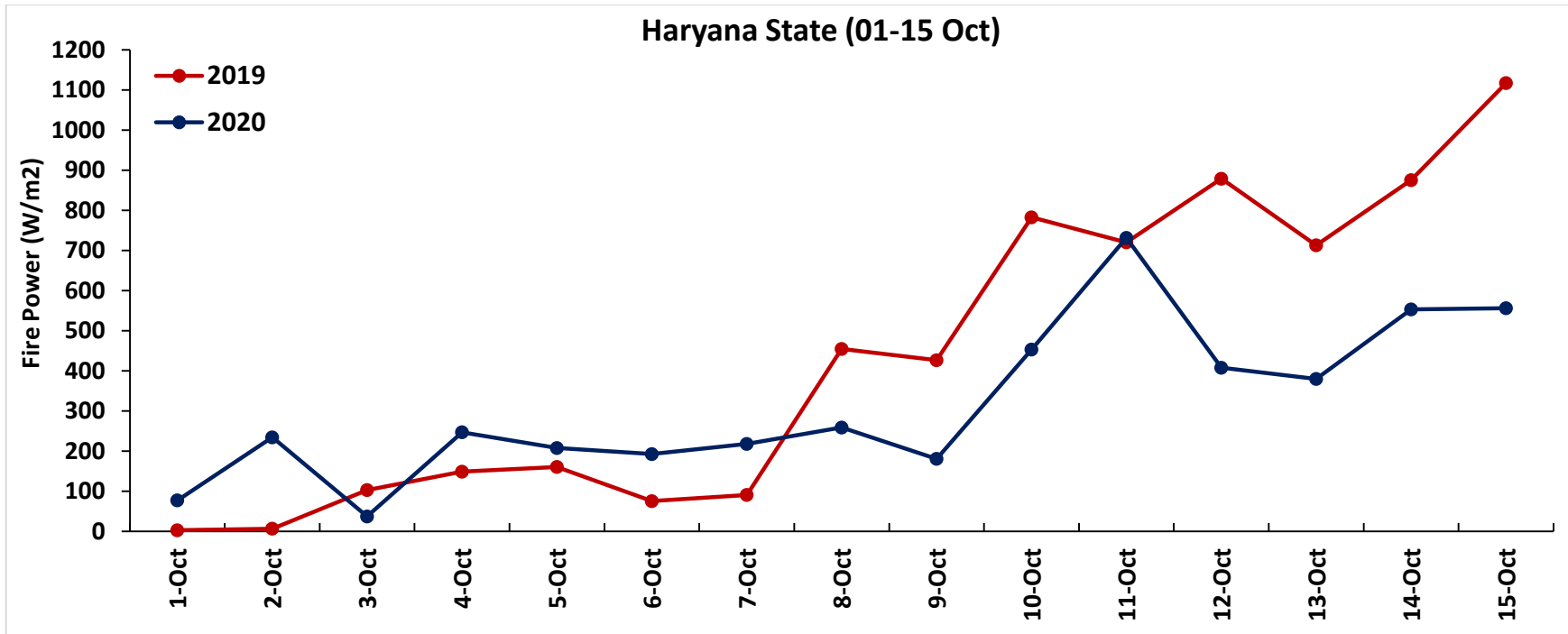
Comparison of residue burning events in current year (2020) with previous years (2019, 2018, 2017 & 2016) for the three study States
(01-Oct to 15-Oct)



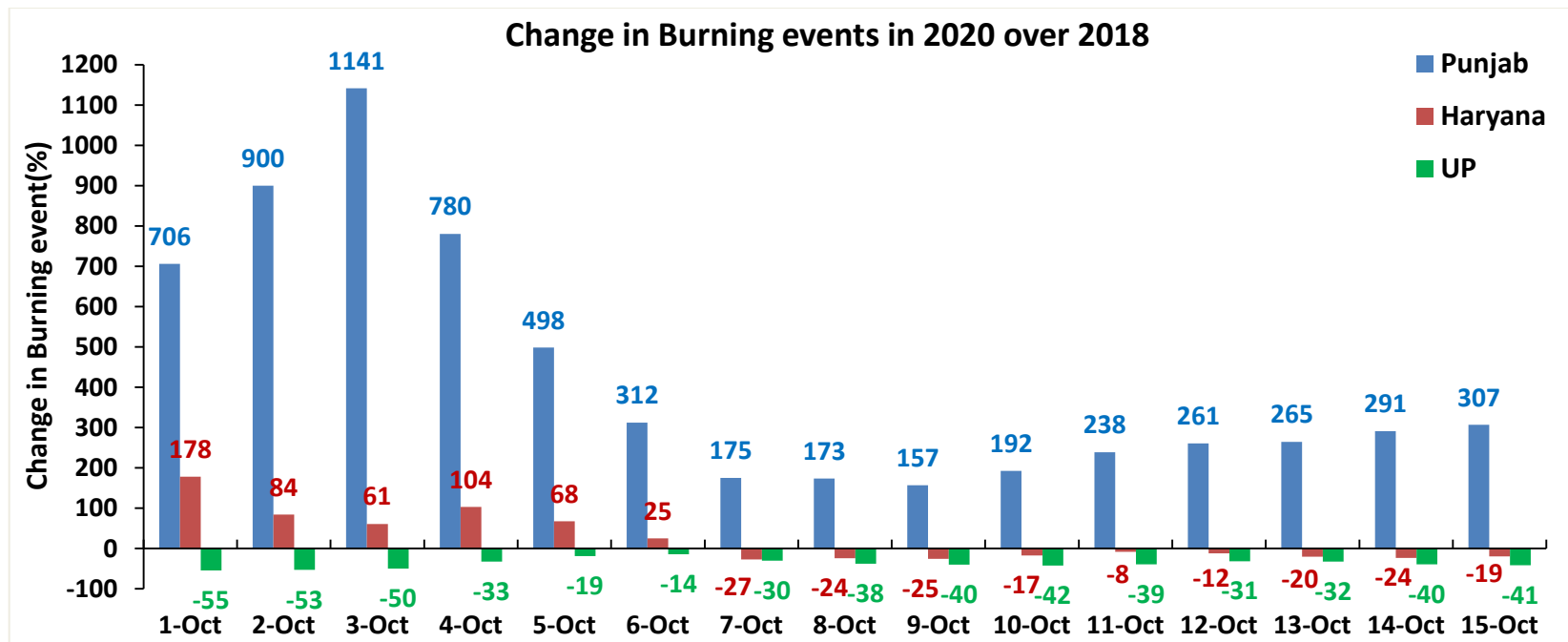
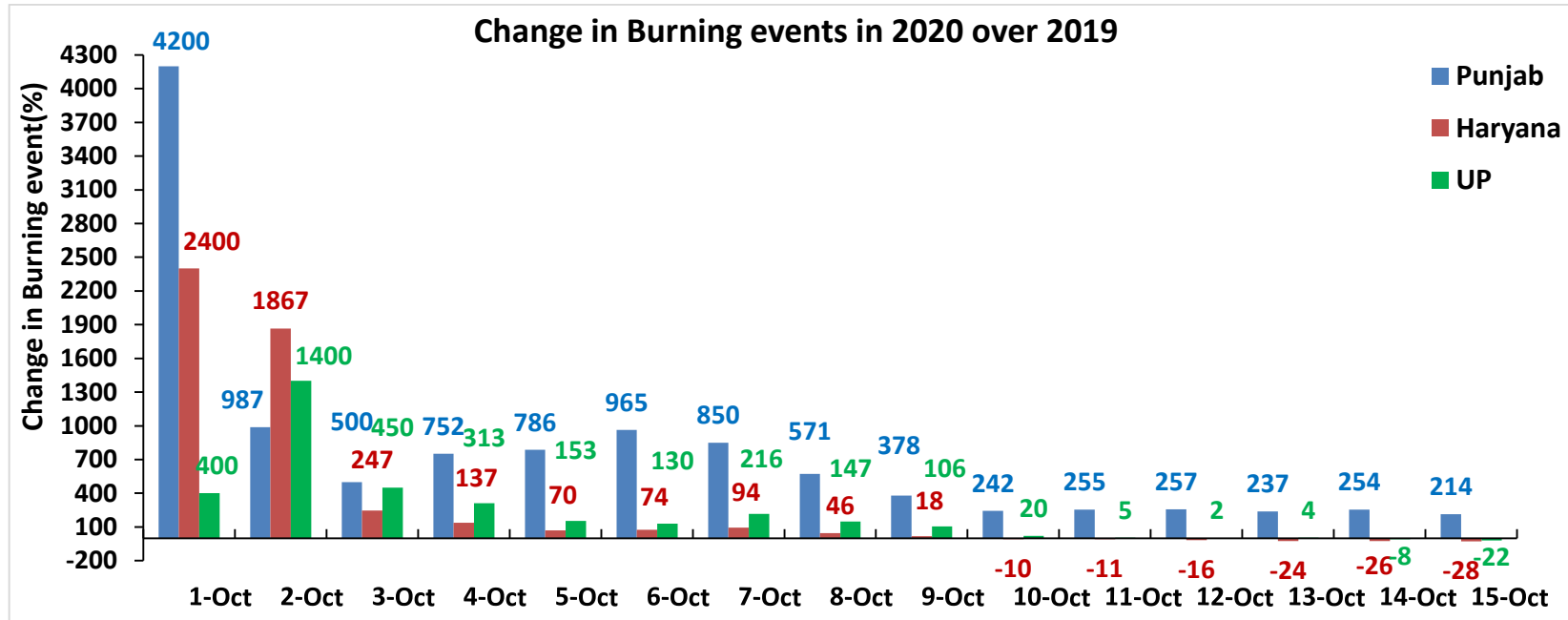


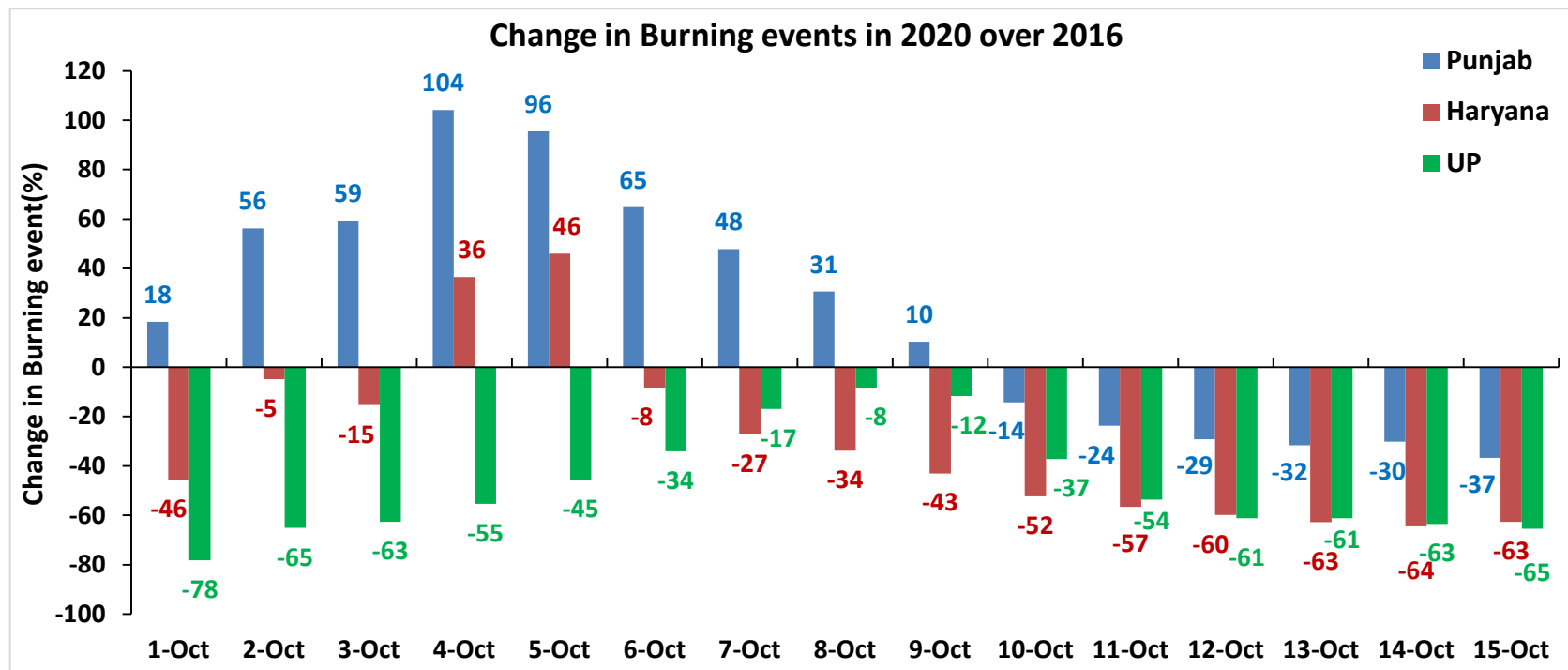
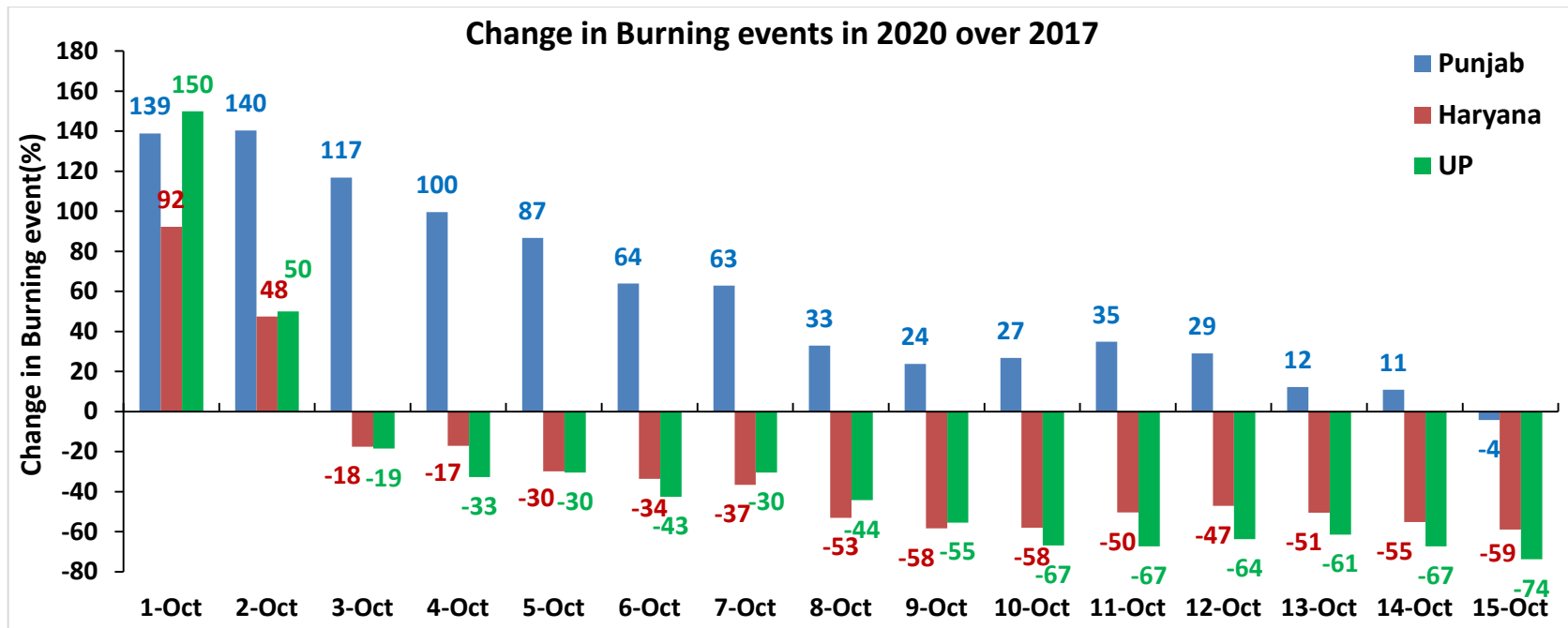
Comparison of Fire Intensity of residue burning events in current year (2020) with previous year (2019)
for the three study States
(01-Oct to 15-Oct)



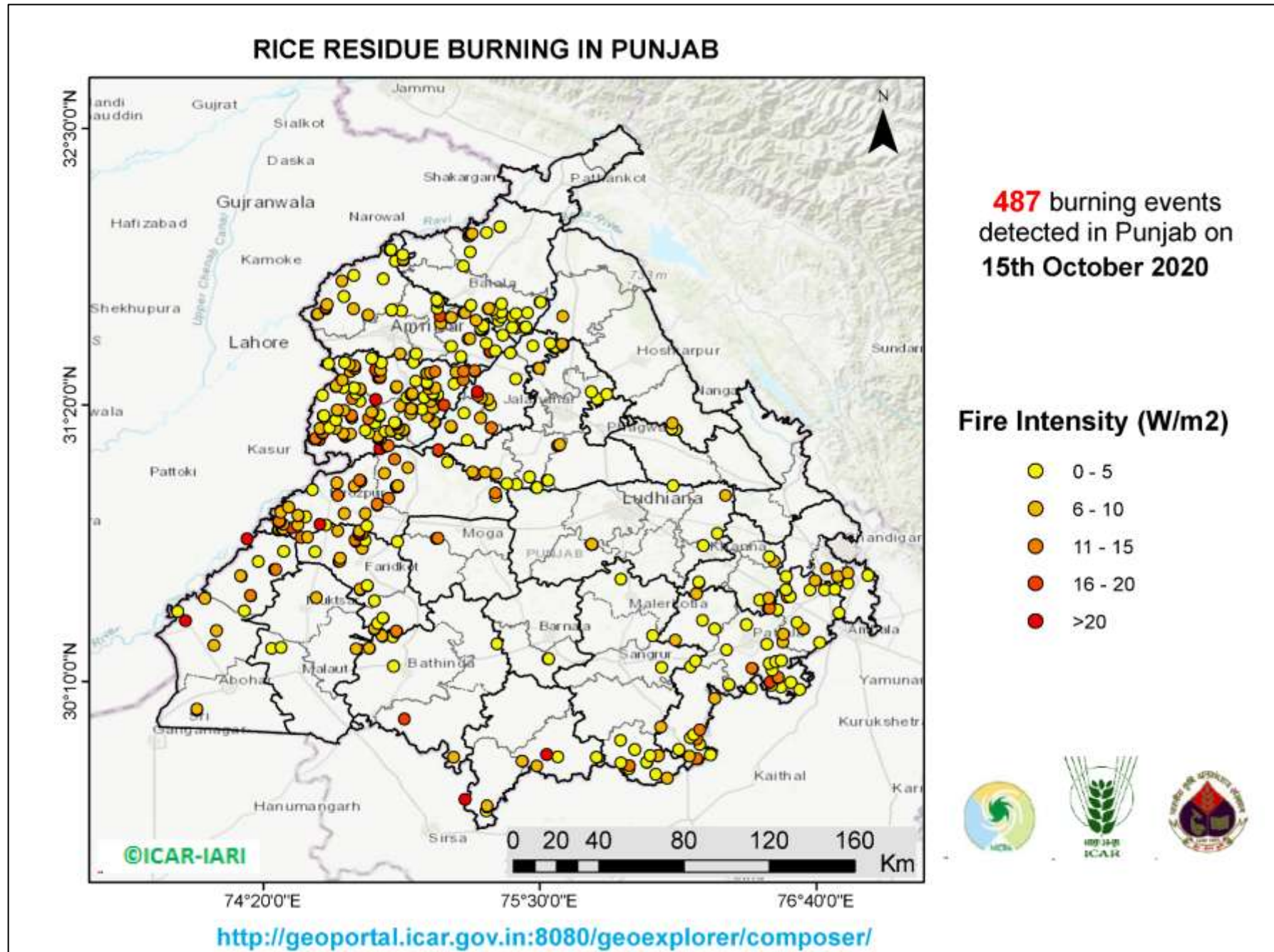


Percent Change in Burning events in 2020 over 2019, 2018, 2017 and 2016 (Daily Cumulative)

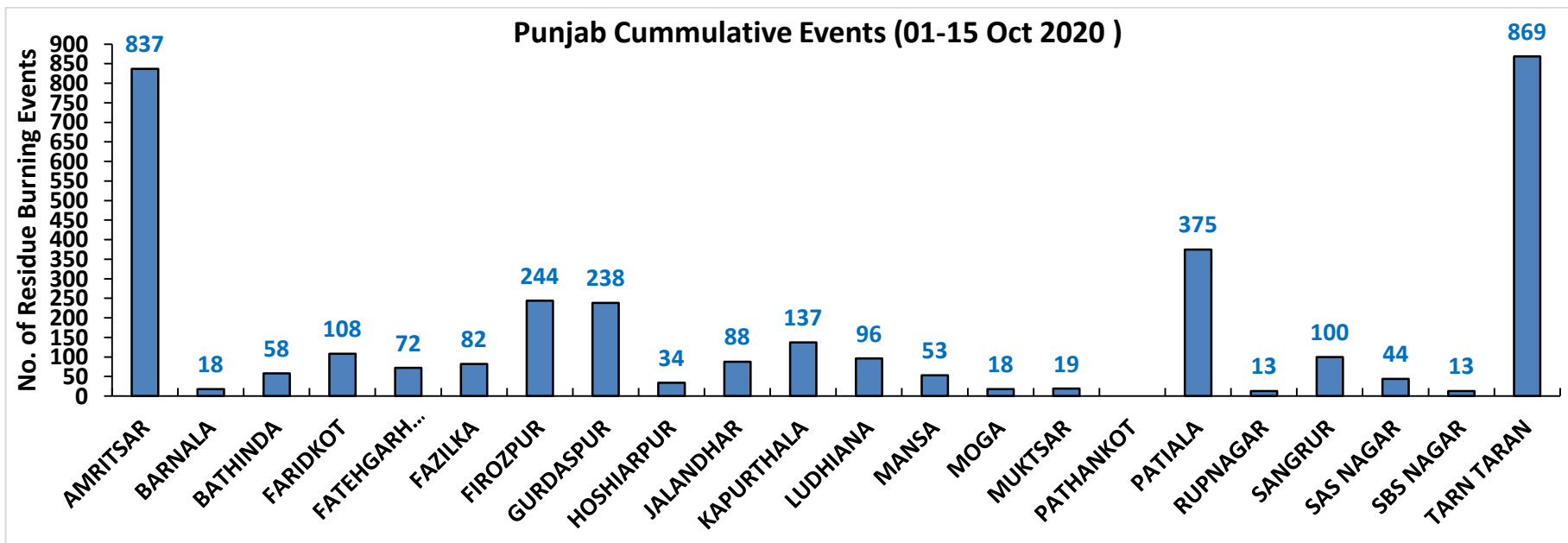
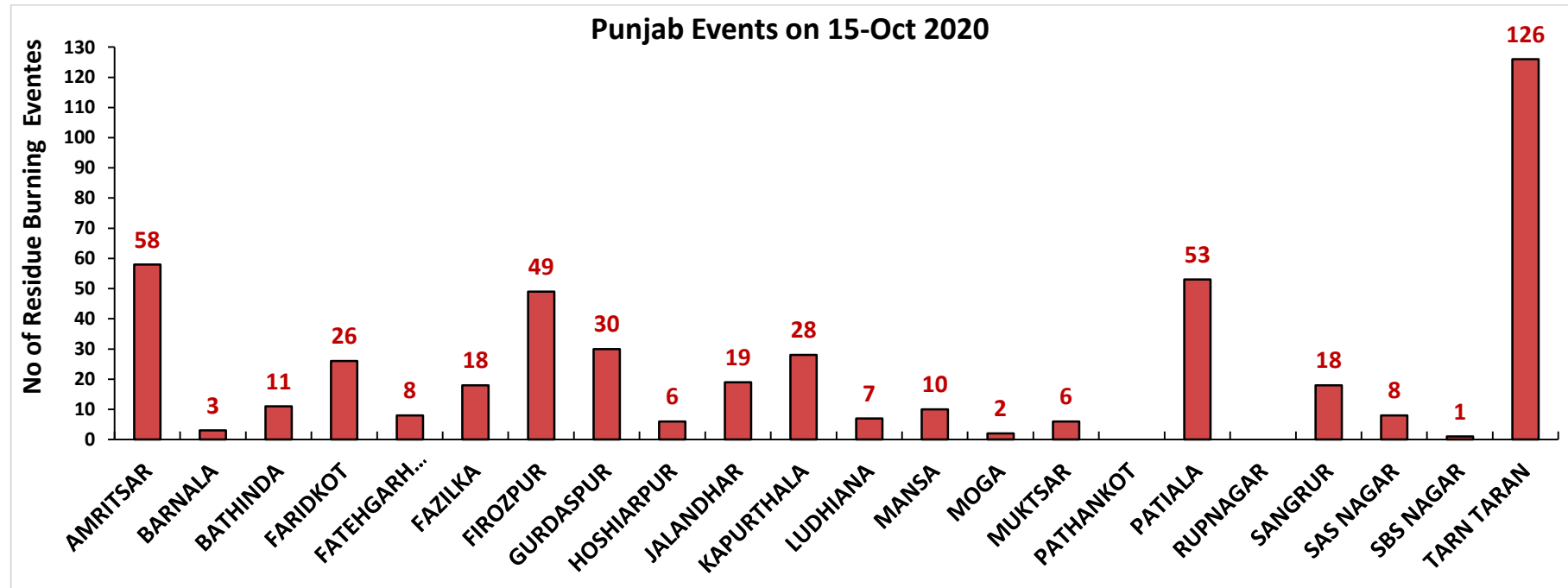




(a) Punjab

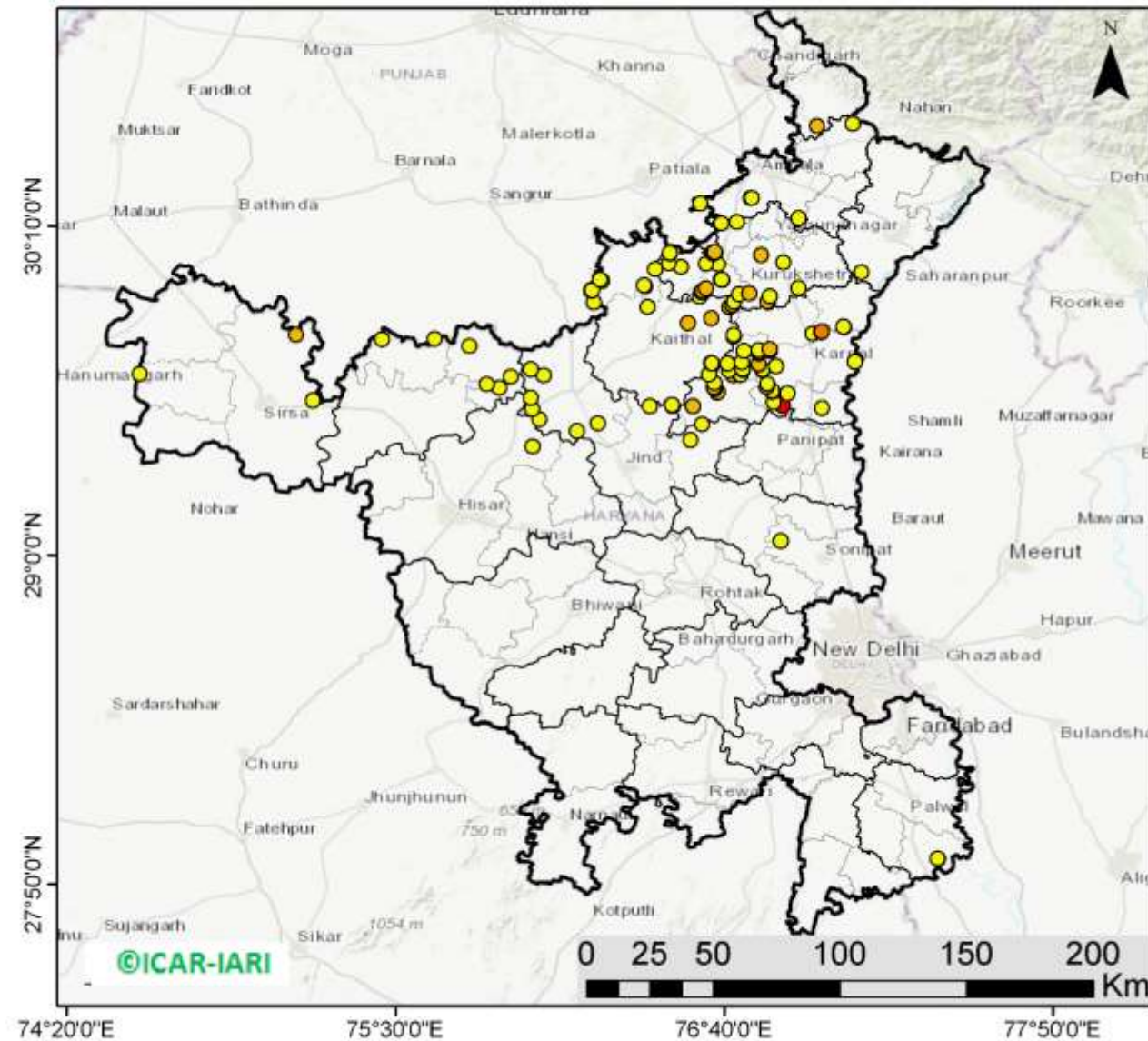


District-wise number of residue burning events in Punjab (01-15 Oct 2020)



(b) Haryana

RICE RESIDUE BURNING IN HARYANA



129 burning events detected in Haryana on 15th October 2020

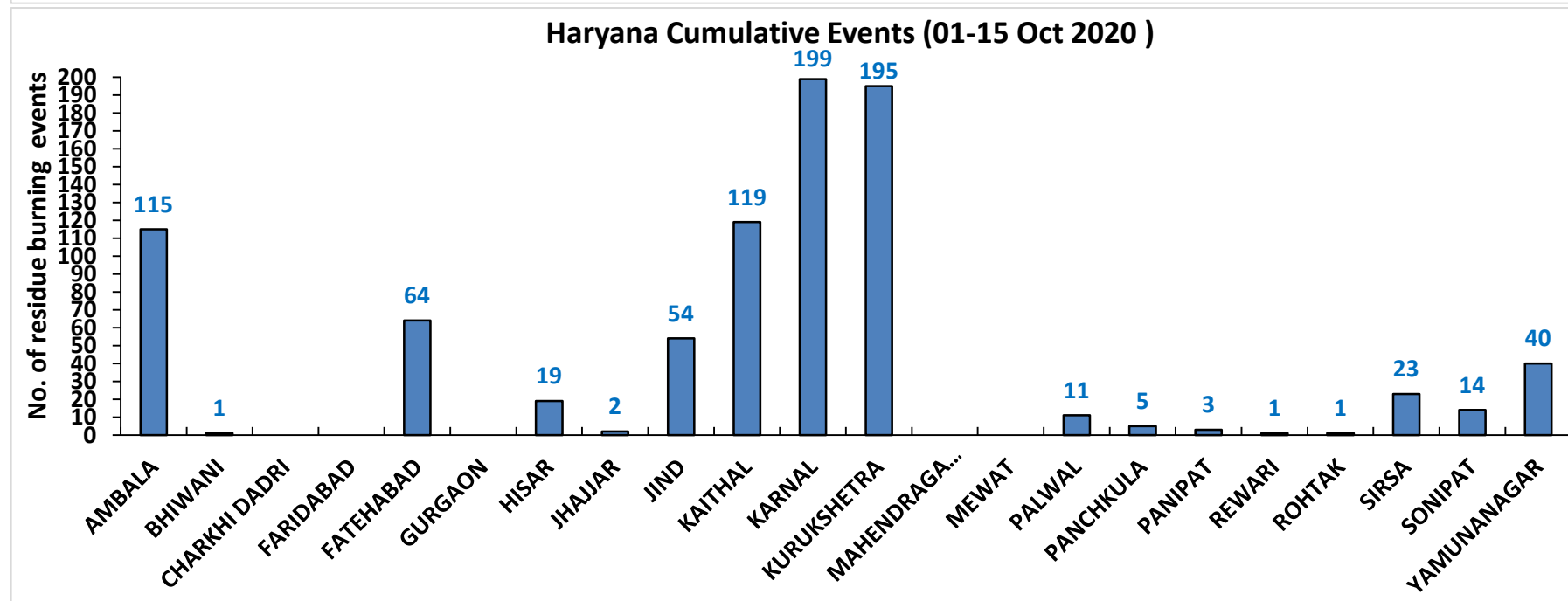
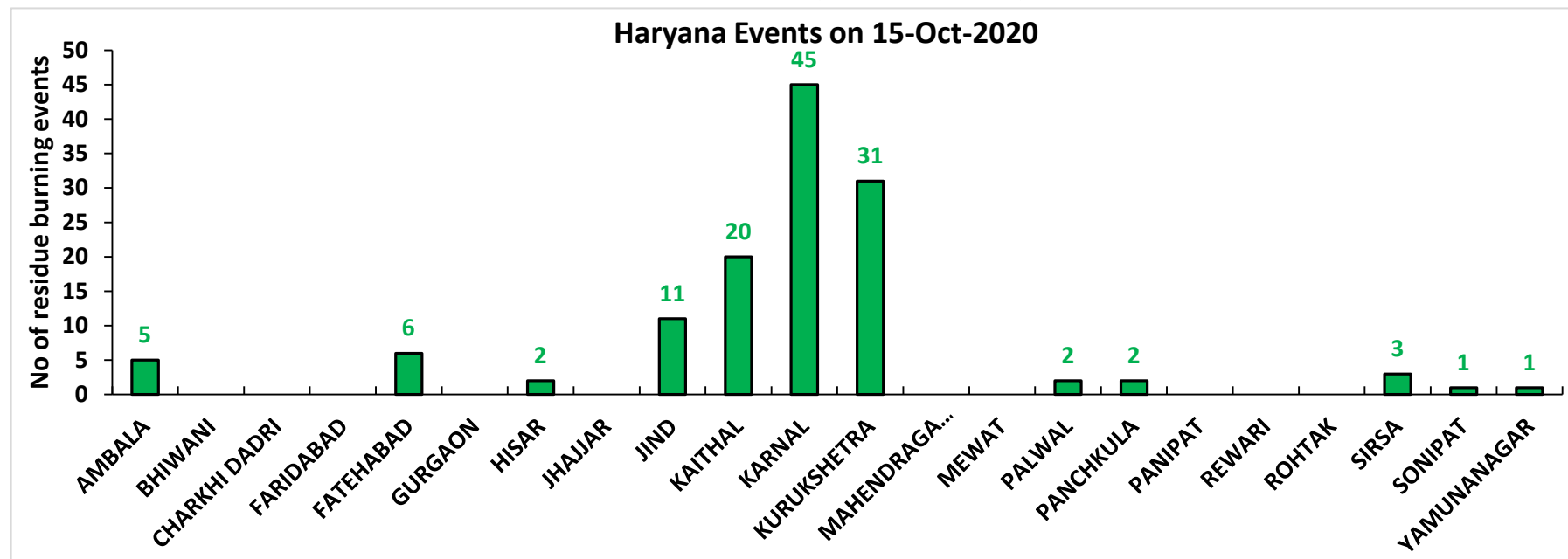
Fire Intensity (W/m²)

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



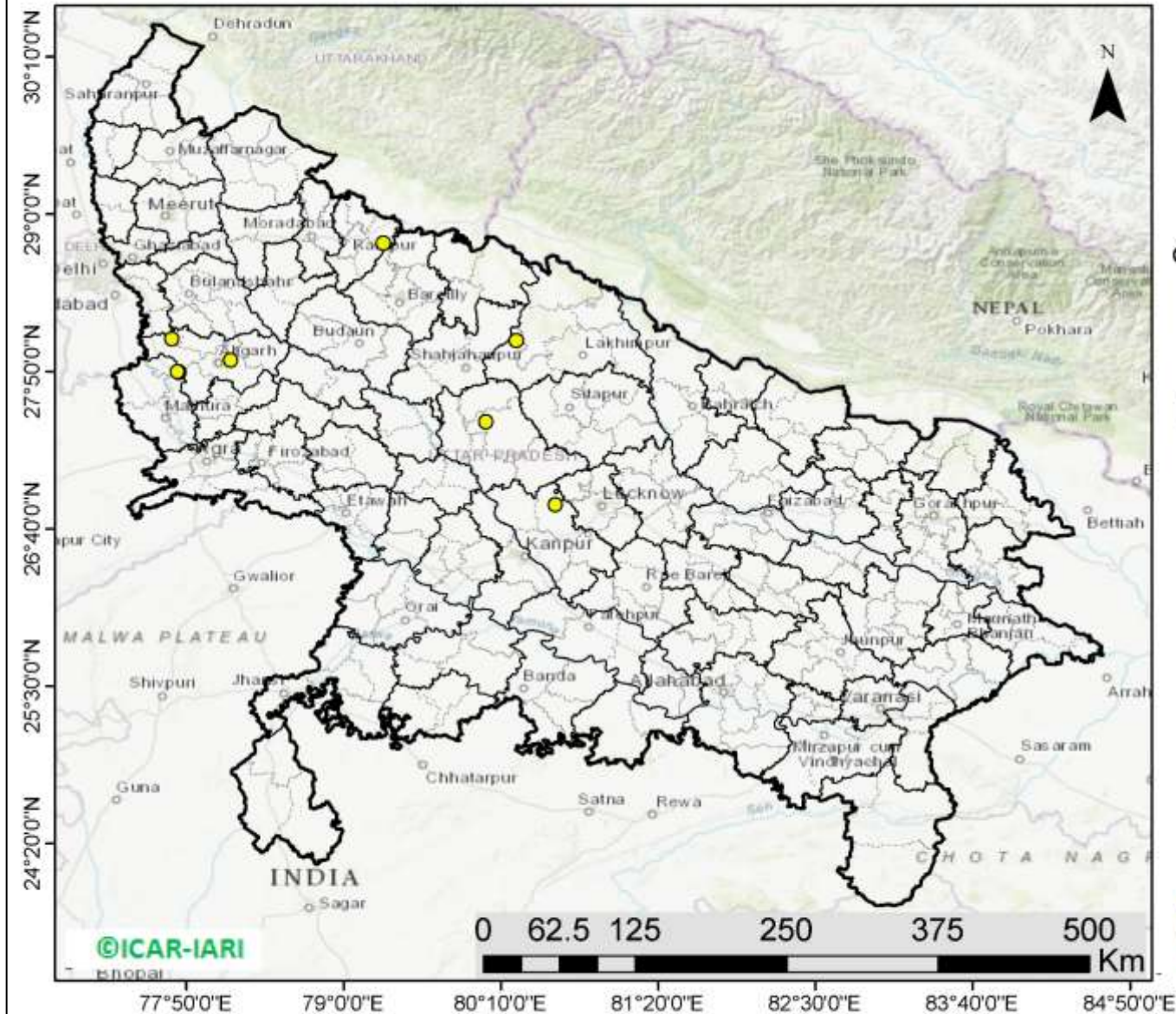
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise number of residue burning events in Haryana (01-15 Oct 2020)



(c) Uttar Pradesh

RICE RESIDUE BURNING IN UTTAR PRADESH



13 burning events detected in Uttar Pradesh on 15th October 2020

Fire Intensity (W/m²)

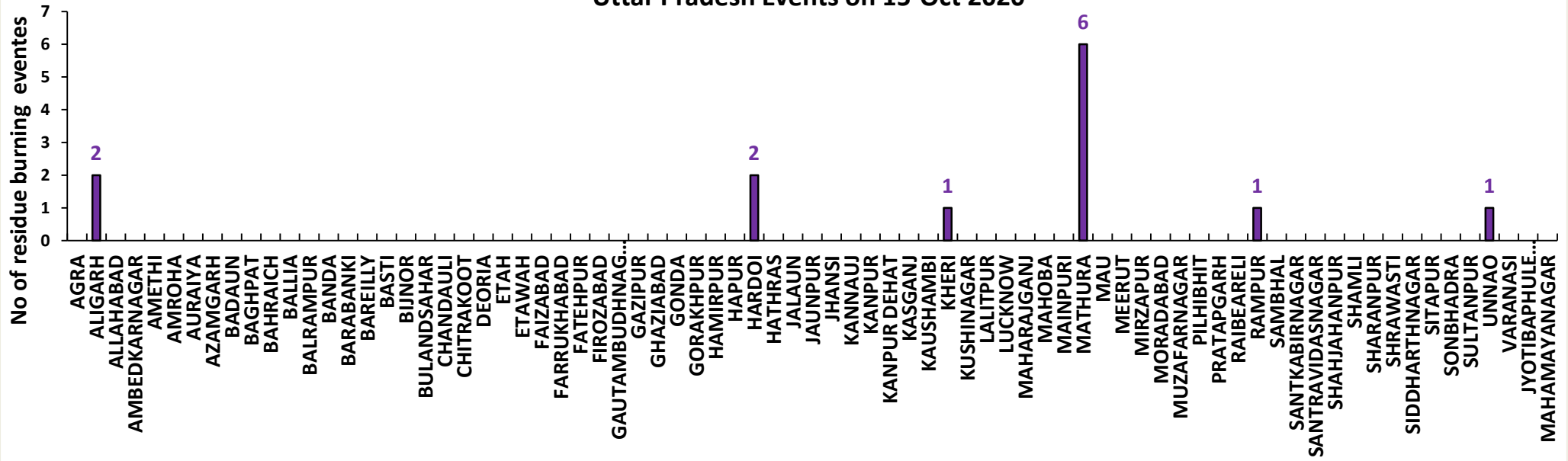
- 0 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- >20



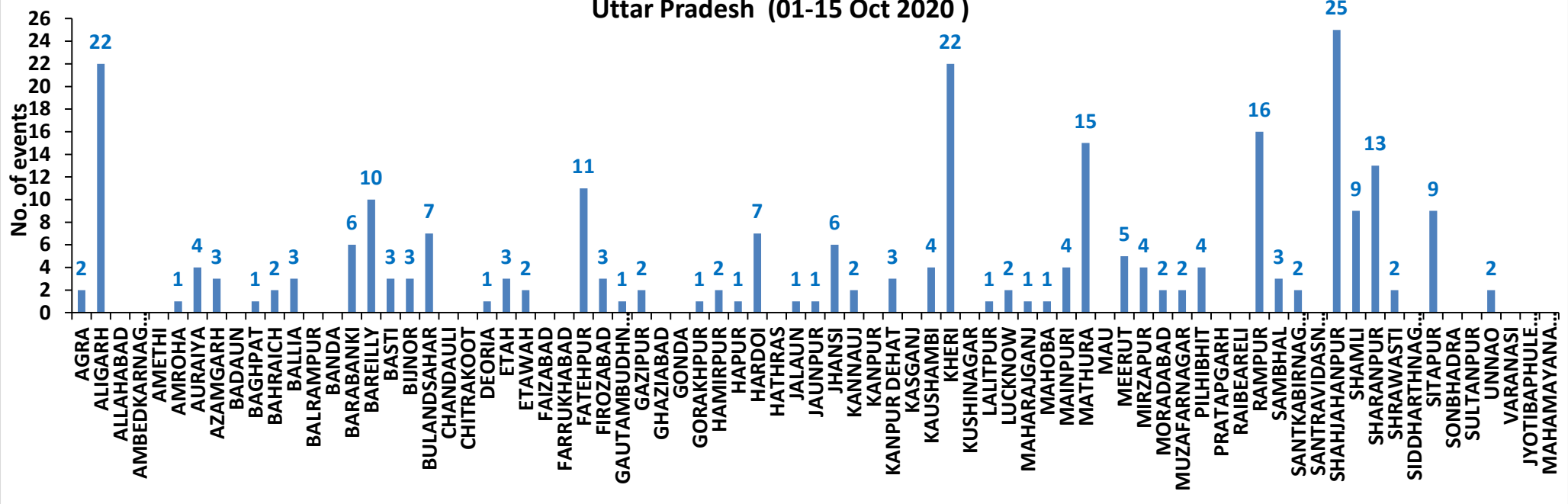
<http://geoportal.icar.gov.in:8080/geoexplorer/composer/>

District-wise number of residue burning events in Uttar Pradesh (01-15 Oct 2020)

Uttar Pradesh Events on 15-Oct 2020



Uttar Pradesh (01-15 Oct 2020)



State-wise and date-wise number of residue burning events detected in 2016, 2017, 2018, 2019 and 2020
(Period: 01-15 October)

Date	Punjab					Haryana					UP					Total				
	2020	2019	2018	2017	2016	2020	2019	2018	2017	2016	2020	2019	2018	2017	2016	2020	2019	2018	2017	2016
01-Oct	129	3	16	54	109	25	1	9	13	46	5	1	11	2	23	159	5	36	69	178
02-Oct	121	20	9	50	51	34	2	23	27	16	10	0	21	8	20	165	22	53	85	87
03-Oct	110	37	4	62	66	07	16	9	40	16	07	3	12	17	16	124	56	25	119	98
04-Oct	177	3	32	103	37	50	30	16	60	7	11	4	5	22	15	238	37	53	185	59
05-Oct	163	16	56	106	95	30	37	30	68	15	15	11	10	20	14	208	64	96	194	124
06-Oct	141	0	87	138	152	42	22	63	75	105	14	8	13	39	6	197	30	163	252	263
07-Oct	166	27	162	105	171	53	16	180	97	126	36	4	69	33	24	255	47	411	235	321
08-Oct	100	59	39	215	166	40	69	40	218	94	23	18	54	76	14	163	146	133	509	274
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
Total	3516	1118	864	3674	5554	866	1195	1075	2105	2322	262	334	447	999	758	4644	2647	2386	6778	8634

District-wise and date wise cumulative number of residue burning events detected in 2016, 2017, 2018, 2019 and 2020
(Period: 01-15 October)

(a) Punjab

Districts	01-15 Oct				
	2016	2017	2018	2019	2020
AMRITSAR	712	481	355	333	837
BARNALA	15	11	1	6	18
BATHINDA	288	231	15	8	58
FARIDKOT	411	512	21	29	108
FATEHGARH SAHIB	315	131	14	14	72
FAZILKA	0	0	0	24	82
FIROZPUR	517	423	60	57	244
GURDASPUR	237	99	31	43	238
HOSHIARPUR	35	14	3	8	34
JALANDHAR	360	147	4	51	88
KAPURTHALA	298	40	3	33	137
LUDHIANA	270	244	23	10	96
MANSA	37	62	9	23	53
MOGA	71	49	2	17	18
MUKTSAR	431	128	12	11	19
PATHANKOT	0	0	0	0	0
PATIALA	477	446	87	140	375
RUPNAGAR	59	5	0	1	13
SANGRUR	93	140	46	41	100
SAS NAGAR	38	41	26	14	44
SBS NAGAR	75	43	13	15	13
TARN TARAN	815	427	139	240	869
Total	5554	3674	864	1118	3516

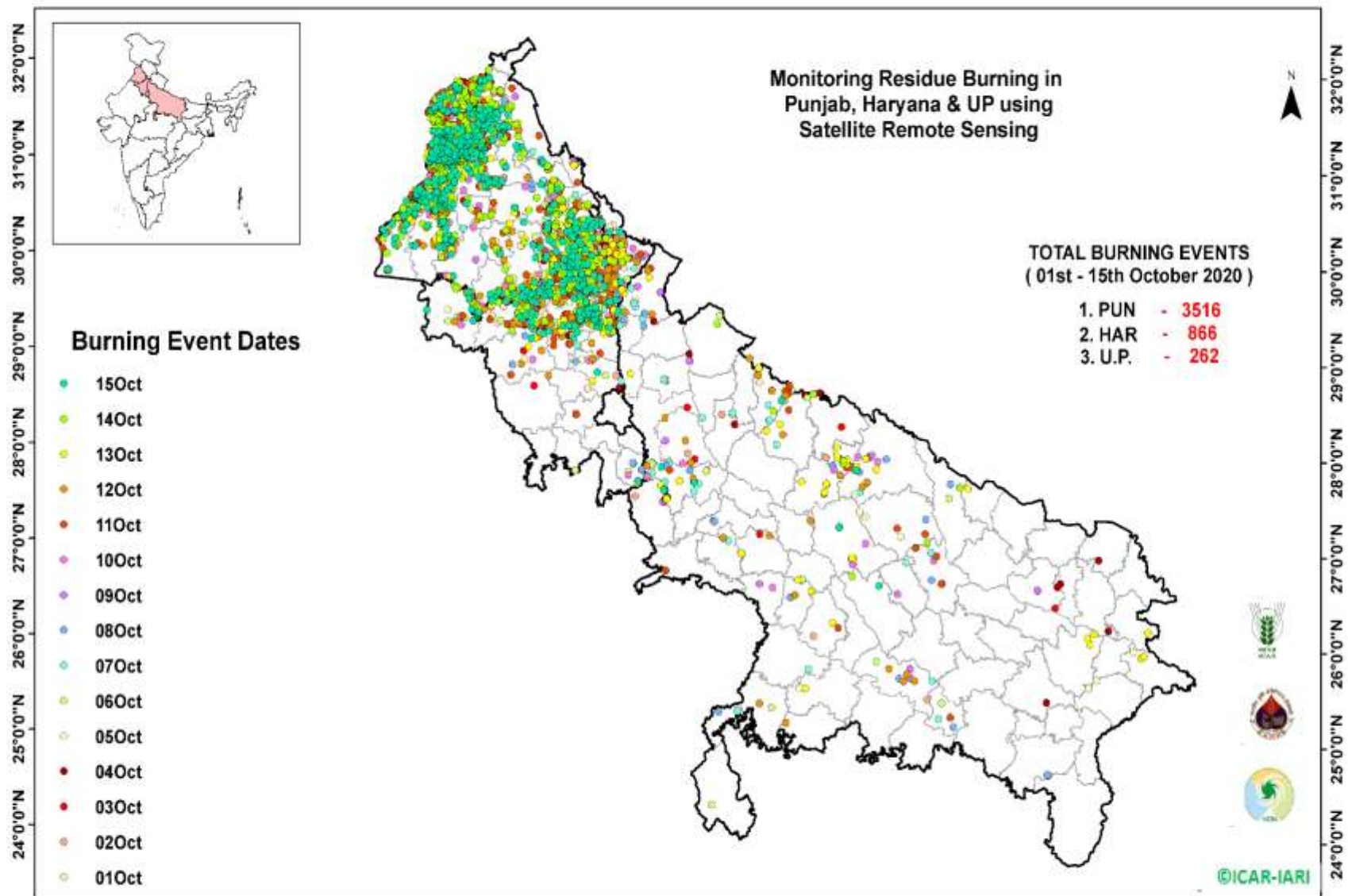
(b) Haryana

Districts	01-15 Oct				
	2016	2017	2018	2019	2020
AMBALA	142	150	42	46	115
BHIWANI	0	2	2	0	1
CHARKHI DADRI	0	0	0	0	0
FARIDABAD	6	32	33	1	0
FATEHABAD	91	89	44	75	64
GURGAON	0	0	0	0	0
HISAR	15	17	9	15	19
JHAJJAR	4	0	3	1	2
JIND	57	97	45	49	54
KAITHAL	627	441	247	294	119
KARNAL	793	682	353	364	199
KURUKSHETRA	480	471	224	264	195
MAHENDRAGARH	0	0	0	1	0
MEWAT	0	0	0	0	0
PALWAL	0	0	0	21	11
PANCHKULA	0	0	3	11	5
PANIPAT	17	31	31	6	3
REWARI	0	0	0	1	1
ROHTAK	1	1	0	0	1
SIRSA	43	17	8	12	23
SONIPAT	3	11	8	1	14
YAMUNANAGAR	43	64	23	33	40
Total	2322	2105	1075	1195	866

(C)
Uttar Pradesh

Districts	01-15 Oct																
	2016	2017	2018	2019	2020	GAUTAMBUDHNAGAR	1	3	2	0	1	MUZAFARNAGAR	18	41	11	5	2
AGRA	0	0	0	0	2	GAZIPUR	0	0	0	0	2	PILHIBHIT	141	187	61	84	4
ALIGARH	0	11	10	13	22	GHAZIABAD	6	2	2	2	0	PRATAPGARH	0	0	2	0	0
ALLAHABAD	0	0	3	0	0	GONDA	0	0	0	0	0	RAIBEARELI	0	0	0	0	0
AMBEDKARNAGAR	0	1	0	0	0	GORAKHPUR	0	2	4	0	1	RAMPUR	155	151	33	45	16
AMETHI	0	0	0	0	0	HAMIRPUR	0	0	1	0	2	SAMBHAL	0	0	0	1	3
AMROHA	0	0	0	0	1	HAPUR	0	0	0	2	1	SANTKABIRNAGAR	0	0	0	0	2
AURAIYA	39	37	14	0	4	HARDOI	5	8	2	0	7	SANTRAVIDASNAGAR	0	0	0	0	0
AZAMGARH	0	0	0	0	3	HATHRAS	0	0	0	0	0	SHAHJAHANPUR	215	309	82	43	25
BADAUN	0	1	0	0	0	JALAUN	0	0	0	0	1	SHAMLI	0	0	0	8	9
BAGHPAT	0	0	0	2	1	JAUNPUR	0	0	2	0	1	SHARANPUR	11	16	9	6	13
BAHRAICH	0	2	2	0	2	JHANSI	0	0	0	2	6	SHRAWASTI	0	2	0	0	2
BALLIA	0	0	0	1	3	KANNAUJ	0	0	1	0	2	SIDDHARTHANAGAR	1	0	0	0	0
BALRAMPUR	0	0	0	0	0	KANPUR	0	2	0	0	0	SITAPUR	12	6	4	2	9
BANDA	0	0	1	0	0	KANPUR DEHAT	0	1	0	0	3	SONBHADRA	3	1	4	0	0
BARABANKI	14	21	41	3	6	KASGANJ	0	0	0	0	0	SULTANPUR	0	0	0	0	0
BAREILLY	42	28	7	15	10	KAUSHAMBI	0	3	7	1	4	UNNAO	3	1	1	3	2
BASTI	0	0	0	0	3	KHERI	69	89	35	39	22	VARANASI	0	0	0	0	0
BIJNOR	1	0	1	0	3	KUSHINAGAR	0	1	0	0	0	JYOTIBAPHULE NAGAR	0	0	1	0	0
BULANDSAHAR	0	6	5	3	7	LALITPUR	0	0	0	0	1	MAHAMAYANAGAR	0	0	1	0	0
CHANDAULI	0	0	0	0	0	LUCKNOW	2	4	0	1	2	Total	758	999	447	334	262
CHITRAKOOT	0	0	0	0	0	MAHARAJGANJ	0	5	6	0	1						
DEORIA	0	0	0	0	1	MAHOBA	0	0	0	0	1						
ETAH	0	4	7	0	3	MAINPURI	0	3	4	3	4						
ETAWAH	0	3	1	0	2	MATHURA	9	29	72	39	15						
FAIZABAD	0	1	0	0	0	MAU	1	0	0	0	0						
FARRUKHABAD	0	0	0	1	0	MEERUT	6	6	0	4	5						
FATEHPUR	1	4	5	0	11	MIRZAPUR	0	1	1	3	4						
FIROZABAD	2	0	0	1	3	MORADABAD	1	7	2	2	2						

Map of Cumulative Burning Events (01-15 Oct 2020)



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

Details of residue burning events in Punjab on 15-Oct-2020

S. No.	District	Tehsil / Block	Satellite	Longitude	Latitude	Time (IST)	Day / Night	Fire Power (W/m ²)
1	AMRITSAR	AJNALA	S-NPP	74.77563	31.71036	12:30:00	D	8.40
2	AMRITSAR	AJNALA	S-NPP	74.77606	31.71305	12:30:00	D	6.80
3	AMRITSAR	AJNALA	S-NPP	74.56047	31.71424	14:06:00	D	7.30
4	AMRITSAR	AJNALA	S-NPP	74.56400	31.71727	14:06:00	D	5.80
5	AMRITSAR	AJNALA	S-NPP	74.71362	31.73915	14:06:00	D	7.20
6	AMRITSAR	AJNALA	S-NPP	74.59924	31.73973	14:06:00	D	10.80
7	AMRITSAR	AJNALA	S-NPP	74.59870	31.74459	14:06:00	D	10.80
8	AMRITSAR	AJNALA	S-NPP	74.60324	31.75742	12:30:00	D	6.10
9	AMRITSAR	AJNALA	S-NPP	74.67471	31.79150	12:30:00	D	3.80
10	AMRITSAR	AJNALA	S-NPP	74.66744	31.85617	14:06:00	D	8.80
11	AMRITSAR	AJNALA	S-NPP	74.84099	31.86514	14:06:00	D	3.80
12	AMRITSAR	AJNALA	S-NPP	74.71616	31.87990	14:06:00	D	2.80
13	AMRITSAR	AJNALA	S-NPP	74.89167	31.93954	14:06:00	D	4.40
14	AMRITSAR	AJNALA	S-NPP	74.92518	31.94195	14:06:00	D	5.10
15	AMRITSAR	AJNALA	S-NPP	74.92453	31.94205	14:06:00	D	8.90
16	AMRITSAR	AJNALA	S-NPP	74.92467	31.94692	14:06:00	D	5.10
17	AMRITSAR	AJNALA	S-NPP	74.92400	31.94702	14:06:00	D	7.60
18	AMRITSAR	AJNALA	S-NPP	74.92262	31.96680	14:06:00	D	5.10
19	AMRITSAR	AJNALA	S-NPP	74.92190	31.96690	14:06:00	D	3.60
20	AMRITSAR	AJNALA	S-NPP	74.86678	31.98759	14:06:00	D	3.40
21	AMRITSAR	AJNALA	S-NPP	74.87332	31.98811	14:06:00	D	3.40
22	AMRITSAR	AMRITSAR I	S-NPP	74.97834	31.54860	14:06:00	D	4.10
23	AMRITSAR	AMRITSAR I	S-NPP	75.08286	31.67805	14:06:00	D	6.90
24	AMRITSAR	AMRITSAR I	S-NPP	75.12086	31.70126	14:06:00	D	5.40
25	AMRITSAR	AMRITSAR I	S-NPP	75.07974	31.70808	14:06:00	D	15.60
26	AMRITSAR	AMRITSAR I	S-NPP	74.91580	31.73020	14:06:00	D	3.00
27	AMRITSAR	AMRITSAR I	S-NPP	75.06757	31.74181	14:06:00	D	3.80
28	AMRITSAR	AMRITSAR I	S-NPP	75.07161	31.76734	14:06:00	D	2.90
29	AMRITSAR	AMRITSAR I	S-NPP	75.07354	31.76814	14:06:00	D	2.80
30	AMRITSAR	AMRITSAR I	S-NPP	75.06657	31.77558	12:30:00	D	4.20

31	AMRITSAR	AMRITSAR II	S-NPP	74.61063	31.50686	14:06:00	D	4.40
32	AMRITSAR	AMRITSAR II	S-NPP	74.91213	31.54867	14:06:00	D	5.20
33	AMRITSAR	AMRITSAR II	S-NPP	74.87585	31.73282	12:30:00	D	4.20
34	AMRITSAR	AMRITSAR II	S-NPP	74.87666	31.73500	12:30:00	D	4.80
35	AMRITSAR	BABA BAKALA	S-NPP	75.16836	31.53746	12:30:00	D	2.90
36	AMRITSAR	BABA BAKALA	S-NPP	75.29237	31.55465	14:06:00	D	15.20
37	AMRITSAR	BABA BAKALA	S-NPP	75.28842	31.55767	14:06:00	D	6.80
38	AMRITSAR	BABA BAKALA	S-NPP	75.29184	31.55793	14:06:00	D	17.60
39	AMRITSAR	BABA BAKALA	S-NPP	75.31237	31.56140	14:06:00	D	1.30
40	AMRITSAR	BABA BAKALA	S-NPP	75.12769	31.58081	14:06:00	D	4.90
41	AMRITSAR	BABA BAKALA	S-NPP	75.27452	31.59230	14:06:00	D	3.60
42	AMRITSAR	BABA BAKALA	S-NPP	75.19898	31.61179	14:06:00	D	6.30
43	AMRITSAR	BABA BAKALA	S-NPP	75.20573	31.61233	14:06:00	D	9.70
44	AMRITSAR	BABA BAKALA	S-NPP	75.34347	31.62835	14:06:00	D	3.40
45	AMRITSAR	BABA BAKALA	S-NPP	75.25148	31.64831	01:06:00	N	2.30
46	AMRITSAR	BABA BAKALA	S-NPP	75.25916	31.65069	02:48:00	N	10.40
47	AMRITSAR	BABA BAKALA	S-NPP	75.25562	31.65074	14:06:00	D	6.30
48	AMRITSAR	BABA BAKALA	S-NPP	75.25641	31.65202	14:06:00	D	12.20
49	AMRITSAR	BABA BAKALA	S-NPP	75.25293	31.65215	02:48:00	N	10.40
50	AMRITSAR	BABA BAKALA	S-NPP	75.25872	31.65299	12:30:00	D	6.70
51	AMRITSAR	BABA BAKALA	TERRA	75.26200	31.65300	11:05:00	D	23.90
52	AMRITSAR	BABA BAKALA	S-NPP	75.26027	31.65529	01:06:00	N	2.30
53	AMRITSAR	BABA BAKALA	S-NPP	75.25186	31.65554	01:06:00	N	2.30
54	AMRITSAR	BABA BAKALA	S-NPP	75.26259	31.66655	14:06:00	D	1.70
55	AMRITSAR	BABA BAKALA	S-NPP	75.12756	31.70180	14:06:00	D	5.40
56	AMRITSAR	BABA BAKALA	S-NPP	75.18622	31.72080	12:30:00	D	7.10
57	AMRITSAR	BABA BAKALA	S-NPP	75.17989	31.72117	14:06:00	D	4.30
58	AMRITSAR	BABA BAKALA	S-NPP	75.18436	31.72134	12:30:00	D	6.00
59	BARNALA	TAPPA	S-NPP	75.53502	30.26093	14:06:00	D	4.50
60	BARNALA	TAPPA	S-NPP	75.53840	30.26120	14:06:00	D	4.50
61	BARNALA	TAPPA	S-NPP	75.32031	30.32347	14:06:00	D	4.70
62	BATHINDA	BATHINDA	S-NPP	74.88409	30.23069	14:06:00	D	4.20
63	BATHINDA	BATHINDA	S-NPP	74.78305	30.30421	12:24:00	D	8.30

64	BATHINDA	BATHINDA	S-NPP	74.78143	30.30650	12:24:00	D	6.00
65	BATHINDA	BATHINDA	S-NPP	74.88030	30.35563	12:24:00	D	4.50
66	BATHINDA	BATHINDA	S-NPP	74.83695	30.35671	14:06:00	D	8.60
67	BATHINDA	BATHINDA	S-NPP	74.83491	30.35972	14:06:00	D	7.90
68	BATHINDA	BATHINDA	S-NPP	74.89548	30.37457	14:06:00	D	4.10
69	BATHINDA	BATHINDA	S-NPP	74.89693	30.37684	14:06:00	D	14.80
70	BATHINDA	BATHINDA	S-NPP	74.89494	30.37945	14:06:00	D	10.80
71	BATHINDA	TALWANDI SABO	S-NPP	75.13718	29.84563	14:06:00	D	6.30
72	BATHINDA	TALWANDI SABO	S-NPP	74.92982	30.00809	14:06:00	D	18.70
73	FARIDKOT	FARIDKOT	S-NPP	74.80383	30.50674	14:06:00	D	3.60
74	FARIDKOT	FARIDKOT	S-NPP	74.74348	30.55040	14:06:00	D	5.40
75	FARIDKOT	FARIDKOT	S-NPP	74.74263	30.55360	14:06:00	D	9.70
76	FARIDKOT	FARIDKOT	S-NPP	74.74296	30.55524	14:06:00	D	5.40
77	FARIDKOT	FARIDKOT	S-NPP	74.77245	30.56766	14:06:00	D	5.50
78	FARIDKOT	FARIDKOT	S-NPP	74.77162	30.57067	14:06:00	D	1.90
79	FARIDKOT	FARIDKOT	S-NPP	74.65350	30.67105	14:06:00	D	10.70
80	FARIDKOT	FARIDKOT	S-NPP	74.65598	30.67287	14:06:00	D	10.90
81	FARIDKOT	FARIDKOT	S-NPP	74.65794	30.68603	14:06:00	D	5.70
82	FARIDKOT	FARIDKOT	S-NPP	74.55202	30.71310	12:30:00	D	5.00
83	FARIDKOT	FARIDKOT	S-NPP	74.87163	30.71875	14:06:00	D	70.30
84	FARIDKOT	FARIDKOT	S-NPP	74.75186	30.72823	14:06:00	D	5.40
85	FARIDKOT	FARIDKOT	AQUA	74.78700	30.74900	14:15:00	D	53.00
86	FARIDKOT	FARIDKOT	S-NPP	74.72500	30.75680	12:30:00	D	8.60
87	FARIDKOT	FARIDKOT	S-NPP	74.76508	30.76172	14:06:00	D	4.20
88	FARIDKOT	FARIDKOT	S-NPP	74.72233	30.76372	12:30:00	D	13.30
89	FARIDKOT	FARIDKOT	S-NPP	74.73937	30.78590	14:06:00	D	6.60
90	FARIDKOT	FARIDKOT	TERRA	74.75200	30.78800	11:05:00	D	13.10
91	FARIDKOT	FARIDKOT	S-NPP	74.73721	30.78883	14:06:00	D	33.60
92	FARIDKOT	FARIDKOT	TERRA	74.73800	30.79000	11:05:00	D	24.00
93	FARIDKOT	FARIDKOT	TERRA	74.74000	30.80000	11:05:00	D	9.30
94	FARIDKOT	FARIDKOT	S-NPP	74.64950	30.80098	14:06:00	D	9.50
95	FARIDKOT	FARIDKOT	S-NPP	74.77934	30.80214	14:06:00	D	72.20
96	FARIDKOT	JAITO	S-NPP	74.81677	30.41209	14:06:00	D	4.10

97	FARIDKOT	JAITO	S-NPP	74.84114	30.43236	12:24:00	D	8.90
98	FARIDKOT	JAITO	S-NPP	74.83907	30.43419	12:24:00	D	4.80
99	FATEHGARH SAHIB	ALMOH	S-NPP	76.17270	30.58075	14:06:00	D	2.10
100	FATEHGARH SAHIB	ALMOH	S-NPP	76.17081	30.58461	14:06:00	D	3.50
101	FATEHGARH SAHIB	BASSI PATHANAN	S-NPP	76.48964	30.67259	14:06:00	D	5.60
102	FATEHGARH SAHIB	BASSI PATHANAN	S-NPP	76.46814	30.69266	14:06:00	D	3.10
103	FATEHGARH SAHIB	FATEHGARH SAHIB	S-NPP	76.46316	30.47188	12:24:00	D	9.70
104	FATEHGARH SAHIB	FATEHGARH SAHIB	S-NPP	76.46970	30.47368	12:24:00	D	10.80
105	FATEHGARH SAHIB	FATEHGARH SAHIB	S-NPP	76.42773	30.50903	14:06:00	D	1.40
106	FATEHGARH SAHIB	FATEHGARH SAHIB	S-NPP	76.46598	30.51719	14:06:00	D	6.70
107	FAZILKA	ABOHAR	S-NPP	74.05554	30.04394	14:06:00	D	7.20
108	FAZILKA	ABOHAR	S-NPP	74.05499	30.04855	14:06:00	D	7.20
109	FAZILKA	FAZILKA	S-NPP	74.12675	30.31773	14:06:00	D	6.40
110	FAZILKA	FAZILKA	S-NPP	74.13642	30.37971	14:06:00	D	6.60
111	FAZILKA	FAZILKA	S-NPP	74.00556	30.42196	14:06:00	D	38.50
112	FAZILKA	FAZILKA	S-NPP	73.97334	30.46097	14:06:00	D	4.80
113	FAZILKA	FAZILKA	S-NPP	74.08814	30.51675	14:06:00	D	9.50
114	FAZILKA	JALALABAD	S-NPP	74.25434	30.46329	14:06:00	D	3.10
115	FAZILKA	JALALABAD	S-NPP	74.28153	30.52748	14:06:00	D	11.80
116	FAZILKA	JALALABAD	S-NPP	74.28044	30.52891	14:06:00	D	13.60
117	FAZILKA	JALALABAD	S-NPP	74.24217	30.61093	14:06:00	D	5.10
118	FAZILKA	JALALABAD	S-NPP	74.23912	30.61189	14:06:00	D	6.90
119	FAZILKA	JALALABAD	S-NPP	74.38155	30.63837	14:06:00	D	9.40
120	FAZILKA	JALALABAD	S-NPP	74.38442	30.63837	14:06:00	D	17.70
121	FAZILKA	JALALABAD	S-NPP	74.38739	30.63887	14:06:00	D	12.40
122	FAZILKA	JALALABAD	S-NPP	74.31346	30.67067	14:06:00	D	4.40
123	FAZILKA	JALALABAD	S-NPP	74.42020	30.71365	14:06:00	D	3.90
124	FAZILKA	JALALABAD	S-NPP	74.26524	30.76773	14:06:00	D	33.10
125	FIROZPUR	FIROZPUR	S-NPP	74.89927	30.75566	14:06:00	D	4.30
126	FIROZPUR	FIROZPUR	S-NPP	74.49490	30.77327	14:06:00	D	14.30
127	FIROZPUR	FIROZPUR	TERRA	74.52100	30.77500	11:05:00	D	7.40
128	FIROZPUR	FIROZPUR	S-NPP	74.39612	30.80318	14:06:00	D	7.10
129	FIROZPUR	FIROZPUR	S-NPP	74.40199	30.80370	14:06:00	D	7.10

130	FIROZPUR	FIROZPUR	S-NPP	74.40145	30.80845	14:06:00	D	7.40
131	FIROZPUR	FIROZPUR	S-NPP	74.41321	30.80949	14:06:00	D	16.20
132	FIROZPUR	FIROZPUR	S-NPP	74.41909	30.81001	14:06:00	D	6.10
133	FIROZPUR	FIROZPUR	S-NPP	74.45449	30.81314	14:06:00	D	16.00
134	FIROZPUR	FIROZPUR	S-NPP	74.77104	30.82108	14:06:00	D	3.00
135	FIROZPUR	FIROZPUR	S-NPP	74.47962	30.82502	12:30:00	D	7.80
136	FIROZPUR	FIROZPUR	S-NPP	74.59788	30.82572	14:06:00	D	3.50
137	FIROZPUR	FIROZPUR	S-NPP	74.57324	30.82842	14:06:00	D	37.30
138	FIROZPUR	FIROZPUR	S-NPP	74.41695	30.82904	14:06:00	D	5.10
139	FIROZPUR	FIROZPUR	S-NPP	74.39824	30.83697	14:06:00	D	7.10
140	FIROZPUR	FIROZPUR	S-NPP	74.40140	30.83733	14:06:00	D	13.10
141	FIROZPUR	FIROZPUR	S-NPP	74.40411	30.83749	14:06:00	D	16.30
142	FIROZPUR	FIROZPUR	S-NPP	74.39771	30.84172	14:06:00	D	7.10
143	FIROZPUR	FIROZPUR	S-NPP	74.40086	30.84208	14:06:00	D	13.10
144	FIROZPUR	FIROZPUR	S-NPP	74.51249	30.86108	14:06:00	D	4.70
145	FIROZPUR	FIROZPUR	S-NPP	74.48239	30.86475	12:30:00	D	6.40
146	FIROZPUR	FIROZPUR	S-NPP	74.48160	30.86682	12:30:00	D	7.30
147	FIROZPUR	FIROZPUR	S-NPP	74.76523	30.87457	14:06:00	D	6.90
148	FIROZPUR	FIROZPUR	S-NPP	74.67577	30.87464	14:06:00	D	5.70
149	FIROZPUR	FIROZPUR	S-NPP	74.40833	30.88115	14:06:00	D	5.40
150	FIROZPUR	FIROZPUR	S-NPP	74.44061	30.90126	12:30:00	D	5.60
151	FIROZPUR	FIROZPUR	S-NPP	74.81522	30.91067	14:06:00	D	14.10
152	FIROZPUR	FIROZPUR	S-NPP	74.81469	30.91555	14:06:00	D	14.10
153	FIROZPUR	FIROZPUR	S-NPP	74.64890	30.95045	14:06:00	D	15.00
154	FIROZPUR	FIROZPUR	S-NPP	74.54181	30.97460	14:06:00	D	4.20
155	FIROZPUR	FIROZPUR	S-NPP	74.71879	30.98924	14:06:00	D	5.30
156	FIROZPUR	FIROZPUR	S-NPP	74.71884	30.99085	14:06:00	D	7.70
157	FIROZPUR	FIROZPUR	TERRA	74.64400	31.00400	11:05:00	D	8.80
158	FIROZPUR	FIROZPUR	S-NPP	74.74763	31.01125	14:06:00	D	4.00
159	FIROZPUR	FIROZPUR	S-NPP	74.74090	31.01560	14:06:00	D	10.80
160	FIROZPUR	ZIRA	S-NPP	74.86271	30.93929	14:06:00	D	10.70
161	FIROZPUR	ZIRA	S-NPP	75.31382	30.94590	14:06:00	D	2.40
162	FIROZPUR	ZIRA	S-NPP	75.31225	30.96100	14:06:00	D	10.70

163	FIROZPUR	ZIRA	S-NPP	74.89583	30.98664	14:06:00	D	9.70
164	FIROZPUR	ZIRA	S-NPP	74.90215	30.98719	14:06:00	D	9.70
165	FIROZPUR	ZIRA	S-NPP	74.89558	30.98877	14:06:00	D	16.50
166	FIROZPUR	ZIRA	S-NPP	74.90192	30.98927	14:06:00	D	24.50
167	FIROZPUR	ZIRA	S-NPP	74.90163	30.99210	14:06:00	D	9.70
168	FIROZPUR	ZIRA	S-NPP	74.84505	31.04399	14:06:00	D	7.60
169	FIROZPUR	ZIRA	S-NPP	74.94492	31.06723	14:06:00	D	6.80
170	FIROZPUR	ZIRA	S-NPP	75.11206	31.09118	14:06:00	D	4.00
171	FIROZPUR	ZIRA	S-NPP	74.88748	31.10367	14:06:00	D	10.80
172	FIROZPUR	ZIRA	S-NPP	75.07214	31.13837	14:06:00	D	6.60
173	FIROZPUR	ZIRA	S-NPP	75.07160	31.14334	14:06:00	D	15.30
174	GURDASPUR	BATALA	S-NPP	75.39971	31.65847	14:06:00	D	6.80
175	GURDASPUR	BATALA	S-NPP	75.38369	31.66079	12:30:00	D	3.60
176	GURDASPUR	BATALA	S-NPP	75.43806	31.66154	14:06:00	D	2.90
177	GURDASPUR	BATALA	S-NPP	75.44157	31.66182	14:06:00	D	3.70
178	GURDASPUR	BATALA	S-NPP	75.32623	31.68670	14:06:00	D	1.50
179	GURDASPUR	BATALA	S-NPP	75.23049	31.68942	12:30:00	D	7.00
180	GURDASPUR	BATALA	S-NPP	75.33850	31.70299	14:06:00	D	4.50
181	GURDASPUR	BATALA	S-NPP	75.38702	31.70671	14:06:00	D	3.10
182	GURDASPUR	BATALA	S-NPP	75.39991	31.71798	14:06:00	D	4.50
183	GURDASPUR	BATALA	METOP-2	75.31768	31.71824	21:04:00	N	6.00
184	GURDASPUR	BATALA	S-NPP	75.44890	31.72174	14:06:00	D	2.20
185	GURDASPUR	BATALA	S-NPP	75.33988	31.72360	14:06:00	D	2.70
186	GURDASPUR	BATALA	S-NPP	75.30041	31.73585	14:06:00	D	2.10
187	GURDASPUR	BATALA	S-NPP	75.28272	31.73955	14:06:00	D	4.50
188	GURDASPUR	BATALA	S-NPP	75.28616	31.73983	14:06:00	D	9.30
189	GURDASPUR	BATALA	S-NPP	75.20904	31.75246	14:06:00	D	3.10
190	GURDASPUR	BATALA	S-NPP	75.21069	31.75414	14:06:00	D	4.60
191	GURDASPUR	BATALA	S-NPP	75.33975	31.75946	14:06:00	D	2.40
192	GURDASPUR	BATALA	S-NPP	75.50123	31.76713	14:06:00	D	5.00
193	GURDASPUR	BATALA	S-NPP	75.50477	31.76740	14:06:00	D	5.00
194	GURDASPUR	GURDASPUR	S-NPP	75.17749	31.91828	12:30:00	D	4.00
195	GURDASPUR	GURDASPUR	S-NPP	75.20681	31.97855	14:06:00	D	2.60

196	GURDASPUR	GURDASPUR	S-NPP	75.20013	32.04432	14:06:00	D	3.50
197	GURDASPUR	GURDASPUR	S-NPP	75.20357	32.04459	14:06:00	D	5.10
198	GURDASPUR	GURDASPUR	S-NPP	75.20795	32.05338	12:30:00	D	8.70
199	GURDASPUR	GURDASPUR	S-NPP	75.20998	32.05354	12:30:00	D	11.10
200	GURDASPUR	GURDASPUR	S-NPP	75.21498	32.05547	12:30:00	D	8.70
201	GURDASPUR	GURDASPUR	S-NPP	75.27496	32.06044	14:06:00	D	0.80
202	GURDASPUR	GURDASPUR	S-NPP	75.33152	32.08344	14:06:00	D	1.90
203	GURDASPUR	GURDASPUR	S-NPP	75.33211	32.08550	14:06:00	D	2.30
204	HOSHIARPUR	DASUYA	S-NPP	75.59724	31.70700	14:06:00	D	6.20
205	HOSHIARPUR	GARHSHANKAR	S-NPP	76.05898	31.22923	14:06:00	D	3.40
206	HOSHIARPUR	GARHSHANKAR	S-NPP	76.07388	31.23013	12:30:00	D	3.80
207	HOSHIARPUR	GARHSHANKAR	S-NPP	76.05848	31.23451	14:06:00	D	3.40
208	HOSHIARPUR	GARHSHANKAR	S-NPP	76.06017	31.25591	14:06:00	D	9.10
209	HOSHIARPUR	HOSHIARPUR	S-NPP	75.78417	31.37762	14:06:00	D	1.90
210	JALANDHAR	JALANDHAR I	S-NPP	75.74244	31.35851	02:48:00	N	0.90
211	JALANDHAR	JALANDHAR I	S-NPP	75.71764	31.38804	14:06:00	D	2.10
212	JALANDHAR	JALANDHAR II	S-NPP	75.59889	31.58458	14:06:00	D	11.60
213	JALANDHAR	JALANDHAR II	S-NPP	75.59531	31.58565	14:06:00	D	5.10
214	JALANDHAR	NAKODAR	S-NPP	75.48608	30.98496	14:06:00	D	1.70
215	JALANDHAR	NAKODAR	S-NPP	75.48951	30.98523	14:06:00	D	1.70
216	JALANDHAR	NAKODAR	S-NPP	75.45747	31.02880	14:06:00	D	3.60
217	JALANDHAR	NAKODAR	S-NPP	75.57575	31.16206	14:06:00	D	2.10
218	JALANDHAR	NAKODAR	S-NPP	75.58276	31.16258	14:06:00	D	5.70
219	JALANDHAR	NAKODAR	S-NPP	75.58408	31.16575	14:06:00	D	6.70
220	JALANDHAR	PHILLAUR	S-NPP	75.53178	31.01427	14:06:00	D	3.50
221	JALANDHAR	PHILLAUR	S-NPP	75.53525	31.01455	14:06:00	D	3.50
222	JALANDHAR	SHAHKOT	S-NPP	75.40199	30.99873	14:06:00	D	1.40
223	JALANDHAR	SHAHKOT	S-NPP	75.36250	31.00063	14:06:00	D	3.10
224	JALANDHAR	SHAHKOT	S-NPP	75.23044	31.04029	14:06:00	D	7.70
225	JALANDHAR	SHAHKOT	S-NPP	75.23015	31.04036	14:06:00	D	12.20
226	JALANDHAR	SHAHKOT	S-NPP	75.31746	31.04269	14:06:00	D	5.80
227	JALANDHAR	SHAHKOT	S-NPP	75.26991	31.04845	14:06:00	D	6.30
228	JALANDHAR	SHAHKOT	S-NPP	75.21610	31.04926	14:06:00	D	9.00

229	KAPURTHALA	BHOLATH	S-NPP	75.49439	31.48846	14:06:00	D	6.20
230	KAPURTHALA	BHOLATH	S-NPP	75.49791	31.48873	14:06:00	D	6.20
231	KAPURTHALA	BHOLATH	S-NPP	75.56435	31.57300	14:06:00	D	12.30
232	KAPURTHALA	BHOLATH	S-NPP	75.55598	31.57547	12:30:00	D	9.80
233	KAPURTHALA	BHOLATH	TERRA	75.55800	31.57600	11:05:00	D	18.10
234	KAPURTHALA	BHOLATH	S-NPP	75.56387	31.57660	14:06:00	D	4.50
235	KAPURTHALA	BHOLATH	S-NPP	75.56741	31.57688	14:06:00	D	4.50
236	KAPURTHALA	BHOLATH	S-NPP	75.47102	31.58163	14:06:00	D	1.60
237	KAPURTHALA	BHOLATH	S-NPP	75.59888	31.58591	14:06:00	D	10.40
238	KAPURTHALA	BHOLATH	S-NPP	75.59483	31.58945	14:06:00	D	9.70
239	KAPURTHALA	BHOLATH	S-NPP	75.54456	31.59227	14:06:00	D	4.00
240	KAPURTHALA	KAPURTHALA	S-NPP	75.29076	31.33147	14:06:00	D	5.60
241	KAPURTHALA	KAPURTHALA	S-NPP	75.29234	31.33299	14:06:00	D	4.40
242	KAPURTHALA	KAPURTHALA	S-NPP	75.28136	31.35619	14:06:00	D	4.90
243	KAPURTHALA	KAPURTHALA	S-NPP	75.28303	31.35767	14:06:00	D	9.70
244	KAPURTHALA	KAPURTHALA	S-NPP	75.25391	31.36290	12:30:00	D	6.10
245	KAPURTHALA	KAPURTHALA	S-NPP	75.23871	31.37321	14:06:00	D	11.50
246	KAPURTHALA	KAPURTHALA	S-NPP	75.23714	31.38831	14:06:00	D	25.30
247	KAPURTHALA	KAPURTHALA	S-NPP	75.39841	31.44200	14:06:00	D	1.70
248	KAPURTHALA	KAPURTHALA	S-NPP	75.37594	31.55122	14:06:00	D	4.30
249	KAPURTHALA	SULTANPUR LODHI	S-NPP	75.19363	31.18336	14:06:00	D	3.70
250	KAPURTHALA	SULTANPUR LODHI	S-NPP	75.29537	31.23658	14:06:00	D	13.50
251	KAPURTHALA	SULTANPUR LODHI	S-NPP	75.29613	31.23738	14:06:00	D	13.50
252	KAPURTHALA	SULTANPUR LODHI	S-NPP	75.12788	31.23843	14:06:00	D	11.50
253	KAPURTHALA	SULTANPUR LODHI	S-NPP	75.12682	31.23873	14:06:00	D	7.30
254	KAPURTHALA	SULTANPUR LODHI	S-NPP	75.12629	31.24372	14:06:00	D	6.90
255	KAPURTHALA	SULTANPUR LODHI	S-NPP	75.25027	31.27879	14:06:00	D	8.90
256	KAPURTHALA	SULTANPUR LODHI	S-NPP	75.18073	31.29852	14:06:00	D	4.60
257	LUDHIANA	LUDHIANA EAST	S-NPP	76.06239	30.99192	14:06:00	D	2.40
258	LUDHIANA	LUDHIANA WEST	S-NPP	75.71810	30.74429	14:06:00	D	3.80
259	LUDHIANA	LUDHIANA WEST	S-NPP	75.72162	30.74457	14:06:00	D	3.80
260	LUDHIANA	LUDHIANA WEST	S-NPP	75.71970	30.74568	14:06:00	D	9.60
261	LUDHIANA	SAMRALA	S-NPP	76.19120	30.73935	14:06:00	D	5.00

262	LUDHIANA	SAMRALA	S-NPP	76.24988	30.78965	14:06:00	D	3.20
263	LUDHIANA	SAMRALA	S-NPP	76.28471	30.95113	14:06:00	D	8.00
264	MANSA	BUDHLADA	S-NPP	75.48753	29.80905	14:06:00	D	7.50
265	MANSA	BUDHLADA	S-NPP	75.42918	29.82731	12:24:00	D	5.20
266	MANSA	BUDHLADA	S-NPP	75.42560	29.82926	12:24:00	D	5.50
267	MANSA	BUDHLADA	S-NPP	75.73956	29.84490	14:06:00	D	3.20
268	MANSA	BUDHLADA	S-NPP	75.57734	29.84695	14:06:00	D	4.90
269	MANSA	BUDHLADA	S-NPP	75.52913	29.85818	14:06:00	D	28.20
270	MANSA	SARDULGARH	S-NPP	75.27454	29.62014	14:06:00	D	3.20
271	MANSA	SARDULGARH	S-NPP	75.27933	29.63553	14:06:00	D	4.70
272	MANSA	SARDULGARH	S-NPP	75.27797	29.64089	14:06:00	D	8.40
273	MANSA	SARDULGARH	S-NPP	75.18565	29.66813	14:06:00	D	27.30
274	MOGA	BAGHA PURANA	S-NPP	75.06433	30.76973	14:06:00	D	12.10
275	MOGA	BAGHA PURANA	S-NPP	75.07076	30.77027	14:06:00	D	12.10
276	MUKTSAR	GIDDARBAHA	S-NPP	74.72624	30.30293	14:06:00	D	5.20
277	MUKTSAR	GIDDARBAHA	S-NPP	74.80399	30.38506	12:24:00	D	12.70
278	MUKTSAR	GIDDARBAHA	S-NPP	74.80341	30.39046	12:24:00	D	7.20
279	MUKTSAR	MALAUT	S-NPP	74.36990	30.30451	14:06:00	D	2.70
280	MUKTSAR	MALAUT	S-NPP	74.41012	30.30823	14:06:00	D	3.50
281	MUKTSAR	MUKTSAR	S-NPP	74.55872	30.51933	14:06:00	D	9.90
282	PATIALA	NABHA	S-NPP	76.07127	30.34054	14:06:00	D	5.20
283	PATIALA	NABHA	S-NPP	76.23769	30.38817	12:24:00	D	4.40
284	PATIALA	NABHA	S-NPP	76.18816	30.42311	14:06:00	D	2.90
285	PATIALA	NABHA	S-NPP	76.16070	30.53659	12:24:00	D	6.00
286	PATIALA	PATIALA	S-NPP	76.59612	30.13271	14:06:00	D	2.90
287	PATIALA	PATIALA	S-NPP	76.39034	30.13870	14:06:00	D	2.90
288	PATIALA	PATIALA	S-NPP	76.51700	30.14301	14:06:00	D	3.10
289	PATIALA	PATIALA	S-NPP	76.47756	30.15080	14:06:00	D	3.00
290	PATIALA	PATIALA	S-NPP	76.29848	30.15137	14:06:00	D	4.30
291	PATIALA	PATIALA	S-NPP	76.29797	30.15288	14:06:00	D	3.50
292	PATIALA	PATIALA	S-NPP	76.47090	30.16184	12:24:00	D	3.90
293	PATIALA	PATIALA	S-NPP	76.55811	30.16238	14:06:00	D	3.20
294	PATIALA	PATIALA	TERRA	76.47300	30.16400	11:05:00	D	15.80

295	PATIALA	PATIALA	S-NPP	76.50581	30.17997	14:06:00	D	9.60
296	PATIALA	PATIALA	S-NPP	76.50614	30.18244	14:06:00	D	11.00
297	PATIALA	PATIALA	S-NPP	76.48003	30.21293	14:06:00	D	2.40
298	PATIALA	PATIALA	S-NPP	76.39841	30.22031	12:24:00	D	9.00
299	PATIALA	PATIALA	S-NPP	76.39600	30.22170	12:24:00	D	11.70
300	PATIALA	PATIALA	S-NPP	76.46882	30.24223	12:24:00	D	3.10
301	PATIALA	PATIALA	S-NPP	76.49512	30.24964	12:24:00	D	4.30
302	PATIALA	PATIALA	S-NPP	76.51900	30.25367	14:06:00	D	3.50
303	PATIALA	PATIALA	S-NPP	76.28780	30.29889	14:06:00	D	2.90
304	PATIALA	PATIALA	S-NPP	76.45795	30.32227	14:06:00	D	1.60
305	PATIALA	PATIALA	S-NPP	76.37201	30.40483	14:06:00	D	2.70
306	PATIALA	RAJPURA	S-NPP	76.68021	30.32973	12:24:00	D	3.50
307	PATIALA	RAJPURA	TERRA	76.52600	30.33100	11:05:00	D	5.10
308	PATIALA	RAJPURA	TERRA	76.52700	30.36600	11:05:00	D	5.60
309	PATIALA	RAJPURA	S-NPP	76.61275	30.38809	14:06:00	D	6.10
310	PATIALA	RAJPURA	S-NPP	76.61179	30.38950	14:06:00	D	6.20
311	PATIALA	RAJPURA	S-NPP	76.58559	30.41487	14:06:00	D	3.10
312	PATIALA	RAJPURA	S-NPP	76.50196	30.46844	14:06:00	D	3.20
313	PATIALA	RAJPURA	S-NPP	76.54402	30.52280	14:06:00	D	10.20
314	PATIALA	RAJPURA	S-NPP	76.55580	30.52364	14:06:00	D	2.70
315	PATIALA	RAJPURA	S-NPP	76.70131	30.55042	14:06:00	D	2.00
316	PATIALA	RAJPURA	S-NPP	76.54060	30.55120	12:24:00	D	4.80
317	PATIALA	RAJPURA	S-NPP	76.64085	30.55156	14:06:00	D	4.20
318	PATIALA	RAJPURA	S-NPP	76.53867	30.55266	12:24:00	D	3.50
319	PATIALA	RAJPURA	S-NPP	76.74561	30.55357	14:06:00	D	2.40
320	PATIALA	RAJPURA	S-NPP	76.66130	30.59134	14:06:00	D	8.20
321	PATIALA	RAJPURA	S-NPP	76.54008	30.60946	14:06:00	D	2.80
322	PATIALA	SAMANA	S-NPP	76.16302	29.83856	12:24:00	D	15.70
323	PATIALA	SAMANA	S-NPP	76.16156	29.83941	12:24:00	D	11.70
324	PATIALA	SAMANA	S-NPP	76.12914	29.84955	14:06:00	D	9.50
325	PATIALA	SAMANA	S-NPP	76.13275	29.84982	14:06:00	D	9.50
326	PATIALA	SAMANA	S-NPP	76.22015	29.85647	14:06:00	D	3.60
327	PATIALA	SAMANA	S-NPP	76.08636	29.87779	14:06:00	D	2.90

328	PATIALA	SAMANA	S-NPP	76.17539	29.90062	14:06:00	D	1.20
329	PATIALA	SAMANA	S-NPP	76.16245	29.92071	14:06:00	D	11.30
330	PATIALA	SAMANA	S-NPP	76.13496	29.92724	12:24:00	D	3.20
331	PATIALA	SAMANA	S-NPP	76.14951	29.94078	14:06:00	D	1.70
332	PATIALA	SAMANA	TERRA	76.17600	29.96200	11:05:00	D	10.60
333	PATIALA	SAMANA	TERRA	76.23800	30.09300	11:05:00	D	7.40
334	PATIALA	SAMANA	S-NPP	76.13726	30.22901	02:48:00	N	1.60
335	SANGRUR	MALERKOTLA	S-NPP	75.84260	30.59670	14:06:00	D	2.70
336	SANGRUR	MOONAK	S-NPP	76.03758	29.75789	14:06:00	D	6.70
337	SANGRUR	MOONAK	S-NPP	75.98940	29.77496	14:06:00	D	1.40
338	SANGRUR	MOONAK	S-NPP	75.87766	29.79703	14:06:00	D	1.50
339	SANGRUR	MOONAK	S-NPP	75.87920	29.80960	12:24:00	D	10.90
340	SANGRUR	MOONAK	S-NPP	75.84261	29.82215	14:06:00	D	1.30
341	SANGRUR	MOONAK	S-NPP	75.95262	29.82409	14:06:00	D	2.10
342	SANGRUR	MOONAK	S-NPP	75.95160	29.82544	14:06:00	D	2.20
343	SANGRUR	MOONAK	S-NPP	75.99883	29.85155	12:24:00	D	6.90
344	SANGRUR	MOONAK	S-NPP	76.00073	29.85264	12:24:00	D	7.10
345	SANGRUR	MOONAK	S-NPP	75.96665	29.85267	14:06:00	D	4.50
346	SANGRUR	MOONAK	S-NPP	75.90022	29.87860	14:06:00	D	2.80
347	SANGRUR	MOONAK	S-NPP	75.84180	29.91693	14:06:00	D	2.40
348	SANGRUR	SANGRUR	S-NPP	76.01373	30.22490	14:06:00	D	4.10
349	SANGRUR	SANGRUR	S-NPP	76.15736	30.25201	14:06:00	D	2.70
350	SANGRUR	SANGRUR	S-NPP	76.15787	30.25228	14:06:00	D	3.20
351	SANGRUR	SANGRUR	S-NPP	75.97672	30.35951	14:06:00	D	1.50
352	SANGRUR	SUNAM	S-NPP	76.01132	29.97350	12:24:00	D	7.40
353	SAS NAGAR	DERABASSI	S-NPP	76.76250	30.45485	14:06:00	D	4.60
354	SAS NAGAR	DERABASSI	S-NPP	76.80042	30.57952	14:06:00	D	4.80
355	SAS NAGAR	DERABASSI	S-NPP	76.88385	30.61321	14:06:00	D	1.80
356	SAS NAGAR	DERABASSI	S-NPP	76.79953	30.62427	12:24:00	D	5.40
357	SAS NAGAR	MOHALI	S-NPP	76.75684	30.60940	14:06:00	D	5.50
358	SAS NAGAR	MOHALI	S-NPP	76.75586	30.60956	14:06:00	D	5.50
359	SAS NAGAR	MOHALI	S-NPP	76.71113	30.64134	12:24:00	D	3.70
360	SAS NAGAR	MOHALI	S-NPP	76.70968	30.64174	12:24:00	D	5.20

361	SBS NAGAR	SBS NAGAR	S-NPP	76.07716	31.22780	12:30:00	D	5.90
362	TARN TARAN	KHADOOR SAHIB	S-NPP	74.89557	31.25515	14:06:00	D	8.10
363	TARN TARAN	KHADOOR SAHIB	S-NPP	75.05603	31.26007	12:30:00	D	6.70
364	TARN TARAN	KHADOOR SAHIB	S-NPP	75.05662	31.26152	12:30:00	D	9.10
365	TARN TARAN	KHADOOR SAHIB	TERRA	75.03000	31.28400	11:05:00	D	7.70
366	TARN TARAN	KHADOOR SAHIB	TERRA	75.02400	31.28500	11:05:00	D	9.20
367	TARN TARAN	KHADOOR SAHIB	S-NPP	74.95614	31.29502	14:06:00	D	5.10
368	TARN TARAN	KHADOOR SAHIB	S-NPP	75.00637	31.31425	14:06:00	D	6.50
369	TARN TARAN	KHADOOR SAHIB	S-NPP	75.00434	31.31459	14:06:00	D	4.60
370	TARN TARAN	KHADOOR SAHIB	S-NPP	74.96050	31.31535	14:06:00	D	5.00
371	TARN TARAN	KHADOOR SAHIB	S-NPP	74.95837	31.31599	14:06:00	D	6.30
372	TARN TARAN	KHADOOR SAHIB	S-NPP	75.05205	31.31809	14:06:00	D	4.60
373	TARN TARAN	KHADOOR SAHIB	S-NPP	75.05007	31.31815	14:06:00	D	5.90
374	TARN TARAN	KHADOOR SAHIB	S-NPP	74.91388	31.32630	14:06:00	D	8.70
375	TARN TARAN	KHADOOR SAHIB	S-NPP	74.91164	31.32724	14:06:00	D	6.60
376	TARN TARAN	KHADOOR SAHIB	S-NPP	75.09512	31.33168	14:06:00	D	19.40
377	TARN TARAN	KHADOOR SAHIB	S-NPP	75.09705	31.33194	14:06:00	D	18.60
378	TARN TARAN	KHADOOR SAHIB	S-NPP	75.04034	31.34747	14:06:00	D	5.80
379	TARN TARAN	KHADOOR SAHIB	AQUA	74.80800	31.35600	14:15:00	D	22.40
380	TARN TARAN	KHADOOR SAHIB	S-NPP	74.94016	31.36441	14:06:00	D	2.00
381	TARN TARAN	KHADOOR SAHIB	S-NPP	75.01210	31.36526	14:06:00	D	3.50
382	TARN TARAN	KHADOOR SAHIB	S-NPP	75.06397	31.37446	14:06:00	D	7.30
383	TARN TARAN	KHADOOR SAHIB	S-NPP	74.95851	31.37589	14:06:00	D	6.60
384	TARN TARAN	KHADOOR SAHIB	S-NPP	75.06908	31.37623	12:30:00	D	4.10
385	TARN TARAN	KHADOOR SAHIB	S-NPP	74.96499	31.37642	14:06:00	D	7.60
386	TARN TARAN	KHADOOR SAHIB	S-NPP	75.05030	31.37837	14:06:00	D	6.10
387	TARN TARAN	KHADOOR SAHIB	S-NPP	74.95799	31.38084	14:06:00	D	6.60
388	TARN TARAN	KHADOOR SAHIB	S-NPP	74.96446	31.38137	14:06:00	D	7.60
389	TARN TARAN	KHADOOR SAHIB	S-NPP	75.04977	31.38335	14:06:00	D	3.40
390	TARN TARAN	KHADOOR SAHIB	S-NPP	75.03273	31.40125	12:30:00	D	5.50
391	TARN TARAN	KHADOOR SAHIB	S-NPP	75.06085	31.40435	14:06:00	D	7.80
392	TARN TARAN	KHADOOR SAHIB	S-NPP	74.89529	31.40704	14:06:00	D	8.50
393	TARN TARAN	KHADOOR SAHIB	S-NPP	74.89627	31.41057	14:06:00	D	5.80

394	TARN TARAN	KHADOOR SAHIB	S-NPP	75.13912	31.42088	14:06:00	D	4.10
395	TARN TARAN	KHADOOR SAHIB	S-NPP	75.02597	31.42152	14:06:00	D	5.00
396	TARN TARAN	KHADOOR SAHIB	S-NPP	75.02465	31.42208	14:06:00	D	4.30
397	TARN TARAN	KHADOOR SAHIB	S-NPP	75.02545	31.42650	14:06:00	D	5.00
398	TARN TARAN	KHADOOR SAHIB	S-NPP	74.97731	31.43341	14:06:00	D	2.90
399	TARN TARAN	KHADOOR SAHIB	S-NPP	74.66825	31.43820	14:06:00	D	7.20
400	TARN TARAN	KHADOOR SAHIB	S-NPP	75.17653	31.43879	14:06:00	D	10.70
401	TARN TARAN	KHADOOR SAHIB	S-NPP	75.17764	31.43923	14:06:00	D	12.00
402	TARN TARAN	KHADOOR SAHIB	AQUA	74.82000	31.44600	14:15:00	D	27.60
403	TARN TARAN	KHADOOR SAHIB	S-NPP	74.82645	31.44625	14:06:00	D	8.60
404	TARN TARAN	KHADOOR SAHIB	S-NPP	74.82593	31.45116	14:06:00	D	13.50
405	TARN TARAN	KHADOOR SAHIB	AQUA	75.03500	31.46300	14:15:00	D	23.20
406	TARN TARAN	KHADOOR SAHIB	S-NPP	75.02296	31.46542	12:30:00	D	4.70
407	TARN TARAN	KHADOOR SAHIB	S-NPP	75.02403	31.46605	12:30:00	D	6.30
408	TARN TARAN	KHADOOR SAHIB	S-NPP	75.03960	31.46841	14:06:00	D	5.40
409	TARN TARAN	KHADOOR SAHIB	S-NPP	75.14607	31.47182	14:06:00	D	7.00
410	TARN TARAN	KHADOOR SAHIB	S-NPP	74.70087	31.47293	12:30:00	D	6.10
411	TARN TARAN	KHADOOR SAHIB	TERRA	75.05900	31.47300	11:05:00	D	14.50
412	TARN TARAN	KHADOOR SAHIB	S-NPP	75.22714	31.47310	14:06:00	D	14.00
413	TARN TARAN	KHADOOR SAHIB	AQUA	74.81700	31.47400	14:15:00	D	27.00
414	TARN TARAN	KHADOOR SAHIB	S-NPP	75.17955	31.47445	14:06:00	D	10.80
415	TARN TARAN	KHADOOR SAHIB	S-NPP	74.81055	31.47467	14:06:00	D	4.10
416	TARN TARAN	KHADOOR SAHIB	S-NPP	75.22662	31.47814	14:06:00	D	14.00
417	TARN TARAN	KHADOOR SAHIB	S-NPP	74.81002	31.47958	14:06:00	D	3.80
418	TARN TARAN	KHADOOR SAHIB	AQUA	74.80800	31.48100	14:15:00	D	20.00
419	TARN TARAN	KHADOOR SAHIB	S-NPP	74.82914	31.48117	14:06:00	D	7.30
420	TARN TARAN	KHADOOR SAHIB	S-NPP	74.71987	31.48681	14:06:00	D	14.60
421	TARN TARAN	KHADOOR SAHIB	S-NPP	74.71883	31.49658	14:06:00	D	4.70
422	TARN TARAN	KHADOOR SAHIB	S-NPP	74.71786	31.49854	14:06:00	D	7.10
423	TARN TARAN	KHADOOR SAHIB	S-NPP	74.69788	31.50246	12:30:00	D	5.60
424	TARN TARAN	KHADOOR SAHIB	S-NPP	74.83241	31.51122	14:06:00	D	4.20
425	TARN TARAN	KHADOOR SAHIB	S-NPP	74.67705	31.51146	12:30:00	D	4.30
426	TARN TARAN	KHADOOR SAHIB	S-NPP	74.96890	31.51276	14:06:00	D	3.90

427	TARN TARAN	KHADOOR SAHIB	S-NPP	74.79122	31.52908	14:06:00	D	3.90
428	TARN TARAN	PATTI	S-NPP	74.82522	31.14807	14:06:00	D	23.20
429	TARN TARAN	PATTI	S-NPP	74.85575	31.16052	14:06:00	D	4.20
430	TARN TARAN	PATTI	S-NPP	74.86207	31.16105	14:06:00	D	10.10
431	TARN TARAN	PATTI	TERRA	74.57100	31.18500	11:05:00	D	15.80
432	TARN TARAN	PATTI	S-NPP	74.54961	31.18619	12:30:00	D	7.10
433	TARN TARAN	PATTI	S-NPP	74.82719	31.18778	14:06:00	D	3.90
434	TARN TARAN	PATTI	S-NPP	74.55764	31.18857	12:30:00	D	9.00
435	TARN TARAN	PATTI	S-NPP	74.81940	31.18954	14:06:00	D	8.80
436	TARN TARAN	PATTI	S-NPP	74.55537	31.19055	12:30:00	D	11.90
437	TARN TARAN	PATTI	S-NPP	74.82038	31.19214	14:06:00	D	6.60
438	TARN TARAN	PATTI	S-NPP	74.81985	31.19704	14:06:00	D	6.60
439	TARN TARAN	PATTI	S-NPP	74.67960	31.19797	14:06:00	D	10.50
440	TARN TARAN	PATTI	S-NPP	74.81831	31.19934	14:06:00	D	7.90
441	TARN TARAN	PATTI	AQUA	74.67900	31.20600	14:15:00	D	22.40
442	TARN TARAN	PATTI	S-NPP	74.90812	31.20961	14:06:00	D	7.30
443	TARN TARAN	PATTI	TERRA	74.70300	31.21100	11:05:00	D	9.60
444	TARN TARAN	PATTI	S-NPP	74.90673	31.21135	14:06:00	D	2.60
445	TARN TARAN	PATTI	S-NPP	74.58418	31.21180	12:30:00	D	6.80
446	TARN TARAN	PATTI	S-NPP	74.67181	31.21202	14:06:00	D	8.70
447	TARN TARAN	PATTI	S-NPP	74.77997	31.21330	14:06:00	D	3.70
448	TARN TARAN	PATTI	S-NPP	74.58188	31.21396	12:30:00	D	4.20
449	TARN TARAN	PATTI	S-NPP	74.58459	31.21454	14:06:00	D	10.50
450	TARN TARAN	PATTI	S-NPP	74.84784	31.22149	14:06:00	D	4.80
451	TARN TARAN	PATTI	S-NPP	74.87469	31.22161	14:06:00	D	8.90
452	TARN TARAN	PATTI	S-NPP	74.87322	31.22355	14:06:00	D	6.90
453	TARN TARAN	PATTI	S-NPP	74.92802	31.22421	12:30:00	D	2.80
454	TARN TARAN	PATTI	S-NPP	74.76472	31.22460	14:06:00	D	3.00
455	TARN TARAN	PATTI	S-NPP	74.92514	31.22884	12:30:00	D	8.50
456	TARN TARAN	PATTI	S-NPP	74.57599	31.23243	12:30:00	D	5.30
457	TARN TARAN	PATTI	S-NPP	74.63824	31.23370	14:06:00	D	5.50
458	TARN TARAN	PATTI	S-NPP	74.57378	31.23461	12:30:00	D	6.30
459	TARN TARAN	PATTI	S-NPP	74.90408	31.23597	14:06:00	D	6.30

460	TARN TARAN	PATTI	S-NPP	74.61310	31.23646	14:06:00	D	2.10
461	TARN TARAN	PATTI	S-NPP	74.89610	31.25023	14:06:00	D	8.10
462	TARN TARAN	PATTI	S-NPP	74.80559	31.25759	14:06:00	D	3.20
463	TARN TARAN	PATTI	S-NPP	74.88866	31.25954	14:06:00	D	4.70
464	TARN TARAN	PATTI	S-NPP	74.63965	31.26968	12:30:00	D	4.60
465	TARN TARAN	PATTI	S-NPP	74.77827	31.27504	14:06:00	D	10.50
466	TARN TARAN	PATTI	S-NPP	74.70837	31.27890	14:06:00	D	5.00
467	TARN TARAN	PATTI	S-NPP	74.70537	31.28605	14:06:00	D	15.90
468	TARN TARAN	PATTI	S-NPP	74.58673	31.28627	14:06:00	D	4.50
469	TARN TARAN	PATTI	S-NPP	74.82414	31.28664	12:30:00	D	3.10
470	TARN TARAN	PATTI	S-NPP	74.58888	31.28807	14:06:00	D	4.40
471	TARN TARAN	PATTI	S-NPP	74.70733	31.28864	14:06:00	D	10.20
472	TARN TARAN	PATTI	S-NPP	74.82446	31.29003	12:30:00	D	3.30
473	TARN TARAN	PATTI	S-NPP	74.79456	31.30112	14:06:00	D	7.60
474	TARN TARAN	PATTI	S-NPP	74.79218	31.30284	14:06:00	D	8.70
475	TARN TARAN	PATTI	S-NPP	74.64883	31.30805	14:06:00	D	3.40
476	TARN TARAN	PATTI	S-NPP	74.67362	31.31024	14:06:00	D	6.00
477	TARN TARAN	PATTI	S-NPP	74.64618	31.31068	14:06:00	D	7.40
478	TARN TARAN	PATTI	S-NPP	74.74279	31.34814	14:06:00	D	4.20
479	TARN TARAN	PATTI	S-NPP	74.70984	31.36016	14:06:00	D	13.70
480	TARN TARAN	PATTI	S-NPP	74.58325	31.37383	14:06:00	D	4.00
481	TARN TARAN	PATTI	S-NPP	74.72652	31.38126	14:06:00	D	3.70
482	TARN TARAN	PATTI	S-NPP	74.74379	31.39753	14:06:00	D	5.30
483	TARN TARAN	PATTI	S-NPP	74.74201	31.39991	14:06:00	D	7.30
484	TARN TARAN	PATTI	S-NPP	74.71762	31.40512	14:06:00	D	3.90
485	TARN TARAN	PATTI	S-NPP	74.67240	31.40671	12:30:00	D	4.60
486	TARN TARAN	PATTI	S-NPP	74.63982	31.41133	14:06:00	D	5.20
487	TARN TARAN	PATTI	S-NPP	74.64126	31.41317	14:06:00	D	9.10

Details of residue burning events in Haryana on 15-Oct-2020

S. No.	District	Tehsil / Block	Satellite	Longitude	Latitude	Time (IST)	Day / Night	Fire Power (W/m ²)
1	AMBALA	AMBALA	S-NPP	76.65535	30.17524	14:06:00	D	2.90
2	AMBALA	AMBALA	S-NPP	76.58224	30.24759	14:06:00	D	1.50
3	AMBALA	AMBALA	S-NPP	76.75990	30.26623	14:06:00	D	3.10
4	AMBALA	AMBALA	S-NPP	76.76389	30.26653	14:06:00	D	3.90
5	AMBALA	NARAYANGARH	S-NPP	77.12289	30.52925	14:06:00	D	2.20
6	FATEHABAD	RATIA	S-NPP	75.45083	29.76530	02:48:00	N	0.50
7	FATEHABAD	RATIA	S-NPP	75.63927	29.76677	14:06:00	D	1.40
8	FATEHABAD	TOHANA	S-NPP	75.86687	29.59266	14:06:00	D	1.20
9	FATEHABAD	TOHANA	S-NPP	75.82396	29.60479	14:06:00	D	1.30
10	FATEHABAD	TOHANA	S-NPP	75.90831	29.63216	14:06:00	D	1.70
11	FATEHABAD	TOHANA	S-NPP	75.76156	29.74100	14:06:00	D	2.50
12	HISAR	HISAR	S-NPP	75.98631	29.38403	14:06:00	D	1.70
13	HISAR	HISAR	S-NPP	76.01099	29.48165	14:06:00	D	2.60
14	JIND	JIND	S-NPP	76.40162	29.52777	14:06:00	D	1.10
15	JIND	JIND	S-NPP	76.48194	29.53049	14:06:00	D	3.40
16	JIND	JIND	S-NPP	76.48025	29.53356	14:06:00	D	3.80
17	JIND	NARWANA	S-NPP	76.14362	29.44005	14:06:00	D	1.30
18	JIND	NARWANA	S-NPP	76.21703	29.46688	14:06:00	D	1.40
19	JIND	NARWANA	S-NPP	75.98441	29.51705	14:06:00	D	4.00
20	JIND	NARWANA	S-NPP	75.98026	29.55834	14:06:00	D	2.40
21	JIND	NARWANA	S-NPP	76.02461	29.63614	14:06:00	D	1.90
22	JIND	NARWANA	S-NPP	75.97966	29.65866	14:06:00	D	1.80
23	JIND	SAFIDON	S-NPP	76.54688	29.40839	14:06:00	D	3.80
24	JIND	SAFIDON	S-NPP	76.58739	29.46338	14:06:00	D	3.40
25	KAITHAL	GUHLA	S-NPP	76.20289	29.89484	12:24:00	D	4.20
26	KAITHAL	GUHLA	S-NPP	76.19601	29.93854	14:06:00	D	4.20
27	KAITHAL	GUHLA	S-NPP	76.19377	29.93910	14:06:00	D	4.40
28	KAITHAL	GUHLA	S-NPP	76.19742	29.93939	14:06:00	D	4.40
29	KAITHAL	GUHLA	S-NPP	76.38560	29.95317	12:24:00	D	6.70
30	KAITHAL	GUHLA	S-NPP	76.38120	29.95752	14:06:00	D	3.10

31	KAITHAL	GUHLA	S-NPP	76.23335	29.97313	14:06:00	D	4.50
32	KAITHAL	GUHLA	S-NPP	76.22549	29.97784	14:06:00	D	2.70
33	KAITHAL	GUHLA	S-NPP	76.42148	30.01411	14:06:00	D	2.00
34	KAITHAL	KAITHAL	S-NPP	76.61179	29.64042	14:06:00	D	2.10
35	KAITHAL	KAITHAL	S-NPP	76.67761	29.68026	14:06:00	D	4.00
36	KAITHAL	KAITHAL	S-NPP	76.61905	29.68138	14:06:00	D	3.30
37	KAITHAL	KAITHAL	S-NPP	76.62291	29.68166	14:06:00	D	3.30
38	KAITHAL	KAITHAL	S-NPP	76.53687	29.82325	14:06:00	D	6.70
39	KAITHAL	KAITHAL	S-NPP	76.62056	29.84048	14:06:00	D	8.30
40	KAITHAL	KAITHAL	S-NPP	76.68378	29.87796	14:06:00	D	2.30
41	KAITHAL	KAITHAL	S-NPP	76.68346	29.87987	14:06:00	D	1.80
42	KAITHAL	KAITHAL	S-NPP	76.39359	29.88020	14:06:00	D	3.20
43	KAITHAL	KAITHAL	S-NPP	76.69502	29.88429	14:06:00	D	7.90
44	KAITHAL	KAITHAL	S-NPP	76.69472	29.88612	14:06:00	D	9.60
45	KARNAL	ASSANDH	TERRA	76.55500	29.52800	11:05:00	D	6.40
46	KARNAL	ASSANDH	S-NPP	76.64090	29.57771	14:06:00	D	7.10
47	KARNAL	ASSANDH	S-NPP	76.64475	29.57800	14:06:00	D	9.80
48	KARNAL	ASSANDH	S-NPP	76.63224	29.59000	12:24:00	D	8.40
49	KARNAL	ASSANDH	S-NPP	76.62939	29.59425	12:24:00	D	6.60
50	KARNAL	ASSANDH	S-NPP	76.63020	29.60938	14:06:00	D	2.70
51	KARNAL	ASSANDH	S-NPP	76.69785	29.63625	14:06:00	D	6.10
52	KARNAL	ASSANDH	S-NPP	76.72122	29.63804	14:06:00	D	4.00
53	KARNAL	ASSANDH	S-NPP	76.72513	29.63834	14:06:00	D	4.60
54	KARNAL	ASSANDH	S-NPP	76.68238	29.65417	12:24:00	D	4.20
55	KARNAL	GHARAUNDA	S-NPP	77.01333	29.52209	14:06:00	D	2.60
56	KARNAL	GHARAUNDA	AQUA	76.87400	29.53000	14:15:00	D	46.40
57	KARNAL	GHARAUNDA	S-NPP	76.84202	29.54233	14:06:00	D	2.30
58	KARNAL	GHARAUNDA	S-NPP	76.89012	29.57397	14:06:00	D	1.70
59	KARNAL	INDRI	S-NPP	77.09123	29.80885	14:06:00	D	3.30
60	KARNAL	INDRI	S-NPP	77.08981	29.80994	14:06:00	D	3.80
61	KARNAL	KARNAL	S-NPP	76.83684	29.58034	12:24:00	D	2.60
62	KARNAL	KARNAL	S-NPP	76.83722	29.58340	12:24:00	D	4.50
63	KARNAL	KARNAL	S-NPP	76.81611	29.59604	14:06:00	D	7.90

64	KARNAL	KARNAL	S-NPP	76.81905	29.60720	14:06:00	D	1.80
65	KARNAL	KARNAL	S-NPP	76.80283	29.65607	12:24:00	D	3.90
66	KARNAL	KARNAL	S-NPP	76.73089	29.65691	14:06:00	D	2.60
67	KARNAL	KARNAL	S-NPP	76.80280	29.65929	12:24:00	D	4.00
68	KARNAL	KARNAL	S-NPP	76.73097	29.66057	14:06:00	D	2.10
69	KARNAL	KARNAL	S-NPP	76.84932	29.66974	14:06:00	D	3.00
70	KARNAL	KARNAL	S-NPP	76.84889	29.67072	14:06:00	D	3.10
71	KARNAL	KARNAL	S-NPP	76.78890	29.67601	14:06:00	D	5.80
72	KARNAL	KARNAL	S-NPP	76.78835	29.67737	14:06:00	D	5.40
73	KARNAL	KARNAL	S-NPP	76.72836	29.68395	14:06:00	D	2.20
74	KARNAL	KARNAL	S-NPP	77.13000	29.68550	14:06:00	D	2.10
75	KARNAL	KARNAL	S-NPP	76.78882	29.71567	14:06:00	D	2.50
76	KARNAL	KARNAL	S-NPP	76.78833	29.72110	14:06:00	D	2.50
77	KARNAL	KARNAL	S-NPP	76.73547	29.72283	12:24:00	D	4.10
78	KARNAL	KARNAL	S-NPP	76.82796	29.72403	14:06:00	D	7.20
79	KARNAL	KARNAL	S-NPP	76.78783	29.72653	14:06:00	D	2.30
80	KARNAL	KARNAL	S-NPP	76.82764	29.72995	12:24:00	D	5.50
81	KARNAL	KARNAL	S-NPP	76.70033	29.77440	14:06:00	D	2.70
82	KARNAL	KARNAL	S-NPP	76.70101	29.77584	14:06:00	D	6.20
83	KARNAL	KARNAL	S-NPP	76.69984	29.77980	14:06:00	D	2.70
84	KARNAL	KARNAL	S-NPP	76.98169	29.78463	14:06:00	D	3.80
85	KARNAL	KARNAL	S-NPP	76.98043	29.78500	14:06:00	D	3.20
86	KARNAL	KARNAL	S-NPP	77.00977	29.79211	14:06:00	D	5.40
87	KARNAL	KARNAL	S-NPP	77.01386	29.79239	14:06:00	D	5.40
88	KARNAL	KARNAL	S-NPP	77.01254	29.79297	14:06:00	D	10.10
89	KARNAL	NILOKHERI	S-NPP	76.81947	29.89897	12:24:00	D	5.20
90	KURUKSHETRA	PEHOWA	S-NPP	76.57831	29.91558	14:06:00	D	5.00
91	KURUKSHETRA	PEHOWA	S-NPP	76.71883	29.92604	14:06:00	D	2.80
92	KURUKSHETRA	PEHOWA	S-NPP	76.75442	29.92866	14:06:00	D	5.20
93	KURUKSHETRA	PEHOWA	S-NPP	76.59229	29.93287	14:06:00	D	4.80
94	KURUKSHETRA	PEHOWA	S-NPP	76.58542	29.93351	12:24:00	D	5.10
95	KURUKSHETRA	PEHOWA	S-NPP	76.58924	29.93844	12:24:00	D	9.60
96	KURUKSHETRA	PEHOWA	S-NPP	76.60288	29.94543	12:24:00	D	5.40

97	KURUKSHETRA	PEHOWA	S-NPP	76.65894	29.97599	14:06:00	D	3.30
98	KURUKSHETRA	PEHOWA	S-NPP	76.65380	29.97717	14:06:00	D	2.90
99	KURUKSHETRA	PEHOWA	S-NPP	76.65771	29.97746	14:06:00	D	2.90
100	KURUKSHETRA	PEHOWA	S-NPP	76.51302	30.02104	14:06:00	D	1.30
101	KURUKSHETRA	PEHOWA	S-NPP	76.64487	30.03091	14:06:00	D	1.90
102	KURUKSHETRA	PEHOWA	S-NPP	76.60146	30.03310	14:06:00	D	2.90
103	KURUKSHETRA	PEHOWA	S-NPP	76.46939	30.03389	14:06:00	D	2.70
104	KURUKSHETRA	PEHOWA	S-NPP	76.62552	30.06966	14:06:00	D	4.00
105	KURUKSHETRA	PEHOWA	S-NPP	76.47356	30.06967	14:06:00	D	3.00
106	KURUKSHETRA	PEHOWA	S-NPP	76.62943	30.06993	14:06:00	D	6.10
107	KURUKSHETRA	PEHOWA	S-NPP	76.47362	30.07192	14:06:00	D	3.60
108	KURUKSHETRA	PEHOWA	S-NPP	76.62529	30.07292	14:06:00	D	3.20
109	KURUKSHETRA	PEHOWA	S-NPP	76.62920	30.07322	14:06:00	D	8.80
110	KURUKSHETRA	PEHOWA	S-NPP	76.63311	30.07352	14:06:00	D	8.80
111	KURUKSHETRA	PEHOWA	S-NPP	76.62894	30.07533	14:06:00	D	6.10
112	KURUKSHETRA	PEHOWA	S-NPP	76.63285	30.07561	14:06:00	D	6.10
113	KURUKSHETRA	PEHOWA	S-NPP	76.71140	30.18060	14:06:00	D	2.20
114	KURUKSHETRA	SHAHABAD	S-NPP	76.92941	30.19551	14:06:00	D	3.90
115	KURUKSHETRA	THANESAR	S-NPP	76.82323	29.89580	12:24:00	D	6.50
116	KURUKSHETRA	THANESAR	S-NPP	76.70157	29.89751	14:06:00	D	2.10
117	KURUKSHETRA	THANESAR	S-NPP	76.82755	29.91755	14:06:00	D	2.90
118	KURUKSHETRA	THANESAR	S-NPP	76.93044	29.94703	14:06:00	D	3.60
119	KURUKSHETRA	THANESAR	S-NPP	76.87670	30.03692	14:06:00	D	2.50
120	KURUKSHETRA	THANESAR	S-NPP	76.79728	30.06411	14:06:00	D	6.50
121	PALWAL	HODAL	S-NPP	77.42438	27.92259	14:06:00	D	3.70
122	PALWAL	HODAL	S-NPP	77.42291	27.92367	14:06:00	D	2.70
123	PANCHKULA	PANCHKULA	S-NPP	76.99643	30.52095	14:06:00	D	5.10
124	PANCHKULA	PANCHKULA	S-NPP	76.99592	30.52153	14:06:00	D	7.60
125	SIRSA	RANIA	S-NPP	74.59269	29.64089	14:06:00	D	5.00
126	SIRSA	SIRSA	S-NPP	75.20767	29.54817	14:06:00	D	3.10
127	SIRSA	SIRSA	S-NPP	75.14655	29.78065	14:06:00	D	5.40
128	SONIPAT	SONIPAT	S-NPP	76.86697	29.05109	14:06:00	D	1.90
129	YAMUNANAGAR	JAGADHRI	S-NPP	77.15446	30.00230	14:06:00	D	2.70

Details of residue burning events in Uttar Pradesh on 15-Oct-2020

S. No.	District	Tehsil / Block	Satellite	Longitude	Latitude	Time (IST)	Day / Night	Fire Power (W/m²)
1	ALIGARH	KHAIR	S-NPP	77.72642	28.07360	01:12:00	N	0.60
2	ALIGARH	KOL	S-NPP	78.16228	27.91385	02:48:00	N	0.70
3	HARDOI	HARDOI	S-NPP	80.05647	27.45848	01:12:00	N	0.70
4	HARDOI	HARDOI	S-NPP	80.05674	27.46110	01:12:00	N	0.60
5	KHERI	MOHMADI	S-NPP	80.27993	28.05897	01:12:00	N	1.90
6	MATHURA	MAT	S-NPP	77.77773	27.82387	01:12:00	N	0.80
7	MATHURA	MAT	S-NPP	77.77811	27.82914	01:12:00	N	1.60
8	MATHURA	MAT	S-NPP	77.77285	27.82946	01:12:00	N	2.20
9	MATHURA	MAT	S-NPP	77.77827	27.83002	01:12:00	N	1.10
10	MATHURA	MAT	S-NPP	77.77303	27.83037	01:12:00	N	1.10
11	MATHURA	MAT	S-NPP	77.76776	27.83073	01:12:00	N	1.60
12	RAMPUR	BILASPUR	S-NPP	79.29494	28.78322	14:06:00	D	3.30
13	UNNAO	HASANGANJ	S-NPP	80.57042	26.84186	12:24:00	D	4.30

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

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

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

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

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