

Weighted by Observations - Optimal, Noisy

#	G	% Obs	O	G*	No weight (original)					No weight-U (original)					No weight-U-Max (original)					Weighted					Weighted-U									
					Time	AR	FPR	FNR	Acc	S	Time	AR	FPR	FNR	Acc	S	Time	AR	FPR	FNR	Acc	S	Time	AR	FPR	FNR	Acc	S						
BLOCKS (156)	20.3	10	1.25	8.0	4.125	0.43	0.27	0.3	86.1	8.08	4.02	0.43	0.27	0.3	86.1	8.11	3.865	0.43	0.27	0.3	86.1	8.11	15.292	0.05	0.21	0.74	22.2	2.06	9.904	0.34	0.59	0.07	97.2	17.72
		30	3.08	3.97	4.118	0.42	0.24	0.35	75.0	3.64	4.091	0.41	0.37	0.22	88.9	7.67	3.86	0.41	0.37	0.22	88.9	7.67	12.849	0.19	0.22	0.59	50.0	1.61	8.552	0.2	0.78	0.03	100.0	17.28
		50	4.42	2.5	4.191	0.48	0.29	0.23	72.2	3.14	4.15	0.35	0.53	0.11	91.7	8.69	3.885	0.35	0.54	0.11	91.7	9.08	10.915	0.26	0.27	0.46	50.0	1.67	8.386	0.15	0.82	0.02	100.0	16.33
		70	6.67	1.94	4.177	0.75	0.16	0.09	91.7	2.19	4.33	0.51	0.43	0.06	94.4	5.36	3.854	0.46	0.48	0.06	94.4	6.72	10.56	0.42	0.21	0.37	72.2	1.36	6.738	0.18	0.81	0.01	100.0	13.72
		100	8.83	1.83	3.978	0.69	0.15	0.16	83.3	1.75	4.458	0.65	0.31	0.04	100.0	4.25	3.868	0.63	0.33	0.04	100.0	4.58	10.544	0.67	0.29	0.91	10.8	1.08	6.723	0.18	0.78	0.03	100.0	11.67
IPC-GRID (208)	7.5	10	1.63	2.71	1.636	0.82	0.09	0.09	91.7	2.75	1.669	0.8	0.11	0.09	91.7	2.94	1.72	0.8	0.11	0.09	91.7	2.94	8.158	0.29	0.2	0.52	33.3	1.15	7.053	0.38	0.53	0.09	87.5	5.31
		30	4.0	1.21	1.636	0.84	0.09	0.07	91.7	1.25	1.691	0.83	0.12	0.05	93.8	1.35	1.746	0.83	0.12	0.05	93.8	1.35	7.223	0.6	0.17	0.23	66.7	1.08	6.632	0.3	0.69	0.01	97.9	5.13
		50	6.19	1.13	1.645	0.88	0.09	0.03	97.9	1.4	1.685	0.88	0.1	0.02	97.9	1.44	1.761	0.88	0.1	0.02	97.9	1.44	7.103	0.73	0.14	0.14	83.3	1.13	6.373	0.35	0.65	0.0	100.0	4.6
		70	8.69	1.04	1.649	0.94	0.05	0.01	97.9	1.17	1.694	0.92	0.07	0.01	97.9	1.21	1.846	0.92	0.07	0.01	97.9	1.21	7.098	0.93	0.03	0.04	95.8	1.02	6.378	0.43	0.57	0.0	100.0	3.77
		100	11.88	1.0	1.656	0.97	0.03	0.0	100.0	1.06	1.714	0.97	0.03	0.0	100.0	1.06	1.873	0.97	0.03	0.0	100.0	1.06	7.113	1.0	0.0	0.0	100.0	1.0	6.411	0.55	0.45	0.0	100.0	2.38
LOGISTICS (156)	10.0	10	2.0	2.83	1.899	0.75	0.21	0.04	94.4	4.06	1.902	0.71	0.25	0.04	94.4	4.47	1.899	0.71	0.25	0.04	94.4	4.47	9.321	0.38	0.24	0.37	52.8	2.36	7.903	0.28	0.72	0.0	100.0	10.0
		30	5.75	1.19	1.903	0.8	0.2	0.01	97.2	1.78	1.897	0.67	0.33	0.0	100.0	2.67	1.898	0.67	0.33	0.0	100.0	2.67	9.36	0.63	0.25	0.12	75.0	1.5	7.816	0.12	0.88	0.0	100.0	9.89
		50	9.42	1.06	1.904	0.88	0.11	0.01	97.2	1.31	1.9	0.79	0.2	0.01	97.2	1.61	1.904	0.79	0.2	0.01	97.2	1.61	8.848	0.76	0.17	0.07	86.1	1.36	7.814	0.11	0.89	0.0	100.0	9.64
		70	13.25	1.03	1.904	0.96	0.04	0.0	100.0	1.11	1.901	0.89	0.11	0.0	100.0	1.39	1.906	0.89	0.11	0.0	100.0	1.39	8.079	0.96	0.03	0.01	97.2	1.06	7.821	0.14	0.86	0.0	100.0	9.11
		100	18.17	1.0	1.911	1.0	0.0	0.0	100.0	1.0	1.903	0.96	0.04	0.0	100.0	1.08	1.903	0.96	0.04	0.0	100.0	1.08	7.809	0.96	0.04	0.0	100.0	1.08	7.931	0.2	0.8	0.0	100.0	7.83
MICRONC (156)	6.0	10	2.0	2.53	1.196	0.77	0.15	0.08	91.7	2.81	1.198	0.77	0.15	0.08	91.7	2.81	1.196	0.77	0.15	0.08	91.7	2.81	5.965	0.47	0.2	0.33	69.4	2.08	5.991	0.42	0.58	0.0	100.0	6.0
		30	5.42	1.22	1.195	0.74	0.19	0.07	88.9	1.58	1.198	0.67	0.33	0.0	100.0	2.58	1.197	0.67	0.33	0.0	100.0	2.58	5.976	0.66	0.23	0.1	83.3	1.58	5.97	0.2	0.8	0.0	100.0	6.0
		50	8.42	1.06	1.196	0.88	0.1	0.03	94.4	1.19	1.198	0.59	0.41	0.0	100.0	2.39	1.197	0.59	0.41	0.0	100.0	2.42	5.979	0.85	0.13	0.02	97.2	1.33	5.964	0.18	0.82	0.0	100.0	6.0
		70	11.92	1.0	1.195	0.88	0.09	0.03	94.4	1.14	1.197	0.61	0.37	0.01	97.2	2.11	1.198	0.61	0.37	0.01	97.2	2.11	5.963	0.87	0.12	0.01	97.2	1.22	6.037	0.17	0.83	0.0	100.0	6.0
		100	16.33	1.0	1.199	0.88	0.13	0.0	100.0	1.25	1.199	0.75	0.25	0.0	100.0	2.08	1.196	0.75	0.25	0.0	100.0	2.08	5.987	1.0	0.0	0.0	100.0	1.0	5.985	0.17	0.83	0.0	100.0	5.92
ROVERS (156)	6.0	10	1.67	2.28	1.276	0.63	0.24	0.13	83.3	2.97	1.275	0.63	0.24	0.13	83.3	2.97	1.274	0.63	0.24	0.13	83.3	2.97	6.495	0.39	0.26	0.34	61.1	1.97	6.511	0.38	0.62	0.0	100.0	6.0
		30	3.67	1.31	1.275	0.71	0.21	0.08	80.6	1.69	1.276	0.7	0.23	0.07	83.3	1.81	1.28	0.7	0.23	0.07	83.3	1.81	6.475	0.58	0.29	0.13	77.8	1.78	6.476	0.22	0.78	0.0	100.0	6.0
		50	5.75	1.19	1.276	0.73	0.14	0.13	77.8	1.28	1.275	0.72	0.2	0.08	86.1	1.67	1.276	0.72	0.2	0.08	86.1	1.67	6.456	0.8	0.1	0.11	86.1	1.19	6.463	0.21	0.79	0.0	100.0	5.86
		70	8.17	1.0	1.277	0.8	0.13	0.07	86.1	1.14	1.276	0.77	0.22	0.01	97.2	1.5	1.277	0.77	0.22	0.01	97.2	1.5	6.408	0.84	0.12	0.04	91.7	1.17	5.955	0.21	0.79	0.0	100.0	5.19
		100	10.83	1.0	1.277	0.96	0.04	0.0	100.0	1.08	1.28	0.9	0.1	0.0	100.0	1.25	1.276	0.9	0.1	0.0	100.0	1.25	6.45	1.0	0.0	0.0	100.0	1.0	5.995	0.24	0.76	0.0	100.0	4.58
SATELLITE (95)	6.0	10	1.42	3.53	1.09	0.81	0.14	0.05	94.4	3.89	1.091	0.81	0.14	0.05	94.4	3.89	1.091	0.81	0.14	0.05	94.4	3.89	-	-	-	-	-	-	-	-	-	-	-	-
		30	3.42	2.39	1.092	0.78	0.12	0.1	83.3	2.44	1.091	0.76	0.16	0.09	83.3	2.78	1.089	0.75	0.16	0.09	83.3	2.78	-	-	-	-	-	-	-	-	-	-	-	-
		50	5.75	1.58	1.094	0.71	0.2	0.09	83.3	2.0	1.091	0.63	0.32	0.05	91.7	3.03	1.09	0.63	0.32	0.05	91.7	3.03	-	-	-	-	-	-	-	-	-	-	-	-
		70	8.08	1.31	1.094	0.76	0.18	0.06	91.7	1.64	1.092	0.59	0.35	0.06	91.7	2.61	1.094	0.59	0.36	0.06	91.7	2.69	-	-	-	-	-	-	-	-	-	-	-	-
		100	10.75	1.25	1.095	0.79	0.14	0.07	91.7	1.42	1.087	0.69	0.24	0.07	91.7	1.83	1.086	0.69	0.24	0.07	91.7	1.83	-	-	-	-	-	-	-	-	-	-	-	-
SONOBAN (156)	8.7	10	2.33	2.11	3.24	0.33	0.38	0.27	52.8	2.78	3.242	0.33	0.47	0.2	69.4	4.03	3.241	0.33	0.47	0.2	69.4	4.03	13.81	0.26	0.32	0.42	38.9	1.67	9.126	0.26	0.74	0.01	100.0	8.25
		30	6.5	1.25	3.189	0.61	0.23	0.16	75.0	1.53	3.188	0.47	0.48	0.05	91.7	3.25	3.195	0.47	0.48	0.05	91.7	3.25	12.549	0.71	0.12	0.17	80.6	1.11	7.937	0.16	0.84	0.0	100.0	8.11
		50	10.33	1.22	3.184	0.61	0.3	0.09	88.9	2.72	3.181	0.42	0.55	0.03	94.4	4.97	3.186	0.42	0.55	0.03	94.4	5.03	12.091	0.86	0.03	0.12	94.4	1.03	7.843	0.16	0.83	0.01	100.0	7.81
		70	14.67	1.03	3.167	0.65	0.31	0.04	94.4	3.44	3.165	0.5	0.5	0.0	100.0	4.56	3.165	0.5	0.5	0.0	100.0	4.58	11.125	0.99	0.0	0.01	100.0	1.0	7.83	0.19	0.81	0.0	100.0	6.97
		100	20.17	1.0	3.174	0.77	0.19	0.04	91.7	2.5	3.176	0.64	0.36	0.0	100.0	3.75	3.175	0.64	0.36	0.0	100.0	3.75	9.407	0.92	0.04	0.04	91.7	1.0	7.833	0.38	0.62	0.0	100.0	5.33
Average					2.06	0.75	0.16	0.08	89.17	2.18	2.079	0.68	0.27	0.06	93.75	3.12	2.045	0.68	0.27	0.06	93.75	3.18	7.469	0.57	0.12	0.17	67.02	1.16	6.124	0.21	0.64	0.01	85.22	6.81

Table 1: Results for weighted observation sequences, with optimal observations. Each observation ω_i receives weight i .

Weighted by Observations - Suboptimal, Noisy

#	G	% Obs	O	G*	No weight (original)					No weight-U (original)			
---	---	-------	---	----	----------------------	--	--	--	--	------------------------	--	--	--