

Multimedia Appendix 1: Ranking of algorithms in different parameters of evaluation for HSS Region 4 (Highest Population)

Percentage of True Positive			Percentage of False Positive			Percentage of Overlap			Percentage of Early Alarm			Overall Position of Algorithm		
Pos	Algorithm	Value	Pos	Algorithm	Value	Pos	Algorithm	Value	Pos	Algorithm	Value	Pos	Algorithm	Value
1	C1 - cut:2 b4	100	1	C2 - cut:6 b4	0	1	NBC - cut 8	81	1	NBC - cut 8	88	1	NBC - cut 15	85
1	C2 - cut:2 b4	100	1	HLM 3	0	1	NBC - cut 15	81	1	NBC - cut 15	88	1	NBC - cut 8	85
1	C3 - cut:2 b4	100	1	HLM 5	0	2	NBC - 1k	70	2	C3 - cut:2 b4	75	2	C3 - cut:2 b4	78
1	C2 - cut:4 b4	100	2	H-Cusum	10	2	PSC - 1k	70	2	C3 - cut:2 b8	75	2	C3 - cut:2 b8	78
1	C3 - cut:4 b4	100	2	HNBC	10	3	NBC - 1.5k	60	2	POD	75	2	NBC - 1k	78
1	C2 - cut:6 b4	100	2	NBC - 1.5k	10	3	PSC - 1.5k	60	2	NBC - 1k	75	2	POD	78
1	C3 - cut:6 b4	100	2	PSC - 1.5k	10	4	POD	58	2	PSC - 1k	75	2	PSC - 1k	78
1	C1 - cut:2 b8	100	2	C1 - cut:2 b4	10	5	Satscan	52	3	NBC - 1.5k	63	3	NBC - 1.5k	77
1	C2 - cut:2 b8	100	2	C2 - cut:4 b4	10	6	HNBC	35	3	PSC - 1.5k	63	3	PSC - 1.5k	77
1	C3 - cut:2 b8	100	2	C3 - cut:4 b4	10	7	C3 - cut:2 b8	31	3	C2 - cut:2 b4	63	4	C2 - cut:2 b4	72
1	C2 - cut:4 b8	100	2	C3 - cut:6 b4	10	8	C3 - cut:2 b4	30	3	C2 - cut:2 b8	63	4	C2 - cut:2 b8	72
1	C3 - cut:4 b8	100	2	C1 - cut:2 b8	10	9	C2 - cut:2 b4	27	4	C3 - cut:4 b4	38	5	Satscan	71
1	Satscan	100	2	C2 - cut:4 b8	10	10	H-Cusum	26	4	C1 - cut:2 b8	38	6	C1 - cut:2 b8	64
1	POD	100	2	C3 - cut:4 b8	10	11	HLM 5	24	4	C3 - cut:4 b8	38	6	C3 - cut:4 b4	64
1	NBC - cut 8	100	2	Satscan	10	12	C2 - cut:2 b8	23	5	C1 - cut:2 b4	25	6	C3 - cut:4 b8	64
1	NBC - cut 15	100	3	NBC - 1k	20	12	HLM 3	23	6	HLM 3	20	7	C1 - cut:2 b4	58
1	NBC - 1k	100	3	PSC - 1k	20	13	C3 - cut:4 b4	19	6	HLM 5	20	7	HNBC	58
1	NBC - 1.5k	100	3	C2 - cut:2 b4	20	14	C3 - cut:4 b8	17	7	HNBC	13	8	C2 - cut:6 b4	57
1	PSC - 1k	100	3	C3 - cut:2 b4	20	15	C2 - cut:4 b4	16	7	C2 - cut:4 b4	13	9	C2 - cut:4 b4	53
1	PSC - 1.5k	100	3	C2 - cut:2 b8	20	16	C1 - cut:2 b4	15	7	C2 - cut:6 b4	13	10	C2 - cut:4 b8	52
2	HNBC	80	3	C3 - cut:2 b8	20	17	C1 - cut:2 b8	13	7	C3 - cut:6 b4	13	10	C3 - cut:6 b4	52
3	HLM 3	60	3	POD	20	18	C2 - cut:4 b8	12	7	C2 - cut:4 b8	13	11	H-Cusum	43
3	HLM 5	60	4	NBC - cut 8	30	19	C3 - cut:6 b4	11	7	Satscan	13	12	HLM 5	42
3	H-Cusum	60	4	NBC - cut 15	30	20	C2 - cut:6 b4	9	7	H-Cusum	13	12	HLM 3	42

Note: Value of Percentage of True Positive (RTP) and Percentage of False Positive (RFP) are rounded off to the nearest ten.