Constraints (single) - Optimal, Noisy

					δ_{HC}(L)			δ_{HCU}(L)			δ_{HC}(P)			δ_{HCU}(P)			δ_{HC}(S)			δ_{HCU}(S)		
#	$\lvert\Gamma\rvert$	% 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	0.42	91.7	10.61	0.42	91.7	10.61	0.41	88.9	8.22	0.41	88.9	8.22	**0.44**	88.9	8.58	**0.44**	88.9	8.58
		30	3.08	3.97	0.3	80.6	4.47	0.3	83.3	7.75	0.34	61.1	3.83	0.34	61.1	3.83	**0.39**	75.0	3.61	**0.39**	86.1	7.64
		50	4.42	2.5	0.34	69.4	3.11	0.33	80.6	5.72	0.32	50.0	3.53	0.32	52.8	3.89	**0.43**	77.8	3.67	0.34	94.4	9.42
		70	6.67	1.94	0.56	77.8	2.25	0.52	88.9	4.53	0.47	80.6	3.67	0.46	83.3	4.03	**0.68**	91.7	2.36	0.47	94.4	5.64
		100	8.83	1.83	0.59	75.0	1.75	0.62	91.7	3.5	0.51	75.0	3.5	0.51	75.0	3.5	0.64	83.3	1.92	**0.65**	100.0	4.25
IPC-GRID	7.5	10	1.63	2.71	**0.84**	95.8	3.17	**0.84**	95.8	3.17	0.4	97.9	7.06	0.4	97.9	7.06	0.61	79.2	3.48	0.61	79.2	3.48
		30	4.0	1.21	**0.91**	100.0	1.42	0.86	100.0	1.77	0.25	100.0	6.81	0.25	100.0	6.81	0.68	89.6	1.81	0.63	95.8	2.77
		50	6.19	1.13	**0.88**	95.8	1.35	0.86	97.9	1.54	0.23	93.8	6.63	0.23	93.8	6.63	0.76	87.5	1.48	0.74	93.8	2.02
		70	8.69	1.04	**0.96**	97.9	1.08	0.94	100.0	1.27	0.31	81.3	5.33	0.31	81.3	5.33	0.88	95.8	1.21	0.79	100.0	1.85
		100	11.88	1.0	0.97	100.0	1.06	0.97	100.0	1.06	0.25	56.3	4.13	0.25	56.3	4.13	**1.0**	100.0	1.0	0.94	100.0	1.5
LOGISTICS	10.0	10	2.0	2.83	**0.75**	97.2	4.64	**0.75**	97.2	4.64	0.61	88.9	3.61	0.61	88.9	3.61	0.72	97.2	4.86	0.71	97.2	4.97
		30	5.75	1.19	**0.8**	100.0	1.94	0.67	100.0	2.92	0.5	91.7	2.64	0.44	100.0	3.86	0.69	100.0	2.36	0.44	100.0	5.06
		50	9.42	1.06	**0.88**	97.2	1.31	0.84	100.0	1.58	0.64	94.4	1.92	0.61	100.0	2.53	0.85	100.0	1.58	0.64	100.0	2.69
		70	13.25	1.03	**0.97**	100.0	1.08	0.89	100.0	1.33	0.7	100.0	1.72	0.68	100.0	2.08	0.94	100.0	1.14	0.7	100.0	2.14
		100	18.17	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0	0.69	100.0	1.67	0.69	100.0	1.67	0.96	100.0	1.08	0.88	100.0	1.25
MICONIC	6.0	10	2.0	2.53	**0.74**	97.2	3.56	**0.74**	97.2	3.56	0.6	100.0	4.42	0.6	100.0	4.42	0.69	100.0	4.08	0.67	100.0	4.19
		30	5.42	1.22	**0.62**	94.4	2.08	0.6	94.4	2.36	0.51	100.0	2.83	0.26	100.0	4.86	0.51	100.0	2.83	0.26	100.0	5.25
		50	8.42	1.06	**0.79**	97.2	1.47	0.61	97.2	2.31	0.69	100.0	1.81	0.4	100.0	3.72	0.69	100.0	1.81	0.26	100.0	5.08
		70	11.92	1.0	**0.85**	97.2	1.28	0.77	97.2	1.5	0.8	100.0	1.47	0.45	100.0	3.17	0.8	100.0	1.47	0.31	100.0	4.22
		100	16.33	1.0	0.88	100.0	1.25	0.86	100.0	1.33	**1.0**	100.0	1.0	0.66	100.0	2.25	**1.0**	100.0	1.0	0.43	100.0	3.42
ROVERS	6.0	10	1.67	2.28	**0.57**	75.0	2.92	**0.57**	75.0	2.92	0.54	91.7	4.31	0.54	91.7	4.31	0.51	94.4	4.64	0.51	100.0	4.94
		30	3.67	1.31	**0.7**	88.9	1.92	**0.7**	91.7	2.22	0.6	94.4	2.58	0.45	97.2	4.14	0.48	91.7	3.19	0.34	97.2	4.67
		50	5.75	1.19	**0.83**	91.7	1.42	**0.83**	94.4	1.67	0.75	94.4	1.75	0.53	94.4	2.86	0.64	100.0	2.44	0.4	100.0	4.33
		70	8.17	1.0	0.81	94.4	1.31	0.78	94.4	1.47	**0.82**	94.4	1.36	0.7	100.0	2.22	0.72	88.9	1.61	0.32	94.4	4.19
		100	10.83	1.0	**1.0**	100.0	1.0	**1.0**	100.0	1.0	0.94	100.0	1.25	0.85	100.0	1.42	0.85	100.0	1.42	0.55	100.0	3.17
SATELLITE	6.0	10	1.42	3.53	-	-	-	**0.8**	91.7	3.81	-	-	-	0.79	97.2	4.53	-	-	-	0.71	88.9	4.28
		30	3.42	2.39	-	-	-	**0.72**	91.7	3.14	-	-	-	0.65	100.0	4.08	-	-	-	0.52	97.2	4.78
		50	5.75	1.58	-	-	-	**0.71**	97.2	2.75	-	-	-	**0.71**	94.4	2.72	-	-	-	0.38	88.9	4.08
		70	8.08	1.31	-	-	-	0.66	94.4	2.44	-	-	-	**0.76**	100.0	2.36	-	-	-	0.43	100.0	3.86
		100	10.75	1.25	-	-	-	**0.79**	91.7	1.67	-	-	-	0.78	91.7	1.83	-	-	-	0.52	91.7	2.75
SOKOBAN	8.7	10	2.33	2.11	0.3	72.2	5.08	0.3	72.2	5.08	0.24	91.7	7.58	0.24	91.7	7.58	**0.32**	47.2	2.47	0.28	58.3	4.14
		30	6.5	1.25	0.39	72.2	2.67	0.35	80.6	3.53	0.14	63.9	5.0	0.14	63.9	5.0	**0.48**	66.7	1.72	0.47	97.2	4.08
		50	10.33	1.22	0.36	63.9	1.81	0.34	83.3	3.42	0.21	52.8	3.17	0.22	58.3	3.31	**0.52**	72.2	2.67	0.35	94.4	5.78
		70	14.67	1.03	0.51	66.7	1.56	0.47	91.7	3.25	0.21	30.6	1.72	0.21	30.6	1.72	**0.56**	86.1	3.44	0.42	100.0	4.97
		100	20.17	1.0	**0.68**	83.3	1.58	0.62	83.3	1.83	0.21	33.3	1.83	0.21	33.3	1.83	0.64	83.3	2.58	0.45	100.0	4.25
Avg					0.61	76.37	2.03	**0.69**	92.76	2.96	0.43	71.63	3.04	0.48	86.39	3.87	0.57	77.04	2.22	0.51	95.38	4.28

Table 1: Results for each contraint set, for optimal observations. L for Landmarks, P for Post-hoc, and S for State equation.

Constraints (single) - Suboptimal, Noisy

					δ_{HC}(L)			δ_{HCU}(L)			δ_{HC}(P)			δ_{HCU}(P)			δ_{HC}(S)			δ_{HCU}(S)		
#	$\lvert\Gamma\rvert$	% 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	86.1	9.92	0.4	86.1	9.92	0.31	86.1	8.89	0.31	86.1	8.89	**0.42**	83.3	9.08	**0.42**	83.3	9.25
		30	3.83	3.58	0.36	80.6	4.92	0.28	86.1	9.0	0.33	63.9	4.72	0.33	66.7	4.97	**0.4**	75.0	4.31	0.31	94.4	9.56
		50	5.92	3.19	0.33	66.7	3.44	0.32	77.8	7.03	0.4	66.7	3.53	0.4	66.7	3.53	**0.47**	86.1	4.17	0.27	94.4	9.64
		70	8.5	2.53	0.38	69.4	2.83	0.36	86.1	5.36	0.44	66.7	2.72	0.42	66.7	2.97	**0.48**	72.2	2.33	0.32	100.0	9.39
		100	11.83	2.25	0.44	66.7	2.0	0.56	100.0	4.08	0.49	66.7	2.25	0.47	75.0	3.33	**0.58**	75.0	1.92	**0.58**	100.0	3.67
IPC-GRID	7.5	10	2.06	1.58	**0.69**	95.8	2.75	0.65	95.8	3.25	0.25	97.9	7.15	0.25	97.9	7.15	0.5	85.4	3.4	0.47	87.5	4.02
		30	5.56	1.4	**0.86**	100.0	1.33	0.77	100.0	2.31	0.22	91.7	6.81	0.22	91.7	6.81	0.69	89.6	1.77	0.61	93.8	3.25
		50	8.88	1.35	**0.85**	97.9	1.25	0.75	100.0	1.83	0.31	81.3	5.6	0.31	81.3	5.6	0.71	97.9	1.69	0.53	97.9	3.08
		70	12.56	1.31	**0.86**	97.9	1.13	0.81	100.0	1.44	0.21	47.9	4.31	0.21	47.9	4.31	0.79	95.8	1.25	0.61	100.0	2.73
		100	17.25	1.5	**0.91**	100.0	1.06	0.82	100.0	1.25	0.07	6.3	1.88	0.07	6.3	1.88	0.85	93.8	1.06	0.69	93.8	1.69
LOGISTICS	10.0	10	2.67	2.0	**0.73**	100.0	3.78	**0.73**	100.0	3.78	0.69	97.2	3.53	0.68	97.2	3.58	0.72	100.0	3.86	0.61	100.0	5.22
		30	7.5	1.14	**0.86**	97.2	1.44	0.71	100.0	2.53	0.66	94.4	1.97	0.63	100.0	2.33	0.74	100.0	2.03	0.5	100.0	4.44
		50	11.92	1.06	**0.88**	100.0	1.33	0.7	100.0	2.11	0.69	100.0	1.75	0.68	100.0	1.92	0.79	100.0	1.72	0.47	100.0	4.22
		70	16.67	1.03	**0.98**	100.0	1.08	0.85	100.0	1.39	0.71	100.0	1.67	0.69	100.0	1.69	0.91	100.0	1.22	0.7	100.0	2.36
		100	23.17	1.0	**1.0**	100.0	1.0	0.96	100.0	1.08	0.69	100.0	1.67	0.69	100.0	1.67	0.96	100.0	1.08	0.76	100.0	1.67
MICONIC	6.0	10	3.0	1.83	**0.61**	94.4	3.25	**0.61**	94.4	3.33	0.48	100.0	4.36	0.42	100.0	5.17	0.48	100.0	4.36	0.39	100.0	5.31
		30	7.67	1.25	**0.61**	83.3	1.67	0.44	97.2	3.36	0.5	97.2	2.86	0.28	100.0	5.39	0.5	97.2	2.86	0.24	100.0	5.72
		50	12.25	1.03	0.74	86.1	1.31	0.53	94.4	2.5	**0.78**	100.0	1.61	0.25	100.0	4.89	**0.78**	100.0	1.61	0.22	100.0	5.33
		70	17.33	1.0	**0.81**	88.9	1.25	0.63	94.4	2.08	0.76	97.2	1.5	0.37	100.0	3.75	0.75	97.2	1.53	0.21	100.0	5.25
		100	24.0	1.0	0.92	91.7	1.0	0.94	100.0	1.17	**0.96**	100.0	1.08	0.89	100.0	1.42	**0.96**	100.0	1.08	0.31	100.0	4.42
ROVERS	6.0	10	1.83	2.39	**0.72**	94.4	3.33	**0.72**	94.4	3.33	0.59	97.2	4.53	0.59	97.2	4.53	0.54	97.2	4.75	0.5	97.2	5.06
		30	4.5	1.39	**0.75**	88.9	1.64	0.66	91.7	2.33	0.64	88.9	2.25	0.47	97.2	4.17	0.56	86.1	2.64	0.37	97.2	4.78
		50	7.17	1.11	**0.78**	91.7	1.42	0.69	91.7	2.0	0.67	88.9	1.81	0.35	97.2	3.89	0.53	88.9	2.64	0.28	100.0	5.14
		70	10.0	1.06	**0.9**	100.0	1.36	0.75	100.0	1.97	0.82	100.0	1.58	0.55	100.0	2.86	0.74	97.2	1.81	0.33	100.0	4.75
		100	13.67	1.0	**1.0**	100.0	1.0	0.94	100.0	1.25	**1.0**	100.0	1.0	0.9	100.0	1.33	0.9	100.0	1.33	0.61	100.0	2.92
SATELLITE	6.0	10	2.0	3.25	-	-	-	0.72	91.7	4.19	-	-	-	**0.73**	100.0	4.72	-	-	-	0.65	100.0	5.14
		30	4.33	1.78	-	-	-	**0.54**	91.7	3.78	-	-	-	0.52	97.2	4.19	-	-	-	0.37	91.7	5.0
		50	6.75	1.36	-	-	-	**0.64**	100.0	2.78	-	-	-	0.58	97.2	3.17	-	-	-	0.32	100.0	5.0
		70	9.42	1.33	-	-	-	**0.68**	97.2	2.61	-	-	-	0.6	100.0	3.19	-	-	-	0.41	100.0	4.31
		100	12.75	1.25	-	-	-	**0.81**	100.0	1.83	-	-	-	0.75	100.0	2.08	-	-	-	0.42	100.0	4.08
SOKOBAN	8.7	10	3.33	1.83	0.27	58.3	3.81	0.27	61.1	4.06	0.24	91.7	6.78	0.24	91.7	6.78	**0.37**	47.2	1.94	0.36	72.2	3.97
		30	8.67	1.28	0.37	72.2	2.53	0.28	86.1	5.11	0.13	41.7	2.97	0.13	41.7	2.97	**0.58**	72.2	2.19	0.35	97.2	5.56
		50	13.75	1.33	0.4	55.6	1.61	0.38	91.7	4.67	0.16	19.4	1.39	0.16	30.6	1.78	**0.54**	63.9	2.0	0.32	83.3	4.83
		70	19.33	1.36	0.43	63.9	1.72	0.37	80.6	3.89	0.17	22.2	1.44	0.16	22.2	1.61	**0.44**	83.3	3.97	0.25	94.4	6.53
		100	27.0	1.33	**0.74**	83.3	1.17	0.61	100.0	3.0	0.13	16.7	1.75	0.15	16.7	1.83	0.47	83.3	4.67	0.3	91.7	6.17
Avg					0.59	74.6	1.92	**0.63**	94.01	3.3	0.41	66.51	2.72	0.44	82.06	3.72	0.55	76.23	2.29	0.43	96.29	4.96

Table 2: Results for each contraint set, for suboptimal observations. L for Landmarks, P for Post-hoc, and S for State equation.