Observation Filters - Optimal, Noisy

					δ_{HC}F0			δ_{HCU}F0			δ_{HC}F1			δ_{HCU}F1			δ_{HC}F2			δ_{HCU}F2		
#	$\lvert\Gamma\rvert$	% Obs	$\lvert\Omega\rvert$	$\lvert\Gamma^*\rvert$	AGR	ACC	$\lvert\Gamma^{\mathbf{h}}\rvert$	AGR	ACC	$\lvert\Gamma^{\mathbf{h}}\rvert$	AGR	ACC	$\lvert\Gamma^{\mathbf{h}}\rvert$	AGR	ACC	$\lvert\Gamma^{\mathbf{h}}\rvert$	AGR	ACC	$\lvert\Gamma^{\mathbf{h}}\rvert$	AGR	ACC	$\lvert\Gamma^{\mathbf{h}}\rvert$
BLOCKS	20.3	10	1.25	8.0	**0.43**	86.1	8.08	**0.43**	86.1	8.11	0.4	100.0	17.67	0.4	100.0	17.67	0.39	100.0	20.33	0.39	100.0	20.33
		30	3.08	3.97	**0.42**	75.0	3.64	0.41	88.9	7.67	0.39	83.3	5.72	0.4	91.7	7.22	0.25	91.7	12.17	0.25	91.7	12.17
		50	4.42	2.5	0.48	72.2	3.14	0.35	91.7	8.69	**0.5**	80.6	3.67	0.46	91.7	6.42	0.35	88.9	6.53	0.34	91.7	7.36
		70	6.67	1.94	**0.75**	91.7	2.19	0.51	94.4	5.36	0.72	94.4	2.39	0.57	97.2	3.94	0.62	91.7	3.03	0.56	91.7	3.58
		100	8.83	1.83	0.69	83.3	1.75	0.65	100.0	4.25	**0.74**	83.3	1.67	0.73	91.7	2.5	0.58	83.3	2.25	0.66	91.7	2.75
IPC-GRID	7.5	10	1.63	2.71	**0.82**	91.7	2.75	0.8	91.7	2.94	0.62	95.8	5.15	0.62	95.8	5.15	0.38	97.9	7.27	0.38	97.9	7.27
		30	4.0	1.21	**0.84**	91.7	1.25	0.83	93.8	1.35	0.7	91.7	1.54	0.7	93.8	1.58	0.48	89.6	3.08	0.49	91.7	3.1
		50	6.19	1.13	**0.88**	97.9	1.4	**0.88**	97.9	1.44	0.85	97.9	1.46	0.86	97.9	1.48	0.7	97.9	2.06	0.7	97.9	2.06
		70	8.69	1.04	**0.94**	97.9	1.17	0.92	97.9	1.21	**0.94**	97.9	1.13	0.92	97.9	1.17	0.86	97.9	1.27	0.84	97.9	1.31
		100	11.88	1.0	**0.97**	100.0	1.06	**0.97**	100.0	1.06	**0.97**	100.0	1.06	**0.97**	100.0	1.06	0.94	100.0	1.13	0.94	100.0	1.13
LOGISTICS	10.0	10	2.0	2.83	**0.75**	94.4	4.06	0.71	94.4	4.47	0.47	97.2	6.67	0.47	97.2	6.67	0.28	100.0	10.0	0.28	100.0	10.0
		30	5.75	1.19	**0.8**	97.2	1.78	0.67	100.0	2.67	0.75	97.2	1.89	0.71	100.0	2.42	0.58	97.2	2.64	0.57	100.0	2.86
		50	9.42	1.06	**0.88**	97.2	1.31	0.79	97.2	1.61	**0.88**	97.2	1.31	0.79	97.2	1.61	0.79	97.2	1.53	0.74	97.2	1.72
		70	13.25	1.03	**0.96**	100.0	1.11	0.89	100.0	1.39	**0.96**	100.0	1.11	0.9	100.0	1.36	0.94	100.0	1.17	0.88	100.0	1.42
		100	18.17	1.0	**1.0**	100.0	1.0	0.96	100.0	1.08	**1.0**	100.0	1.0	0.96	100.0	1.08	**1.0**	100.0	1.0	**1.0**	100.0	1.0
MICONIC	6.0	10	2.0	2.53	**0.77**	91.7	2.81	**0.77**	91.7	2.81	0.51	97.2	5.0	0.51	97.2	5.0	0.42	100.0	6.0	0.42	100.0	6.0
		30	5.42	1.22	**0.74**	88.9	1.58	0.67	100.0	2.58	0.66	94.4	2.03	0.64	94.4	2.14	0.4	97.2	3.33	0.4	97.2	3.42
		50	8.42	1.06	**0.88**	94.4	1.19	0.59	100.0	2.39	**0.88**	94.4	1.19	0.73	97.2	1.81	0.76	97.2	1.67	0.72	97.2	1.83
		70	11.92	1.0	0.88	94.4	1.14	0.61	97.2	2.11	**0.9**	97.2	1.17	0.81	100.0	1.5	0.88	97.2	1.19	0.87	100.0	1.33
		100	16.33	1.0	**0.88**	100.0	1.25	0.75	100.0	2.08	**0.88**	100.0	1.25	0.83	100.0	1.67	**0.88**	100.0	1.25	0.83	100.0	1.67
ROVERS	6.0	10	1.67	2.28	**0.63**	83.3	2.97	**0.63**	83.3	2.97	0.47	100.0	5.14	0.47	100.0	5.14	0.38	100.0	6.0	0.38	100.0	6.0
		30	3.67	1.31	**0.71**	80.6	1.69	0.7	83.3	1.81	0.53	83.3	2.36	0.53	83.3	2.36	0.35	94.4	4.08	0.35	94.4	4.08
		50	5.75	1.19	**0.73**	77.8	1.28	0.72	86.1	1.67	0.71	80.6	1.39	0.7	83.3	1.56	0.54	91.7	2.31	0.55	94.4	2.42
		70	8.17	1.0	**0.8**	86.1	1.14	0.77	97.2	1.5	0.77	86.1	1.19	0.77	91.7	1.33	0.7	86.1	1.42	0.68	86.1	1.47
		100	10.83	1.0	**0.96**	100.0	1.08	0.9	100.0	1.25	**0.96**	100.0	1.08	0.9	100.0	1.25	0.92	100.0	1.17	0.88	100.0	1.25
SATELLITE	6.0	10	1.42	3.53	**0.81**	94.4	3.89	**0.81**	94.4	3.89	0.63	100.0	5.69	0.63	100.0	5.69	0.59	100.0	6.0	0.59	100.0	6.0
		30	3.42	2.39	**0.78**	83.3	2.44	0.76	83.3	2.72	0.61	91.7	3.61	0.6	91.7	3.67	0.44	100.0	5.39	0.44	100.0	5.39
		50	5.75	1.58	**0.71**	83.3	2.0	0.63	91.7	3.03	0.7	88.9	2.11	0.67	91.7	2.42	0.56	91.7	2.86	0.56	91.7	2.86
		70	8.08	1.31	**0.76**	91.7	1.64	0.59	91.7	2.61	0.75	97.2	1.83	0.68	97.2	2.31	0.69	97.2	2.11	0.66	97.2	2.39
		100	10.75	1.25	0.79	91.7	1.42	0.69	91.7	1.83	**0.83**	91.7	1.5	0.79	91.7	1.67	0.76	83.3	1.58	0.68	75.0	1.5
SOKOBAN	8.7	10	2.33	2.11	**0.35**	52.8	2.78	0.33	69.4	4.03	0.34	63.9	4.0	0.34	72.2	4.36	0.27	86.1	6.67	0.27	88.9	6.81
		30	6.5	1.25	**0.61**	75.0	1.53	0.47	91.7	3.25	**0.61**	75.0	1.47	0.51	88.9	2.89	0.56	75.0	1.69	0.52	77.8	2.17
		50	10.33	1.22	0.61	88.9	2.72	0.42	94.4	4.97	0.79	100.0	2.08	0.57	100.0	3.78	**0.82**	88.9	1.39	0.65	94.4	2.83
		70	14.67	1.03	0.65	94.4	3.44	0.5	100.0	4.56	0.78	97.2	2.33	0.59	100.0	3.39	**0.83**	94.4	1.92	0.69	100.0	2.78
		100	20.17	1.0	0.77	91.7	2.5	0.64	100.0	3.75	**0.92**	91.7	1.0	0.82	100.0	1.83	0.88	91.7	1.08	0.78	100.0	1.83
Avg					**0.75**	89.17	2.18	0.68	93.75	3.12	0.72	92.78	2.88	0.67	95.22	3.35	0.62	94.44	3.84	0.6	95.54	4.06

Table 1: Results for each filtering k, with optimal observations. F0 for no filter, F1 for $k = 1$ and F2 for $k = 2$.

Observation Filters - Suboptimal, Noisy

					δ_{HC}F0			δ_{HCU}F0			δ_{HC}F1			δ_{HCU}F1			δ_{HC}F2			δ_{HCU}F2		
#	$\lvert\Gamma\rvert$	% Obs	$\lvert\Omega\rvert$	$\lvert\Gamma^*\rvert$	AGR	ACC	$\lvert\Gamma^{\mathbf{h}}\rvert$	AGR	ACC	$\lvert\Gamma^{\mathbf{h}}\rvert$	AGR	ACC	$\lvert\Gamma^{\mathbf{h}}\rvert$	AGR	ACC	$\lvert\Gamma^{\mathbf{h}}\rvert$	AGR	ACC	$\lvert\Gamma^{\mathbf{h}}\rvert$	AGR	ACC	$\lvert\Gamma^{\mathbf{h}}\rvert$
BLOCKS	20.3	10	1.42	7.61	**0.4**	77.8	8.11	**0.4**	80.6	8.83	**0.4**	94.4	15.61	**0.4**	94.4	15.61	0.37	100.0	20.33	0.37	100.0	20.33
		30	3.83	3.58	0.38	63.9	3.17	0.34	91.7	9.31	0.39	69.4	3.69	0.33	75.0	7.11	**0.45**	86.1	7.33	0.43	86.1	7.53
		50	5.92	3.19	0.49	80.6	3.22	0.3	100.0	9.33	0.49	80.6	3.25	0.36	86.1	6.31	**0.51**	86.1	4.19	0.45	86.1	5.28
		70	8.5	2.53	**0.51**	69.4	2.11	0.35	100.0	9.11	**0.51**	69.4	2.11	0.44	94.4	6.86	0.5	72.2	2.42	0.38	77.8	5.5
		100	11.83	2.25	**0.66**	91.7	2.08	0.58	100.0	3.67	**0.66**	91.7	2.08	0.57	91.7	2.83	0.65	91.7	2.17	0.64	100.0	3.0
IPC-GRID	7.5	10	2.06	1.58	**0.64**	87.5	2.29	0.6	91.7	3.02	0.53	91.7	3.27	0.53	91.7	3.27	0.31	100.0	6.29	0.31	100.0	6.29
		30	5.56	1.4	0.81	100.0	1.4	0.73	100.0	2.04	**0.83**	100.0	1.35	0.78	100.0	1.52	0.78	97.9	1.5	0.76	97.9	1.54
		50	8.88	1.35	**0.79**	91.7	1.17	0.75	100.0	1.73	0.78	91.7	1.19	0.77	100.0	1.69	0.76	89.6	1.19	0.78	97.9	1.44
		70	12.56	1.31	**0.87**	100.0	1.1	0.75	100.0	1.44	**0.87**	100.0	1.1	0.75	100.0	1.44	**0.87**	100.0	1.1	0.77	100.0	1.35
		100	17.25	1.5	**0.88**	100.0	1.13	0.74	100.0	1.5	**0.88**	100.0	1.13	0.62	87.5	1.38	**0.88**	100.0	1.13	0.77	100.0	1.44
LOGISTICS	10.0	10	2.67	2.0	**0.79**	100.0	3.33	0.75	100.0	3.72	0.52	100.0	5.42	0.51	100.0	5.5	0.28	100.0	8.14	0.28	100.0	8.14
		30	7.5	1.14	**0.83**	100.0	1.56	0.67	100.0	3.11	0.76	100.0	1.75	0.63	100.0	2.94	0.68	100.0	2.39	0.58	100.0	3.25
		50	11.92	1.06	0.79	94.4	1.47	0.68	100.0	2.44	0.8	97.2	1.5	0.68	100.0	2.44	**0.81**	100.0	1.56	0.69	100.0	2.08
		70	16.67	1.03	**0.94**	100.0	1.17	0.82	100.0	1.56	**0.94**	100.0	1.17	0.82	100.0	1.56	**0.94**	100.0	1.17	0.82	100.0	1.53
		100	23.17	1.0	**1.0**	100.0	1.0	0.9	100.0	1.25	**1.0**	100.0	1.0	0.9	100.0	1.25	**1.0**	100.0	1.0	0.9	100.0	1.25
MICONIC	6.0	10	3.0	1.83	**0.69**	91.7	2.83	0.65	94.4	3.28	0.5	94.4	3.97	0.5	94.4	3.97	0.34	100.0	5.44	0.34	100.0	5.44
		30	7.67	1.25	**0.69**	88.9	1.58	0.43	100.0	3.78	0.64	86.1	1.69	0.58	94.4	2.78	0.66	83.3	1.67	0.63	88.9	2.0
		50	12.25	1.03	0.79	86.1	1.17	0.5	100.0	3.14	**0.81**	88.9	1.19	0.57	97.2	2.5	**0.81**	91.7	1.25	0.64	94.4	2.06
		70	17.33	1.0	0.81	88.9	1.19	0.37	100.0	3.5	0.82	88.9	1.17	0.51	100.0	2.81	**0.85**	91.7	1.17	0.59	100.0	2.33
		100	24.0	1.0	**0.92**	91.7	1.0	0.57	100.0	2.83	**0.92**	91.7	1.0	0.66	100.0	2.17	**0.92**	91.7	1.0	0.76	100.0	1.58
ROVERS	6.0	10	1.83	2.39	0.73	80.6	3.0	**0.74**	83.3	3.03	0.52	94.4	4.64	0.52	94.4	4.64	0.4	100.0	6.0	0.4	100.0	6.0
		30	4.5	1.39	**0.82**	83.3	1.39	0.66	86.1	2.28	0.66	86.1	2.08	0.62	86.1	2.33	0.49	100.0	3.61	0.49	100.0	3.61
		50	7.17	1.11	**0.72**	77.8	1.28	0.61	86.1	2.06	0.7	75.0	1.28	0.62	83.3	1.83	0.71	86.1	1.56	0.67	86.1	1.72
		70	10.0	1.06	**0.81**	86.1	1.22	0.64	97.2	2.33	0.79	86.1	1.31	0.69	97.2	2.11	0.78	86.1	1.31	0.73	94.4	1.81
		100	13.67	1.0	**0.88**	91.7	1.08	0.83	100.0	1.58	**0.88**	91.7	1.08	0.83	100.0	1.58	**0.88**	91.7	1.08	0.83	100.0	1.58
SATELLITE	6.0	10	2.0	3.25	0.74	88.9	3.86	**0.75**	88.9	3.89	0.61	94.4	4.86	0.61	94.4	4.86	0.54	100.0	6.0	0.54	100.0	6.0
		30	4.33	1.78	**0.61**	77.8	2.33	0.6	91.7	3.36	0.58	80.6	2.61	0.57	86.1	3.0	0.42	88.9	3.97	0.41	88.9	4.03
		50	6.75	1.36	0.7	86.1	1.83	0.54	94.4	3.33	**0.74**	86.1	1.69	0.63	94.4	2.53	0.63	94.4	2.36	0.62	94.4	2.5
		70	9.42	1.33	0.67	91.7	2.08	0.55	100.0	3.53	0.71	91.7	1.97	0.58	97.2	3.08	**0.72**	91.7	1.89	0.69	91.7	2.17
		100	12.75	1.25	**0.92**	100.0	1.42	0.73	100.0	2.5	**0.92**	100.0	1.42	0.67	91.7	2.08	**0.92**	100.0	1.42	0.86	100.0	1.67
SOKOBAN	8.7	10	3.33	1.83	**0.41**	52.8	1.92	0.35	69.4	3.67	0.39	55.6	2.19	0.35	55.6	2.81	0.35	77.8	4.22	0.35	77.8	4.22
		30	8.67	1.28	0.64	80.6	2.14	0.4	97.2	5.19	**0.66**	75.0	1.36	0.45	94.4	4.03	**0.66**	77.8	1.5	0.46	91.7	3.72
		50	13.75	1.33	0.54	75.0	2.08	0.38	88.9	4.69	0.65	83.3	1.67	0.43	97.2	4.39	**0.71**	88.9	1.53	0.47	100.0	4.08
		70	19.33	1.36	0.5	88.9	4.0	0.27	94.4	6.0	0.6	88.9	2.97	0.34	94.4	5.11	**0.69**	83.3	1.44	0.41	91.7	3.89
		100	27.0	1.33	0.47	91.7	4.67	0.33	91.7	5.67	0.72	100.0	2.75	0.52	100.0	4.33	**0.79**	100.0	2.17	0.61	100.0	3.17
Avg					**0.71**	87.34	2.18	0.58	95.08	3.76	0.69	89.29	2.53	0.58	93.53	3.56	0.66	92.82	3.21	0.58	95.6	3.82

Table 2: Results for each filtering k, with suboptimal observations. F0 for no filter, F1 for $k = 1$ and F2 for $k = 2$.