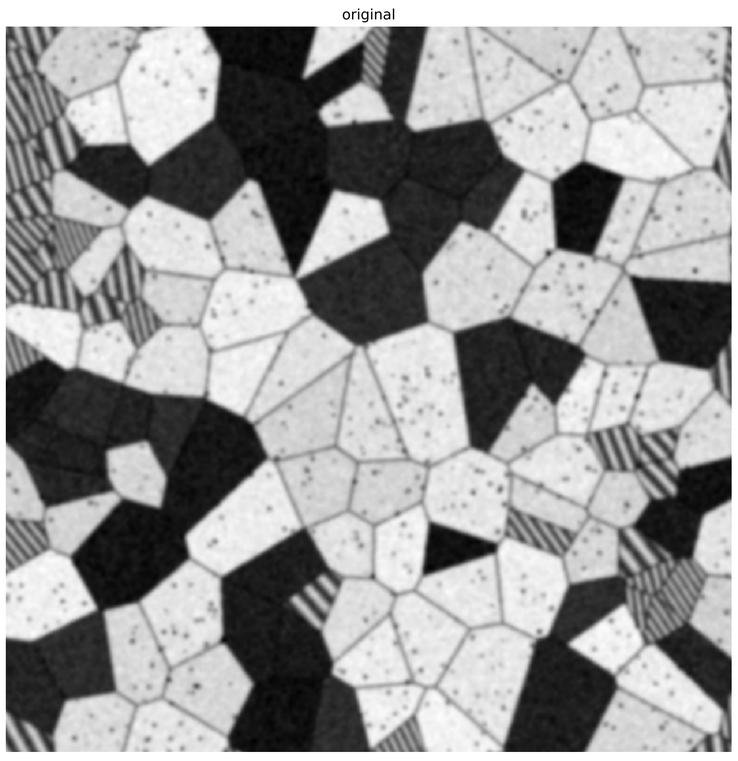
data/base microstructure/image_0.png

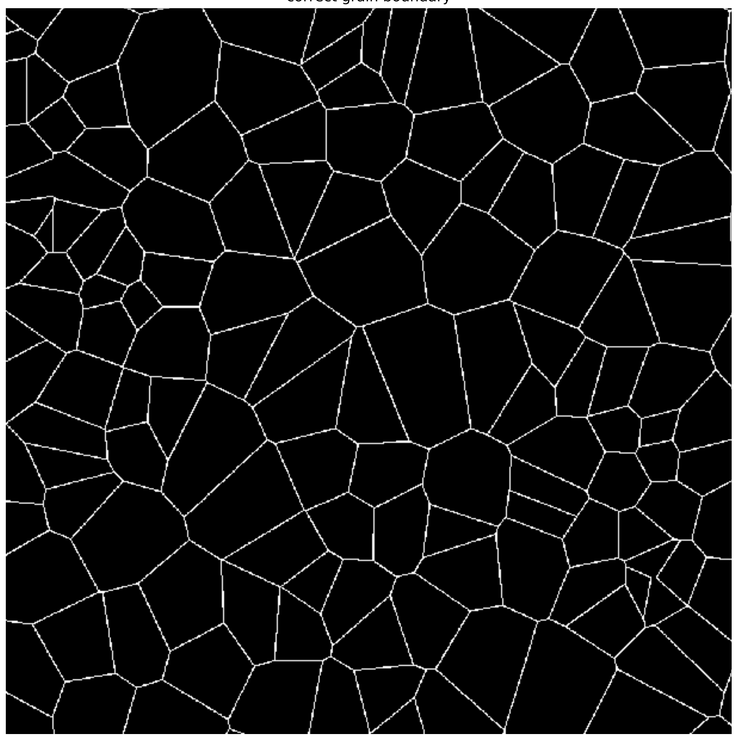
original



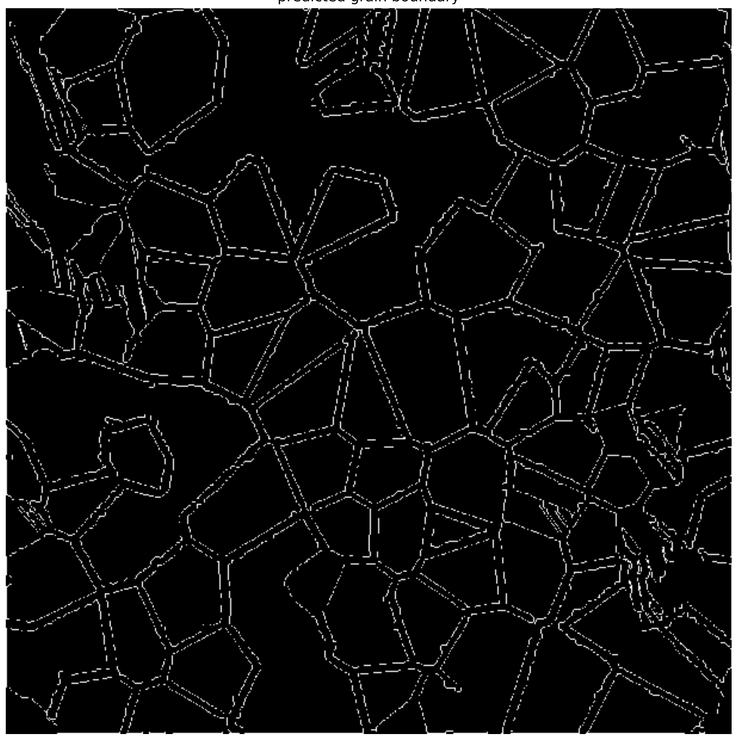
metrics

metric	correct	predicted	error
dark frac	0.311	0.300	1.096%
white frac	0.604	0.563	4.120%
line frac	0.085	0.060	2.472%
ave grain diameter	90.270	86.350	4.342%

correct grain boundary



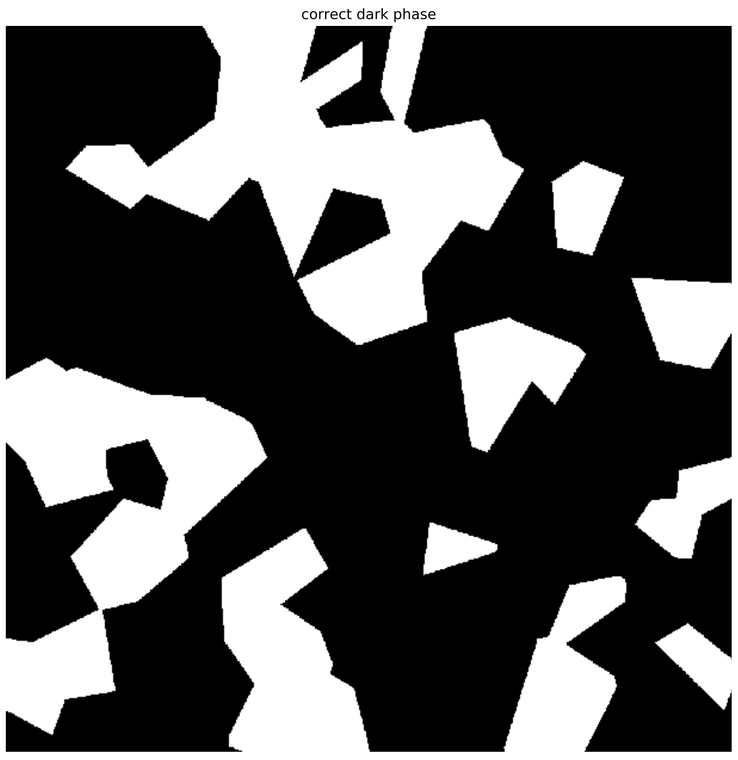
predicted grain boundary



correct line phase

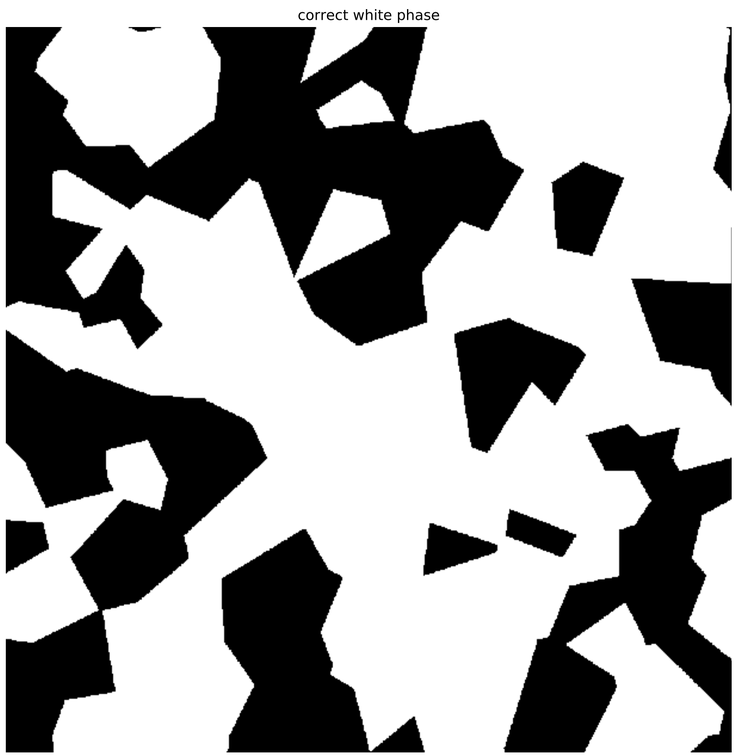
predicted line phase

correct dark phase



predicted dark phase

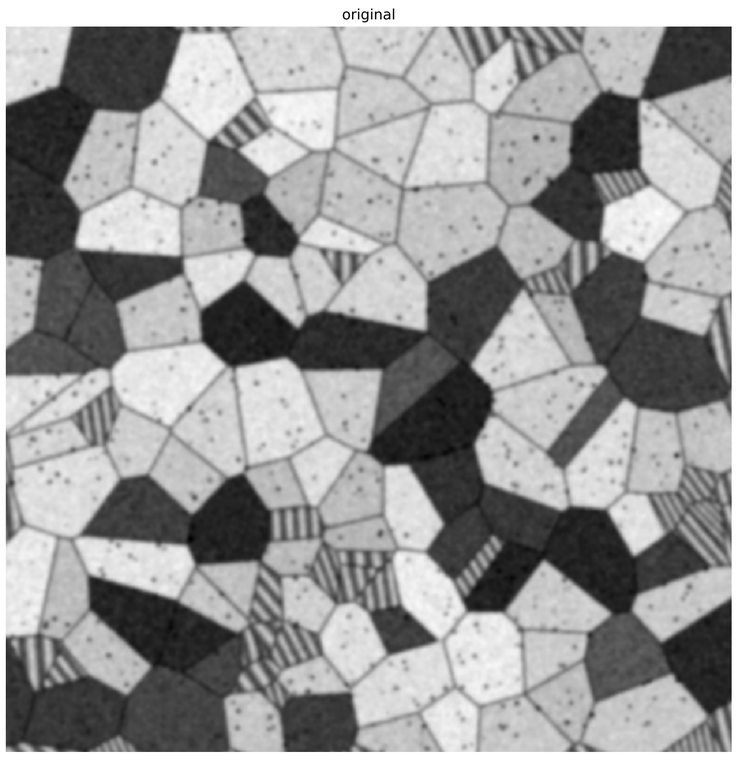
correct white phase



predicted white phase

data/base microstructure/image_1.png

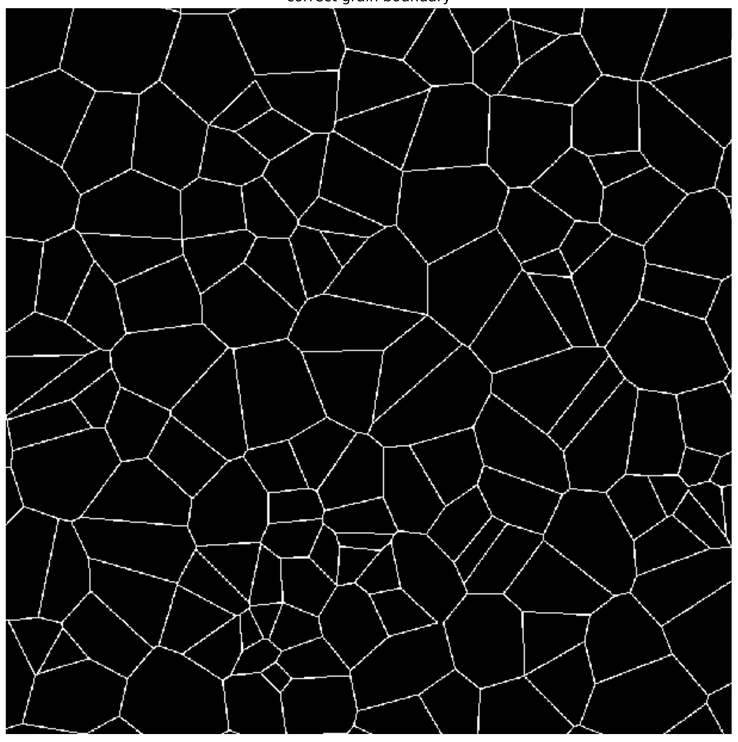
original



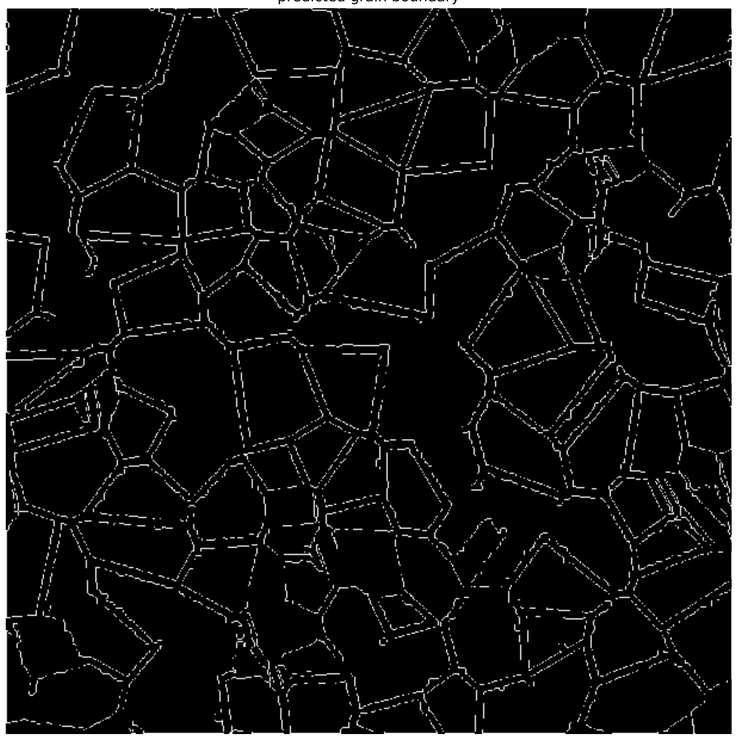
metrics

metric	correct	predicted	error
dark frac	0.315	0.309	0.578%
white frac	0.609	0.557	5.255%
line frac	0.076	0.048	2.736%
ave grain diameter	88.078	82.655	6.157%

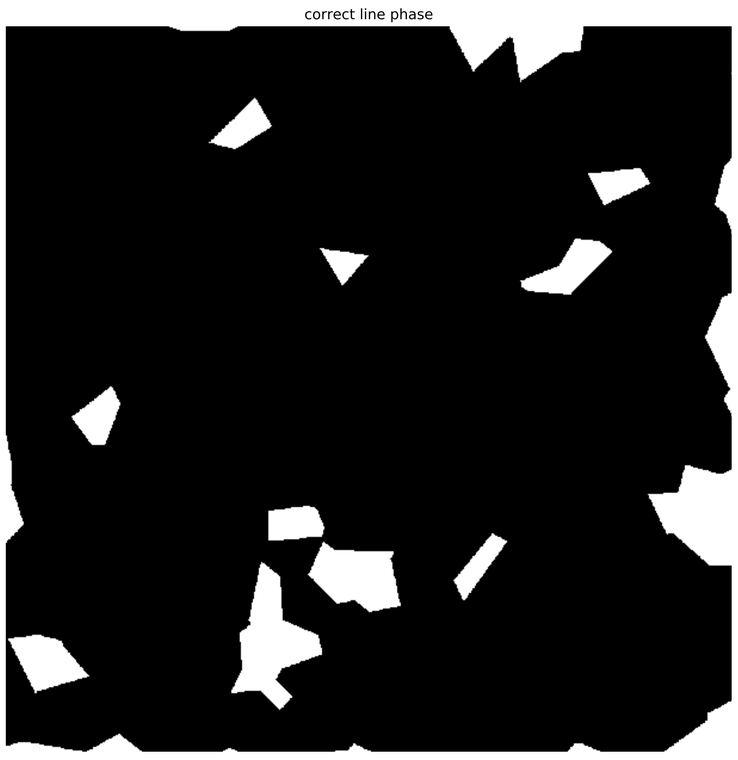
correct grain boundary



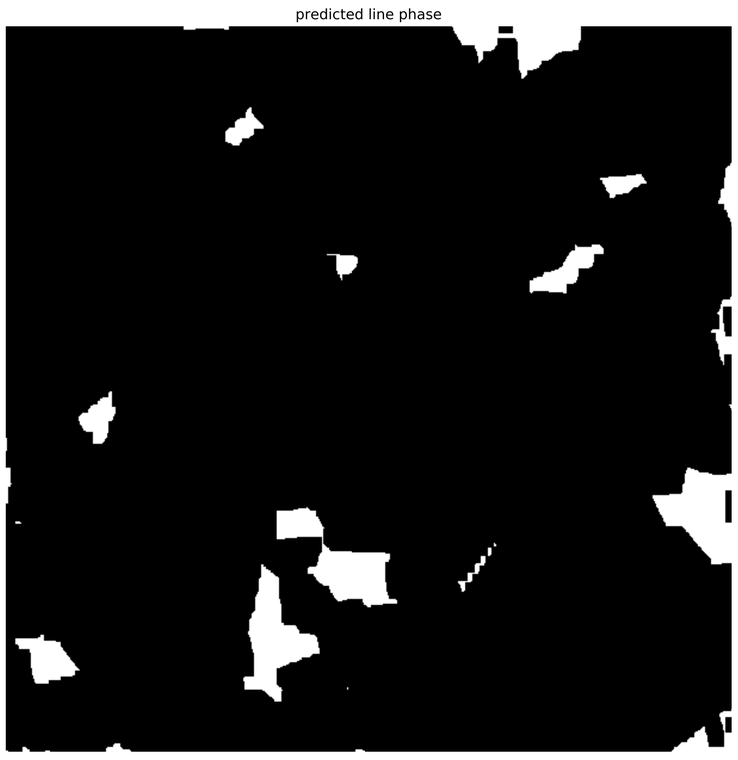
predicted grain boundary



correct line phase



predicted line phase



correct dark phase

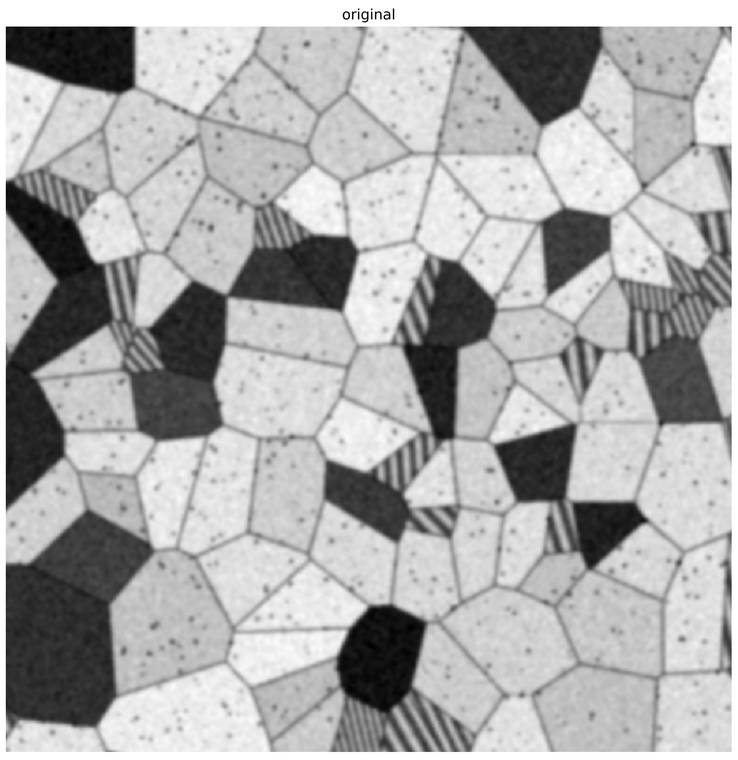
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_10.png

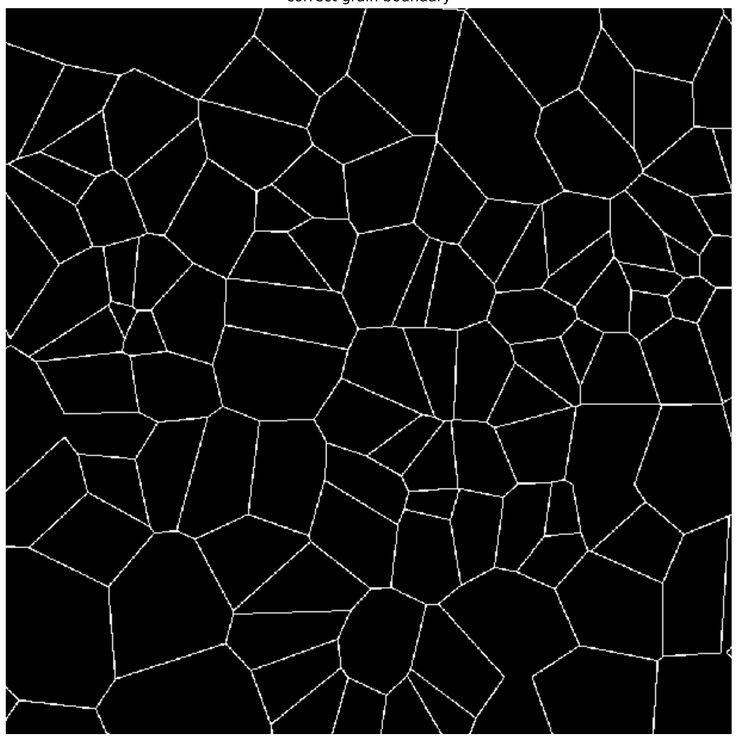
original



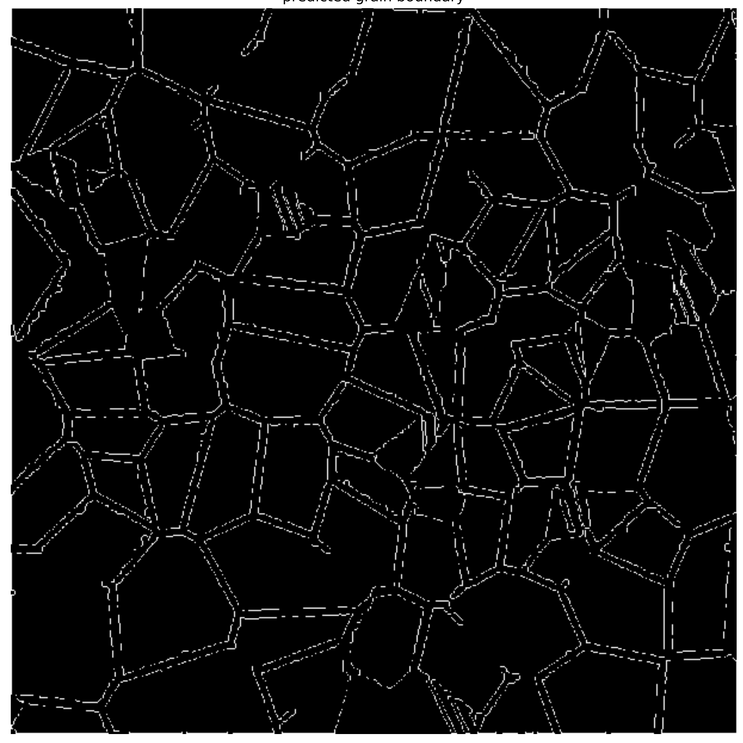
metrics

metric	correct	predicted	error
dark frac	0.195	0.191	0.403%
white frac	0.744	0.711	3.288%
line frac	0.061	0.038	2.291%
ave grain diameter	100.288	103.992	3.693%

correct grain boundary

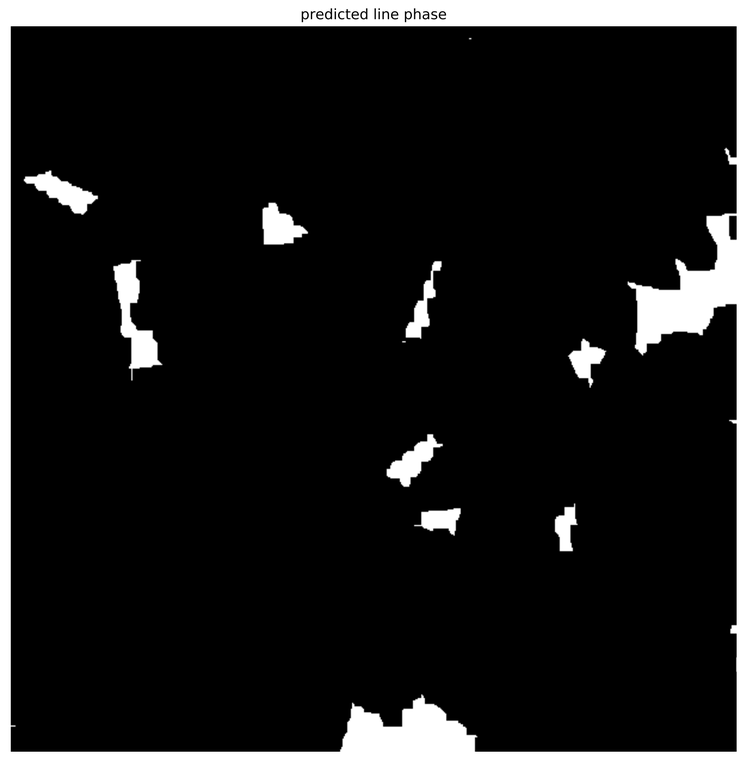


predicted grain boundary



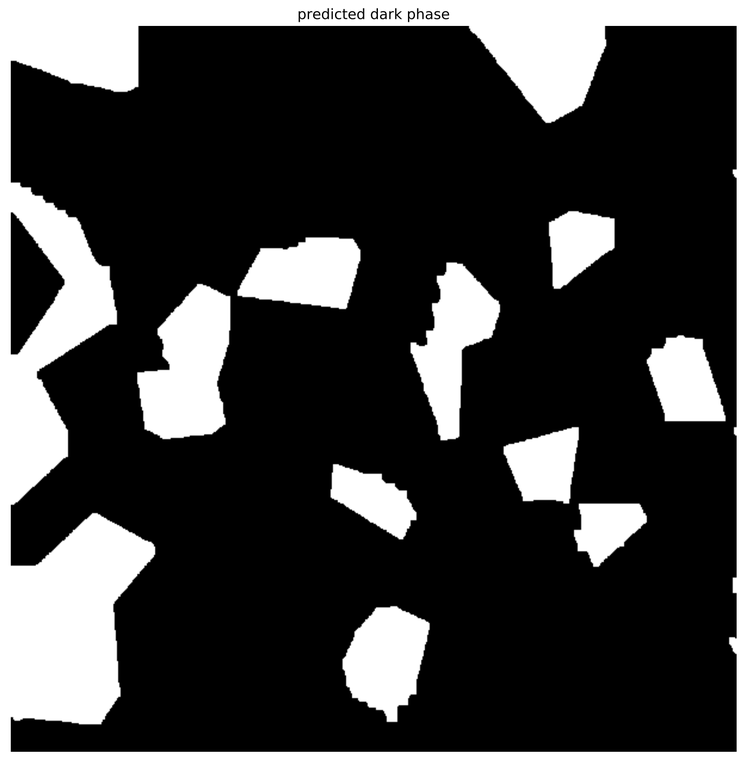
correct line phase

predicted line phase

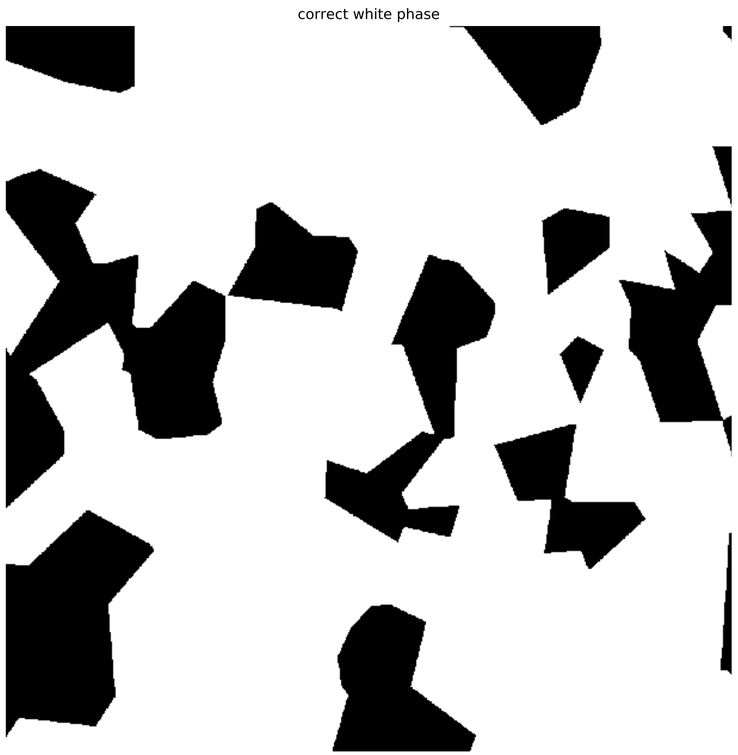


correct dark phase

predicted dark phase



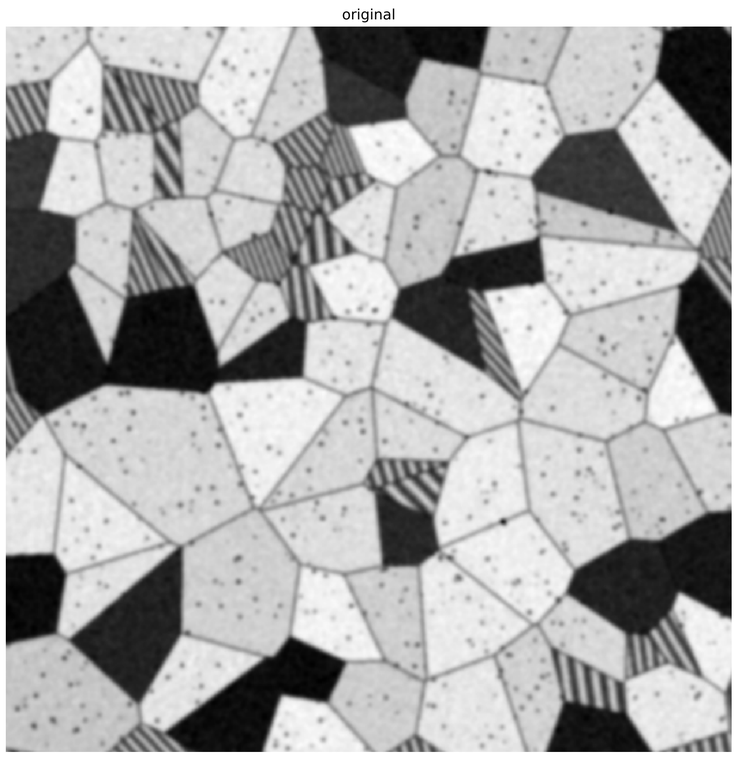
correct white phase



predicted white phase

data/base microstructure/image_100.png

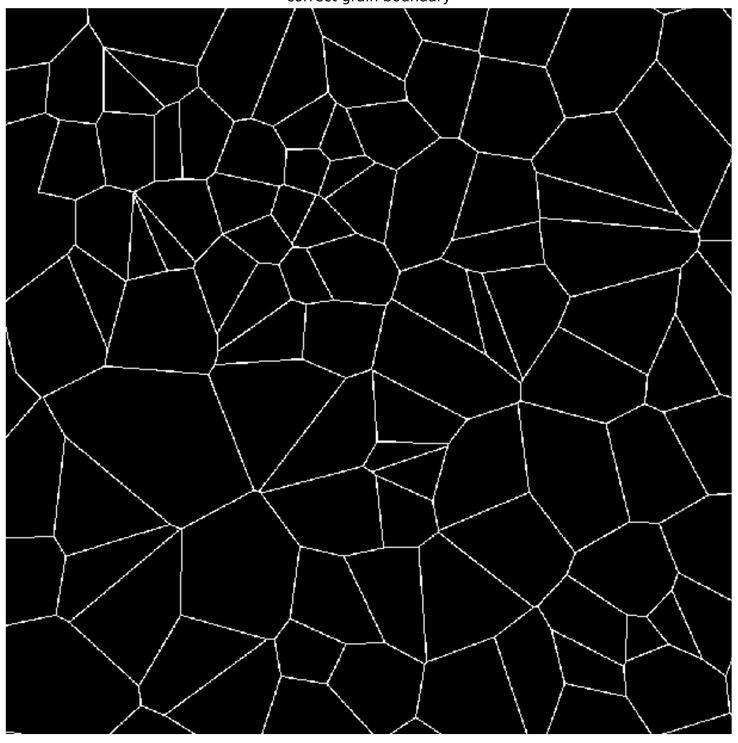
original



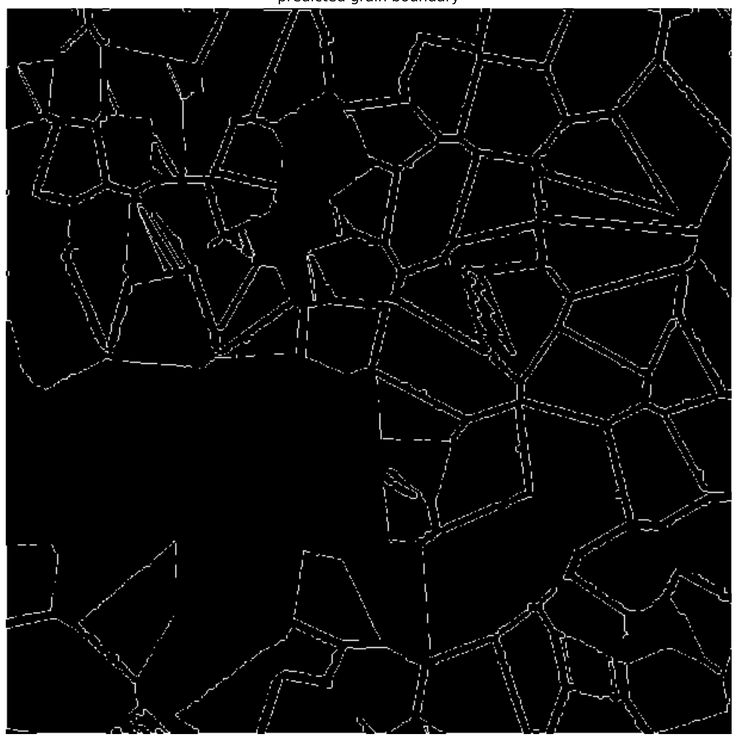
metrics

metric	correct	predicted	error
dark frac	0.211	0.204	0.716%
white frac	0.707	0.673	3.386%
line frac	0.082	0.058	2.402%
ave grain diameter	104.258	98.373	5.645%

correct grain boundary



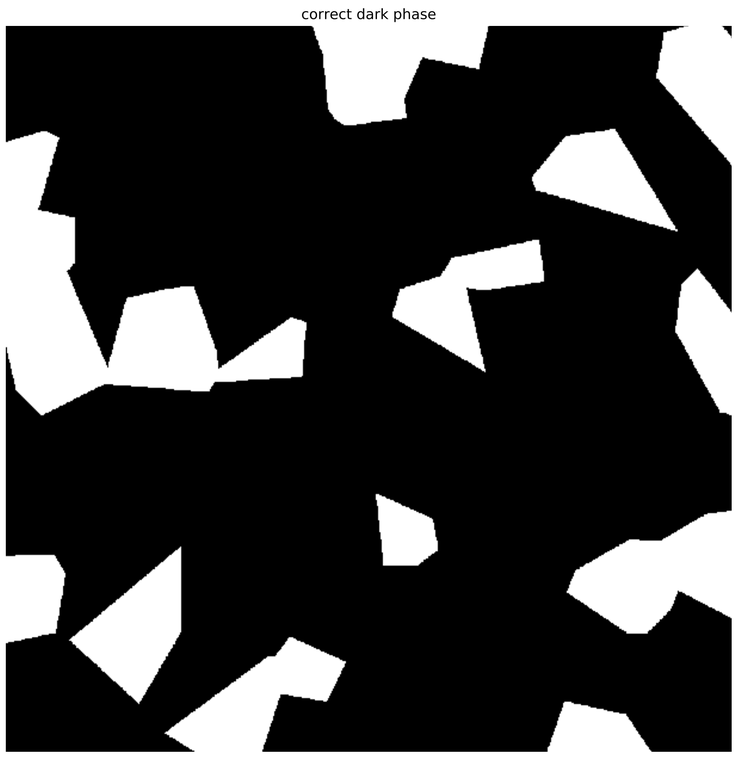
predicted grain boundary



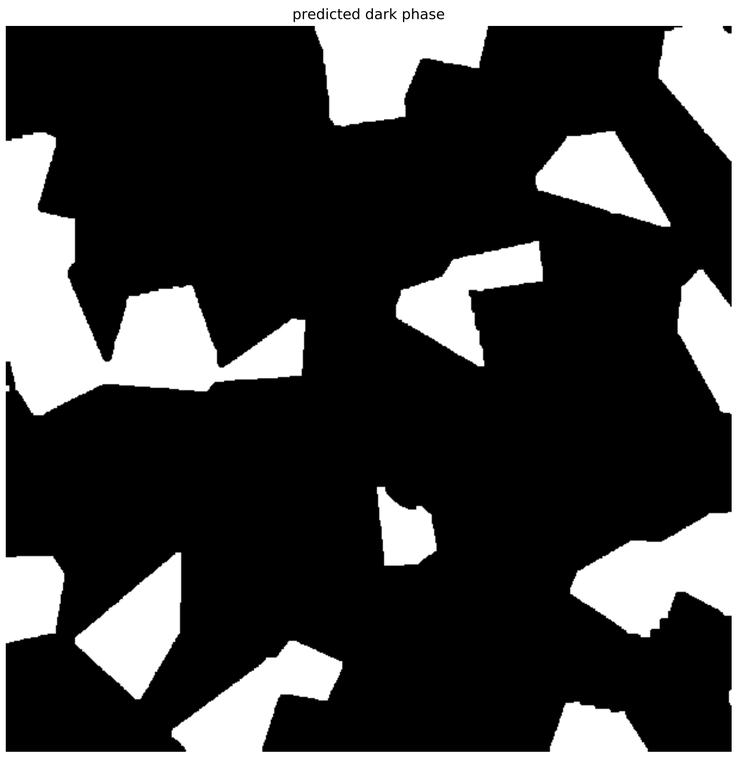
correct line phase

predicted line phase

correct dark phase



predicted dark phase

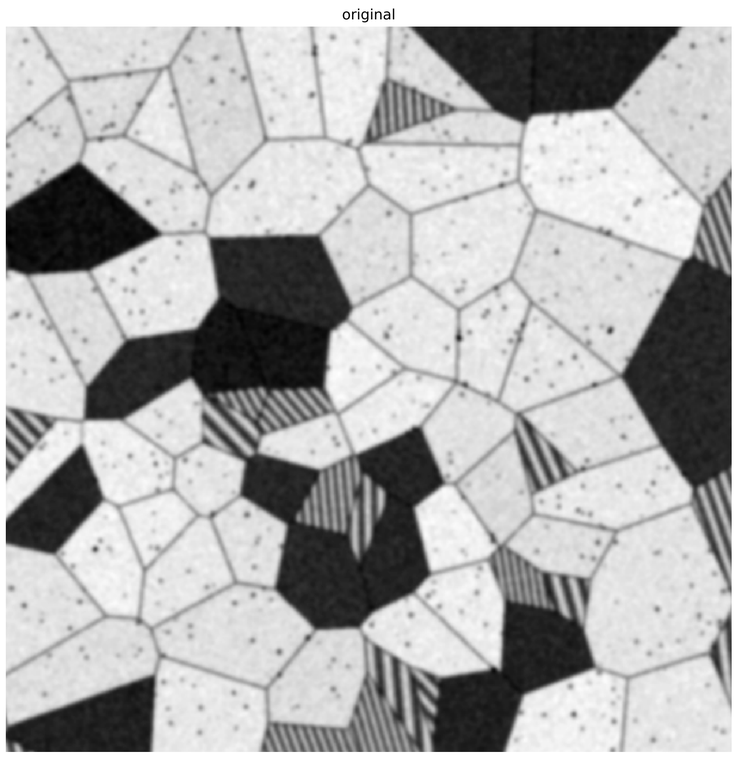


correct white phase

predicted white phase

data/base microstructure/image_101.png

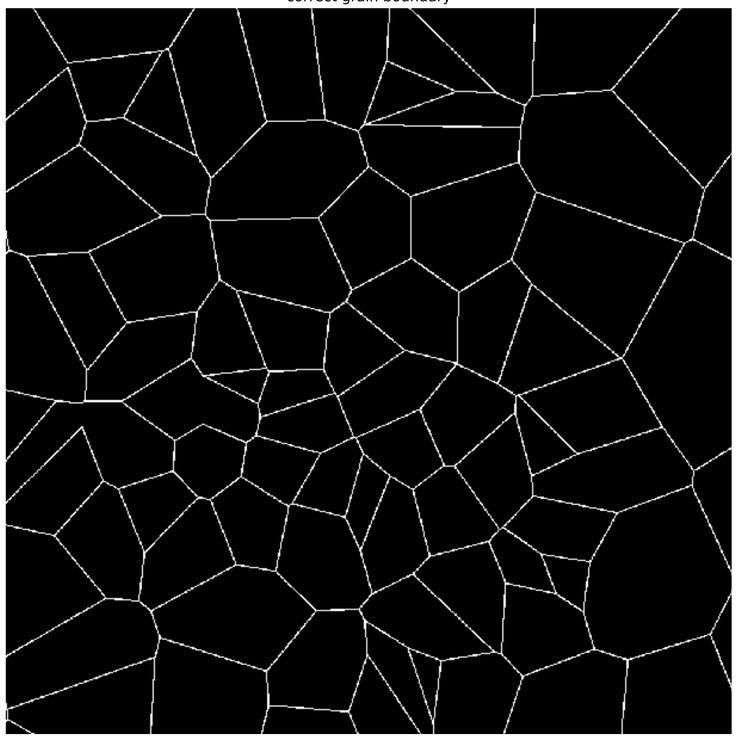
original



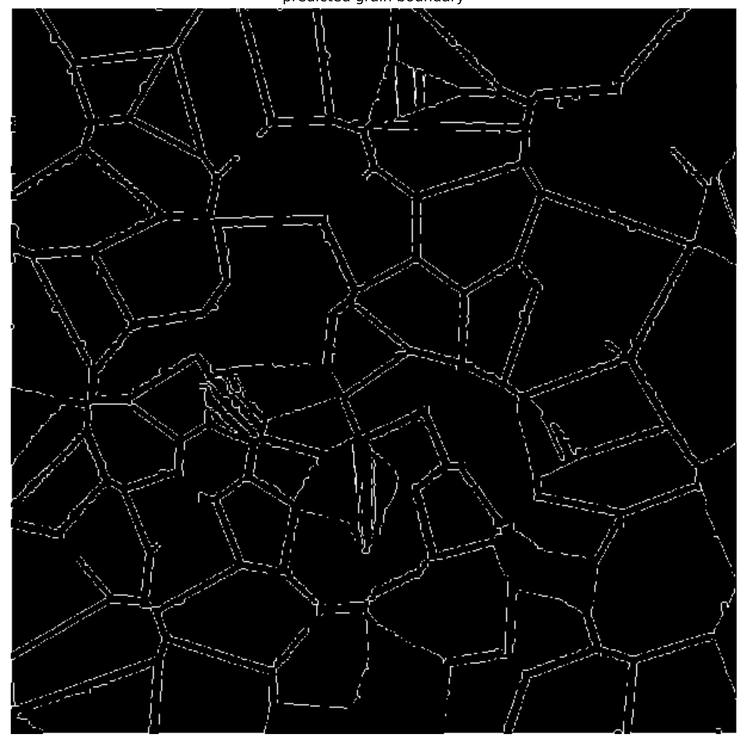
metrics

metric	correct	predicted	error
dark frac	0.217	0.212	0.448%
white frac	0.711	0.683	2.723%
line frac	0.073	0.052	2.044%
ave grain diameter	117.684	113.283	3.739%

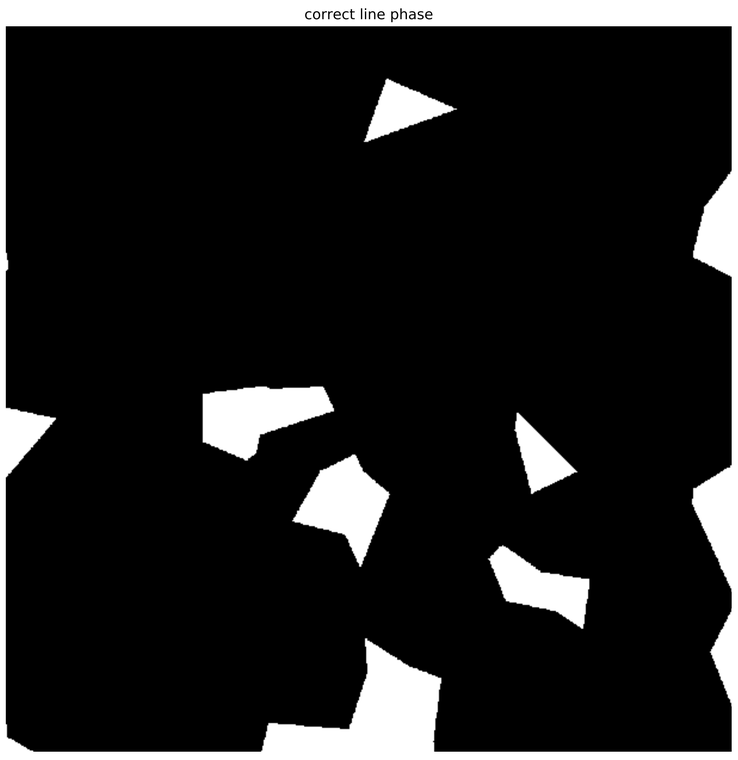
correct grain boundary



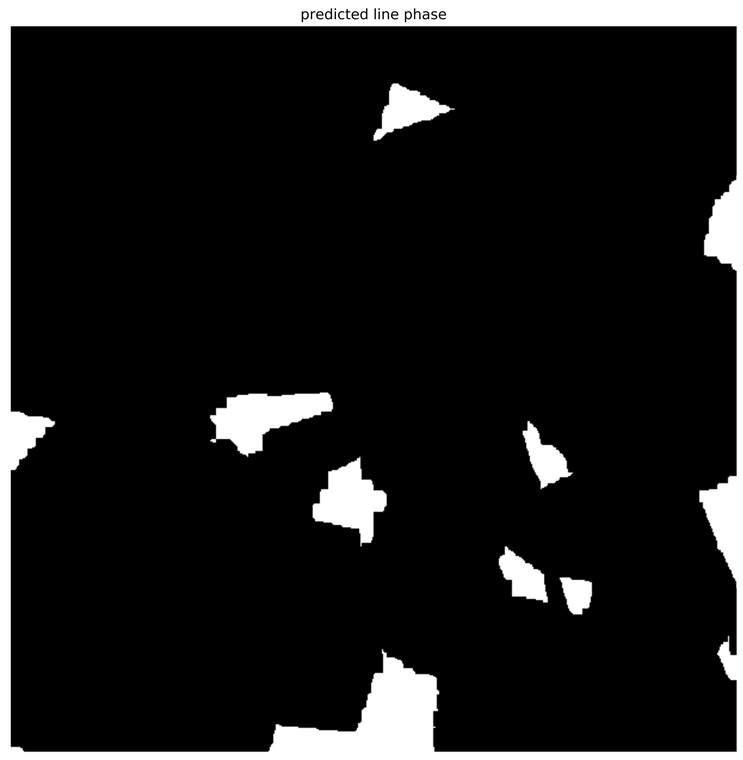
predicted grain boundary



correct line phase



predicted line phase

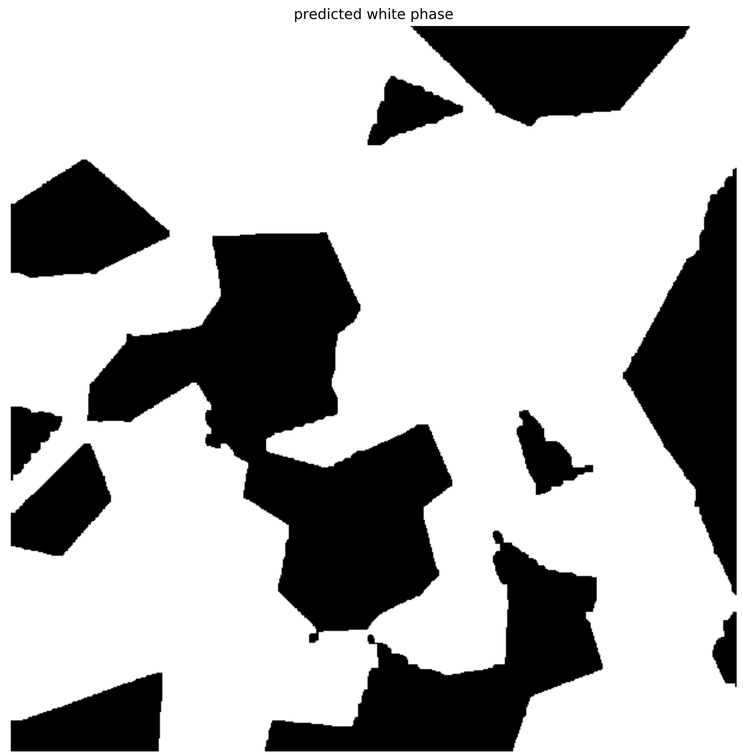


correct dark phase

predicted dark phase

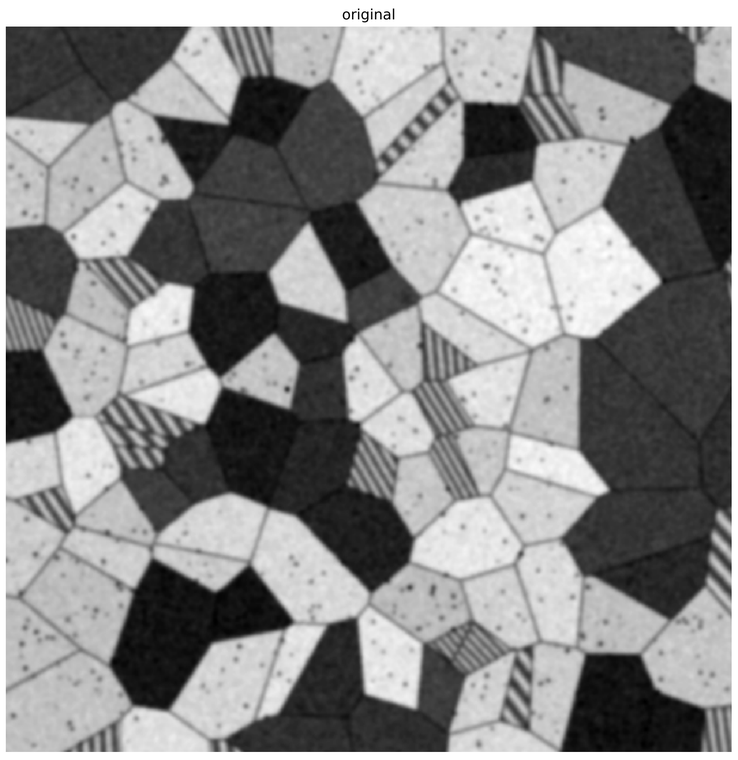
correct white phase

predicted white phase



data/base microstructure/image_102.png

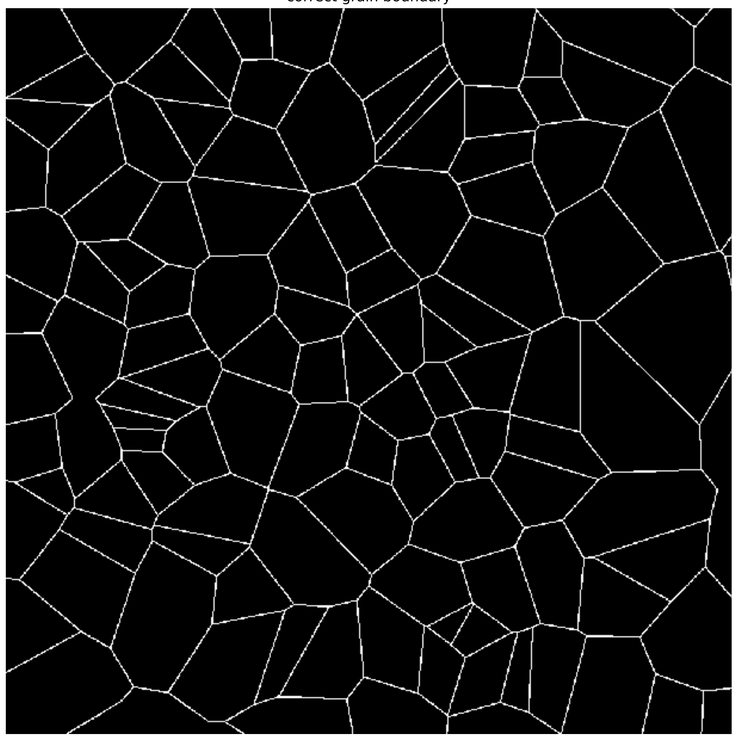
original



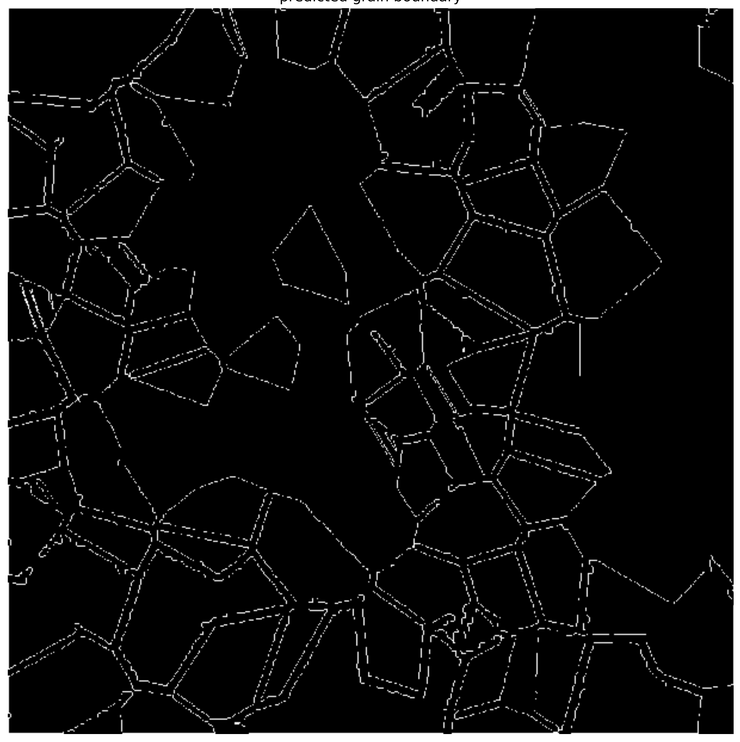
metrics

metric	correct	predicted	error
dark frac	0.406	0.398	0.802%
white frac	0.527	0.486	4.106%
line frac	0.066	0.040	2.629%
ave grain diameter	98.832	91.911	7.002%

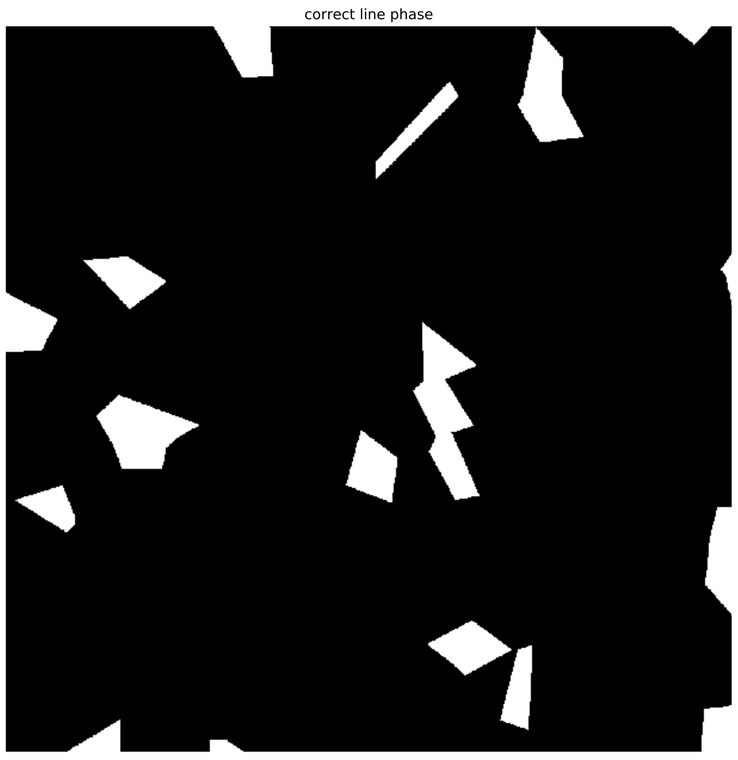
correct grain boundary



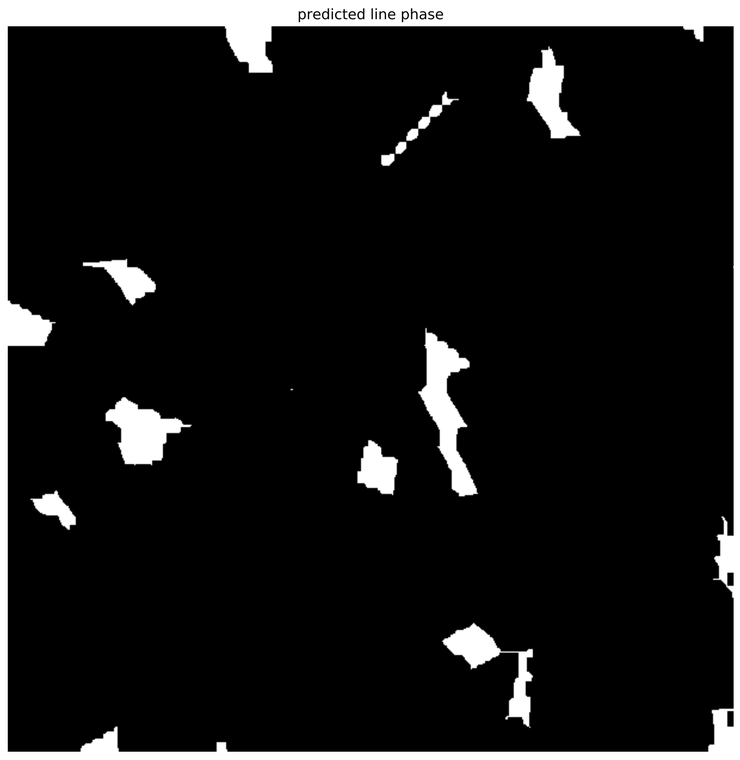
predicted grain boundary



correct line phase



predicted line phase



correct dark phase

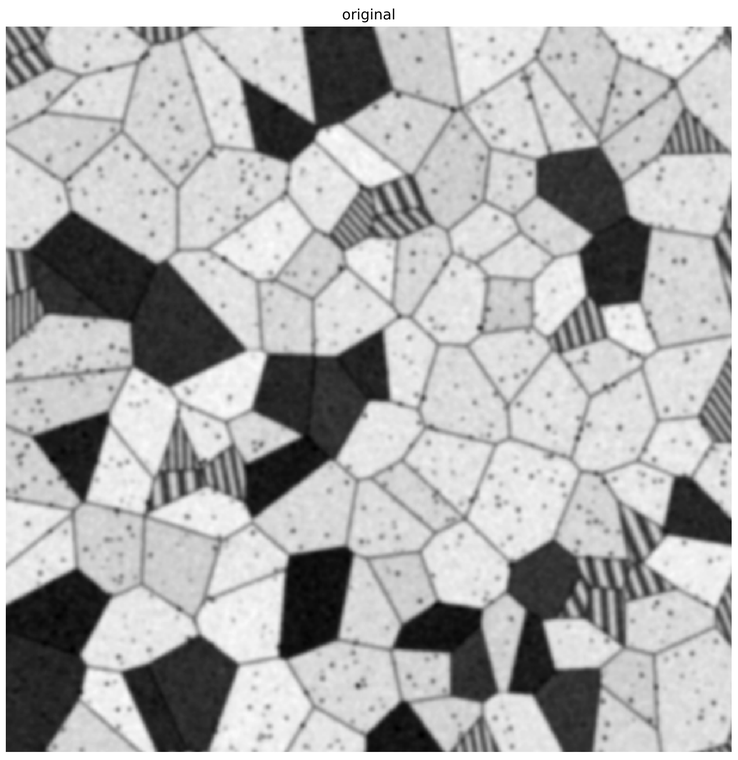
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_103.png

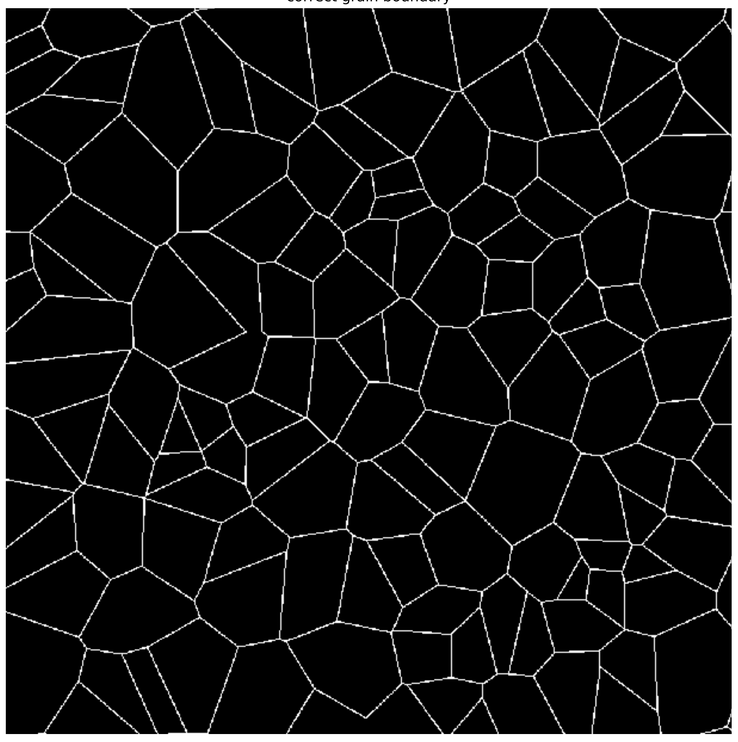
original



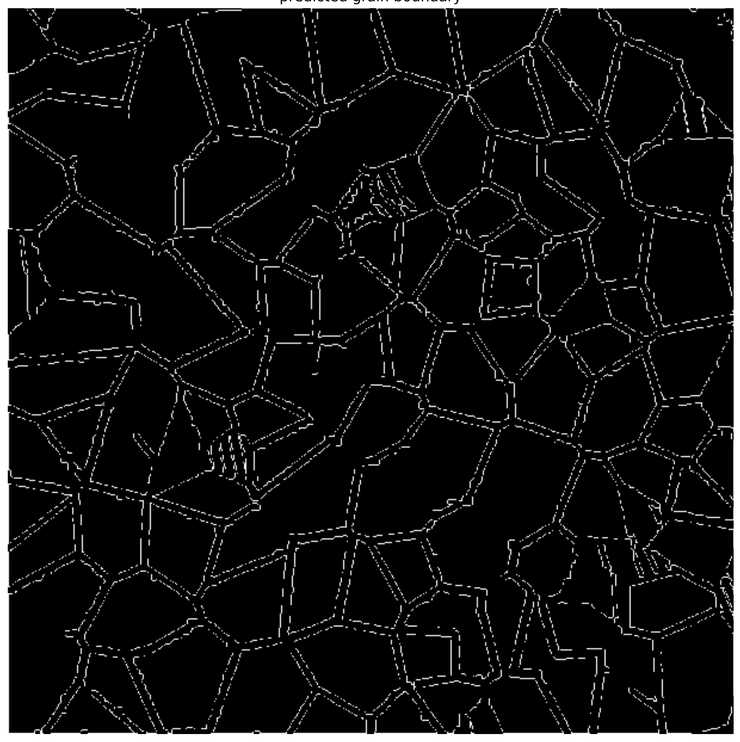
metrics

metric	correct	predicted	error
dark frac	0.193	0.185	0.795%
white frac	0.752	0.712	3.991%
line frac	0.055	0.038	1.619%
ave grain diameter	92.103	88.247	4.186%

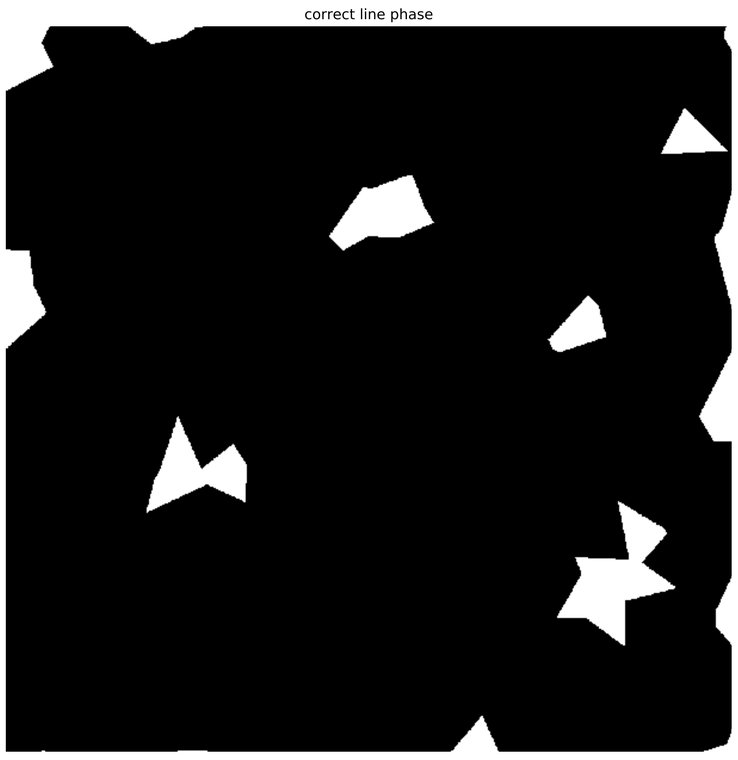
correct grain boundary



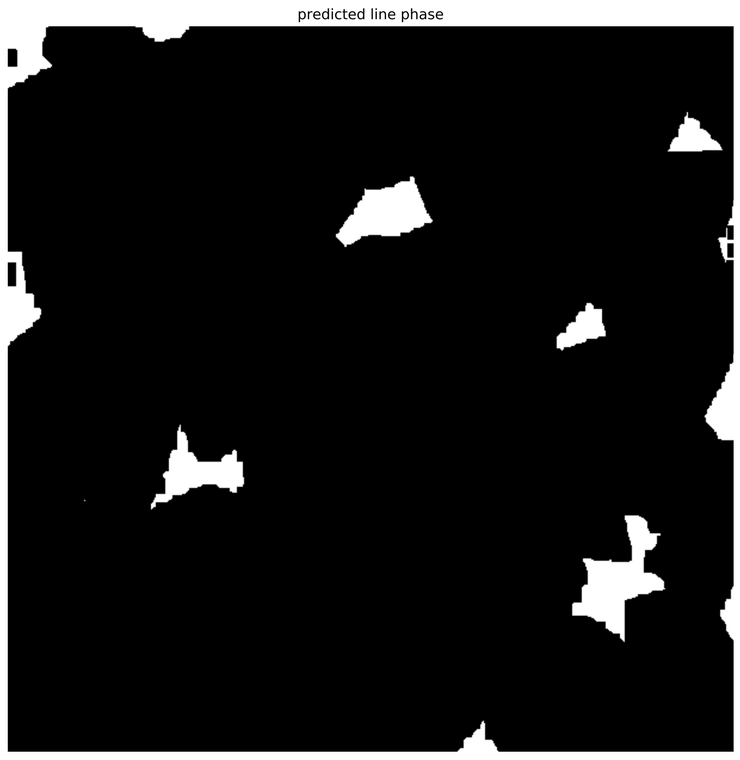
predicted grain boundary



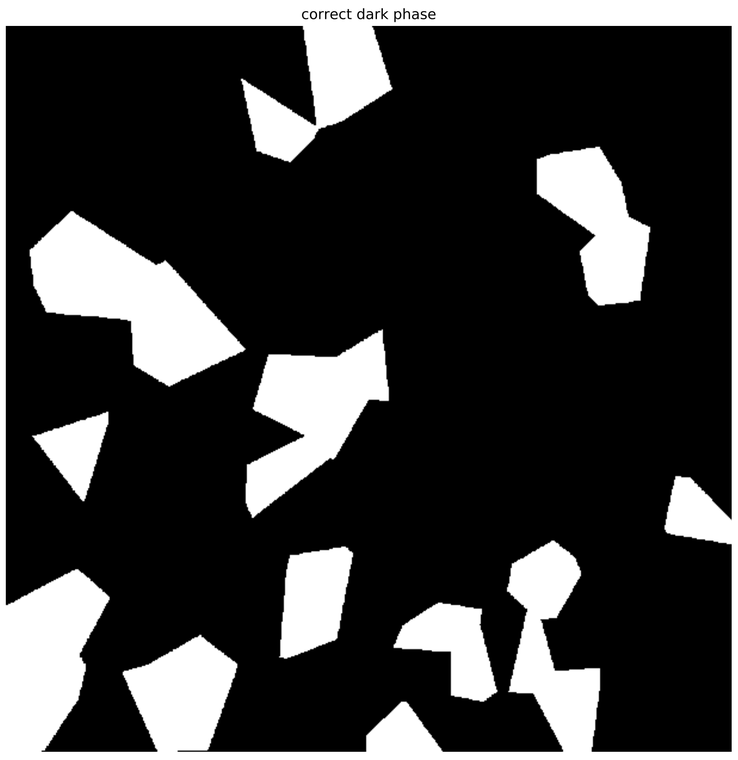
correct line phase



predicted line phase

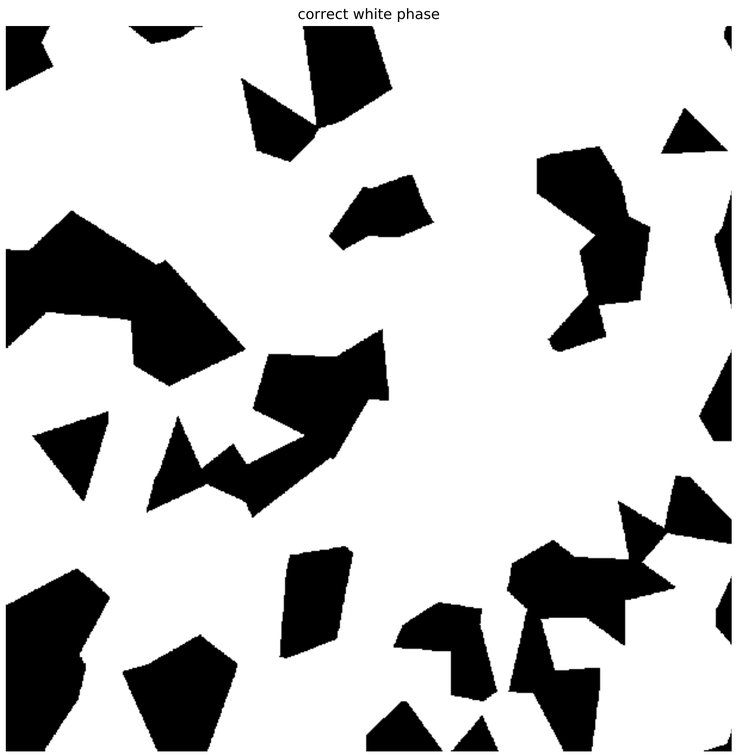


correct dark phase



predicted dark phase

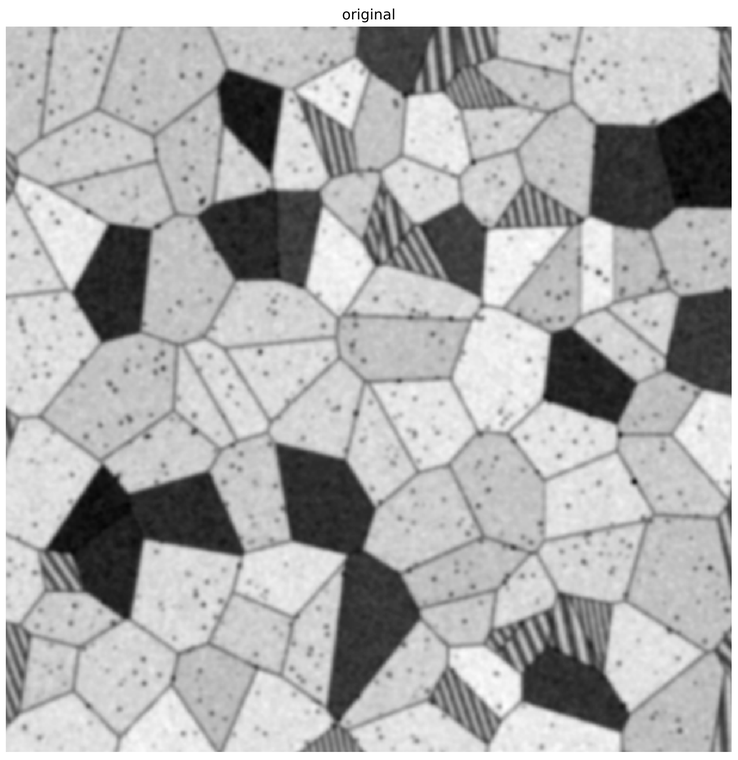
correct white phase



predicted white phase

data/base microstructure/image_104.png

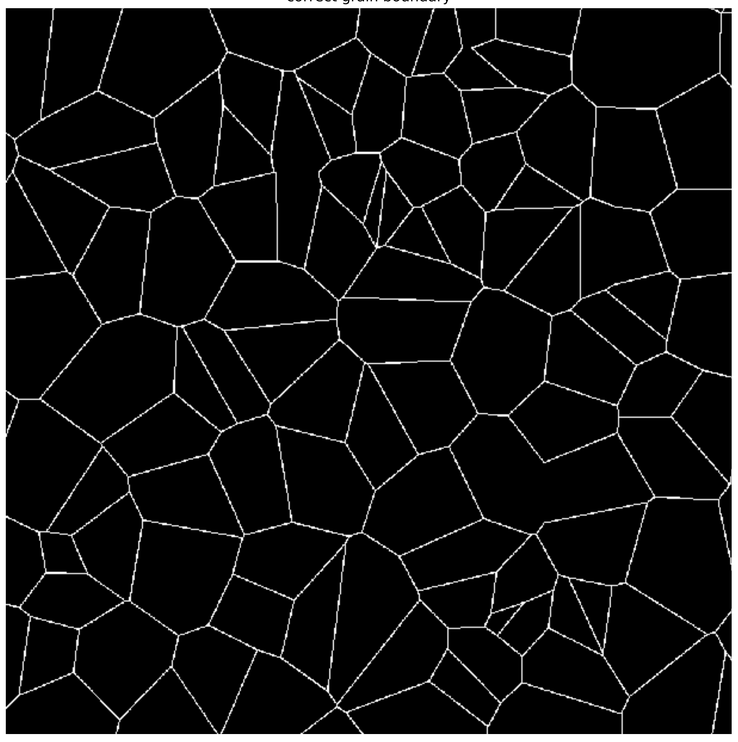
original



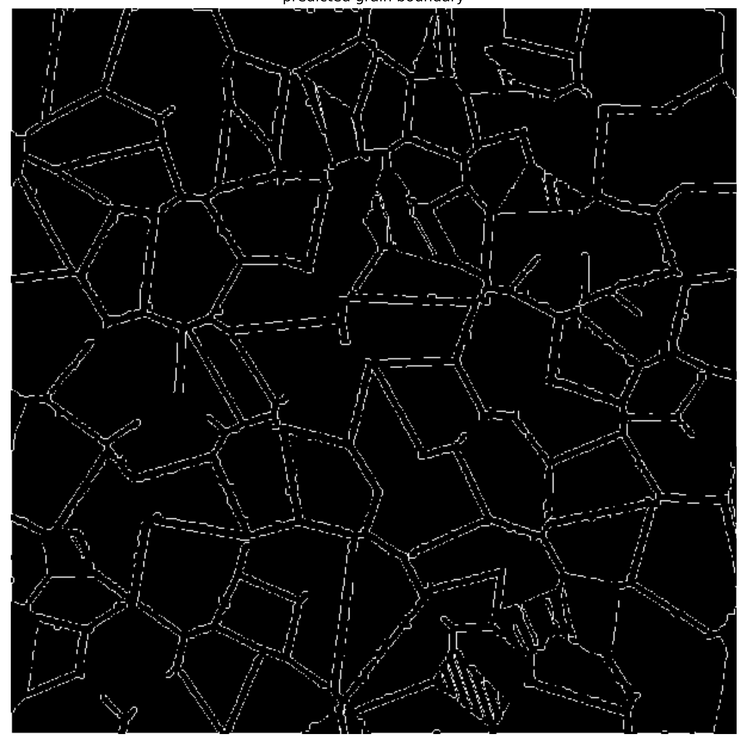
metrics

metric	correct	predicted	error
dark frac	0.163	0.159	0.393%
white frac	0.781	0.745	3.601%
line frac	0.056	0.036	2.050%
ave grain diameter	103.030	101.520	1.466%

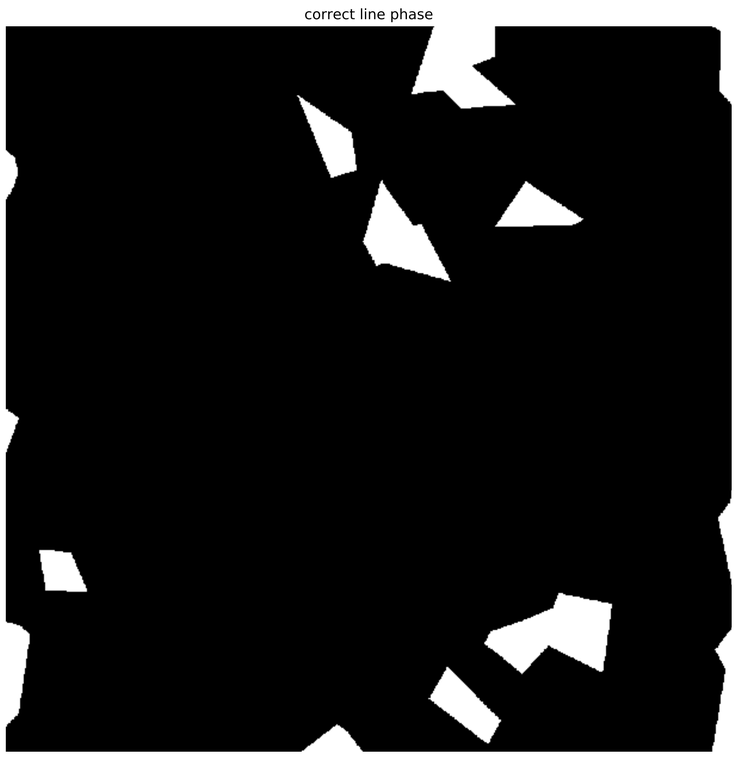
correct grain boundary



predicted grain boundary

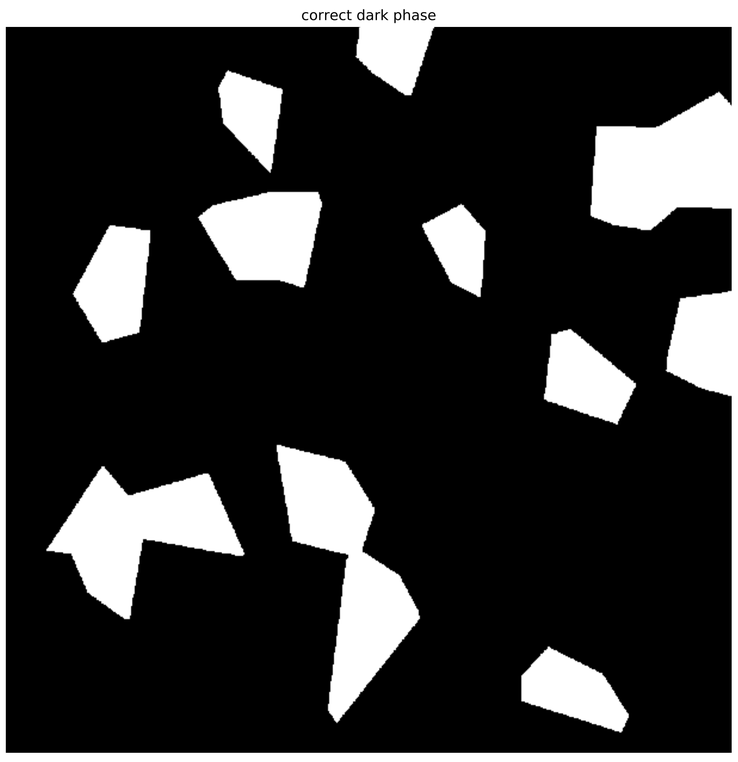


correct line phase

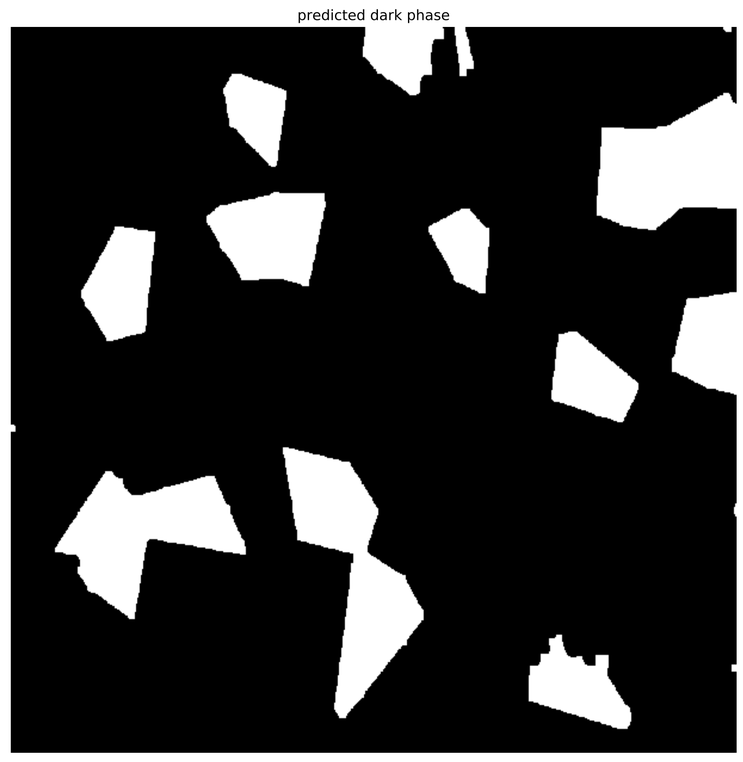


predicted line phase

correct dark phase



predicted dark phase

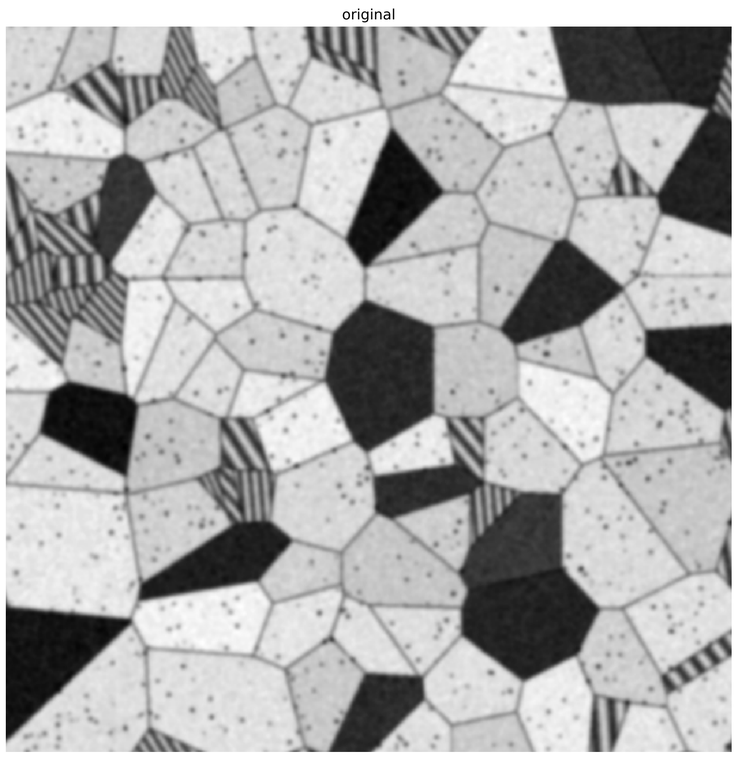


correct white phase

predicted white phase

data/base microstructure/image_105.png

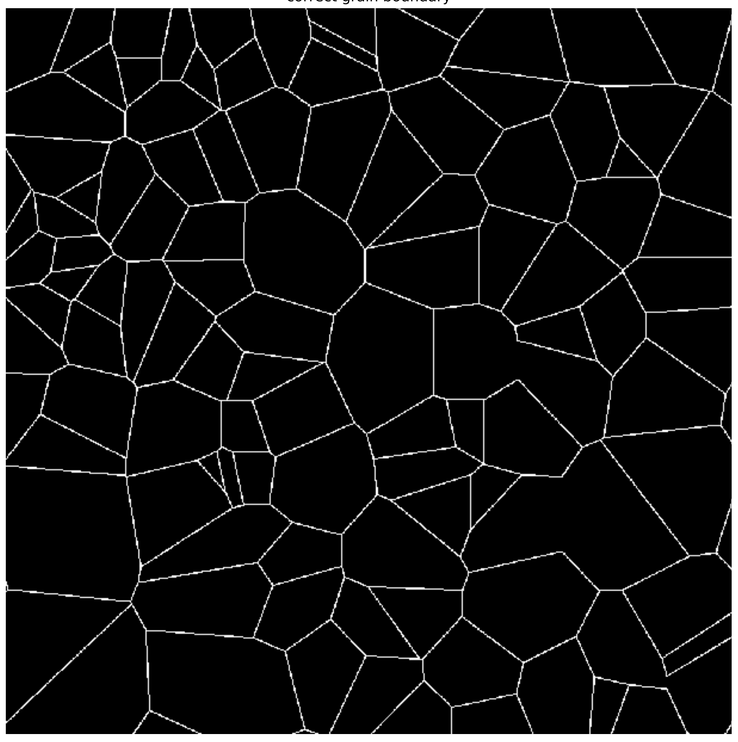
original



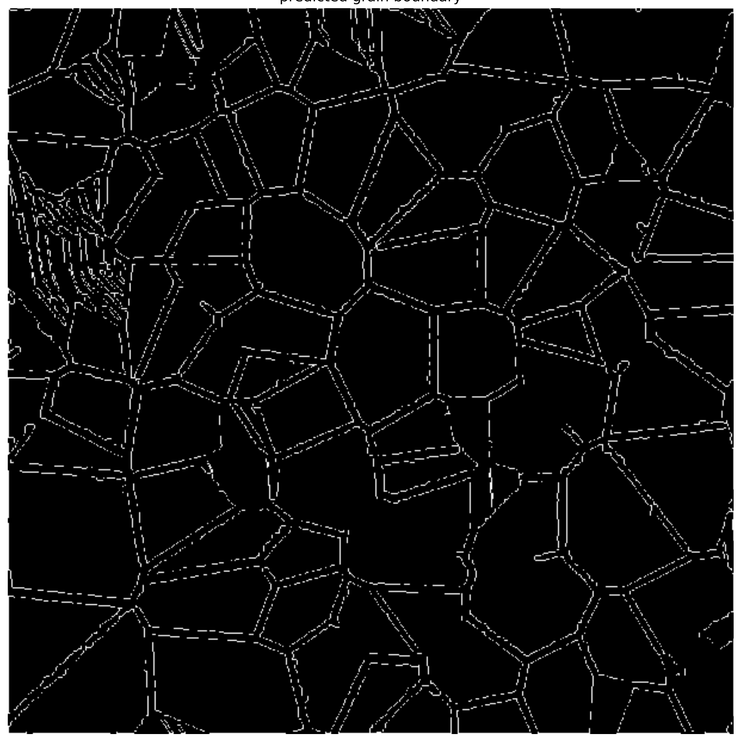
metrics

metric	correct	predicted	error
dark frac	0.185	0.179	0.577%
white frac	0.738	0.702	3.601%
line frac	0.078	0.057	2.049%
ave grain diameter	100.204	92.758	7.431%

correct grain boundary



predicted grain boundary



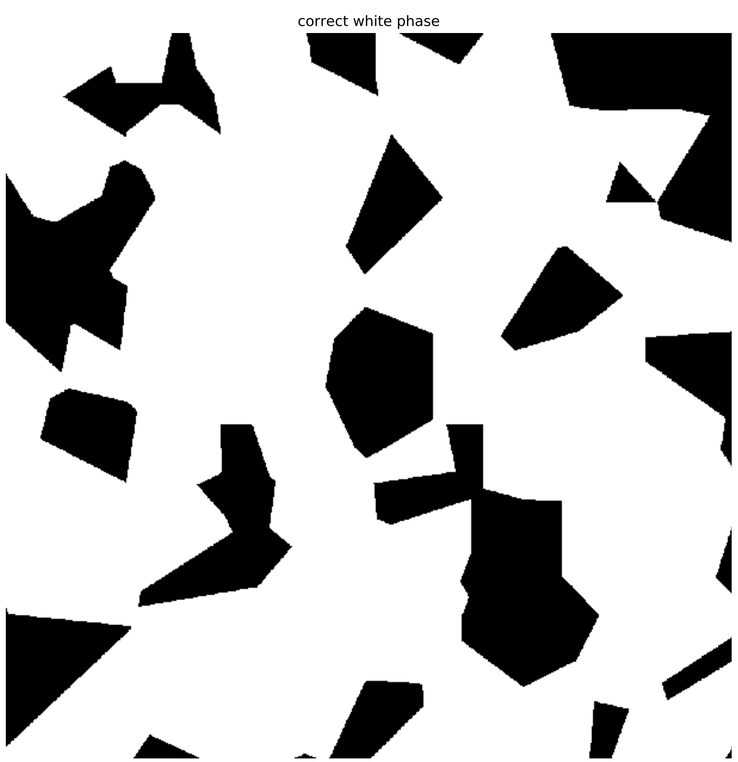
correct line phase

predicted line phase

correct dark phase

predicted dark phase

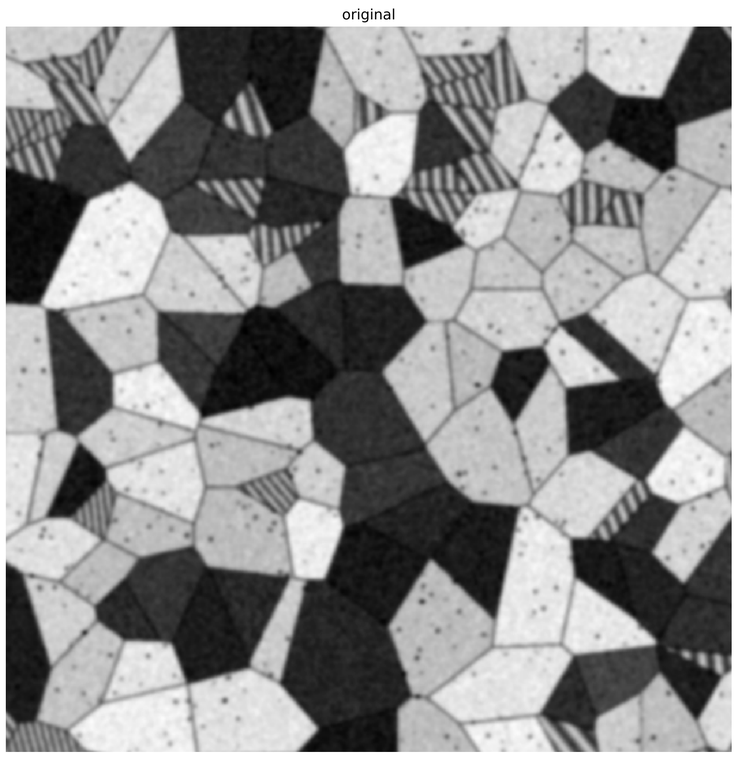
correct white phase



predicted white phase

data/base microstructure/image_106.png

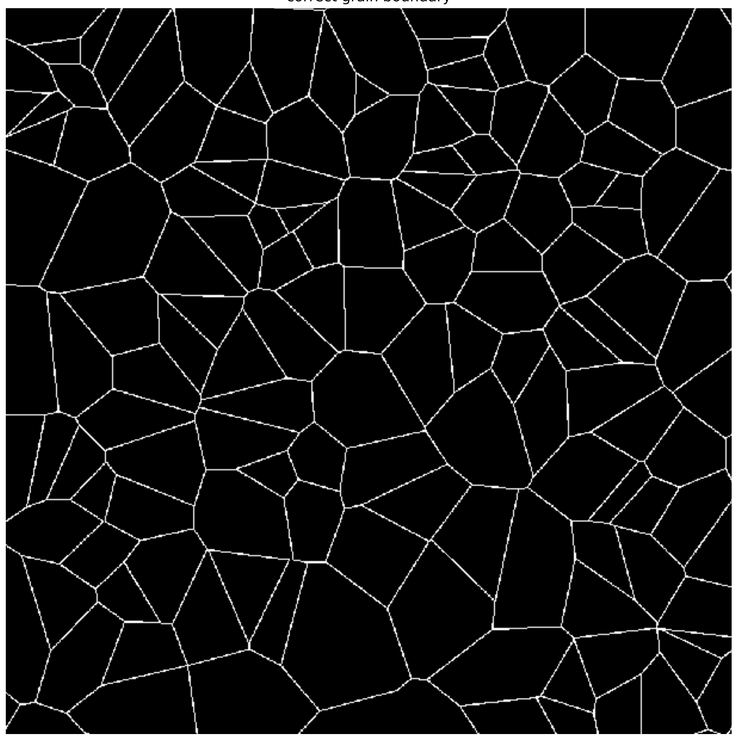
original



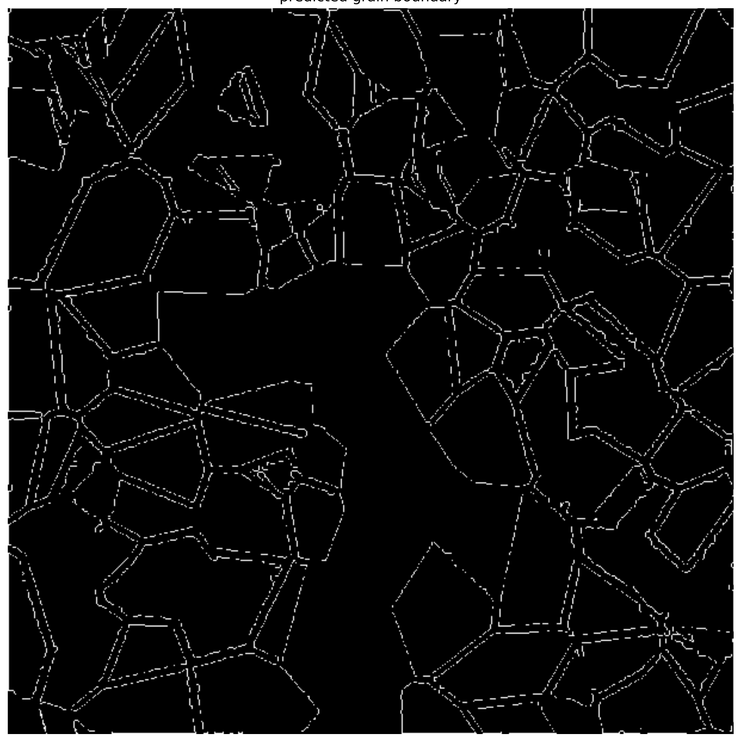
metrics

metric	correct	predicted	error
dark frac	0.359	0.349	1.003%
white frac	0.570	0.525	4.472%
line frac	0.070	0.044	2.636%
ave grain diameter	90.254	85.840	4.891%

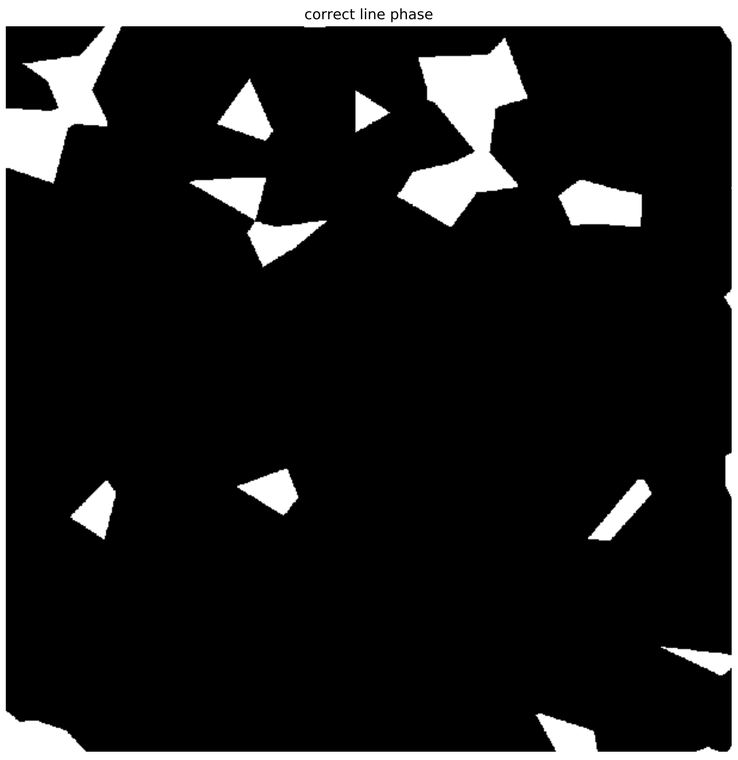
correct grain boundary



predicted grain boundary



correct line phase



predicted line phase

correct dark phase

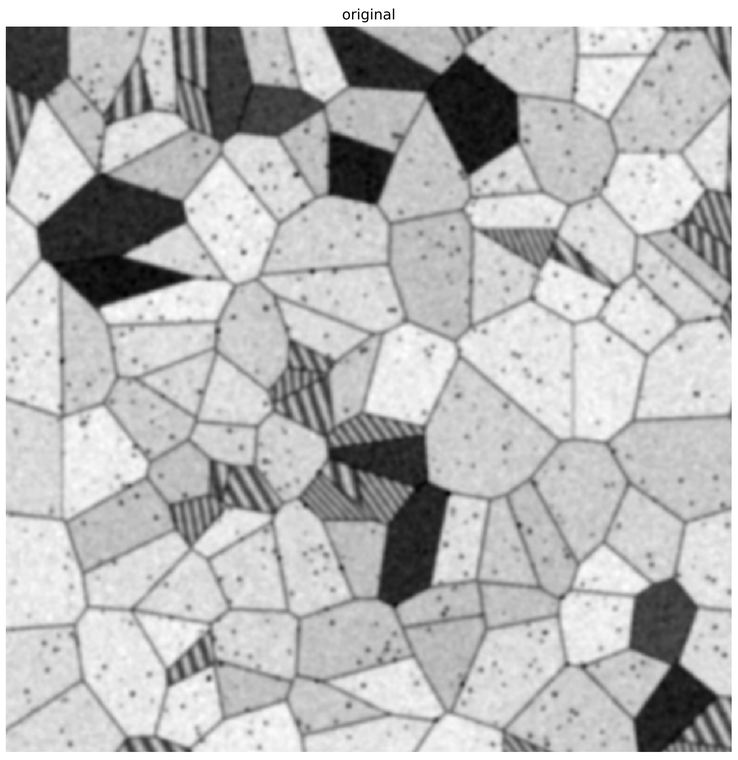
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_107.png

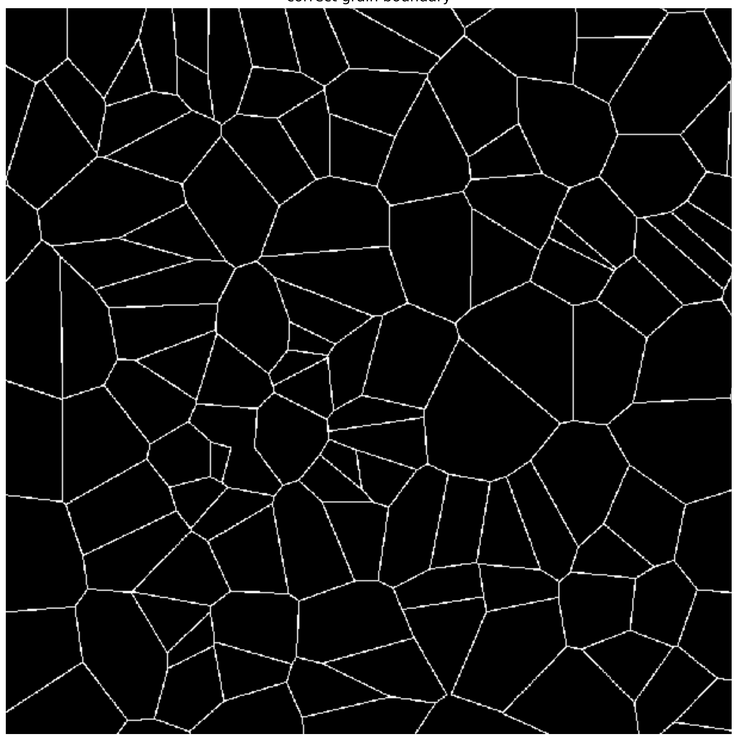
original



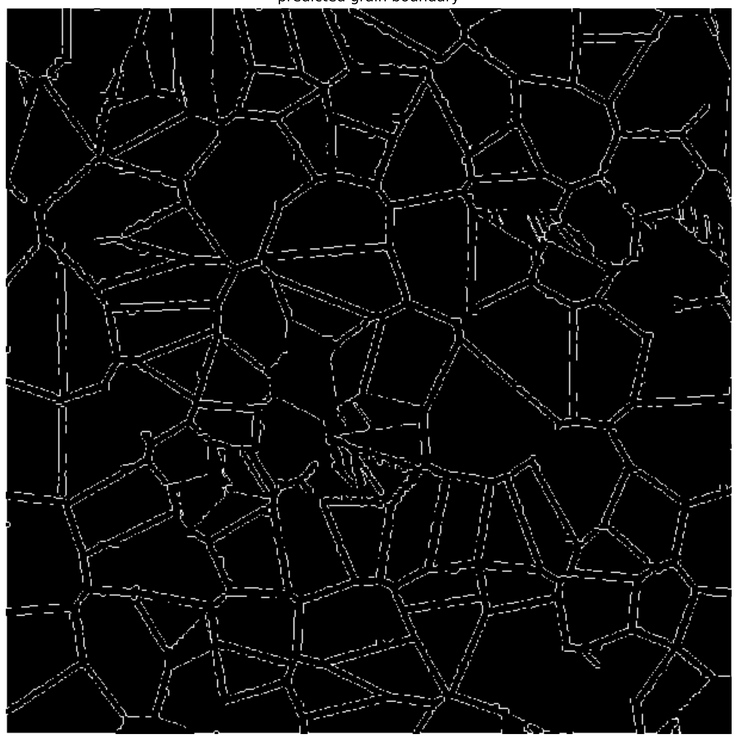
metrics

metric	correct	predicted	error
dark frac	0.102	0.102	0.003%
white frac	0.833	0.790	4.294%
line frac	0.065	0.046	1.926%
ave grain diameter	96.453	84.470	12.424%

correct grain boundary



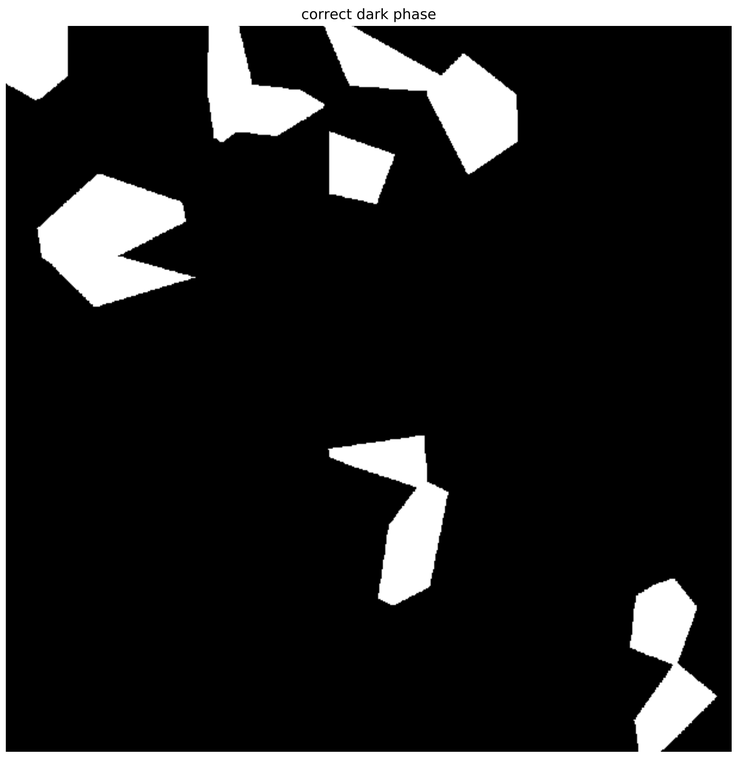
predicted grain boundary



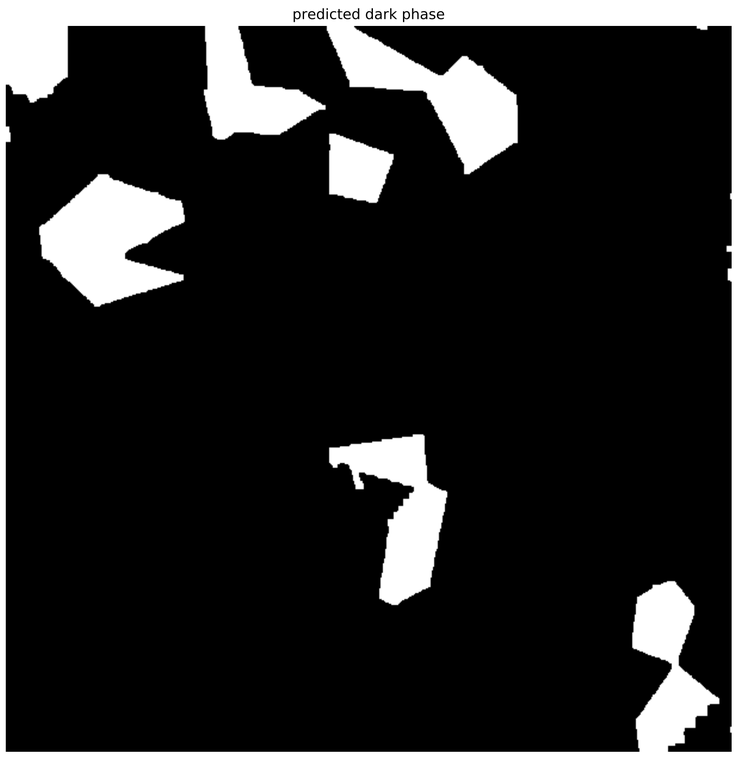
correct line phase

predicted line phase

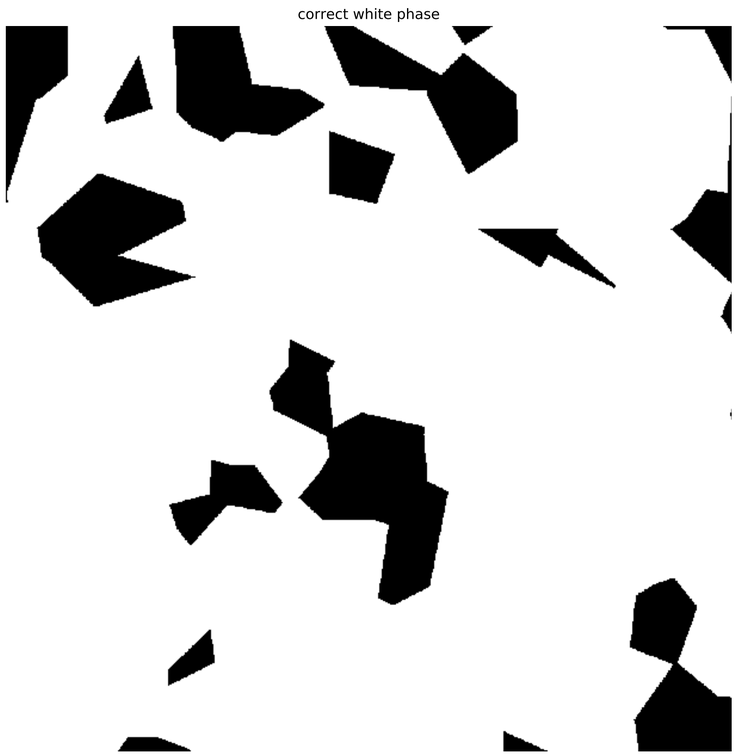
correct dark phase



predicted dark phase



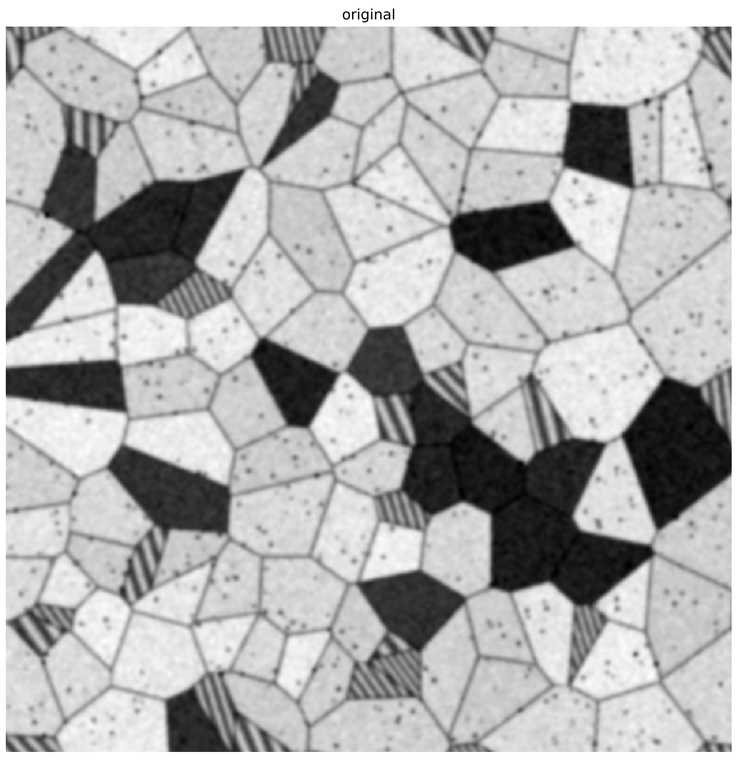
correct white phase



predicted white phase

data/base microstructure/image_108.png

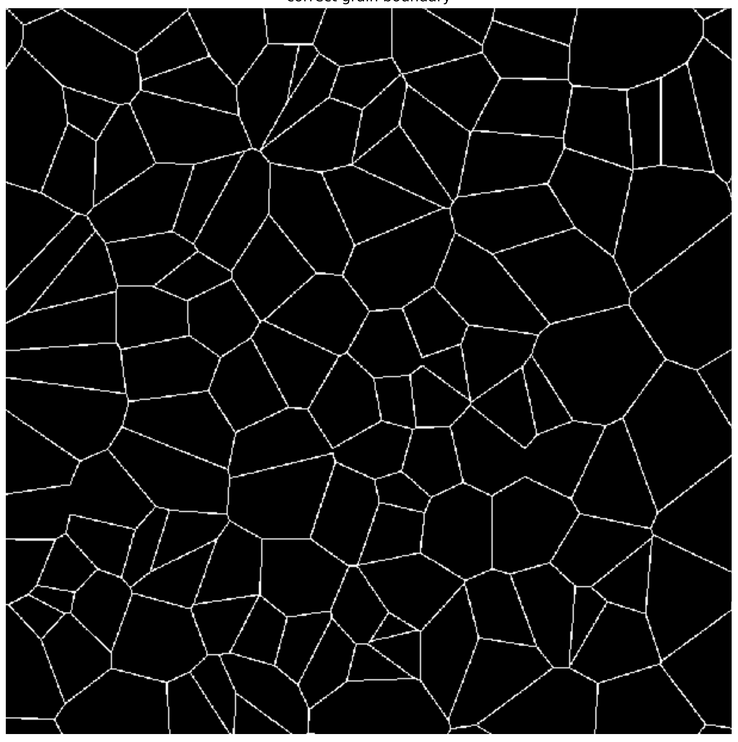
original



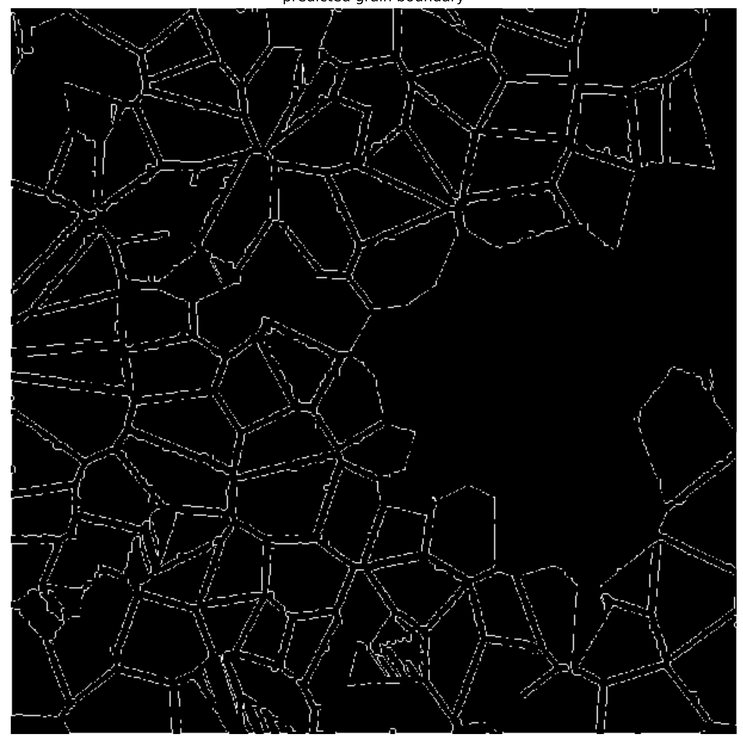
metrics

metric	correct	predicted	error
dark frac	0.172	0.166	0.579%
white frac	0.768	0.730	3.819%
line frac	0.059	0.039	2.092%
ave grain diameter	93.933	79.149	15.739%

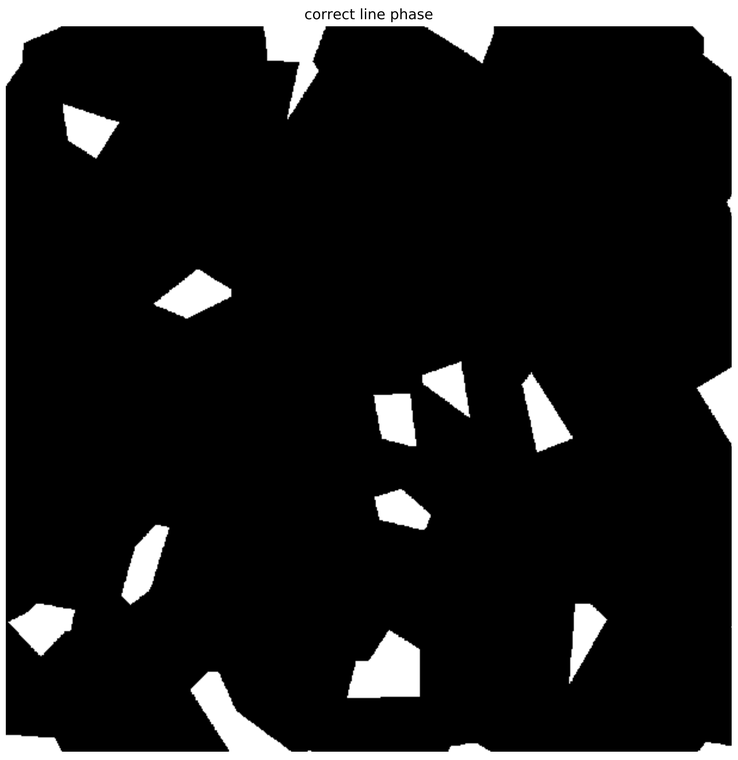
correct grain boundary



predicted grain boundary



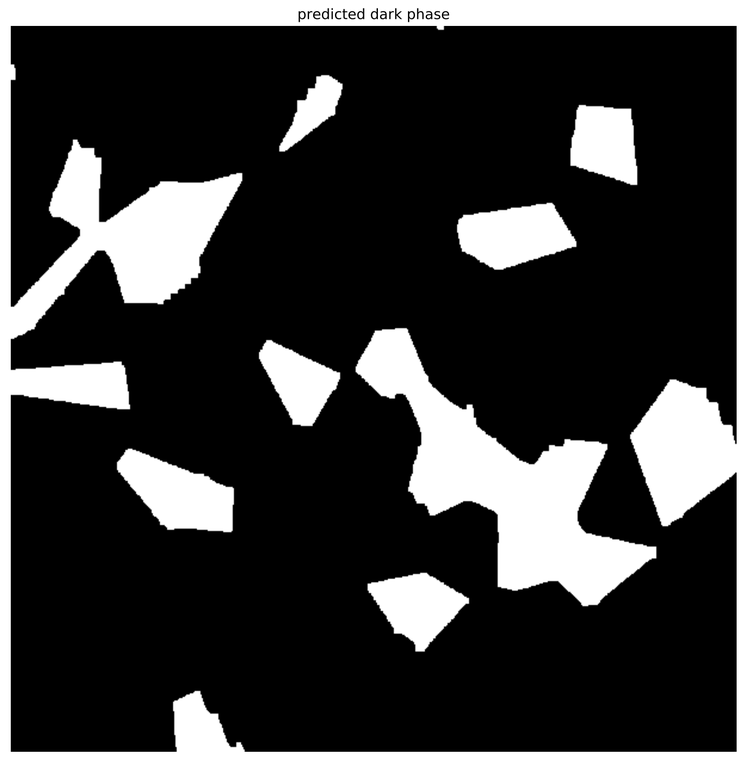
correct line phase



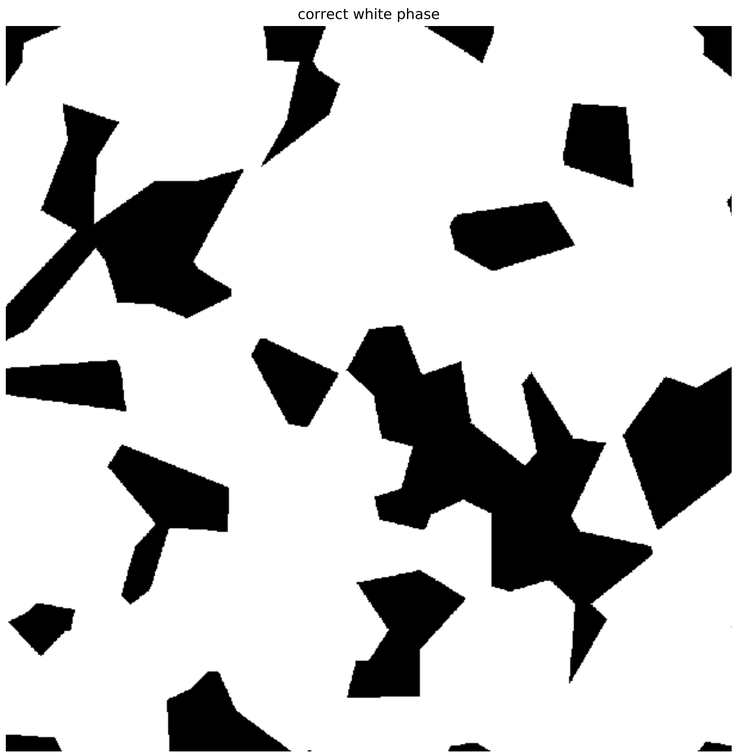
predicted line phase

correct dark phase

predicted dark phase



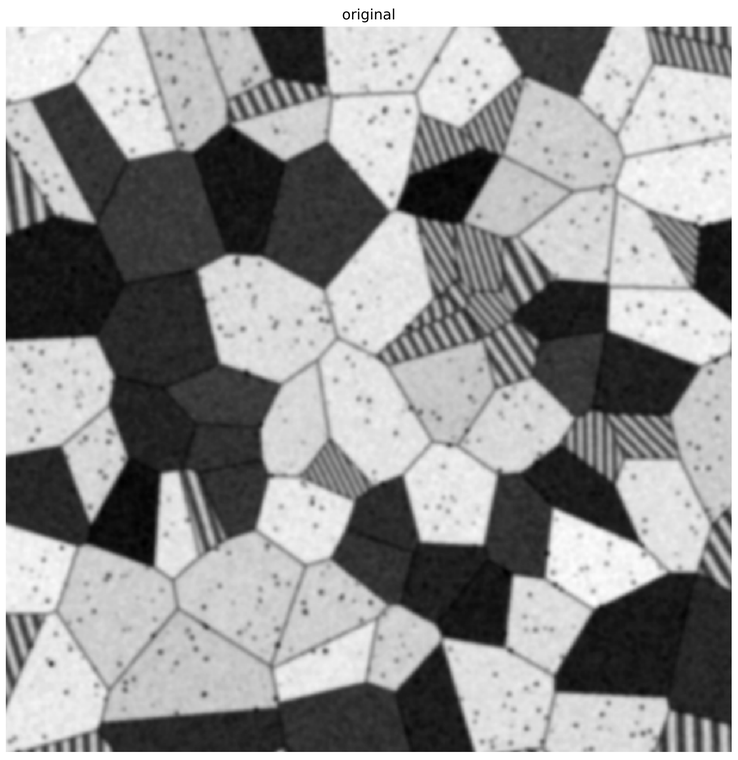
correct white phase



predicted white phase

data/base microstructure/image_109.png

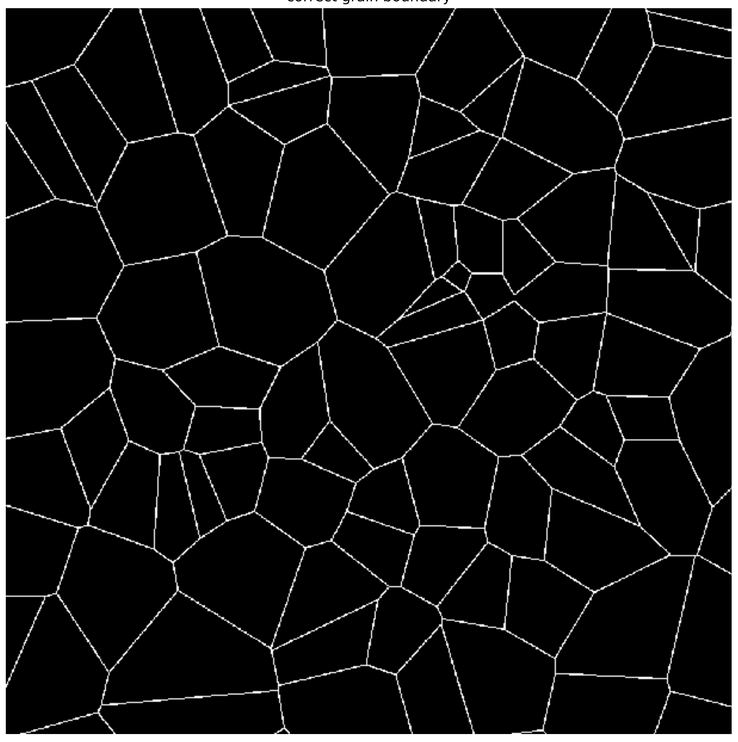
original



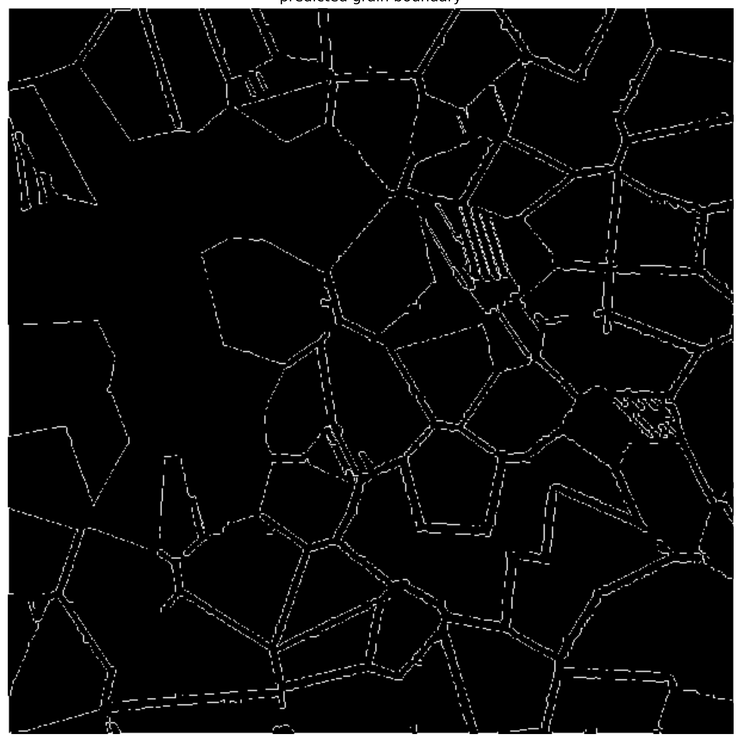
metrics

metric	correct	predicted	error
dark frac	0.342	0.335	0.677%
white frac	0.570	0.532	3.772%
line frac	0.089	0.063	2.612%
ave grain diameter	111.492	107.977	3.153%

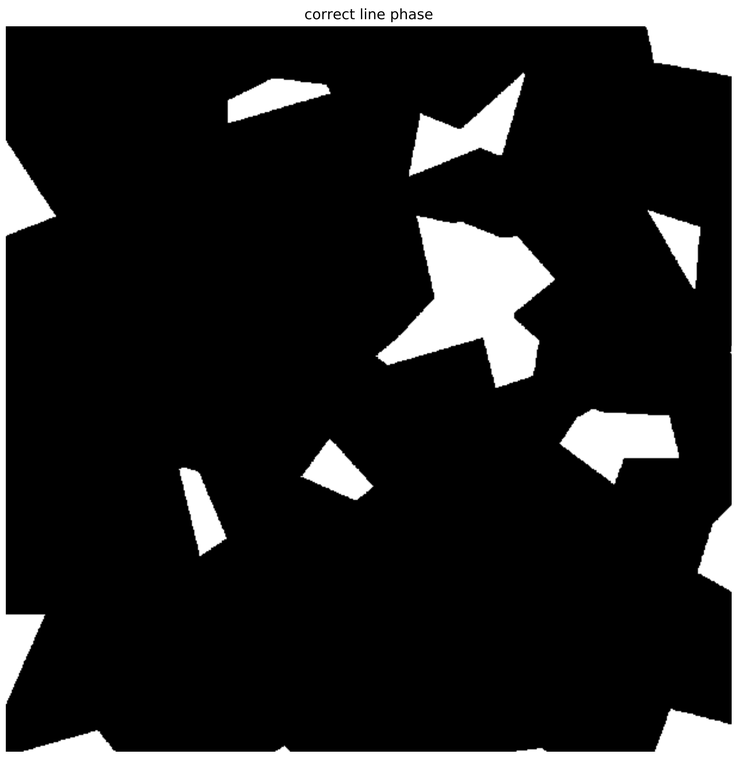
correct grain boundary



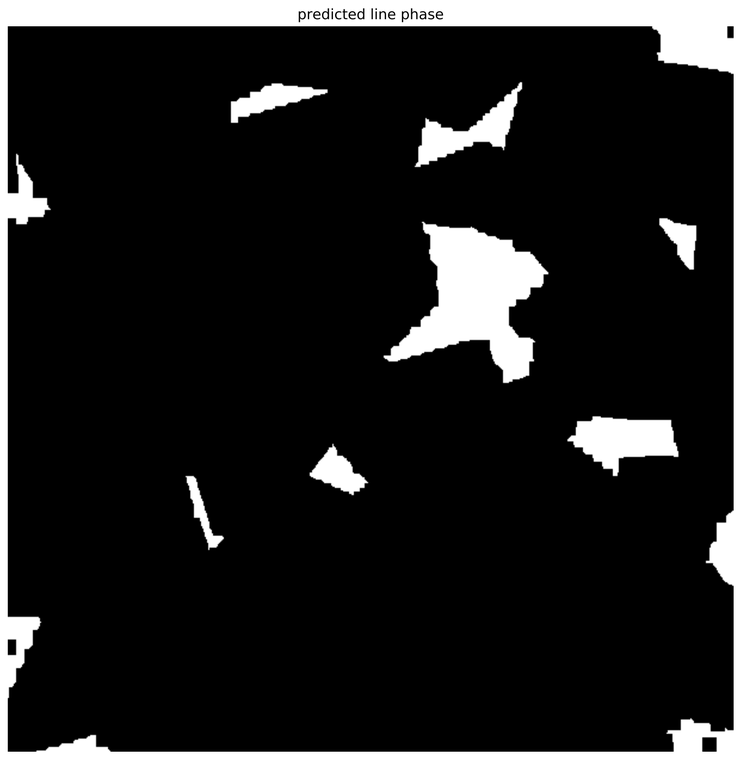
predicted grain boundary



correct line phase



predicted line phase



correct dark phase

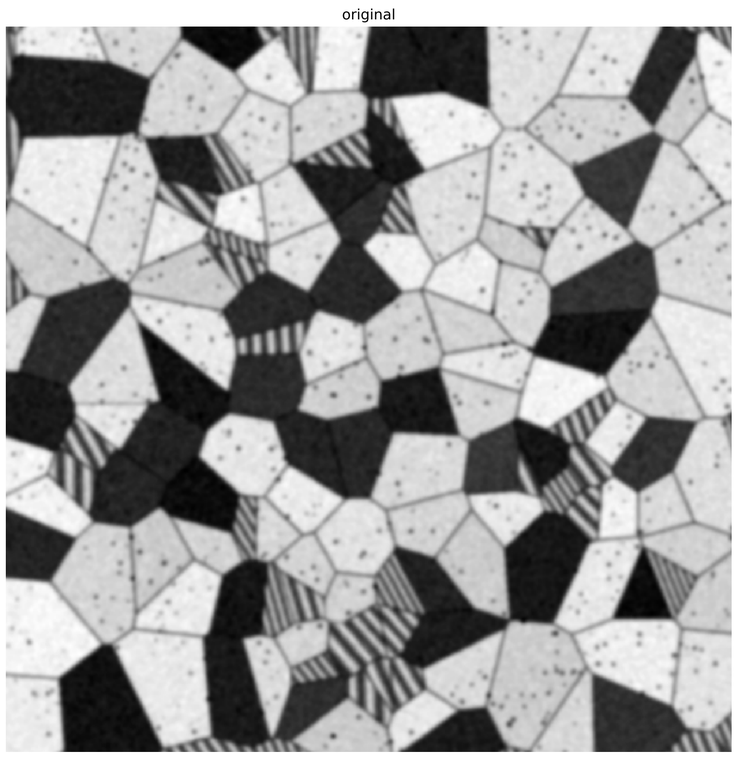
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_11.png

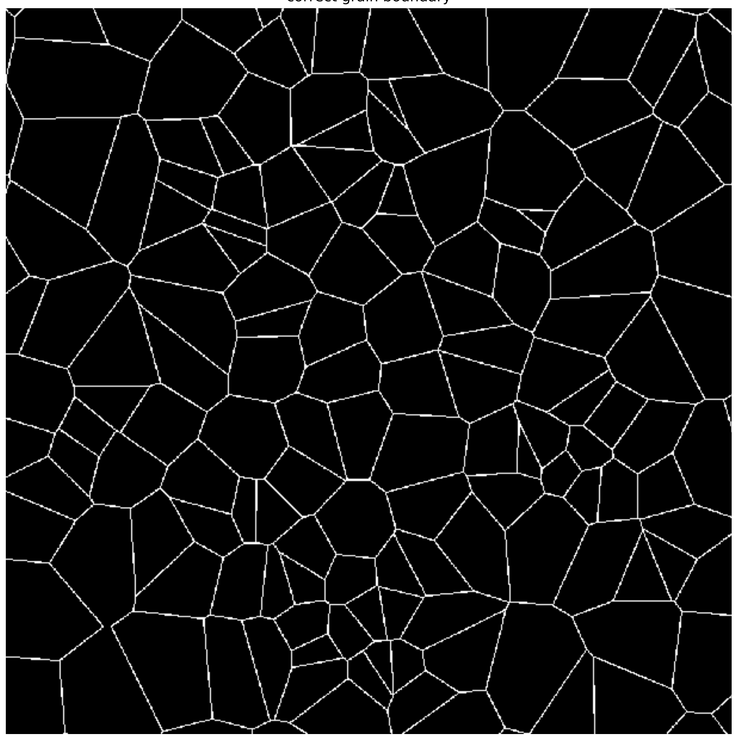
original



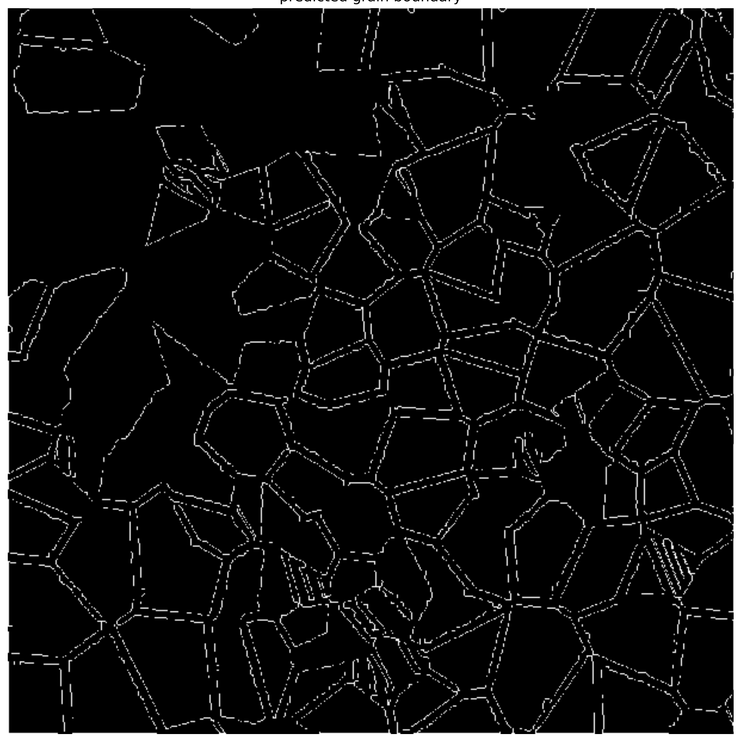
metrics

metric	correct	predicted	error
dark frac	0.288	0.280	0.812%
white frac	0.627	0.579	4.862%
line frac	0.085	0.046	3.894%
ave grain diameter	87.550	77.090	11.947%

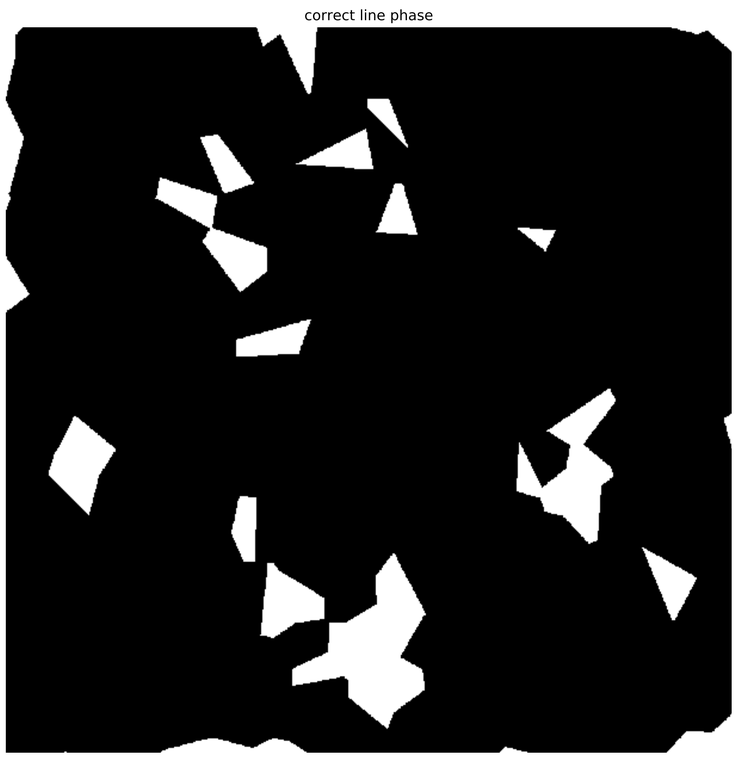
correct grain boundary



predicted grain boundary

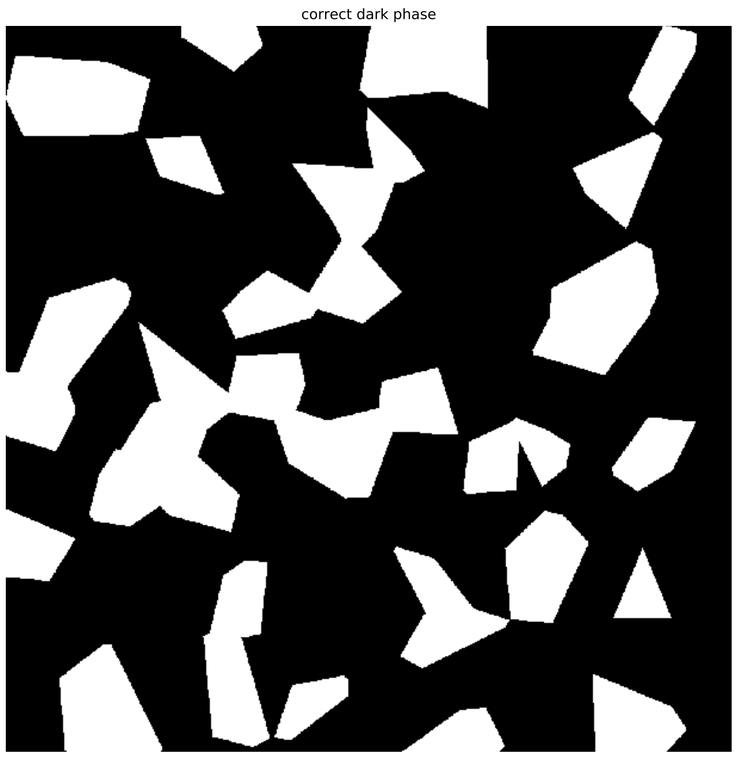


correct line phase

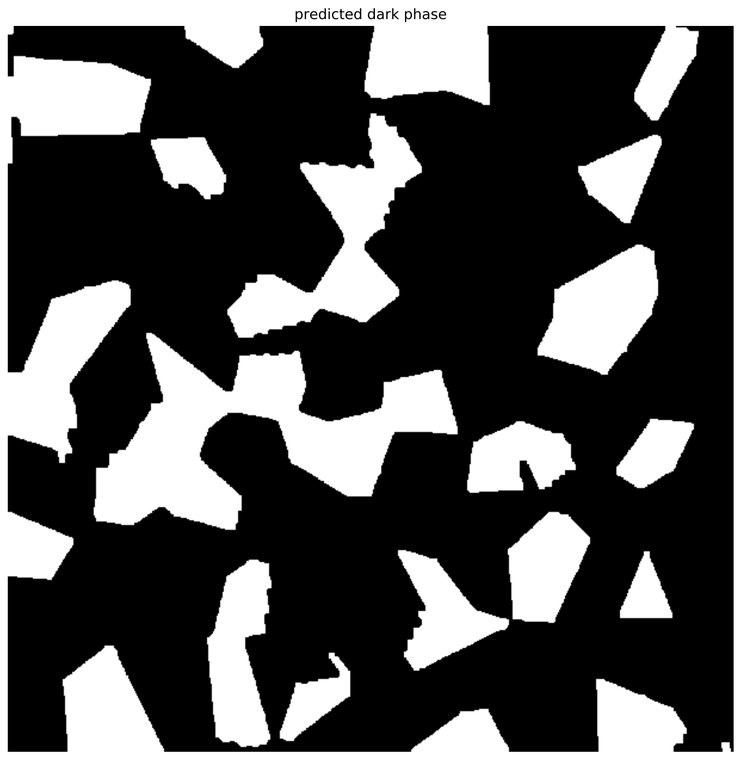


predicted line phase

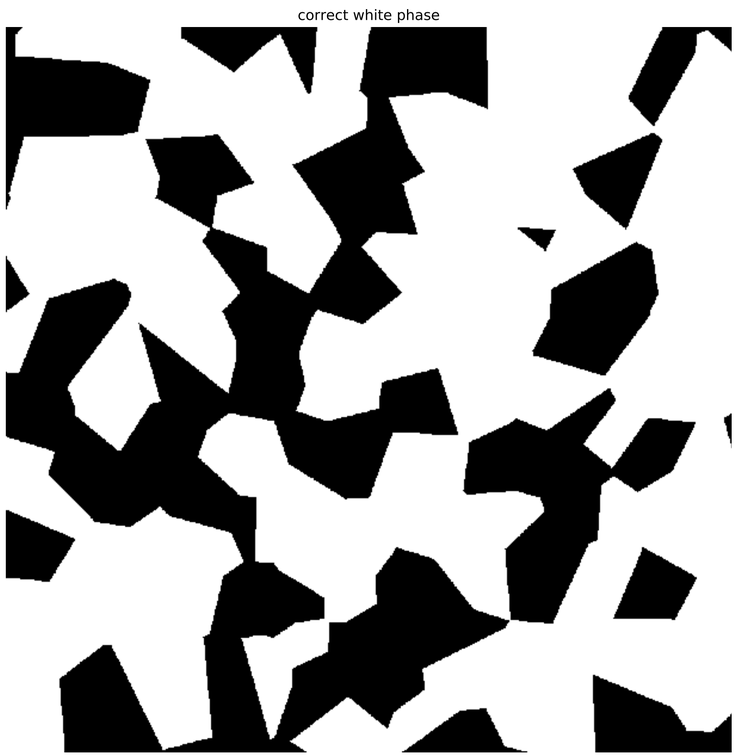
correct dark phase



predicted dark phase



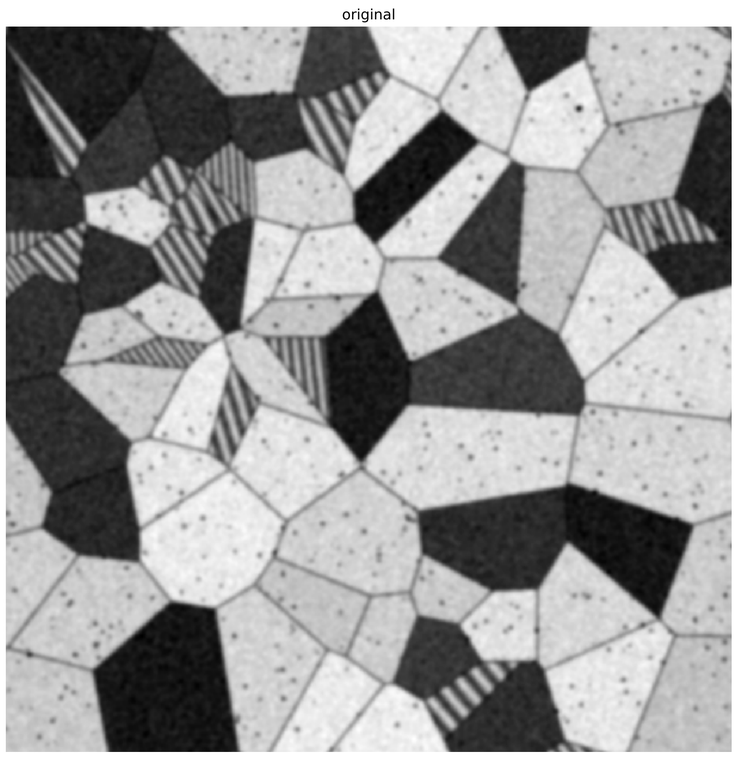
correct white phase



predicted white phase

data/base microstructure/image_110.png

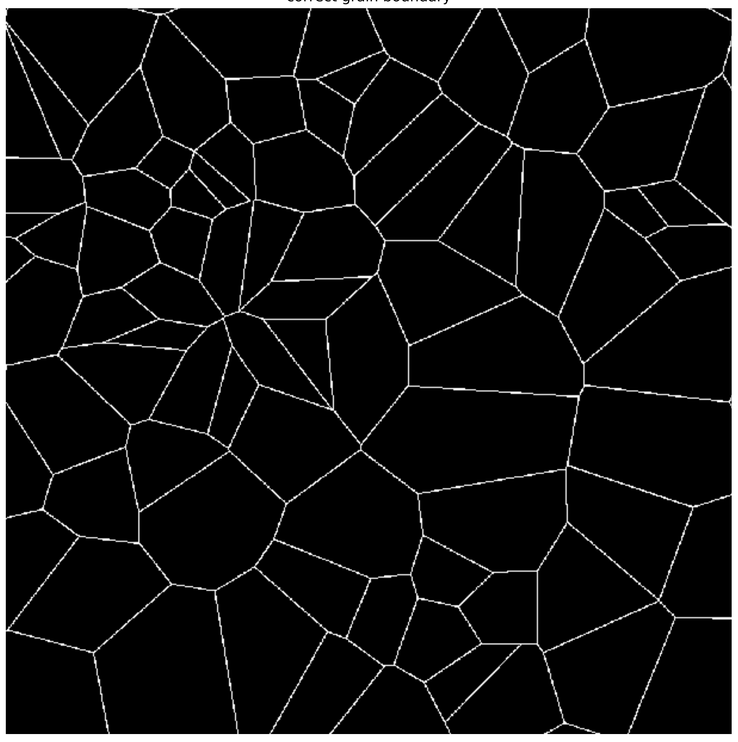
original



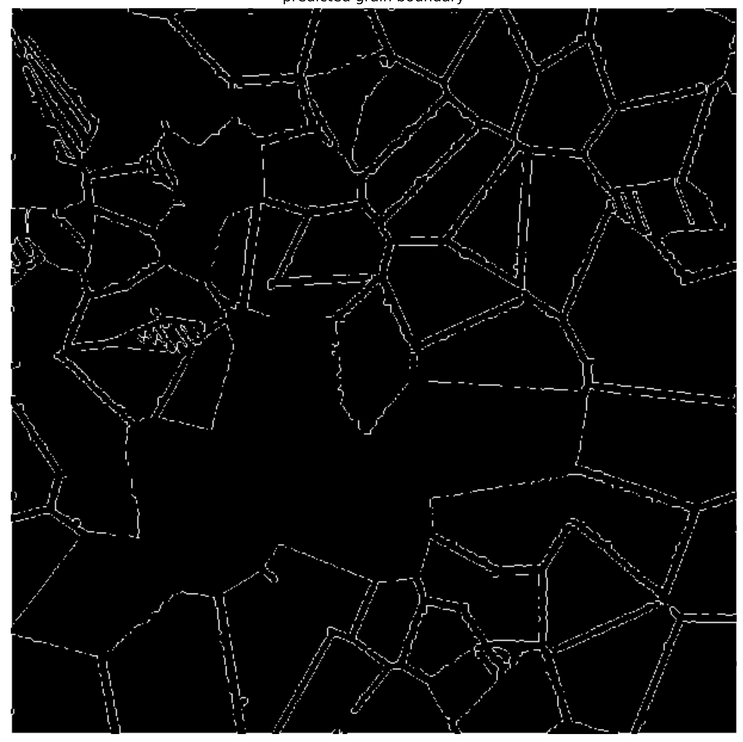
metrics

metric	correct	predicted	error
dark frac	0.316	0.312	0.335%
white frac	0.614	0.578	3.638%
line frac	0.070	0.042	2.860%
ave grain diameter	117.217	112.165	4.310%

correct grain boundary

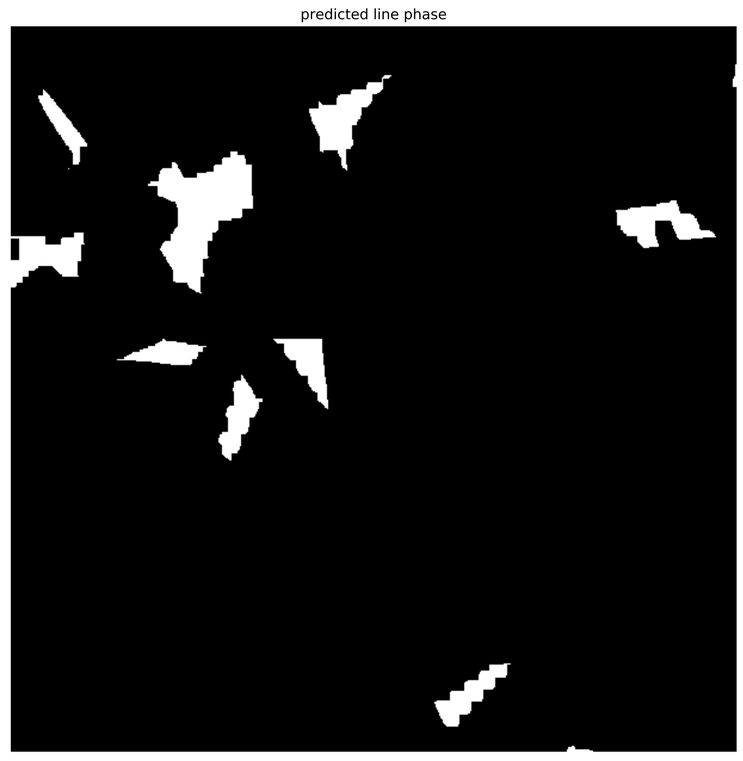


predicted grain boundary

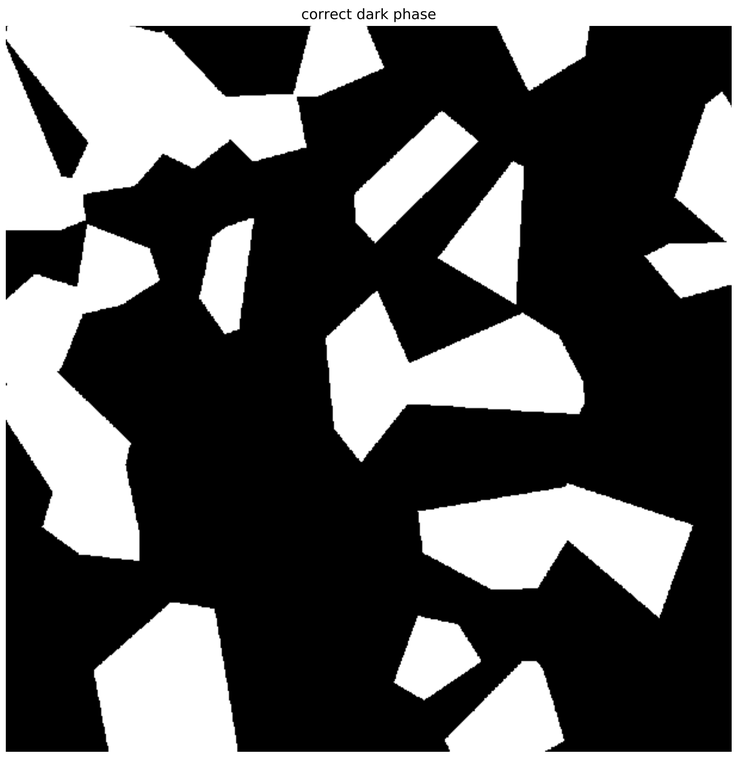


correct line phase

predicted line phase

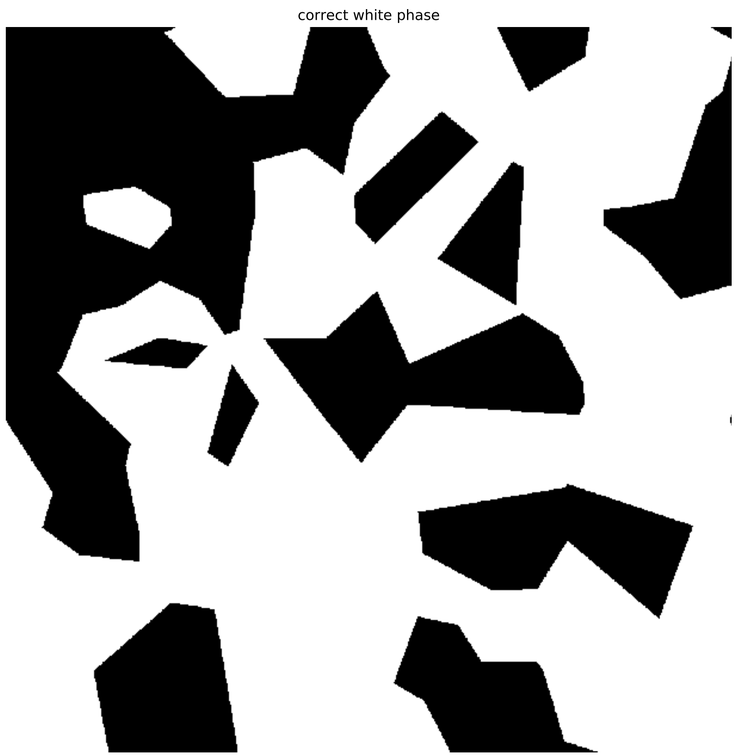


correct dark phase

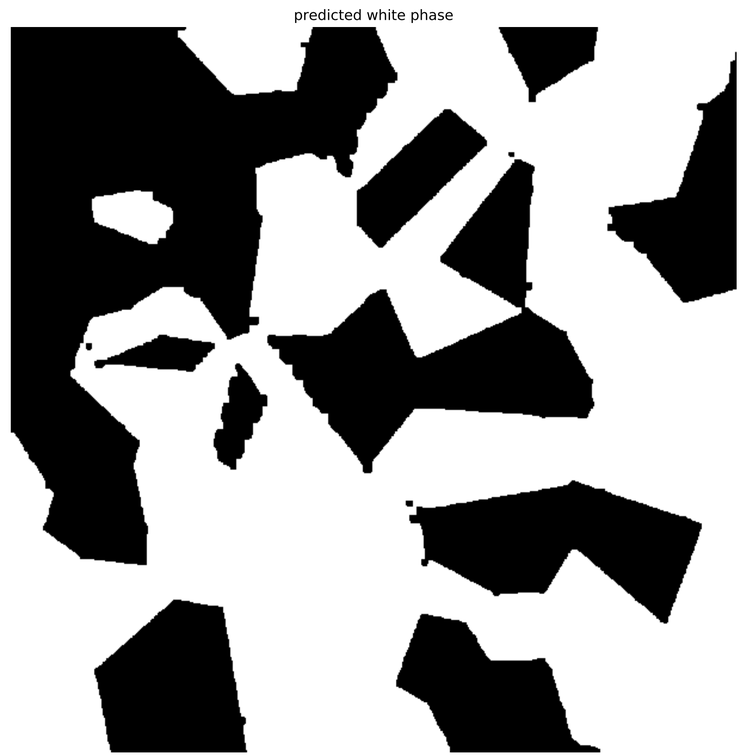


predicted dark phase

correct white phase

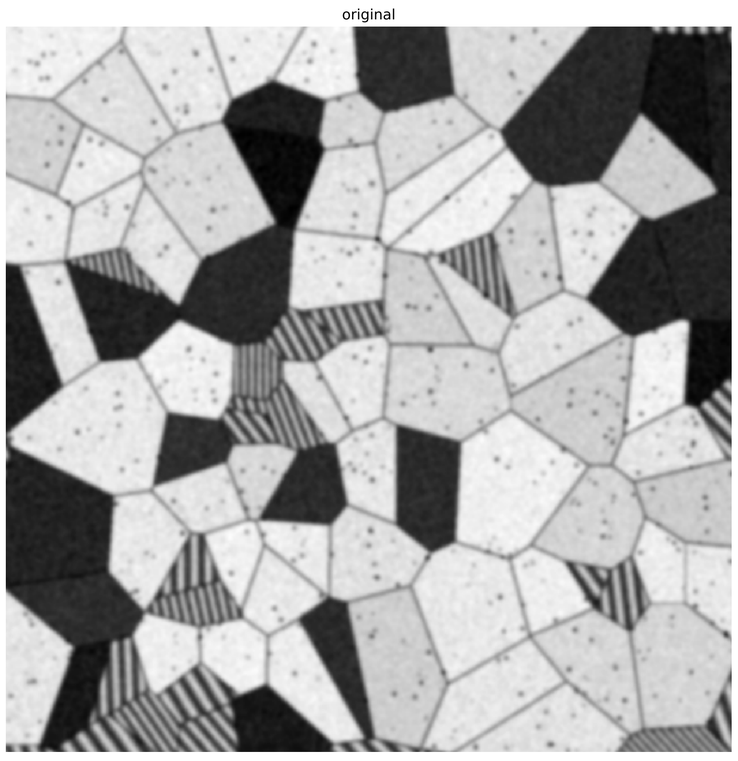


predicted white phase



data/base microstructure/image_111.png

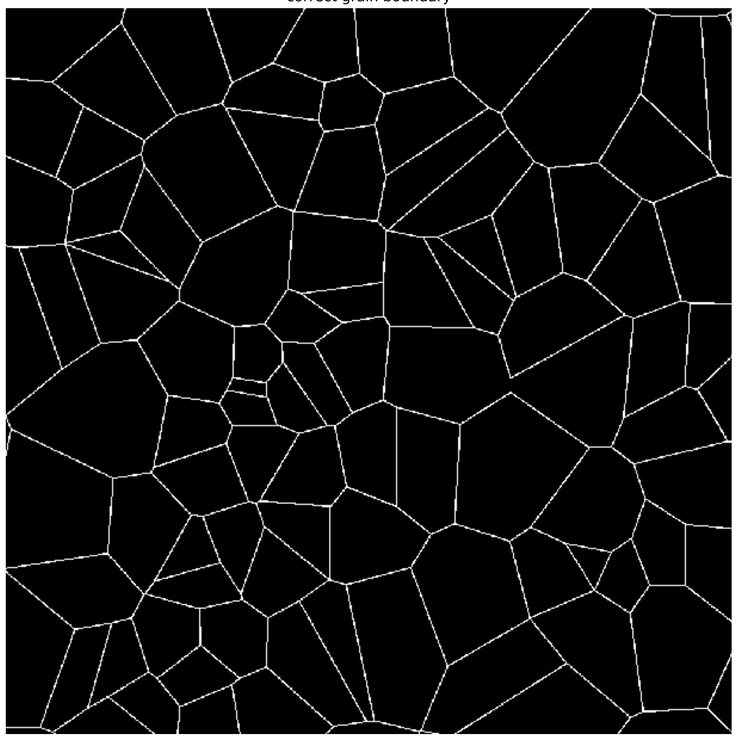
original



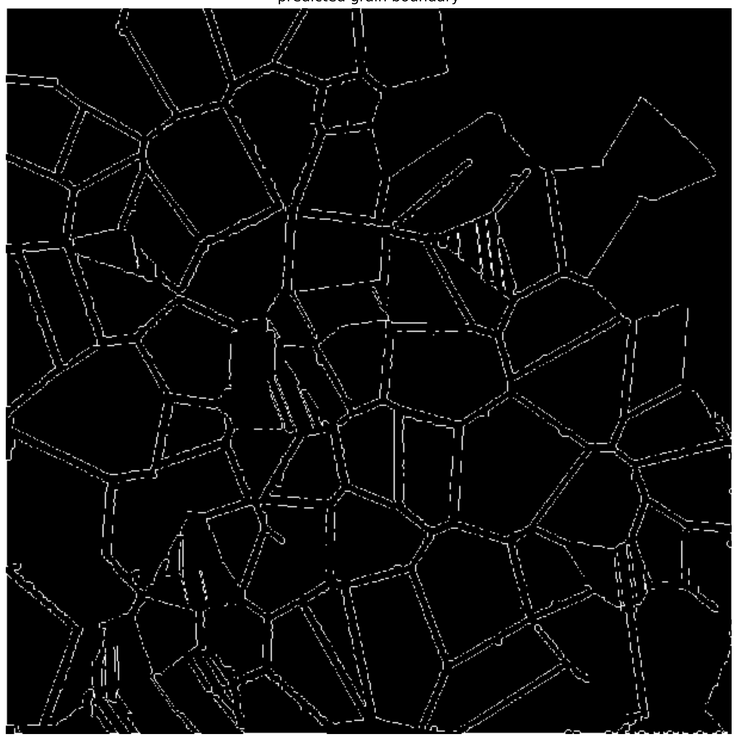
metrics

metric	correct	predicted	error
dark frac	0.239	0.232	0.651%
white frac	0.680	0.647	3.303%
line frac	0.081	0.060	2.086%
ave grain diameter	108.947	97.703	10.321%

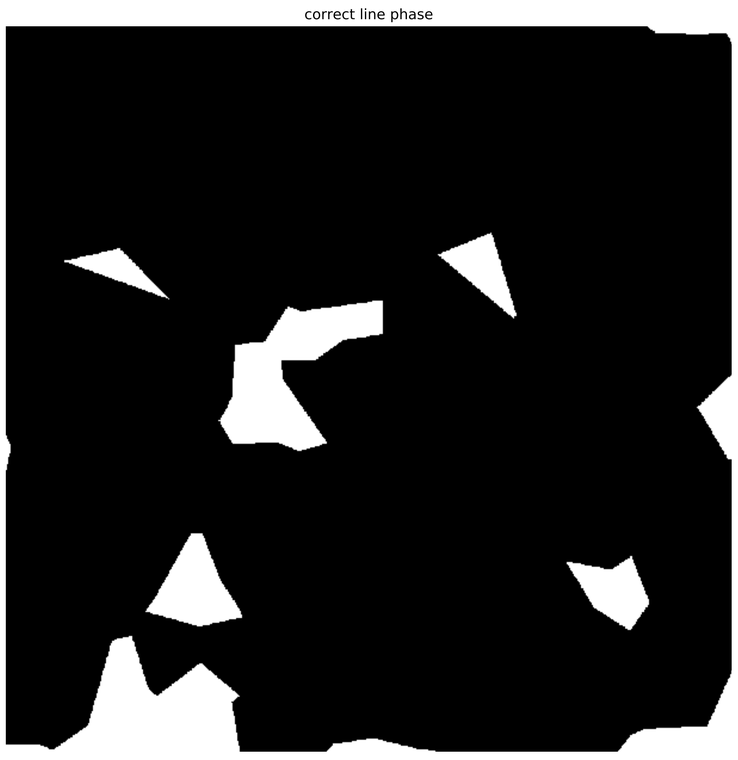
correct grain boundary



predicted grain boundary

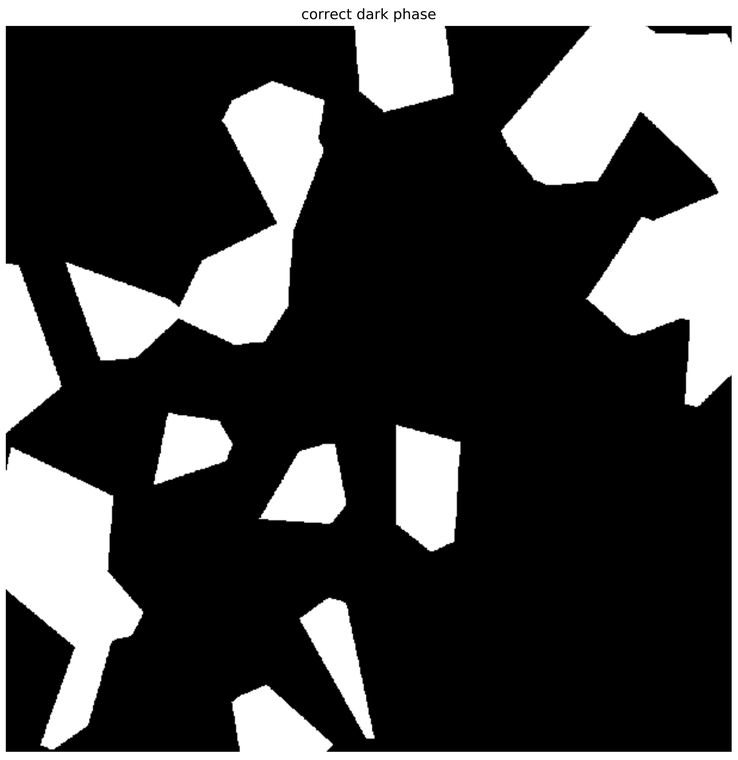


correct line phase

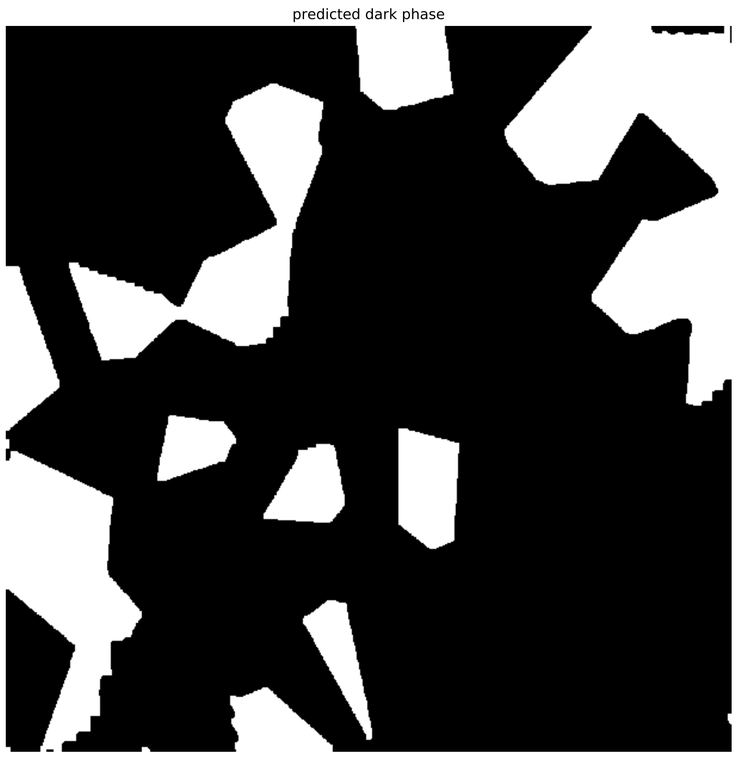


predicted line phase

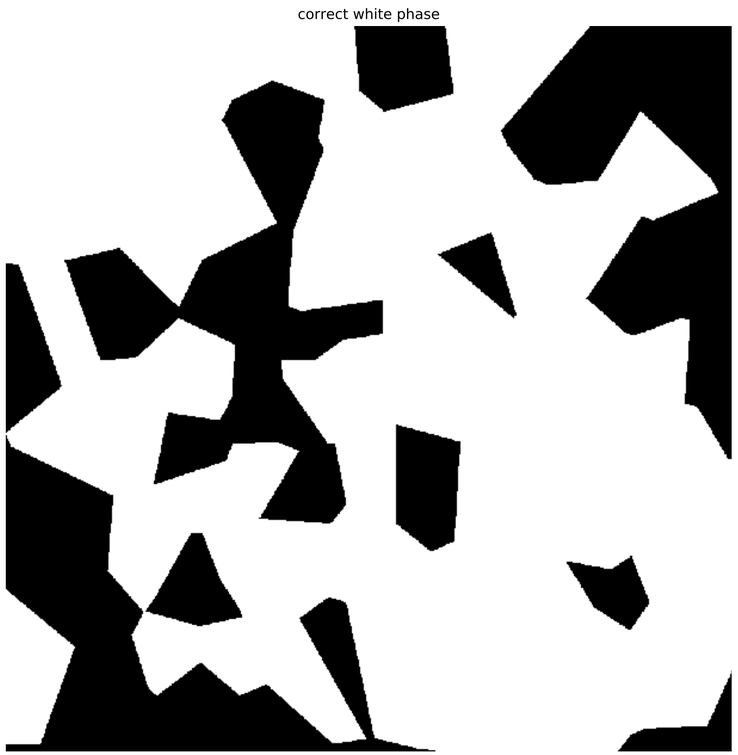
correct dark phase



predicted dark phase



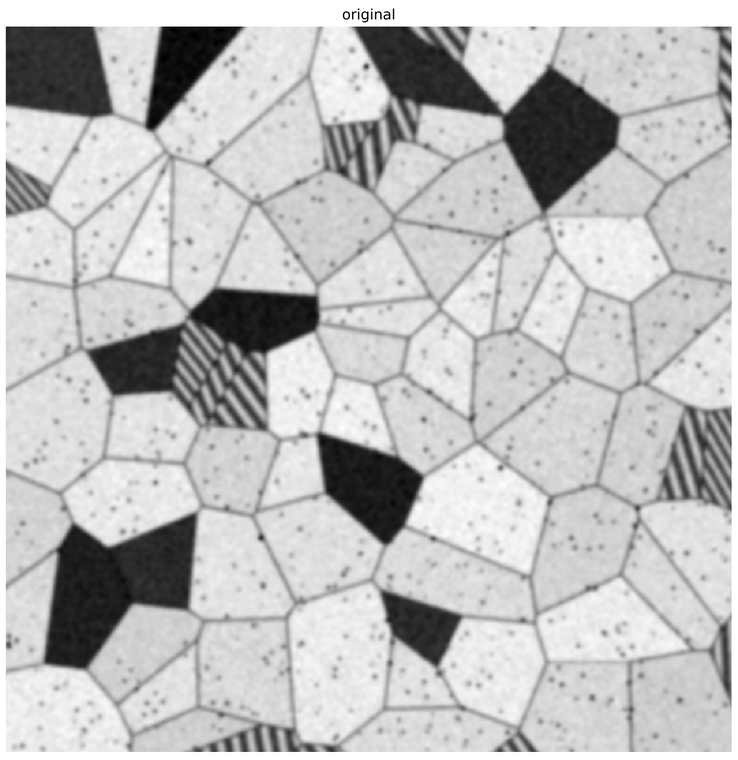
correct white phase



predicted white phase

data/base microstructure/image_112.png

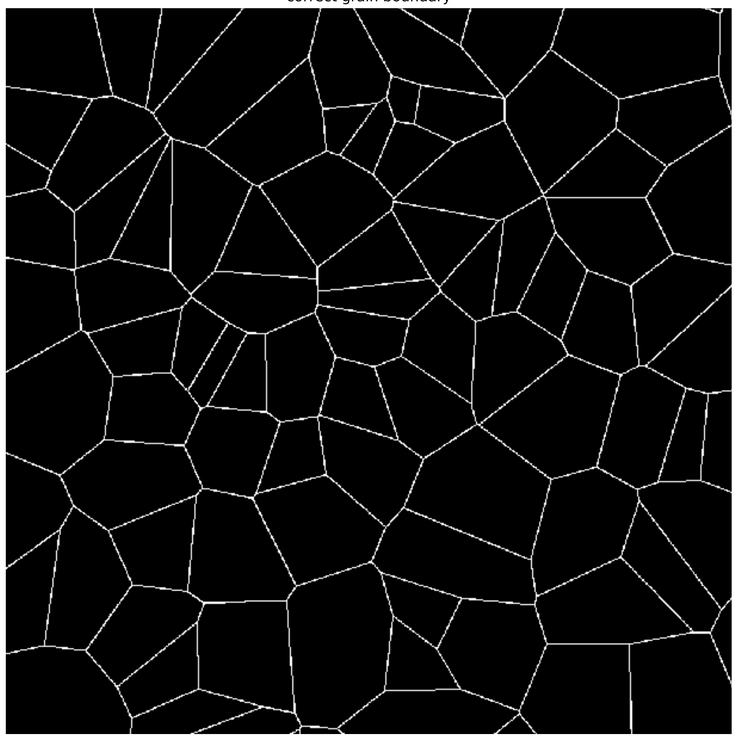
original



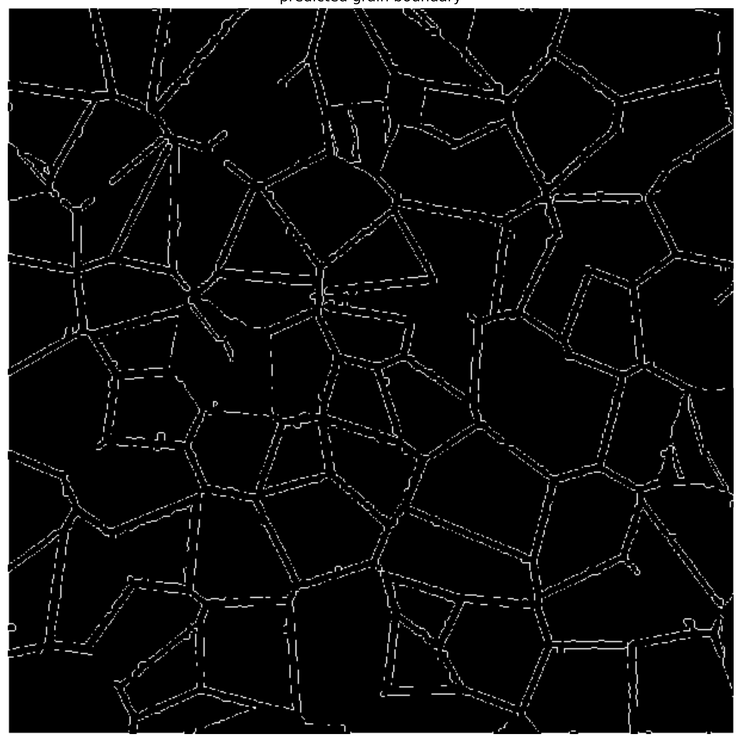
metrics

metric	correct	predicted	error
dark frac	0.118	0.114	0.435%
white frac	0.833	0.809	2.402%
line frac	0.049	0.037	1.199%
ave grain diameter	115.312	104.141	9.688%

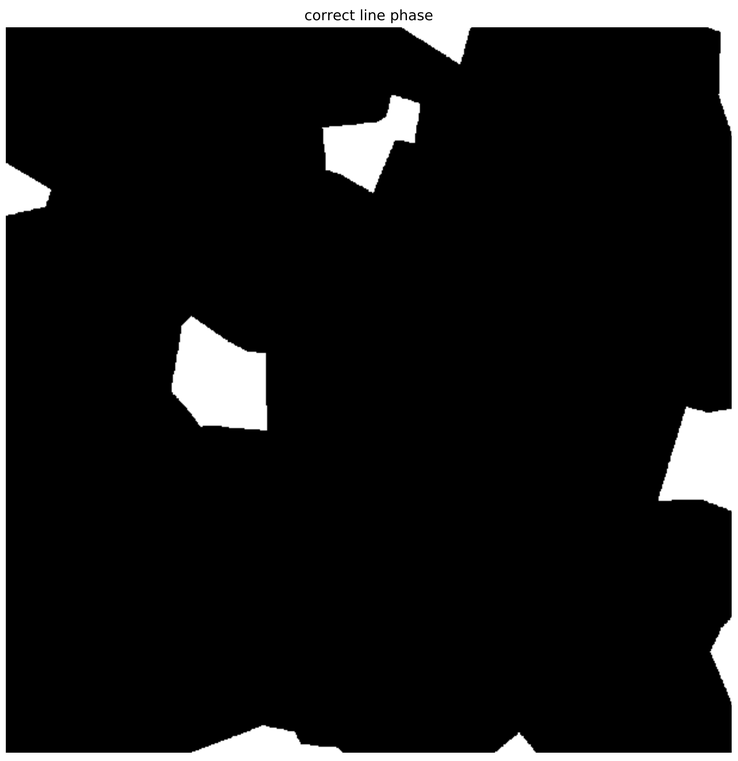
correct grain boundary



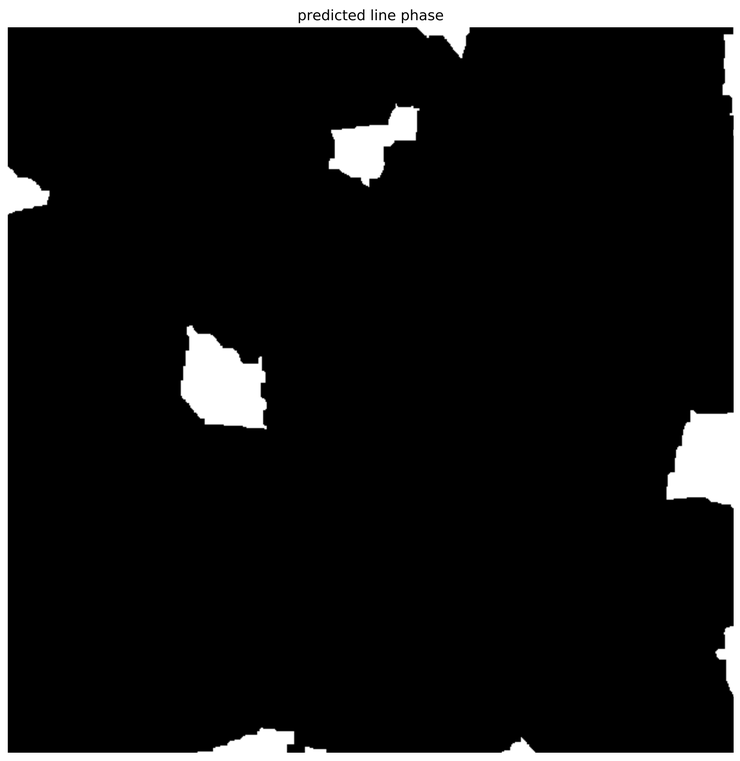
predicted grain boundary



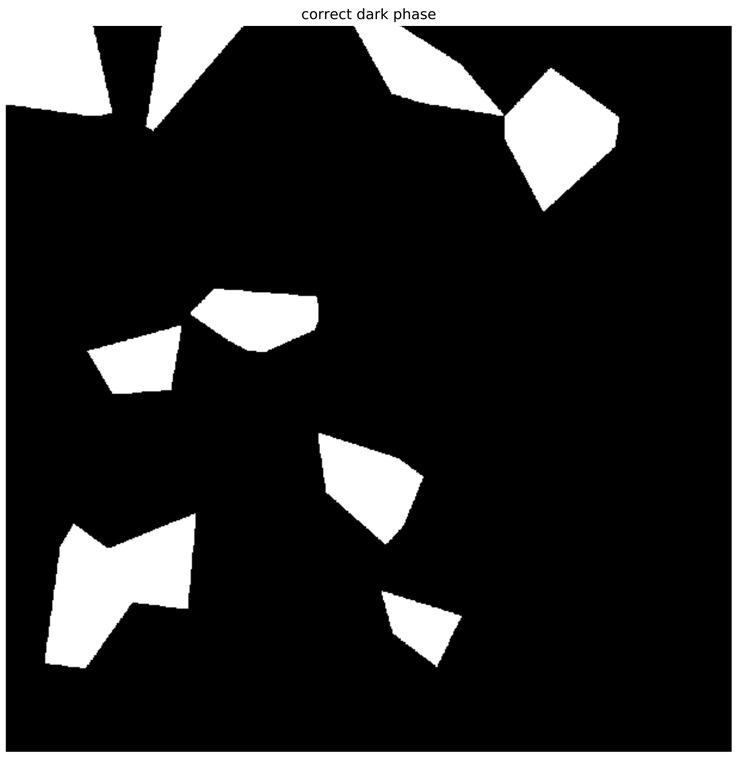
correct line phase



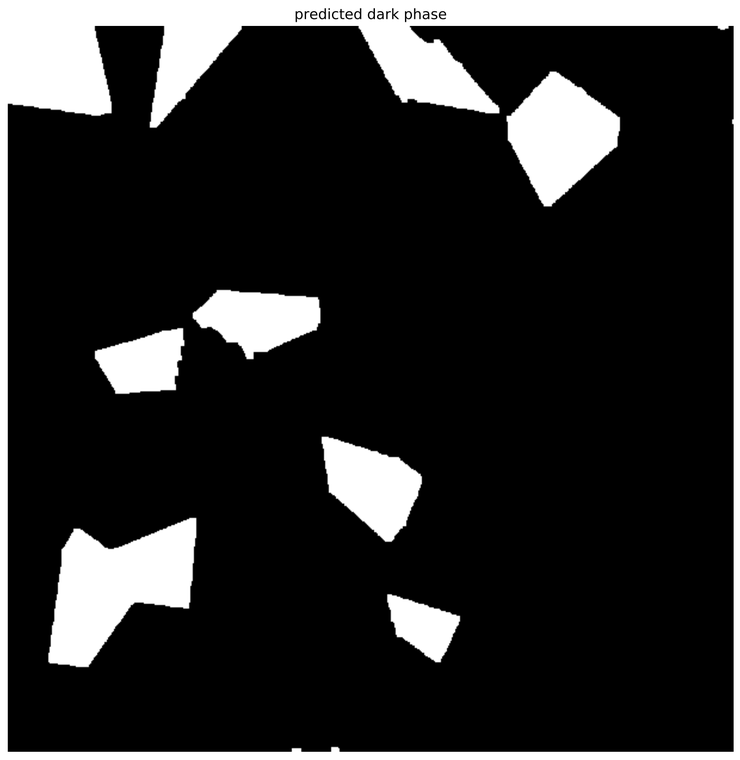
predicted line phase



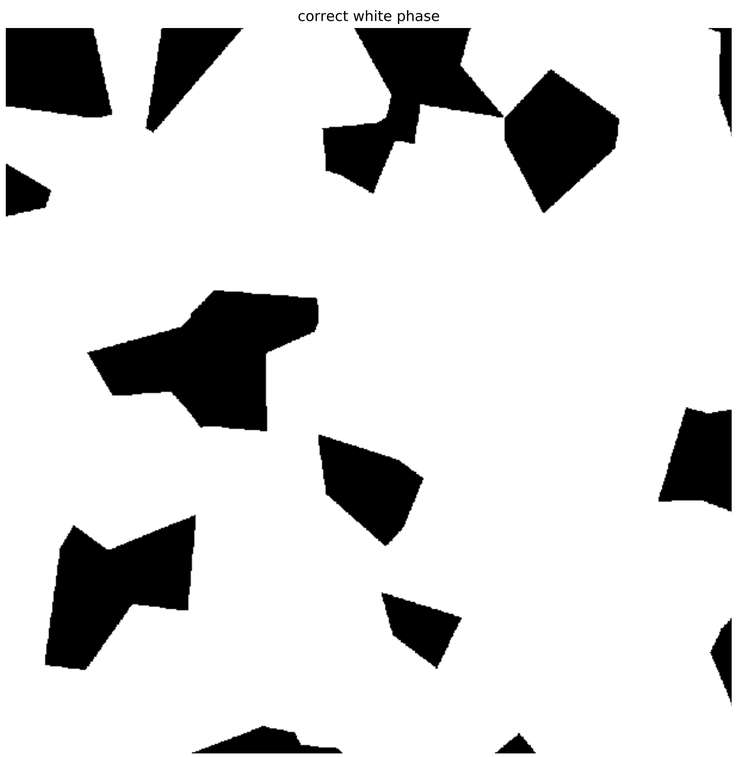
correct dark phase



predicted dark phase



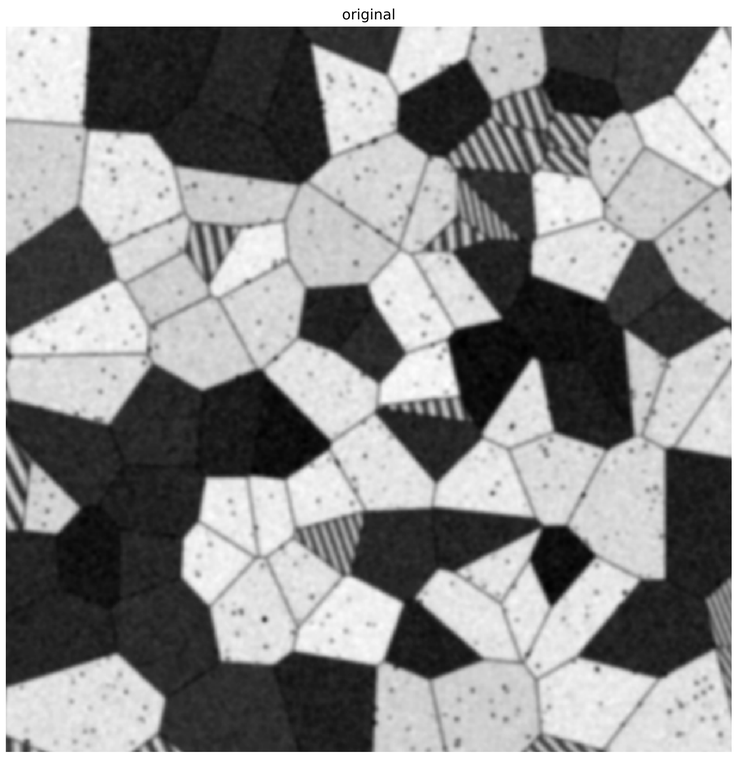
correct white phase



predicted white phase

data/base microstructure/image_113.png

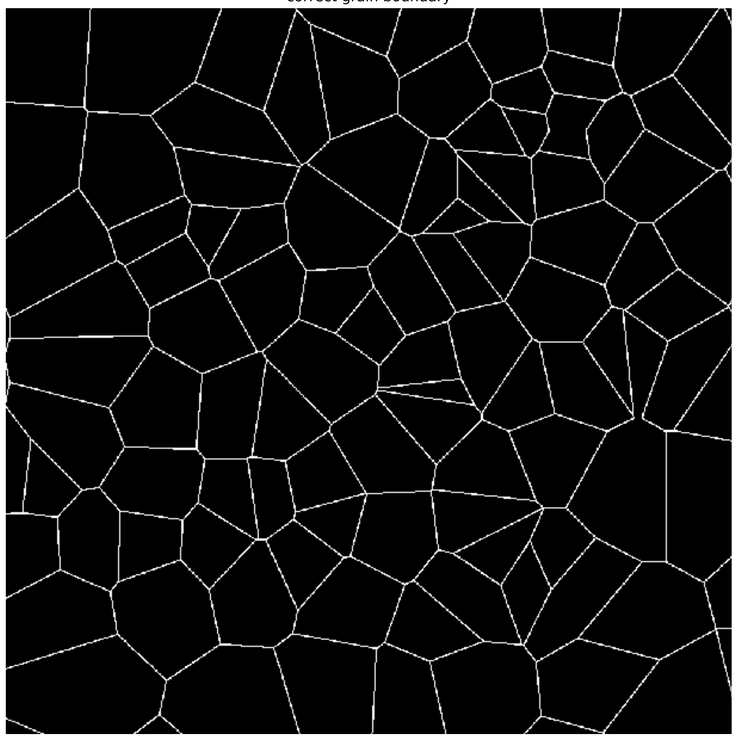
original



metrics

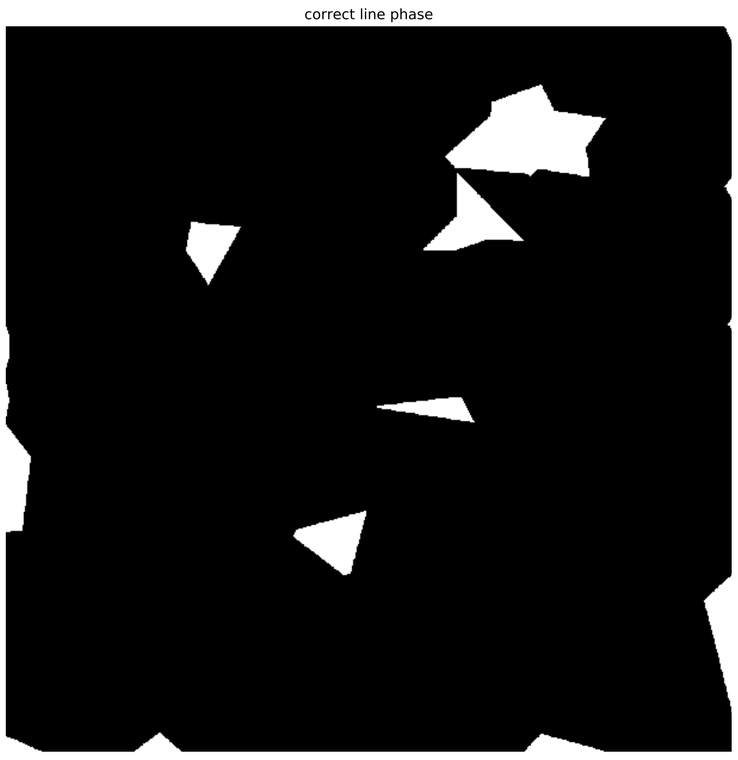
metric	correct	predicted	error
dark frac	0.409	0.398	1.121%
white frac	0.547	0.509	3.743%
line frac	0.044	0.025	1.854%
ave grain diameter	105.891	104.158	1.637%

correct grain boundary



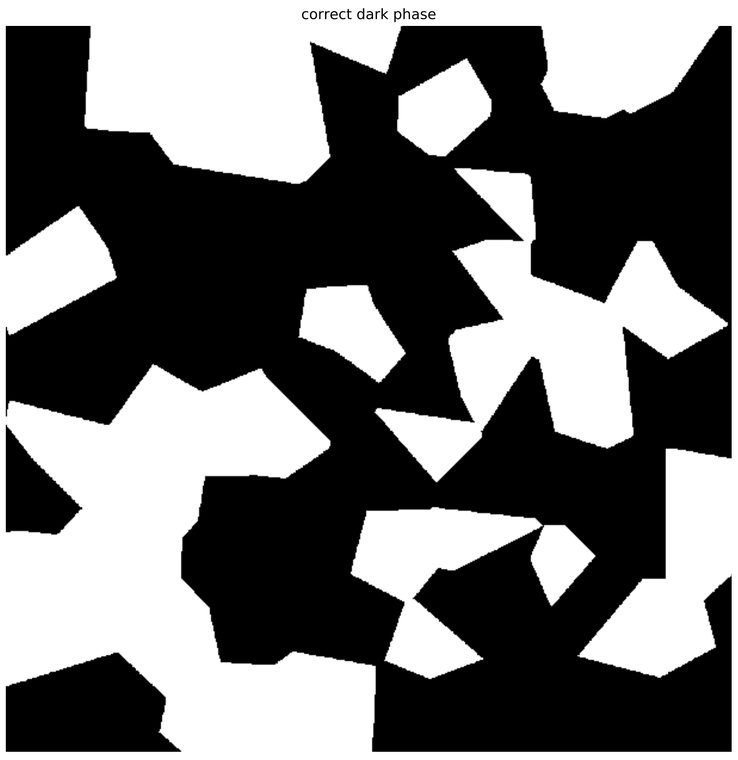
predicted grain boundary

correct line phase

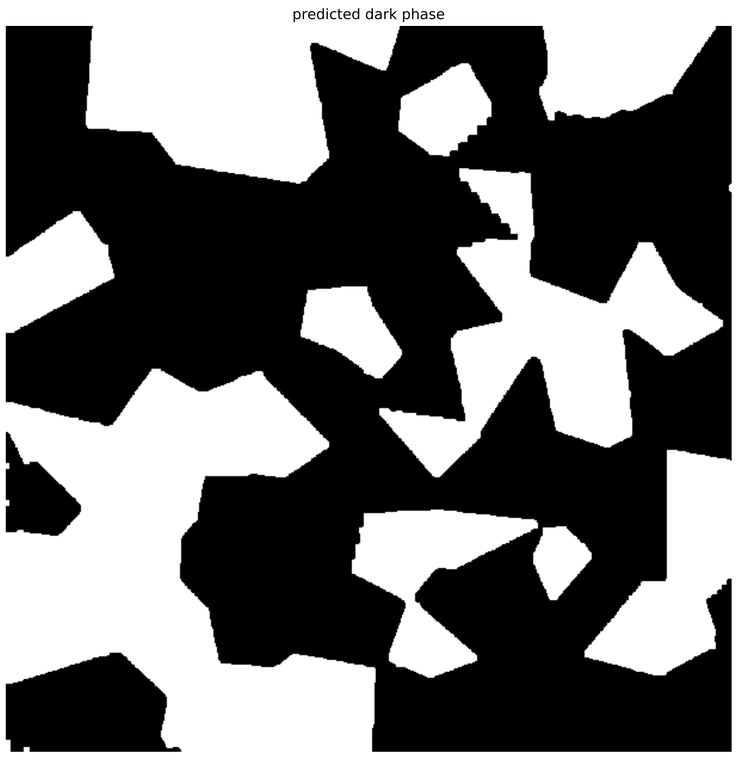


predicted line phase

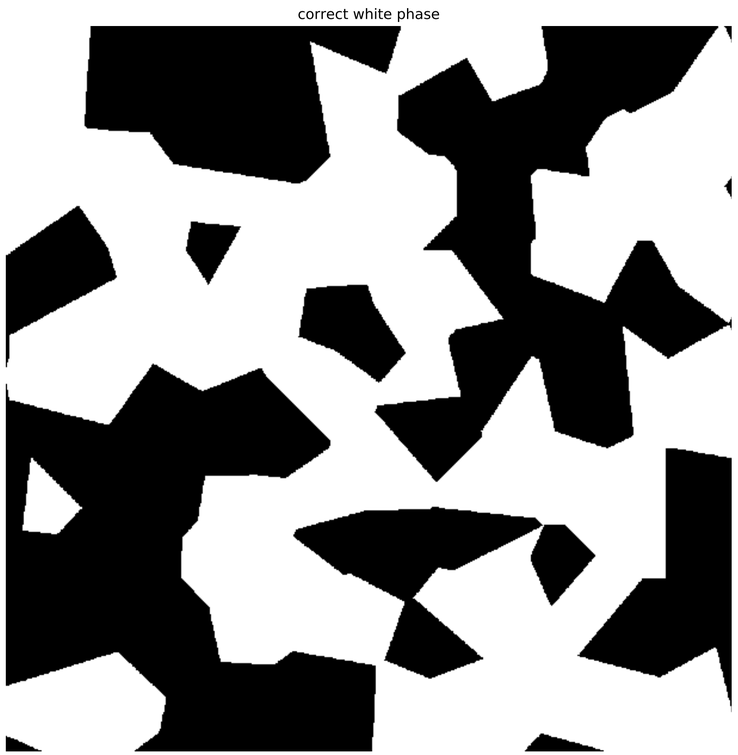
correct dark phase



predicted dark phase



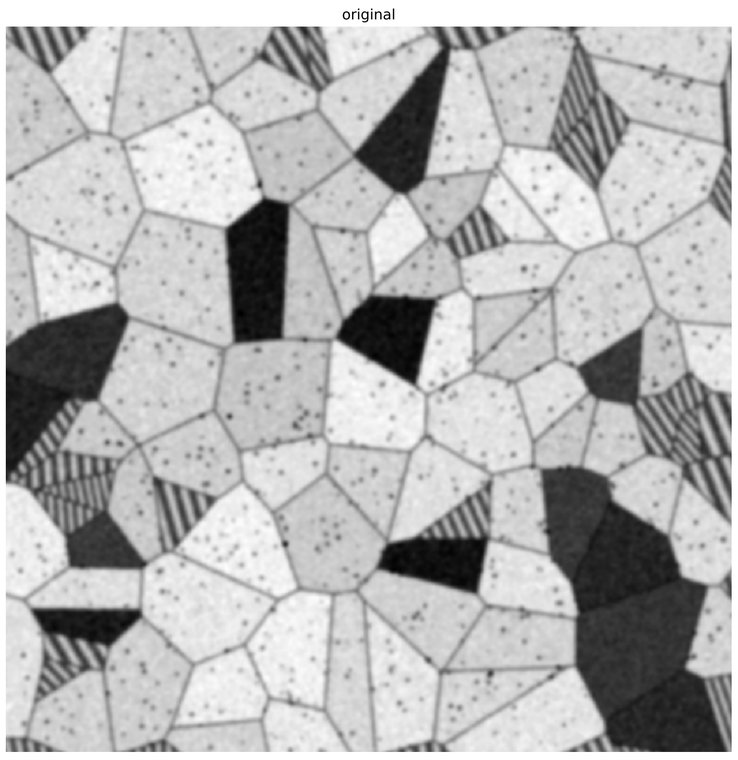
correct white phase



predicted white phase

data/base microstructure/image_114.png

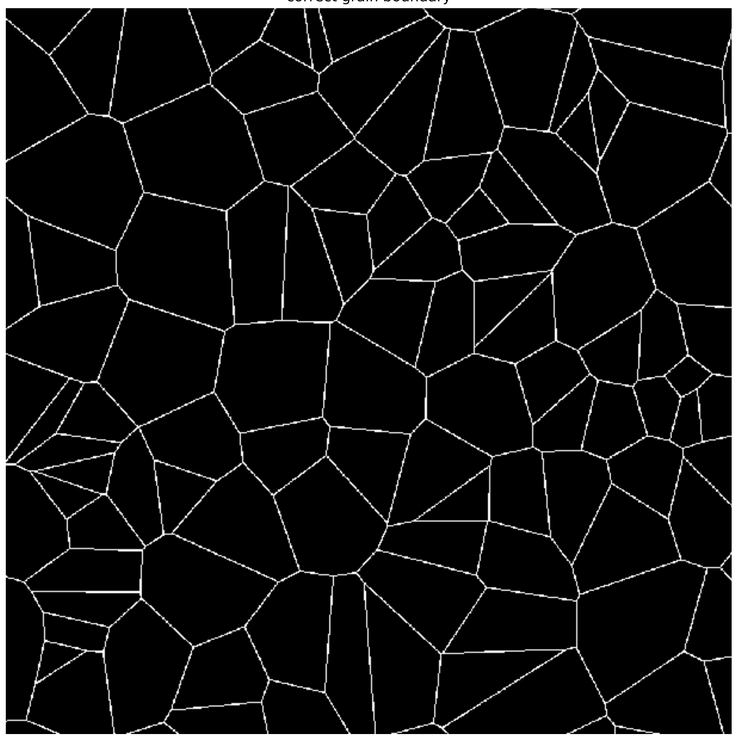
original



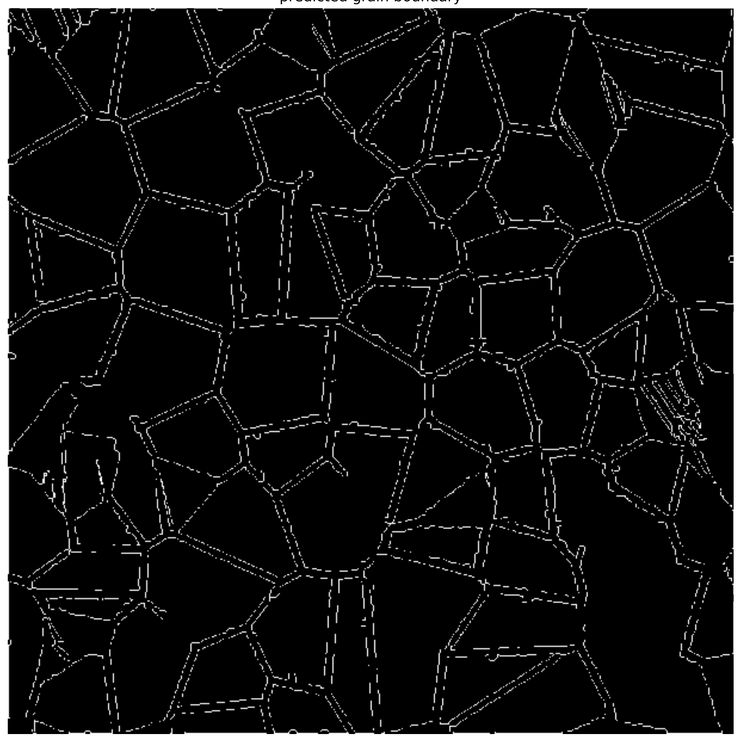
metrics

metric	correct	predicted	error
dark frac	0.138	0.135	0.280%
white frac	0.782	0.751	3.081%
line frac	0.081	0.058	2.260%
ave grain diameter	103.400	98.790	4.459%

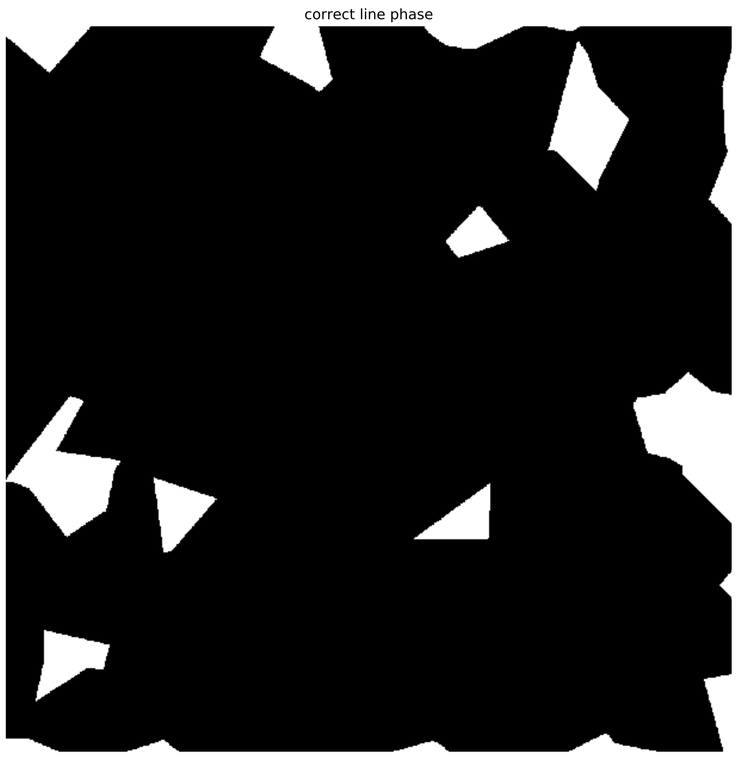
correct grain boundary



predicted grain boundary



correct line phase



predicted line phase

correct dark phase

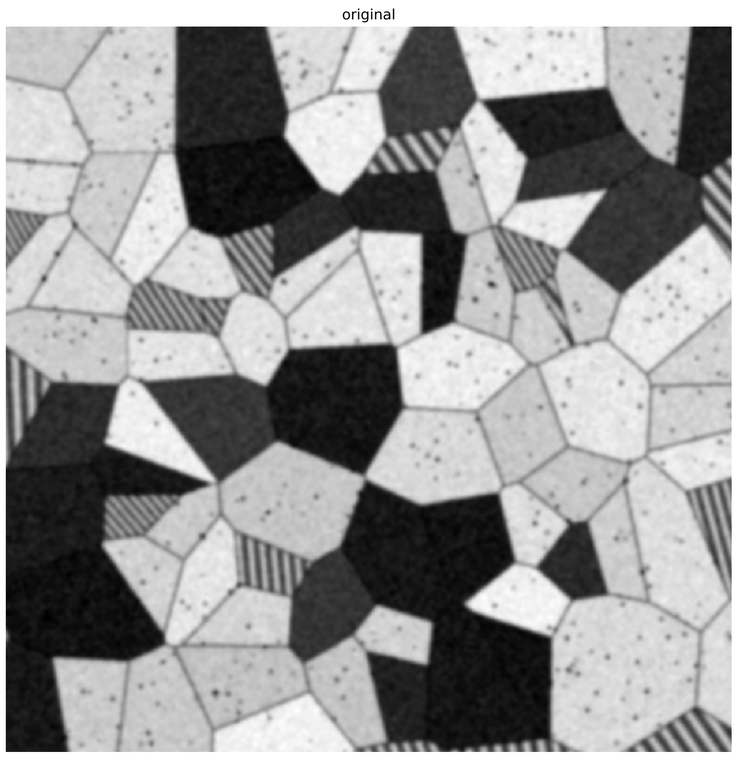
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_115.png

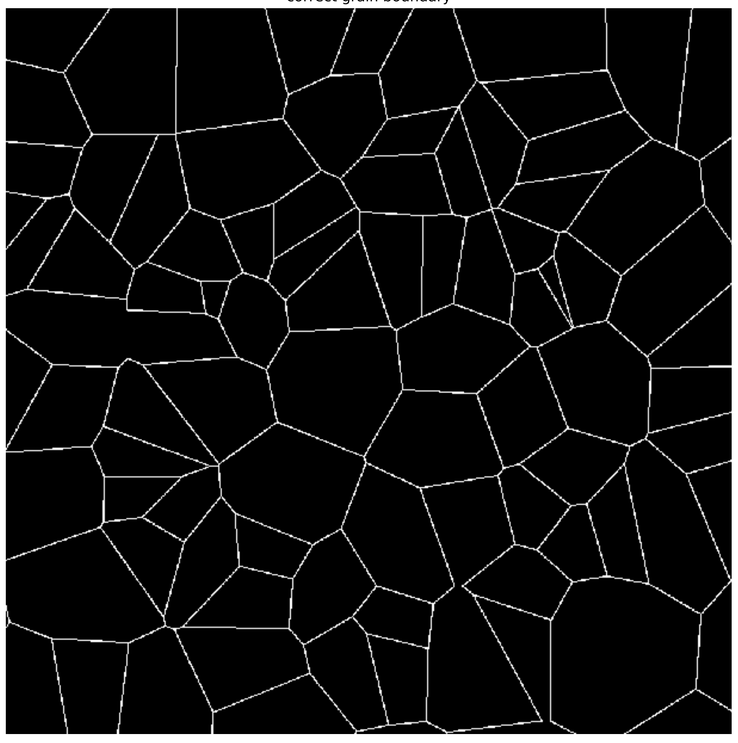
original



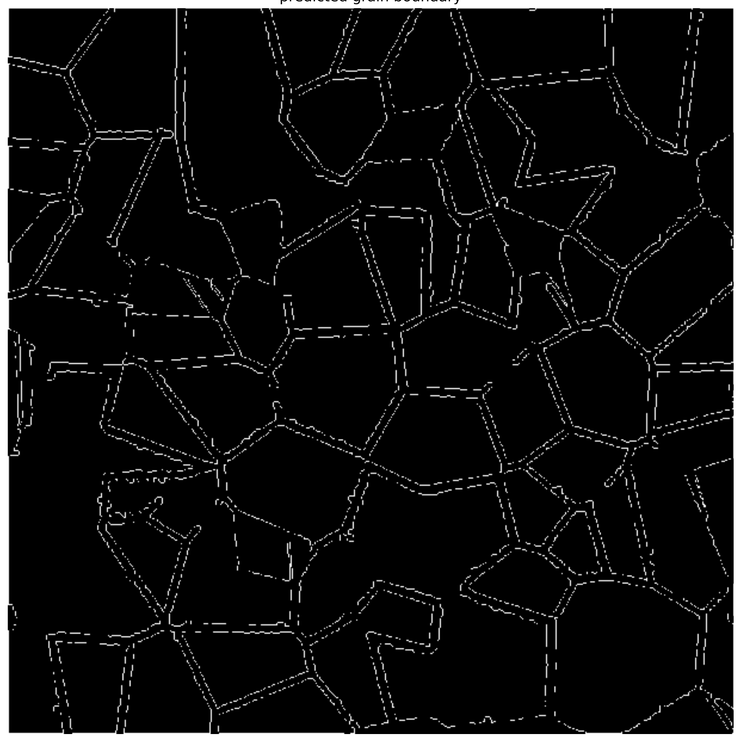
metrics

metric	correct	predicted	error
dark frac	0.334	0.325	0.900%
white frac	0.606	0.573	3.240%
line frac	0.060	0.039	2.134%
ave grain diameter	112.517	112.877	0.319%

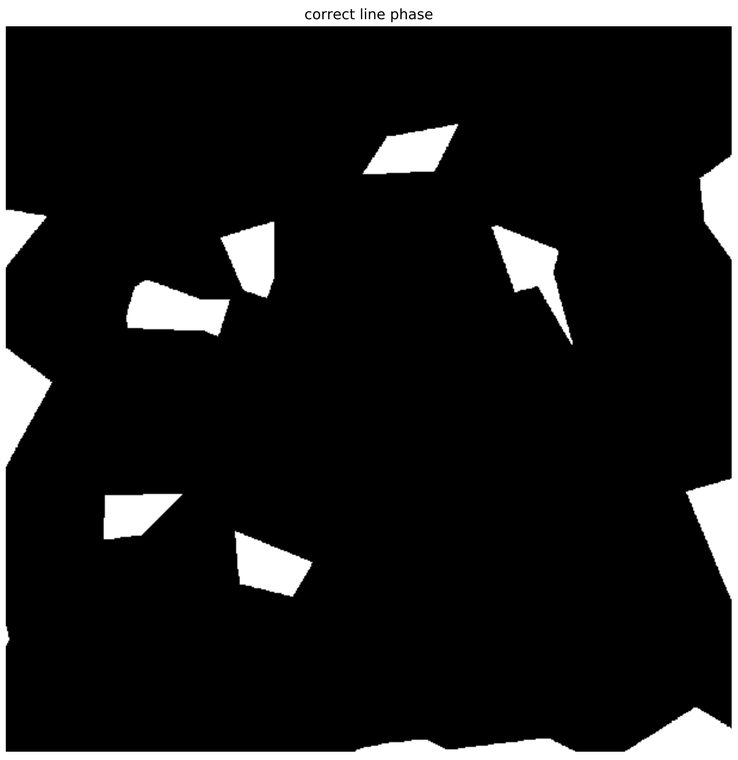
correct grain boundary



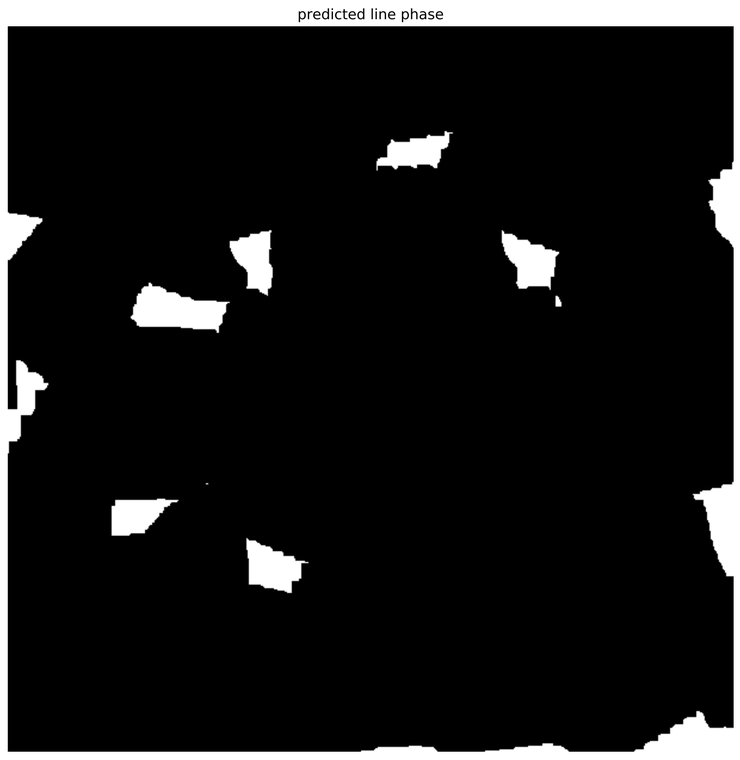
predicted grain boundary



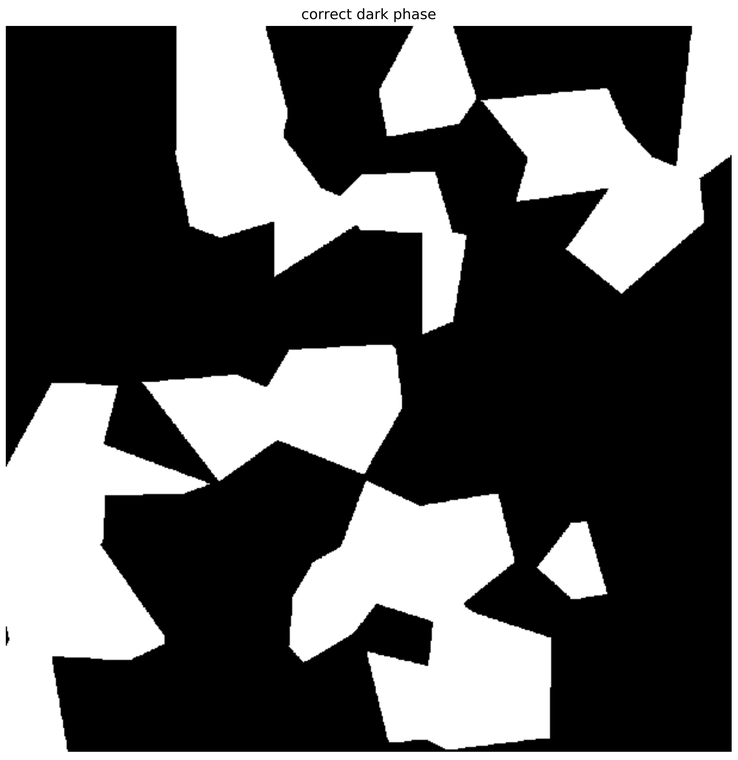
correct line phase



predicted line phase

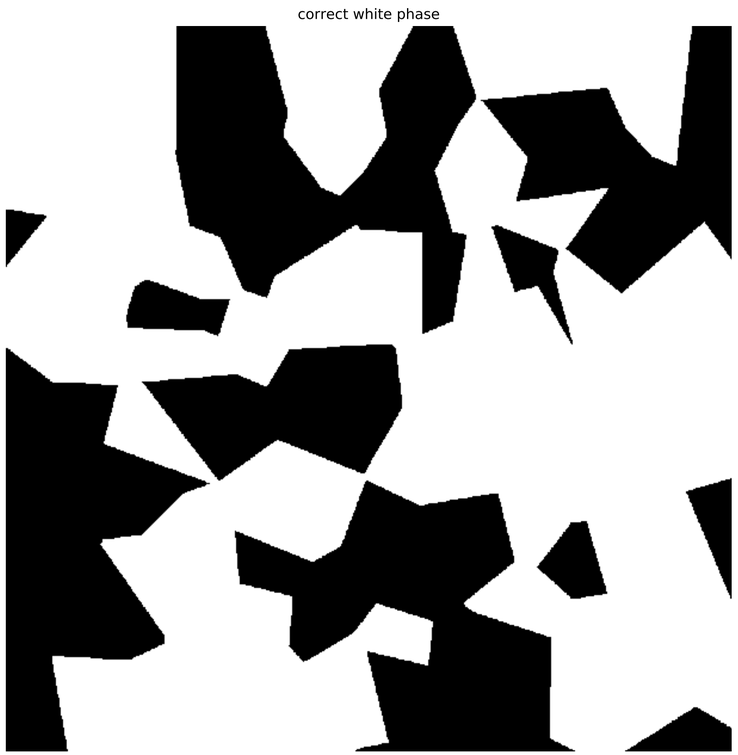


correct dark phase



predicted dark phase

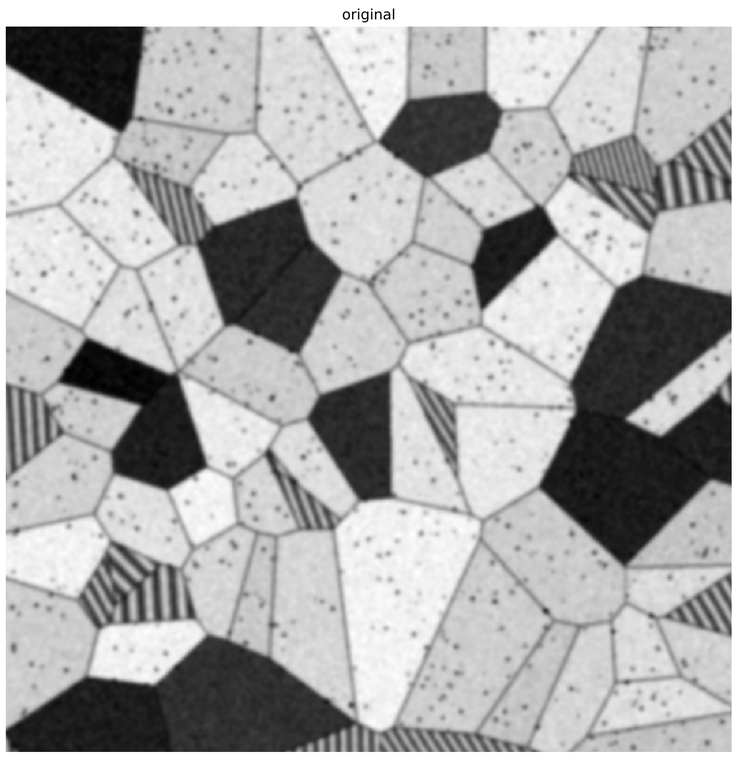
correct white phase



predicted white phase

data/base microstructure/image_116.png

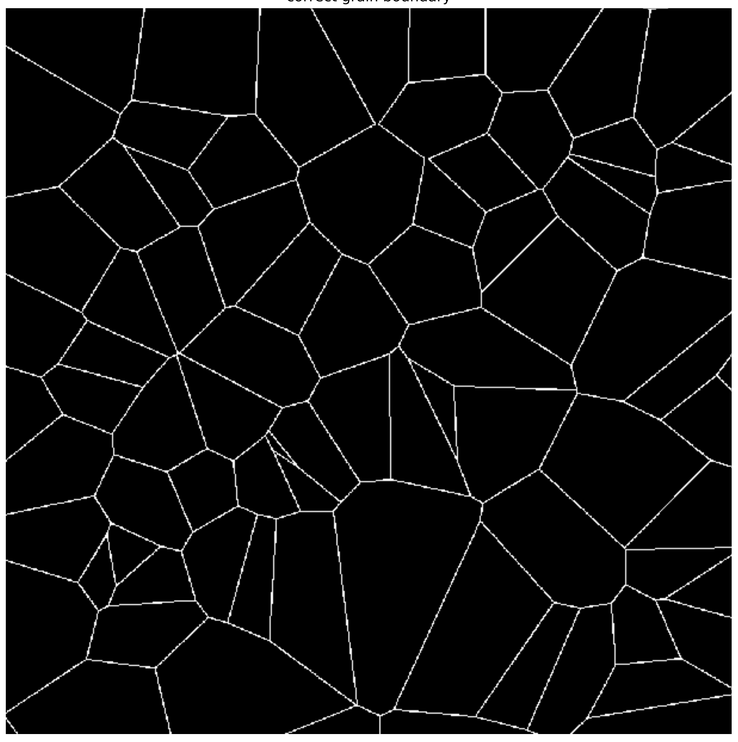
original



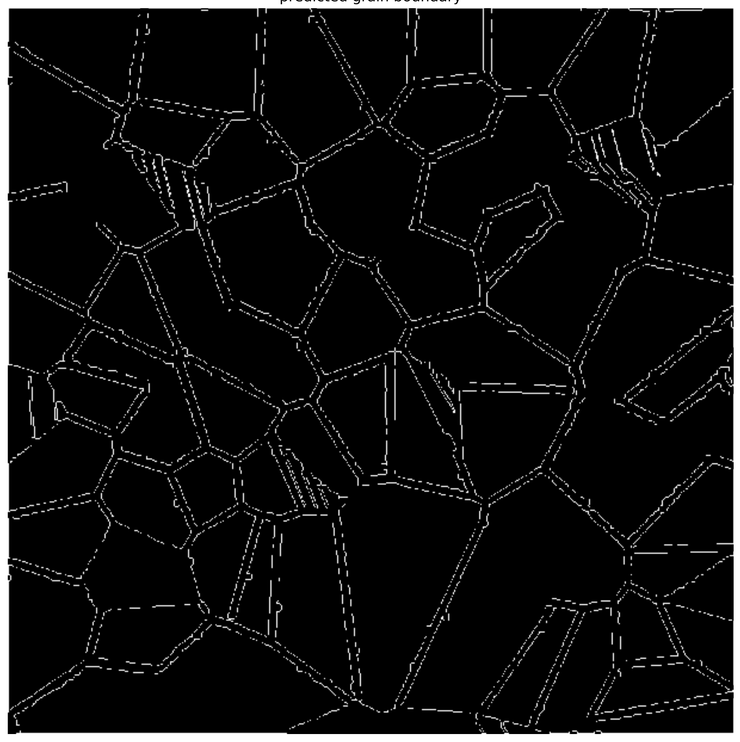
metrics

metric	correct	predicted	error
dark frac	0.207	0.200	0.722%
white frac	0.731	0.698	3.317%
line frac	0.062	0.048	1.369%
ave grain diameter	120.791	114.486	5.220%

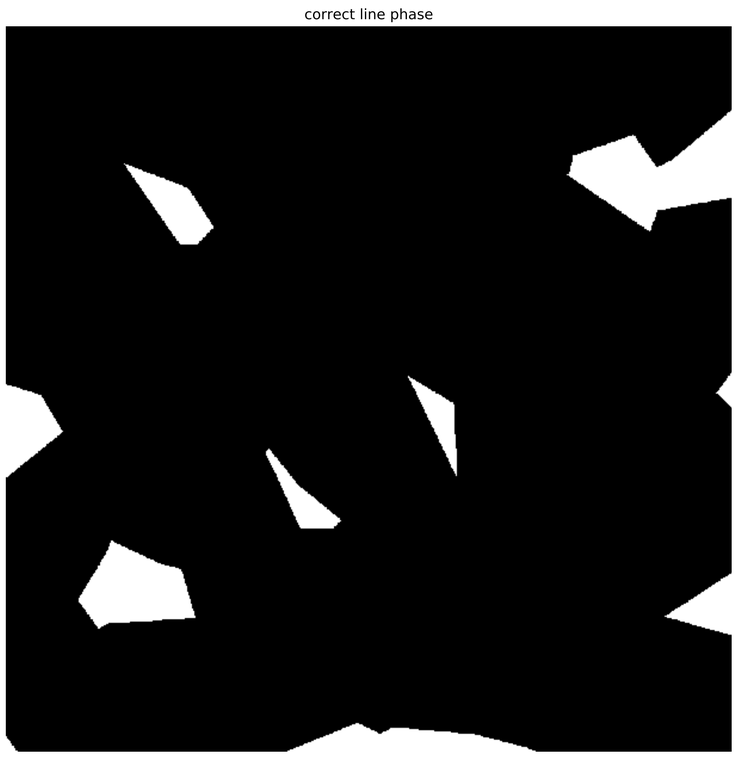
correct grain boundary



predicted grain boundary

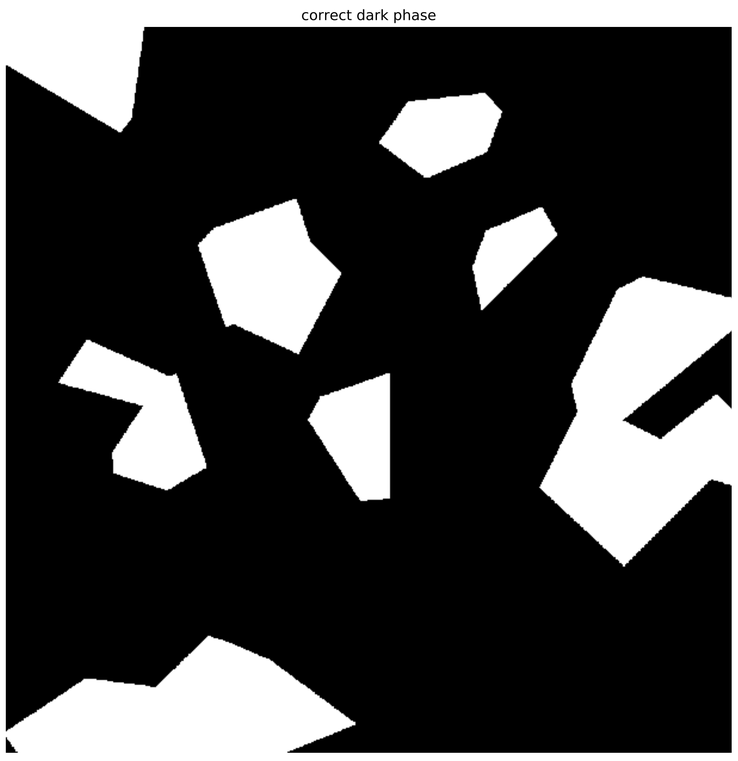


correct line phase

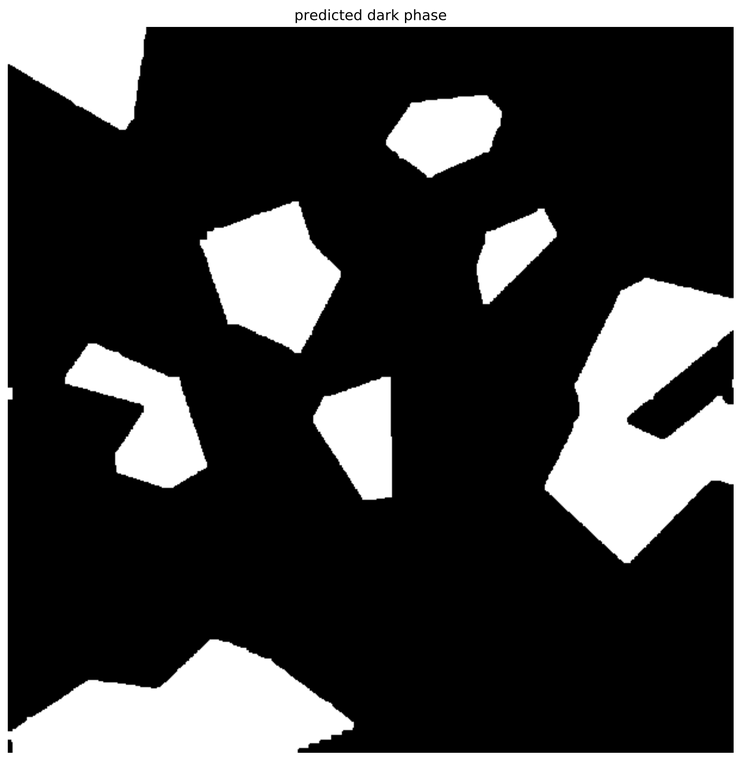


predicted line phase

correct dark phase

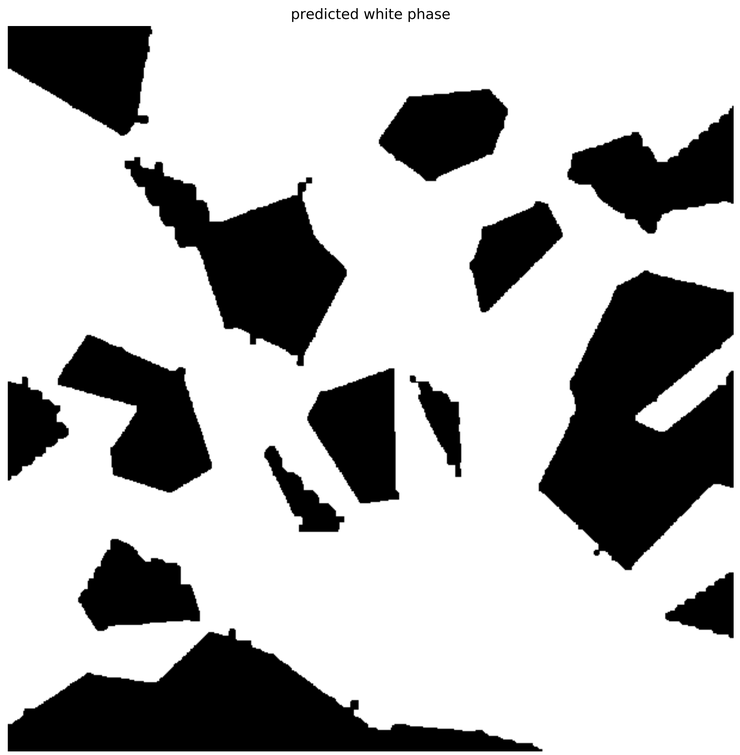


predicted dark phase



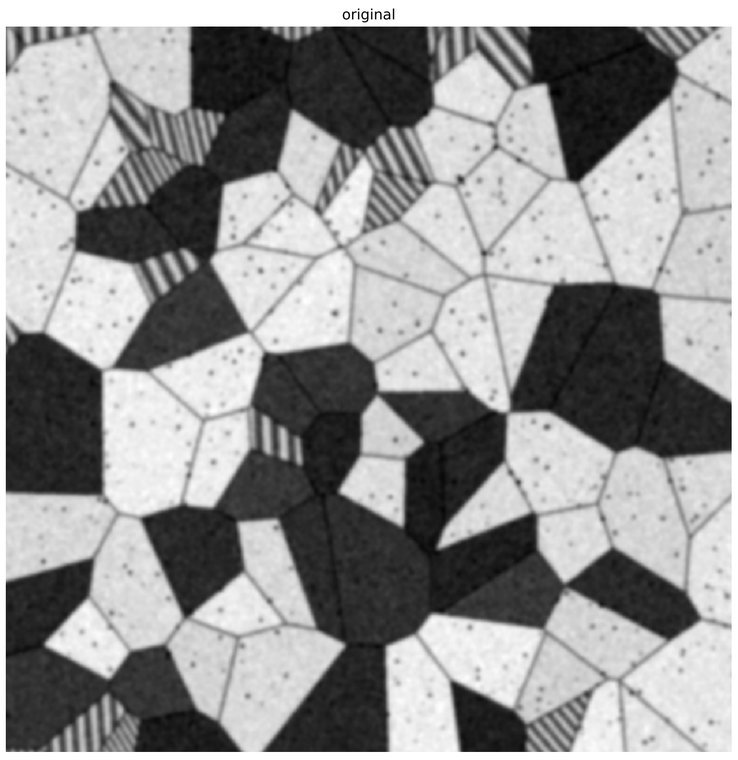
correct white phase

predicted white phase



data/base microstructure/image_117.png

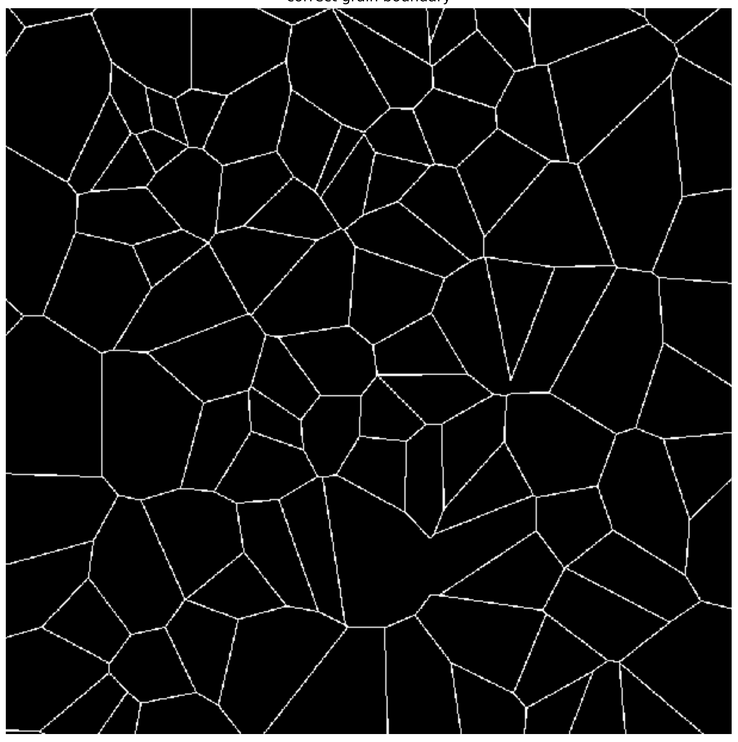
original



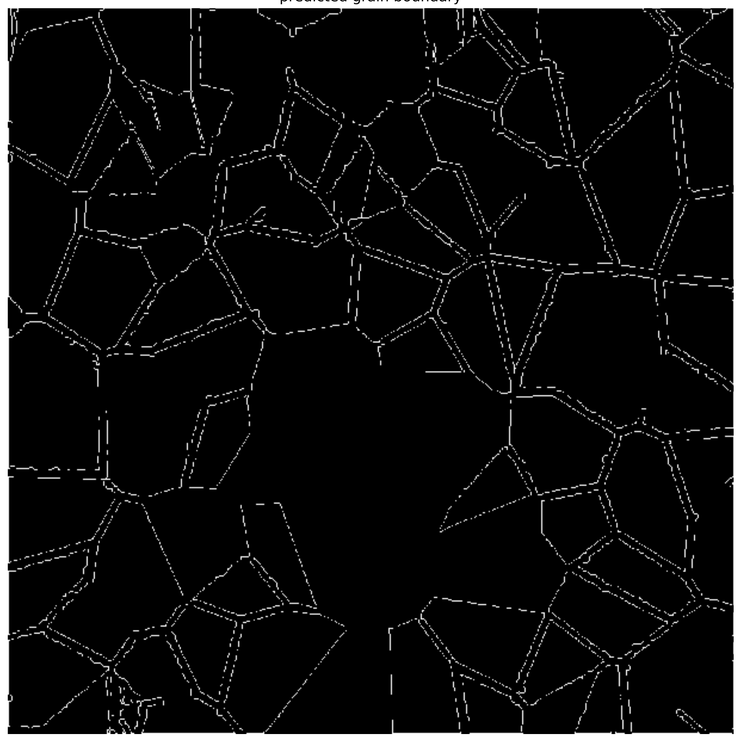
metrics

metric	correct	predicted	error
dark frac	0.371	0.364	0.663%
white frac	0.567	0.529	3.766%
line frac	0.063	0.039	2.344%
ave grain diameter	106.080	100.955	4.831%

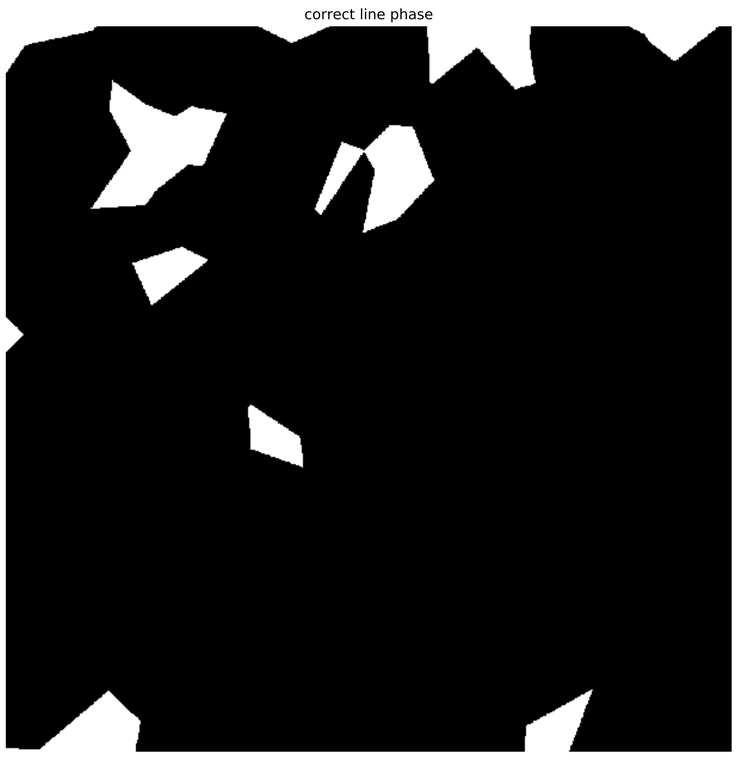
correct grain boundary



predicted grain boundary



correct line phase

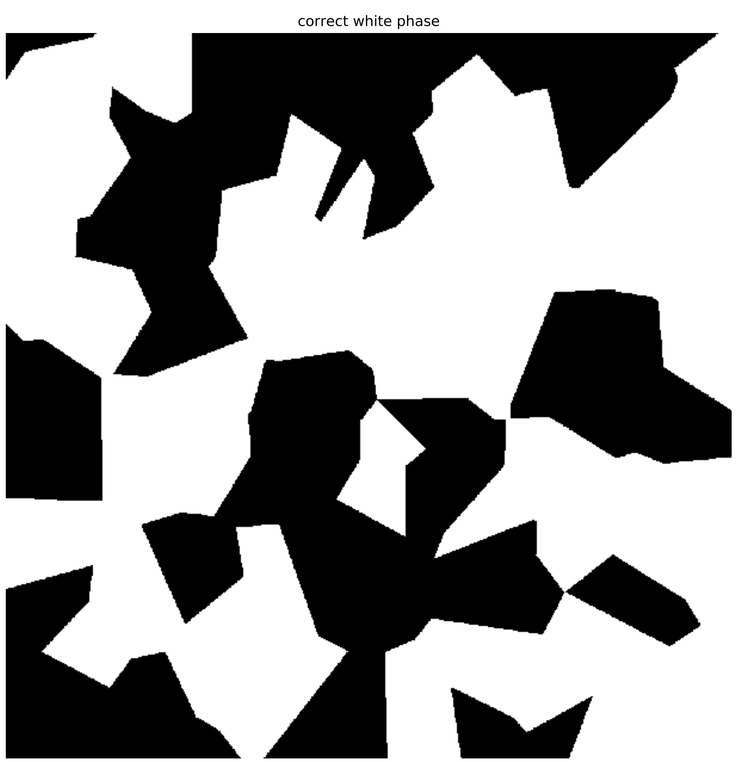


predicted line phase

correct dark phase

predicted dark phase

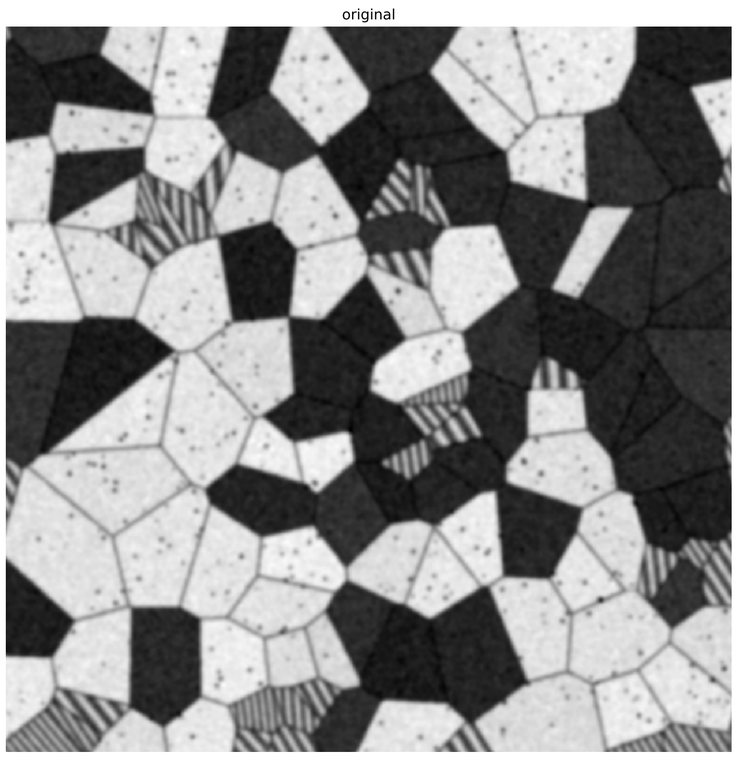
correct white phase



predicted white phase

data/base microstructure/image_118.png

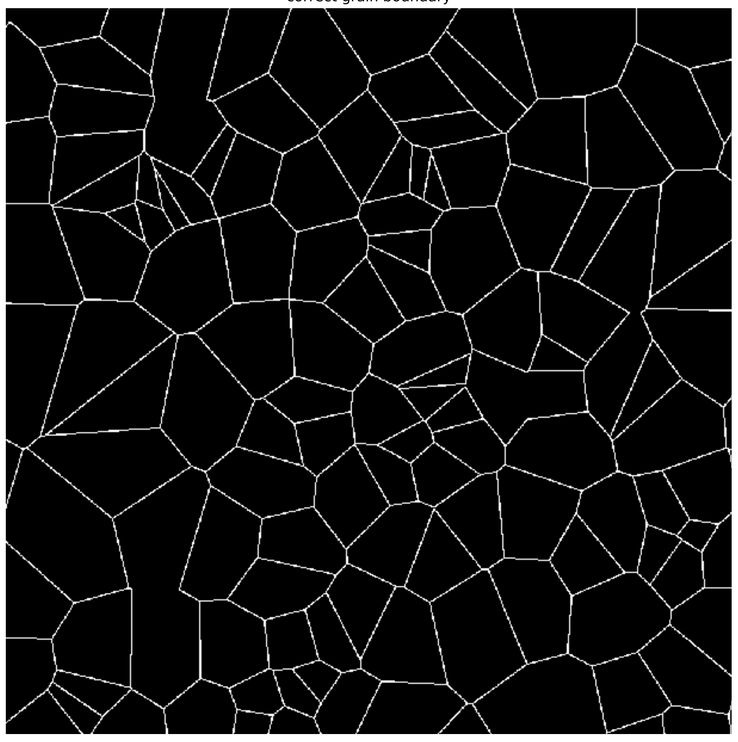
original



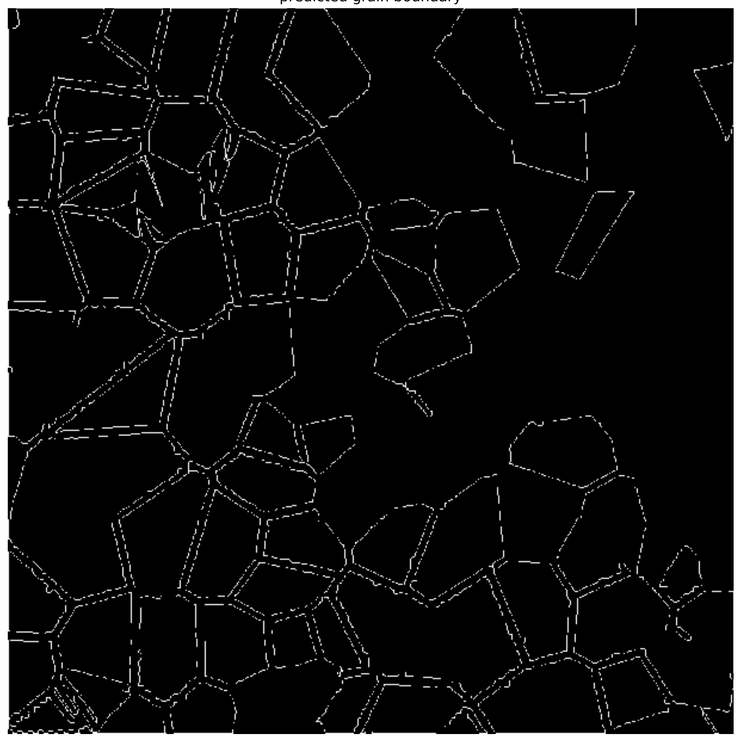
metrics

metric	correct	predicted	error
dark frac	0.424	0.415	0.844%
white frac	0.506	0.463	4.340%
line frac	0.070	0.044	2.603%
ave grain diameter	93.204	89.188	4.309%

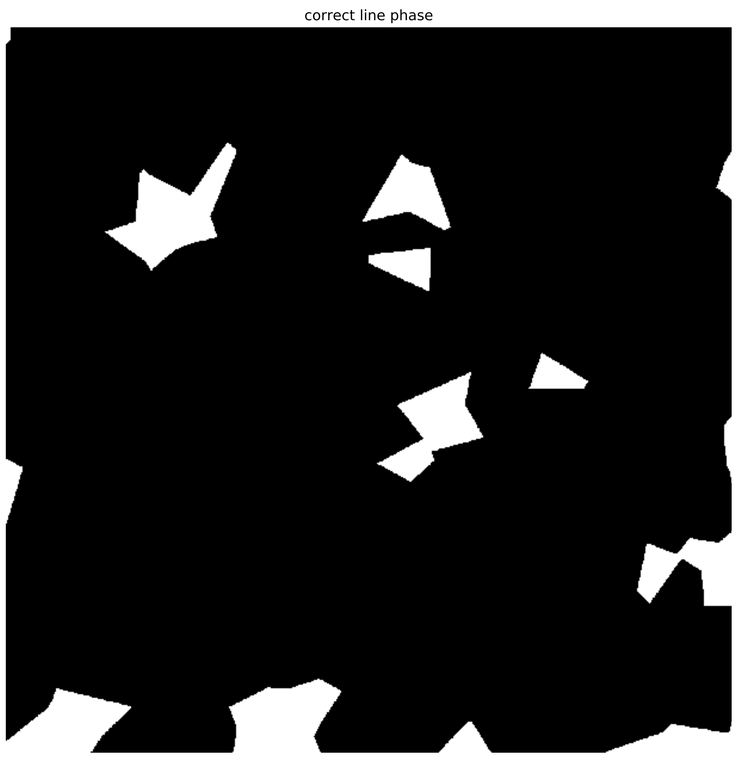
correct grain boundary



predicted grain boundary

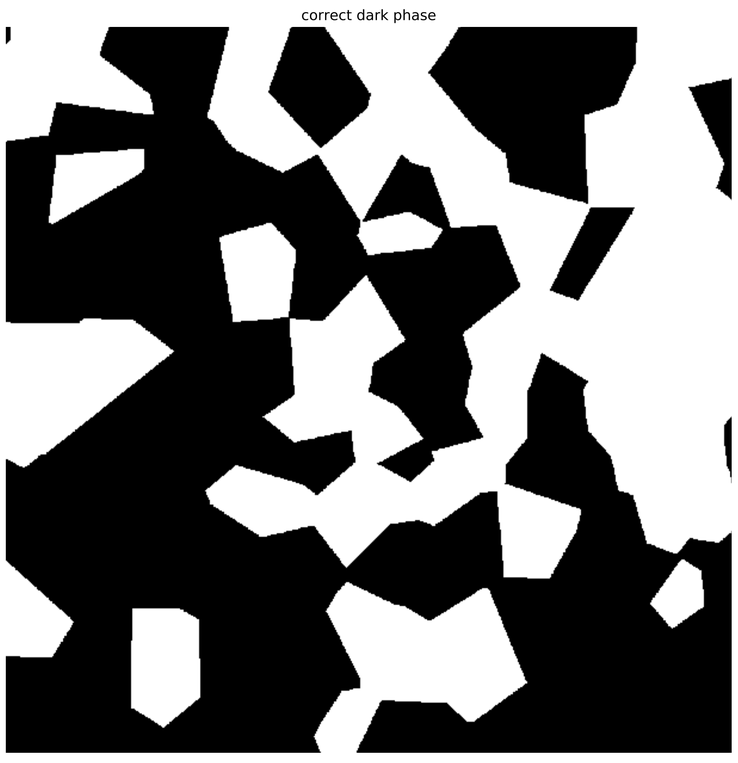


correct line phase

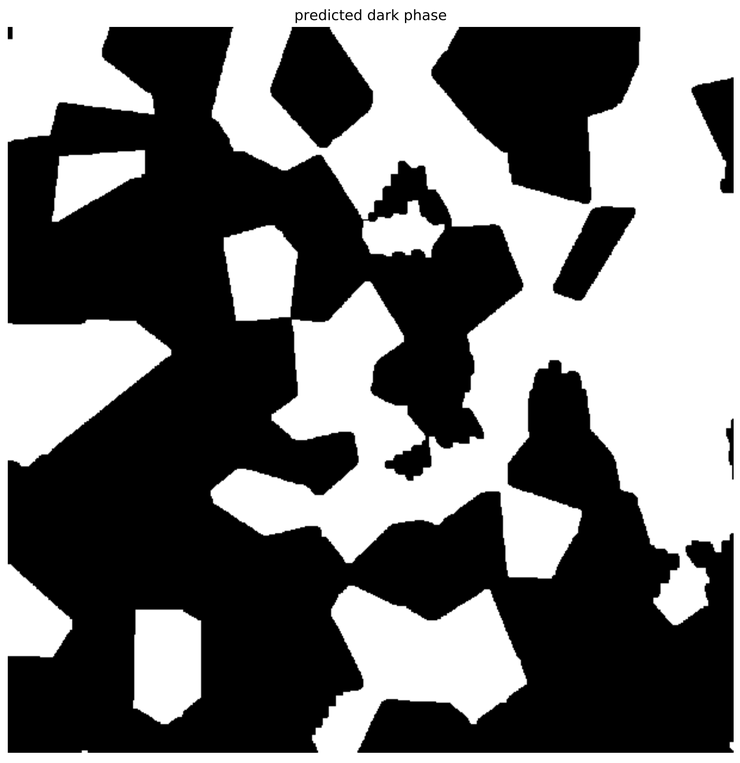


predicted line phase

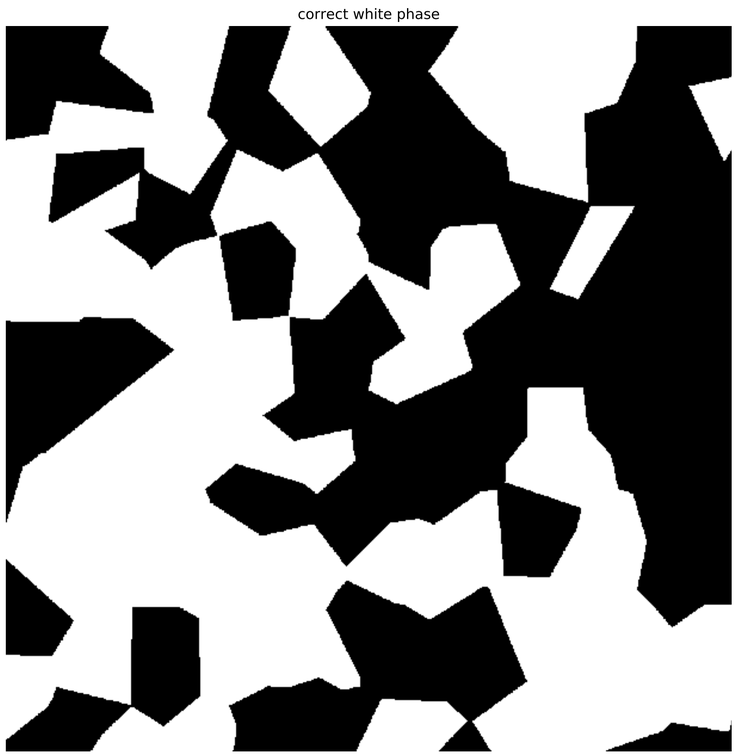
correct dark phase



predicted dark phase



correct white phase



predicted white phase

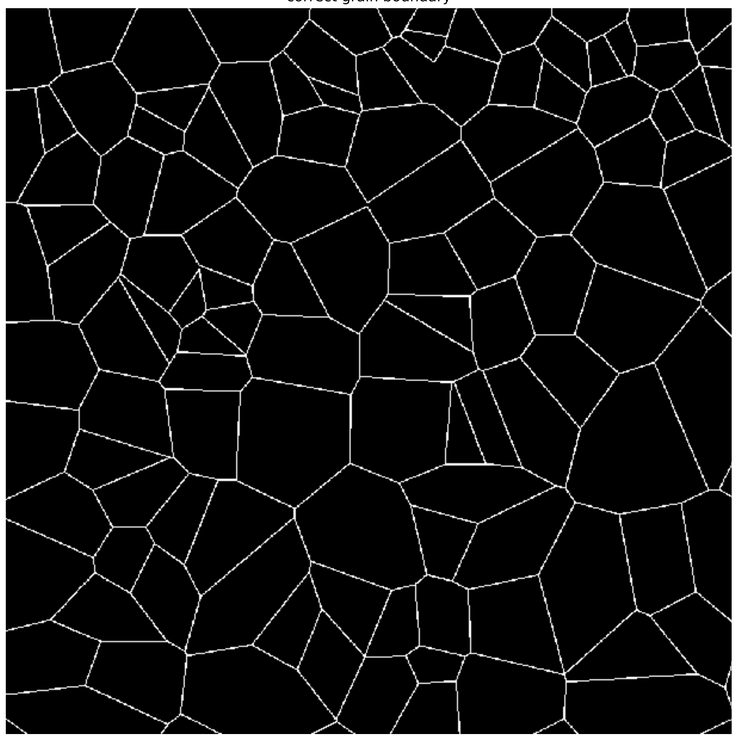
data/base microstructure/image_119.png

original

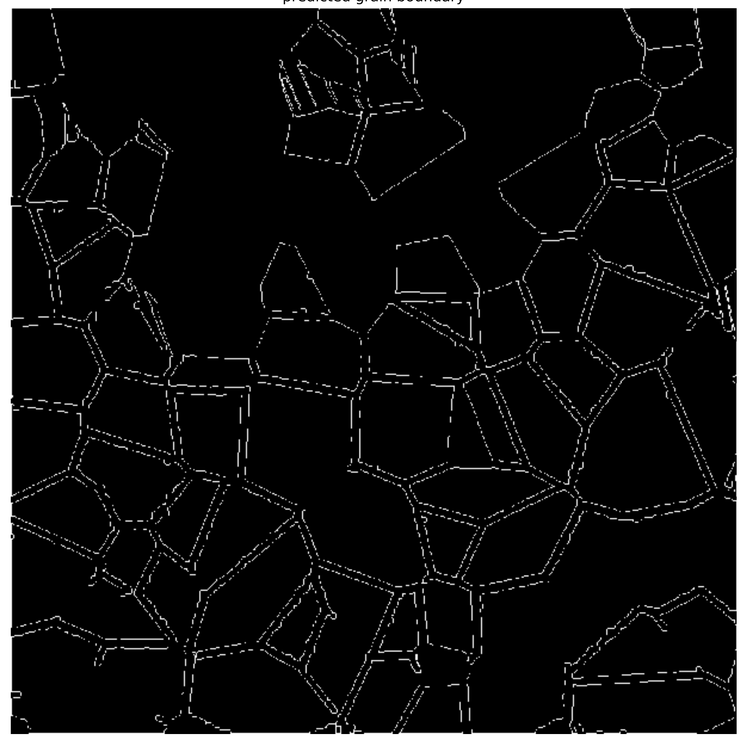
metrics

metric	correct	predicted	error
dark frac	0.329	0.324	0.476%
white frac	0.588	0.552	3.574%
line frac	0.083	0.054	2.889%
ave grain diameter	97.377	92.110	5.409%

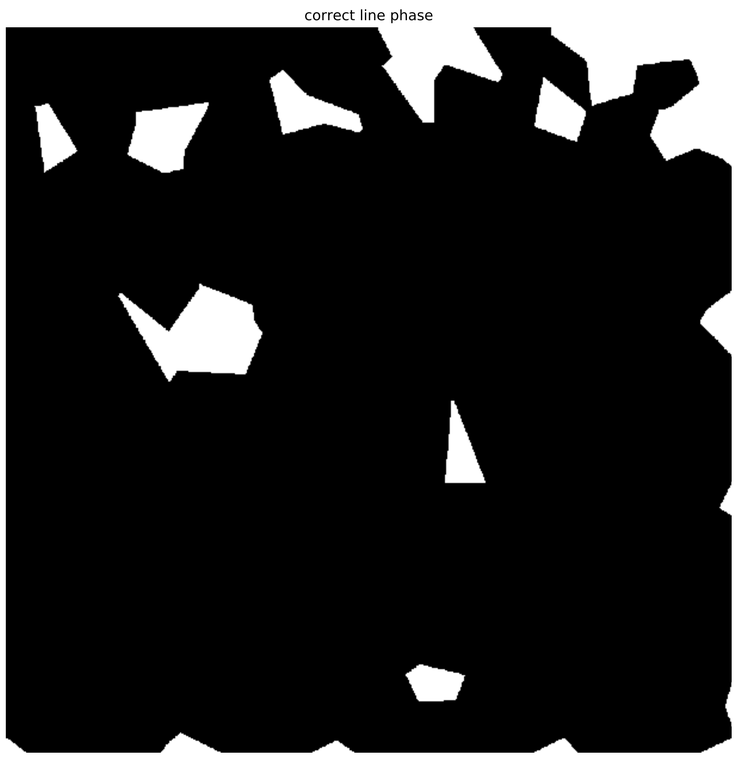
correct grain boundary



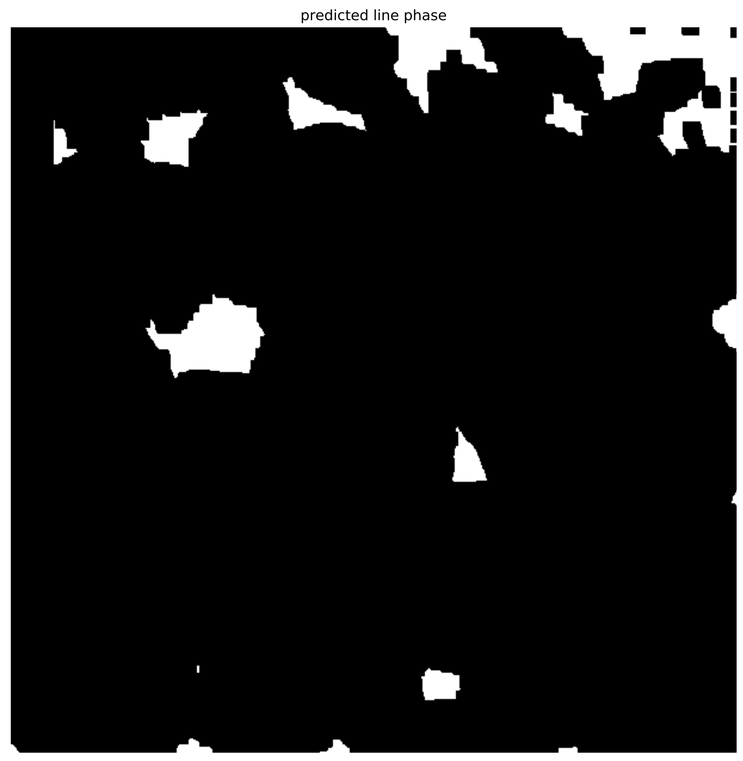
predicted grain boundary



correct line phase



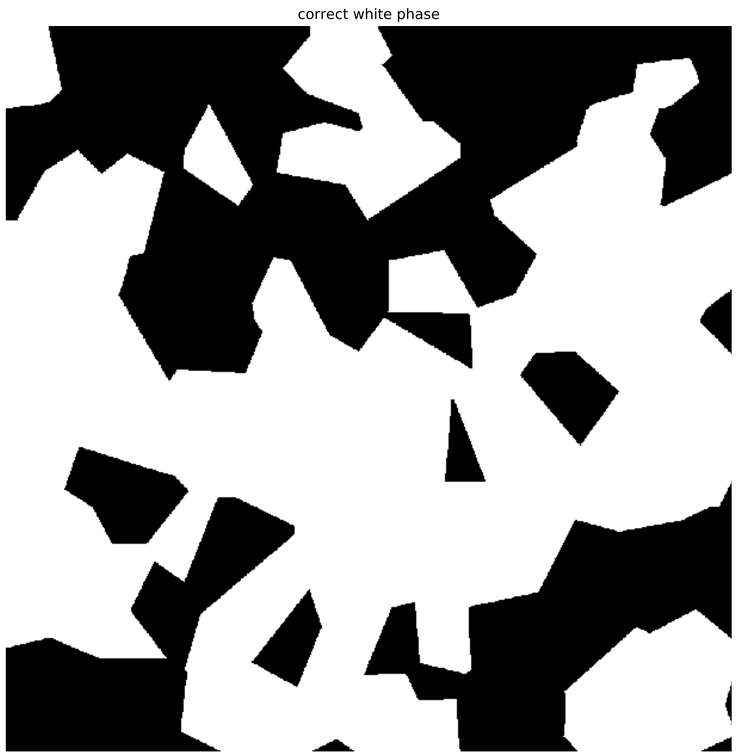
predicted line phase



correct dark phase

predicted dark phase

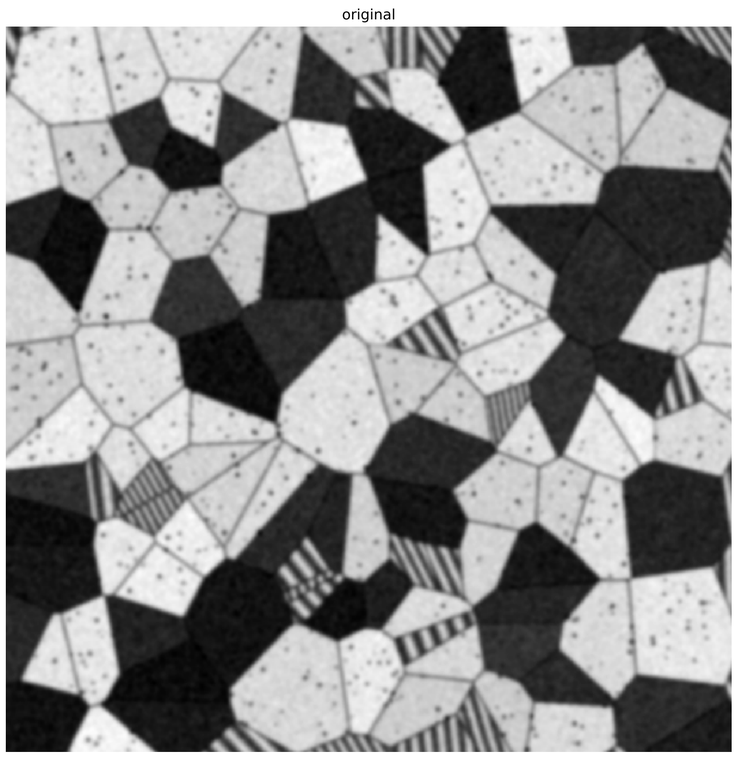
correct white phase



predicted white phase

data/base microstructure/image_12.png

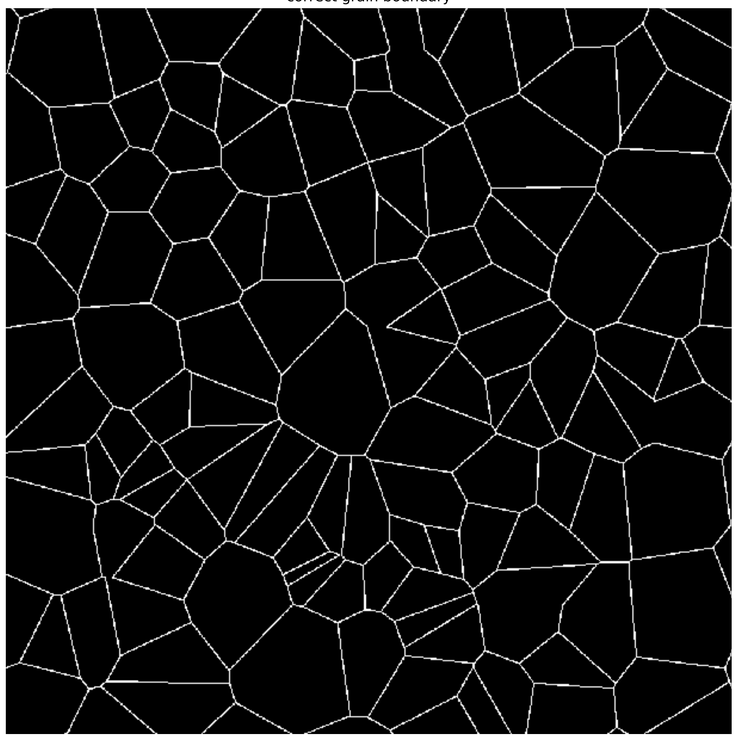
original



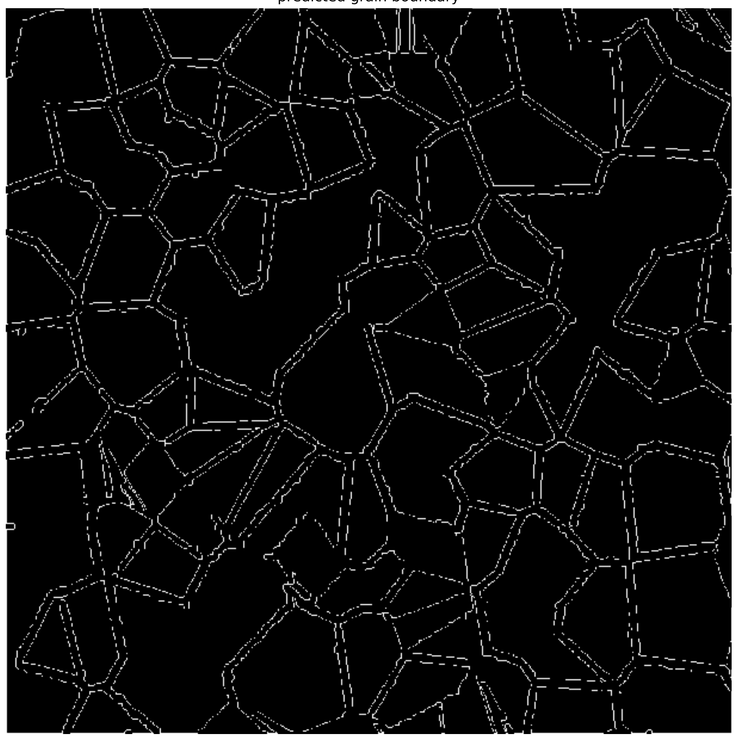
metrics

metric	correct	predicted	error
dark frac	0.372	0.359	1.254%
white frac	0.566	0.522	4.467%
line frac	0.062	0.036	2.584%
ave grain diameter	94.078	94.073	0.005%

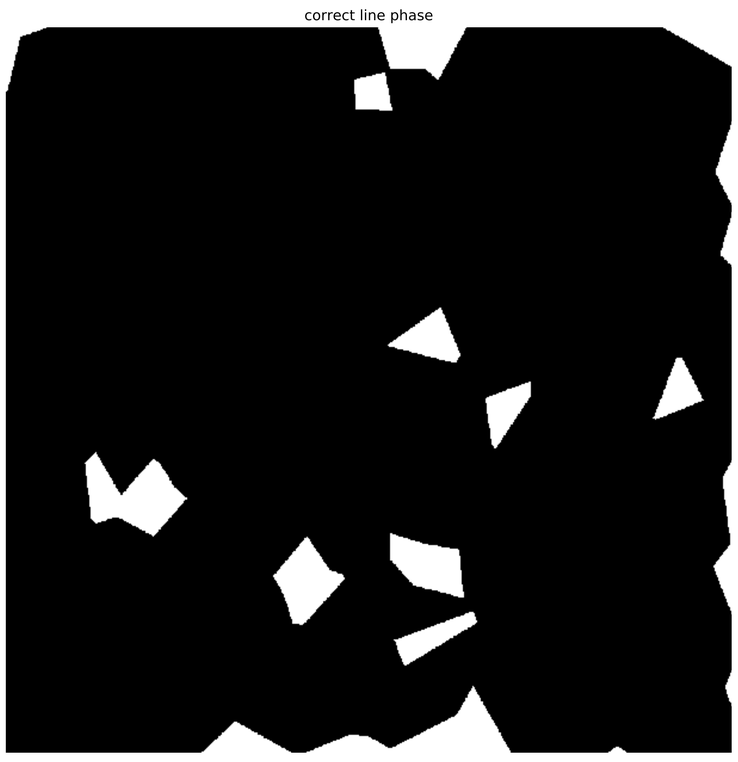
correct grain boundary



predicted grain boundary



correct line phase

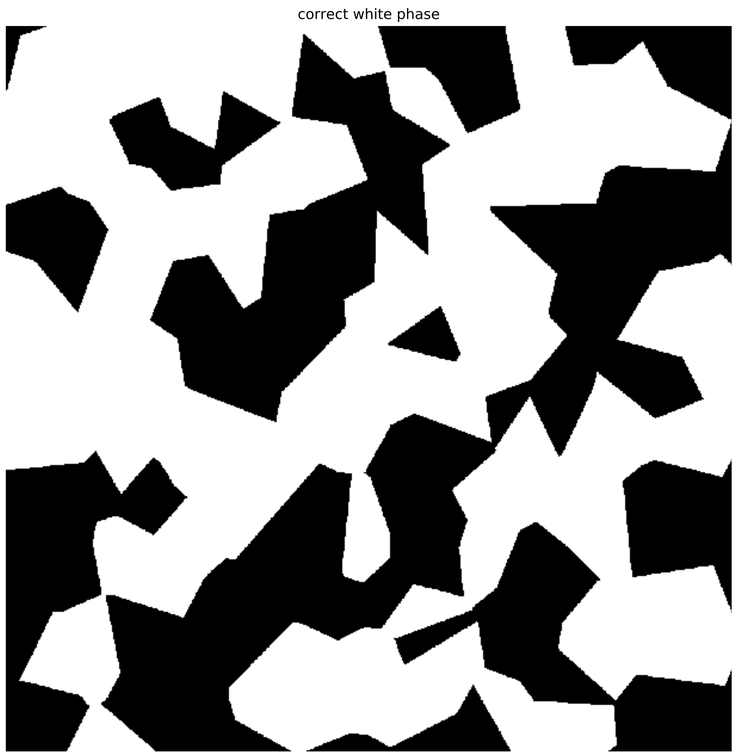


predicted line phase

correct dark phase

predicted dark phase

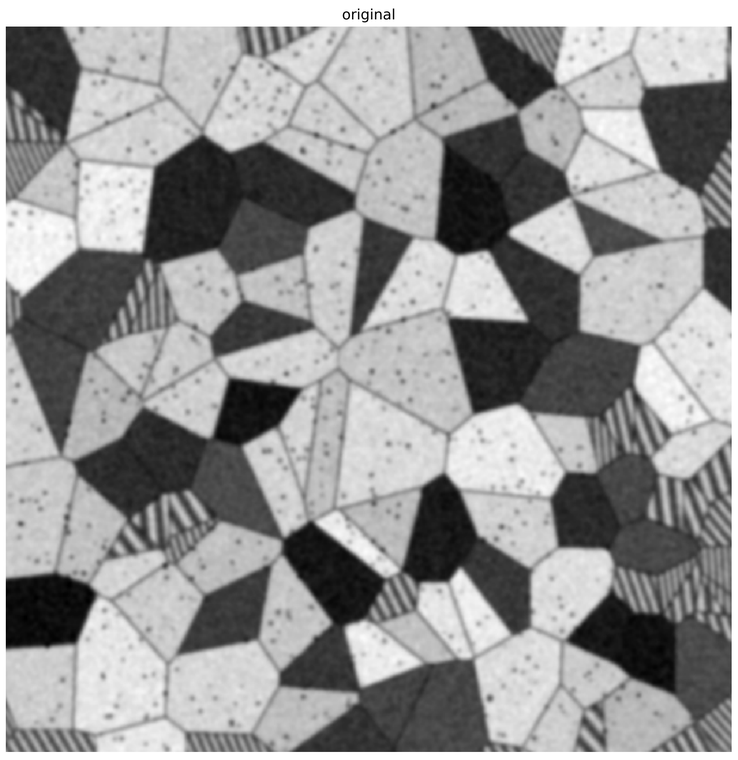
correct white phase



predicted white phase

data/base microstructure/image_120.png

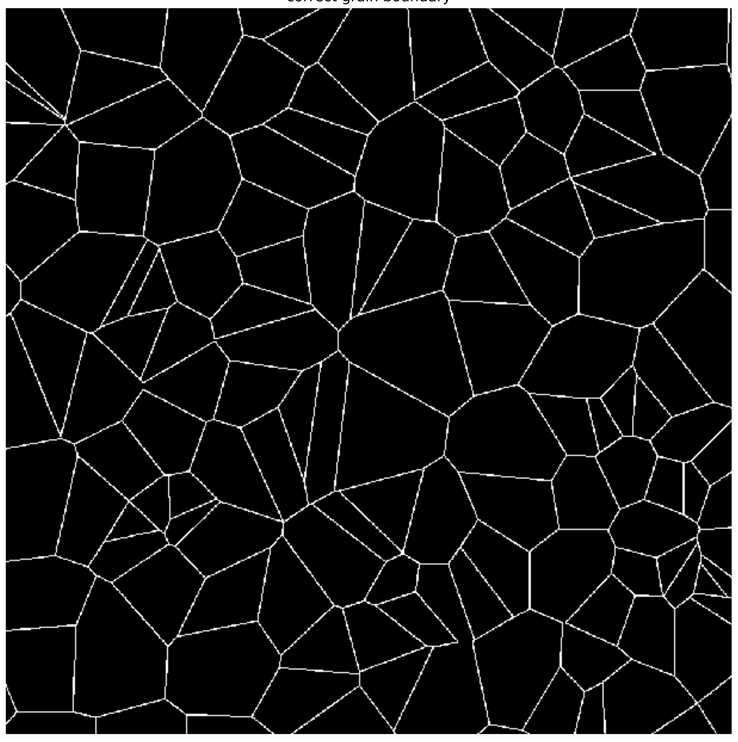
original



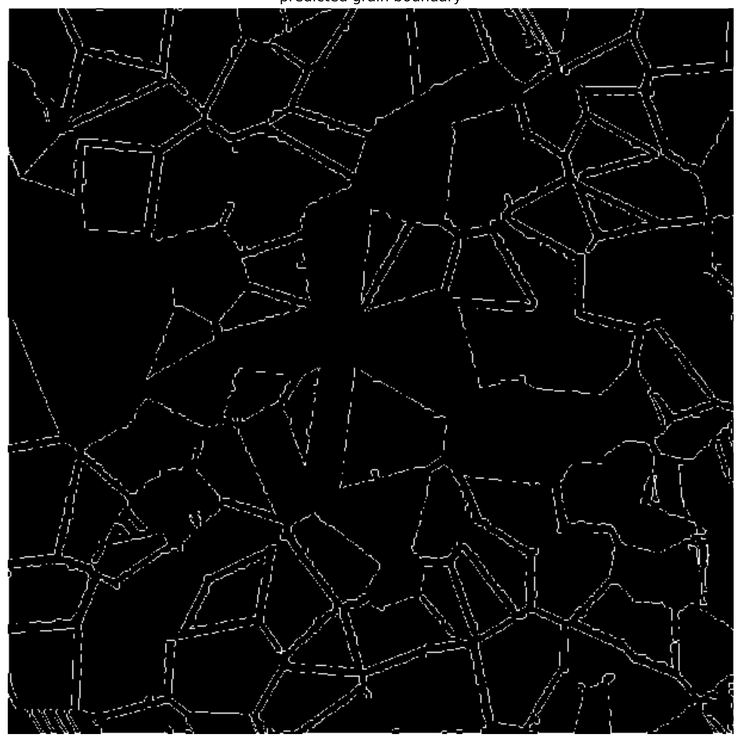
metrics

metric	correct	predicted	error
dark frac	0.314	0.305	0.903%
white frac	0.604	0.556	4.816%
line frac	0.082	0.055	2.649%
ave grain diameter	92.386	88.040	4.704%

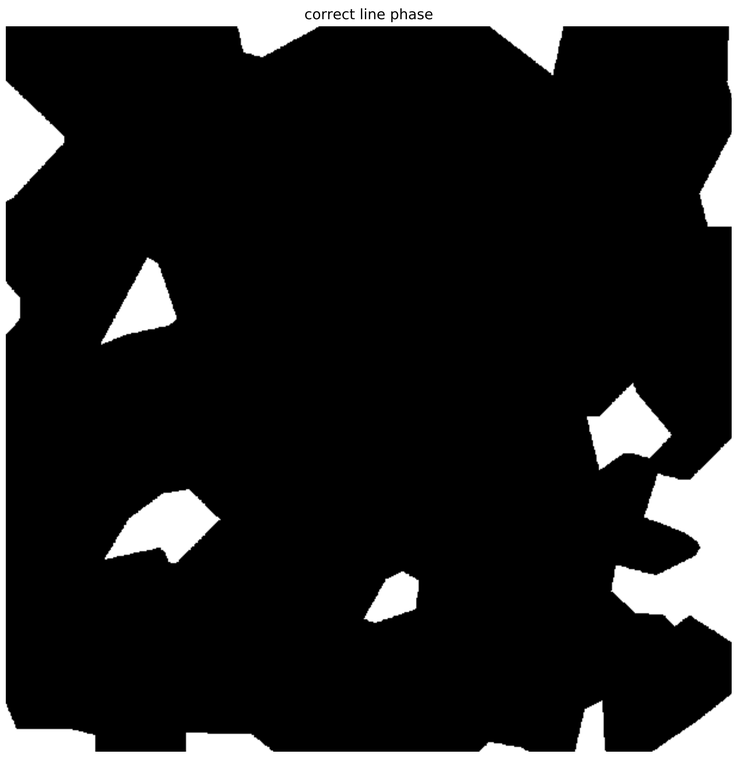
correct grain boundary



predicted grain boundary



correct line phase

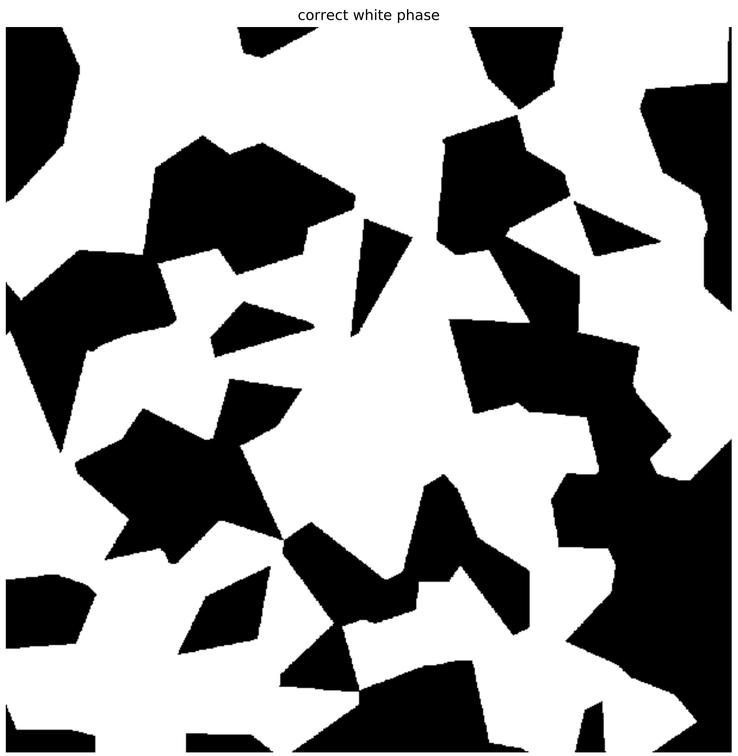


predicted line phase

correct dark phase

predicted dark phase

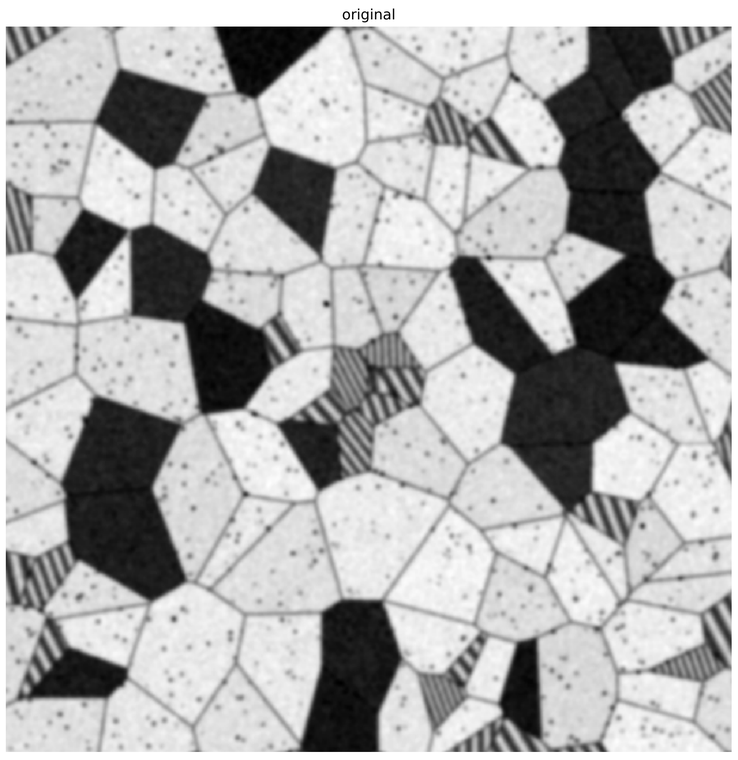
correct white phase



predicted white phase

data/base microstructure/image_121.png

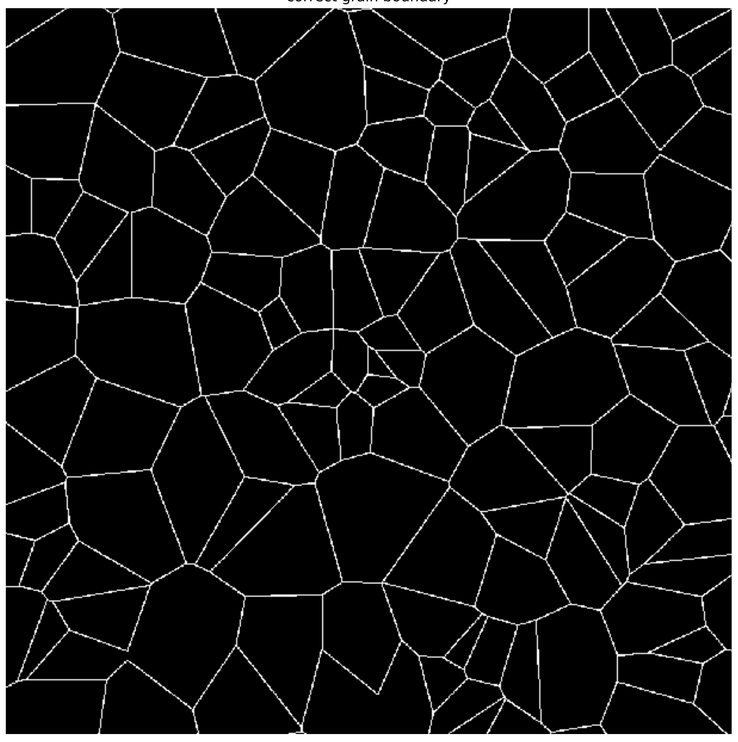
original



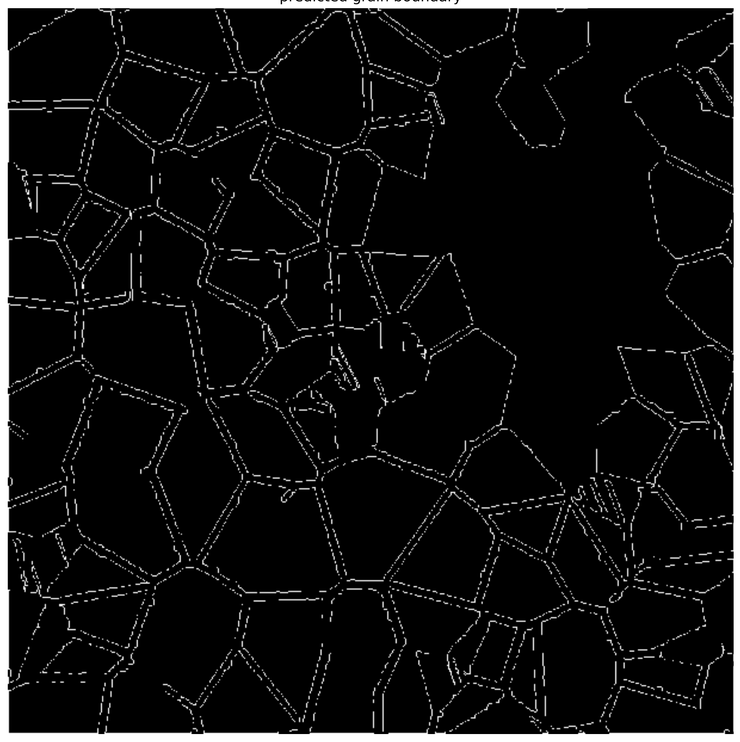
metrics

metric	correct	predicted	error
dark frac	0.216	0.208	0.836%
white frac	0.718	0.677	4.110%
line frac	0.066	0.046	2.000%
ave grain diameter	95.917	86.394	9.929%

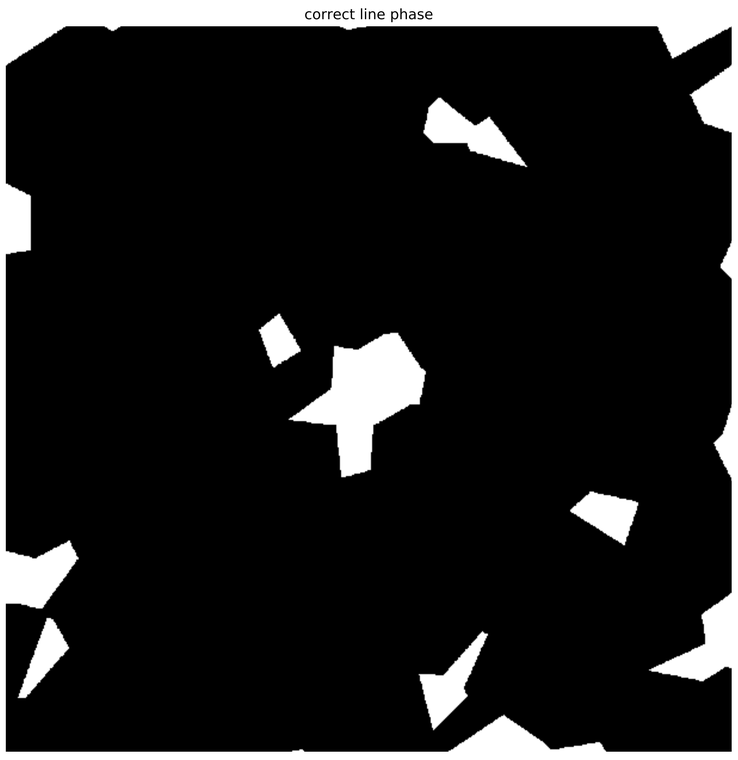
correct grain boundary



predicted grain boundary



correct line phase



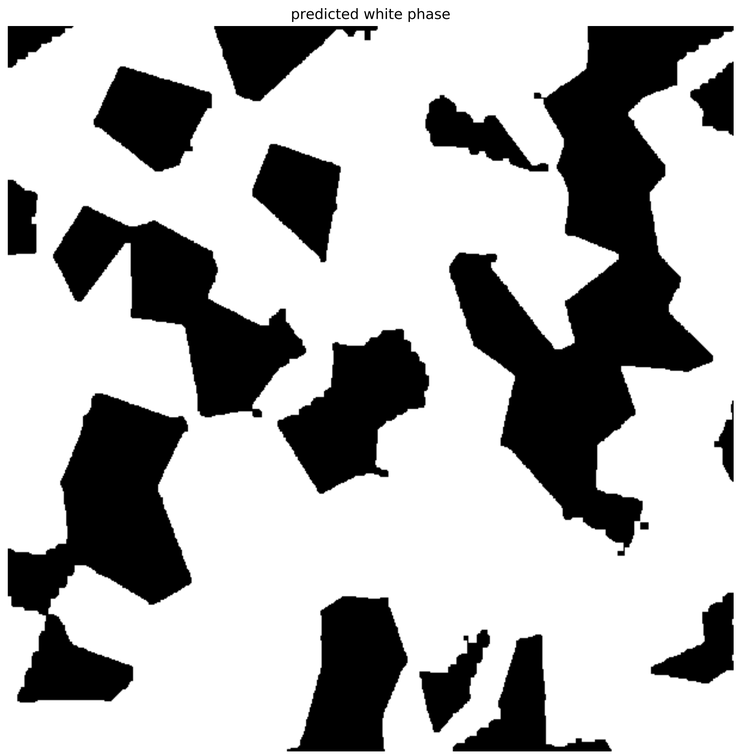
predicted line phase

correct dark phase

predicted dark phase

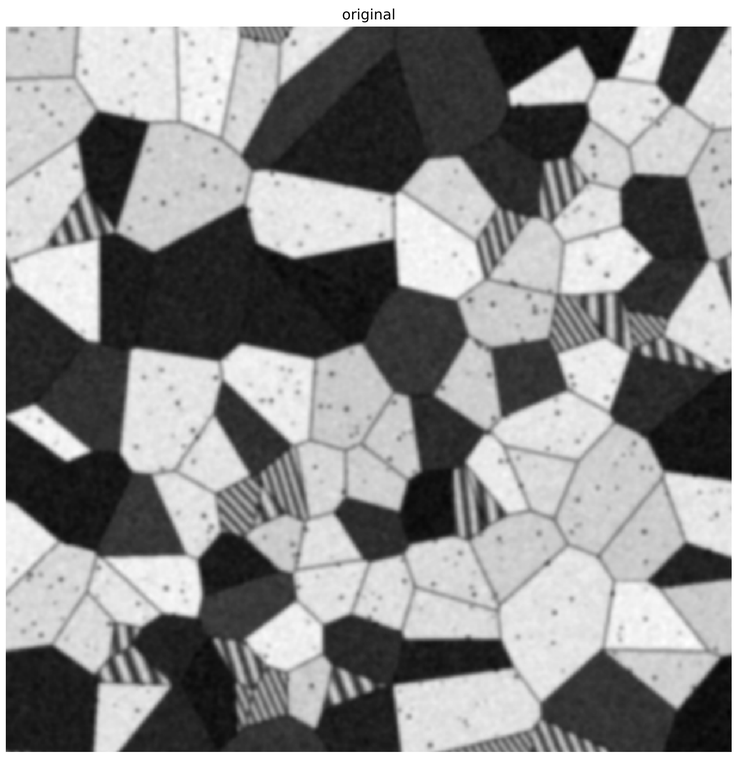
correct white phase

predicted white phase



data/base microstructure/image_122.png

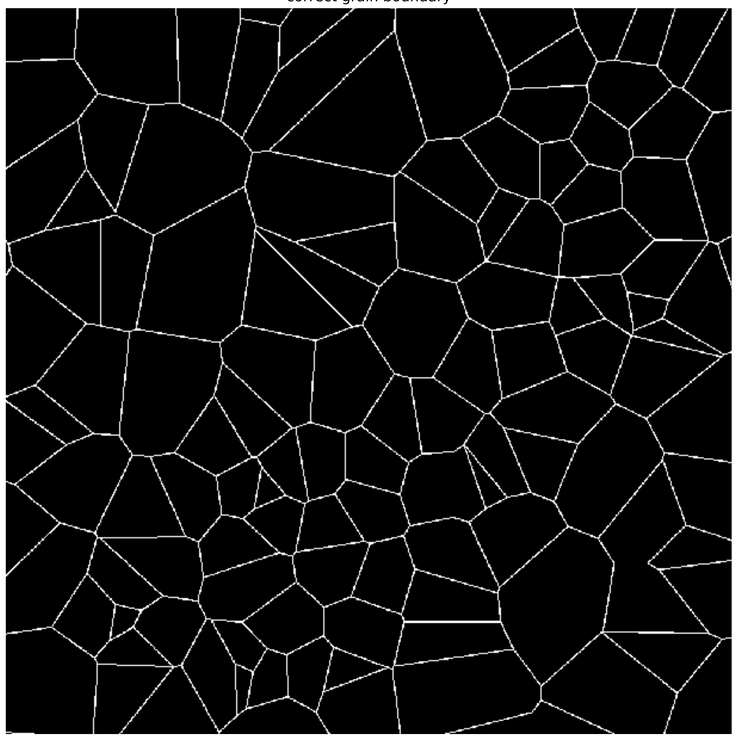
original



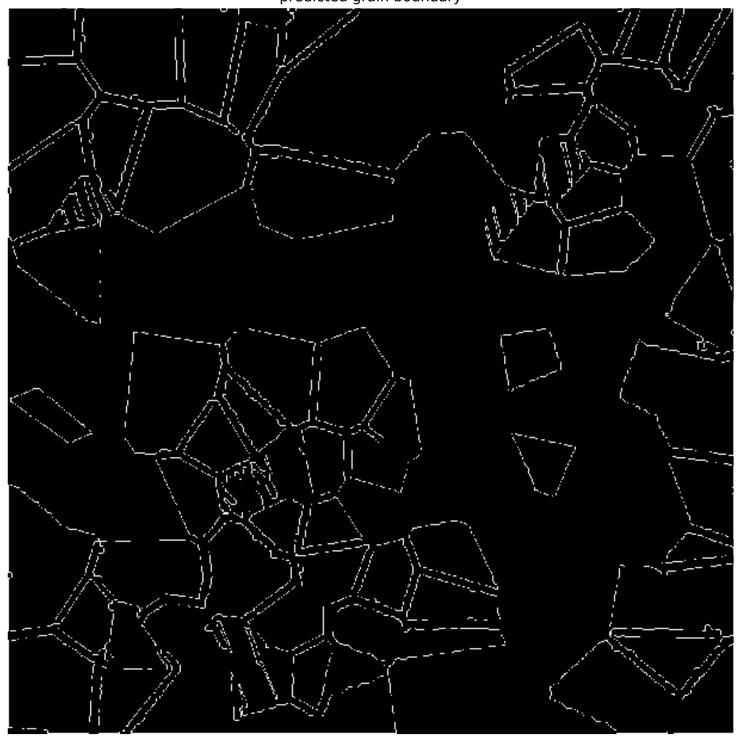
metrics

metric	correct	predicted	error
dark frac	0.403	0.390	1.257%
white frac	0.540	0.498	4.211%
line frac	0.057	0.034	2.309%
ave grain diameter	96.619	90.290	6.550%

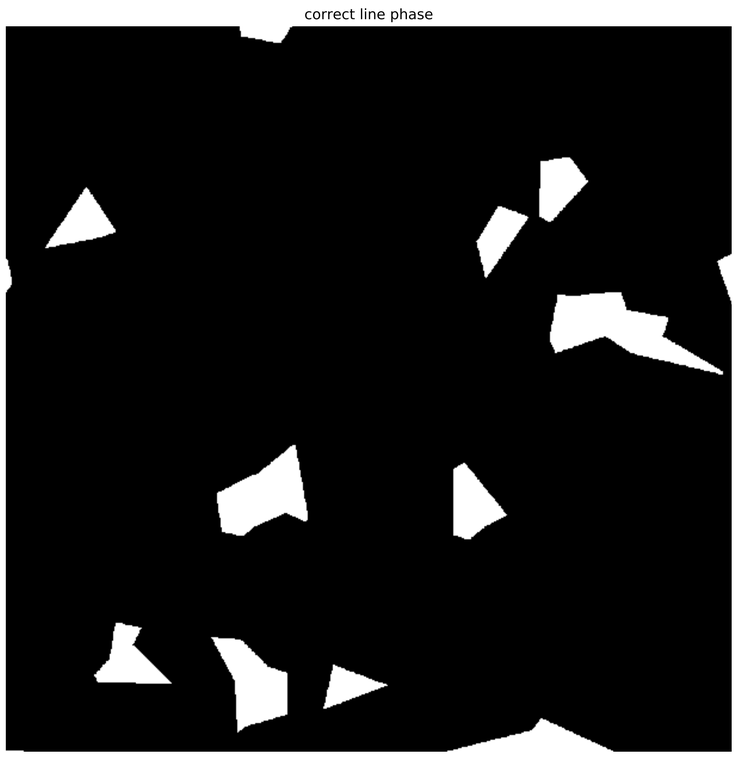
correct grain boundary



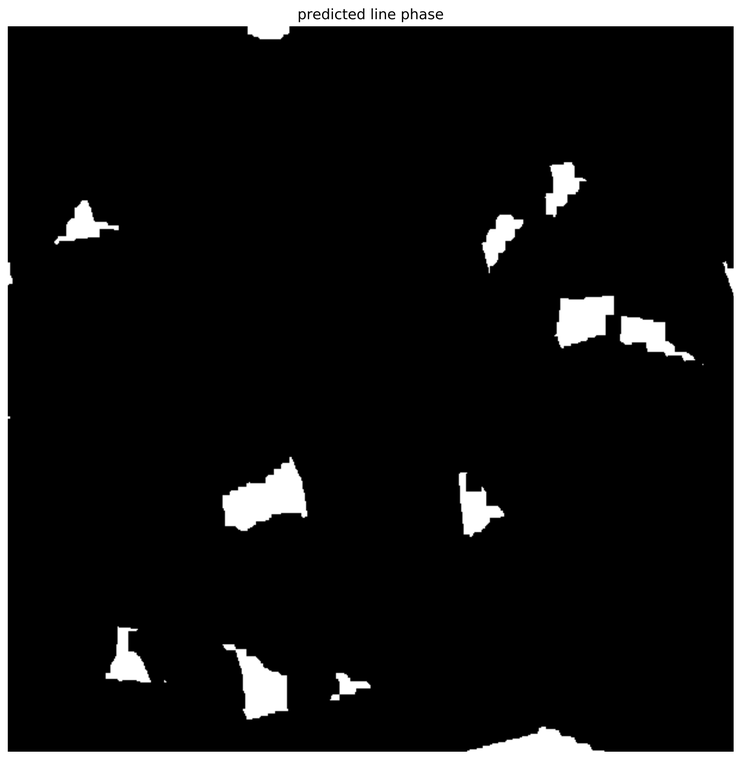
predicted grain boundary



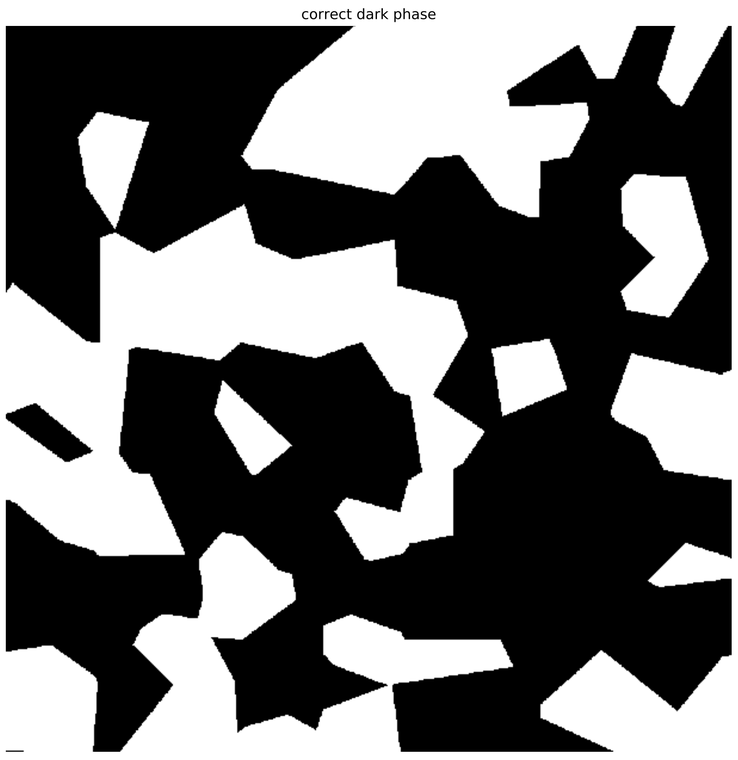
correct line phase



predicted line phase



correct dark phase



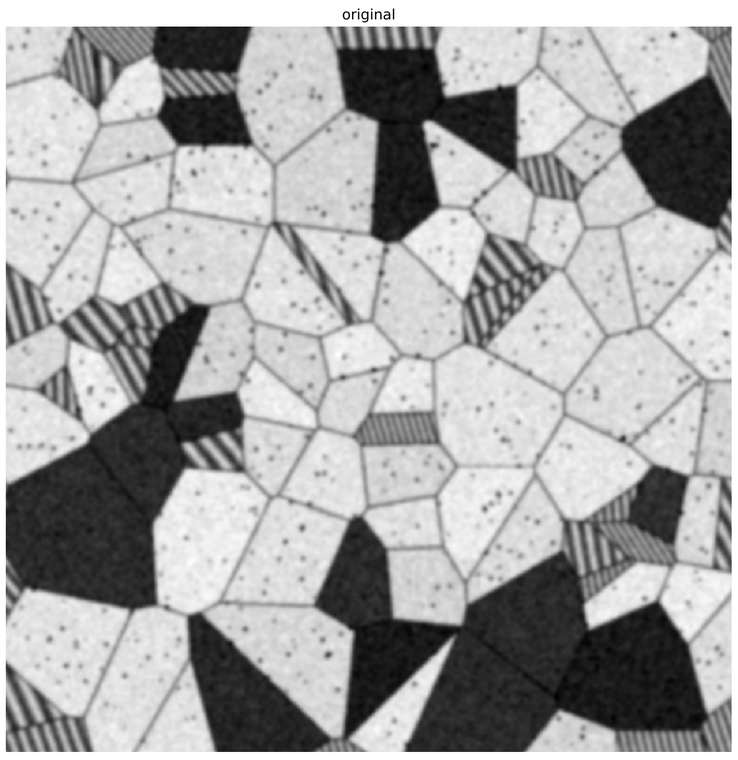
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_123.png

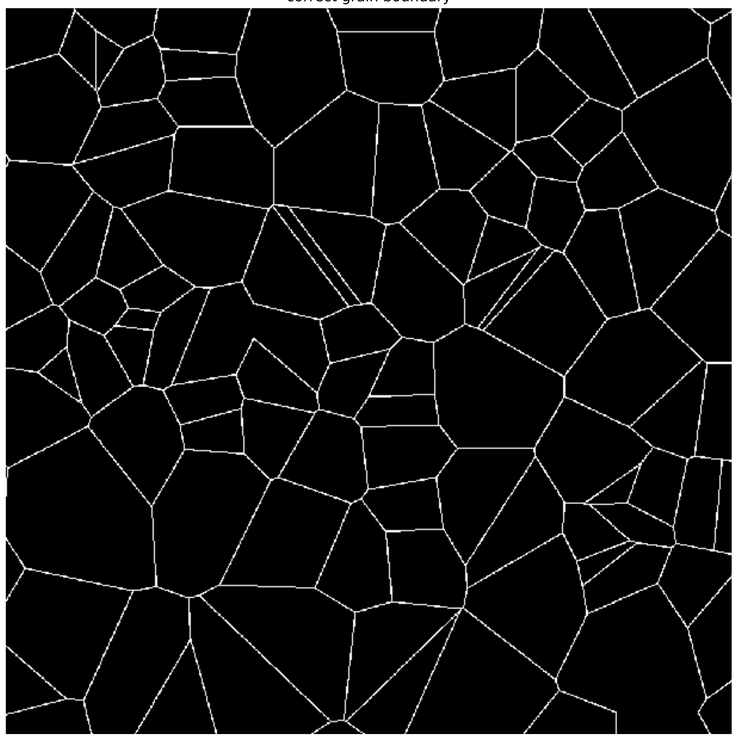
original



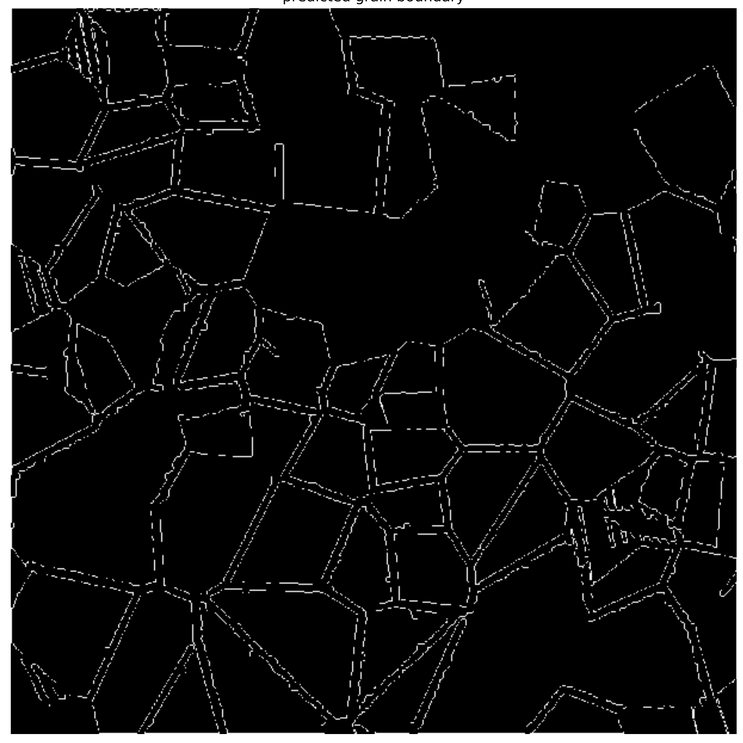
metrics

metric	correct	predicted	error
dark frac	0.240	0.237	0.307%
white frac	0.661	0.626	3.553%
line frac	0.099	0.068	3.079%
ave grain diameter	101.237	100.549	0.679%

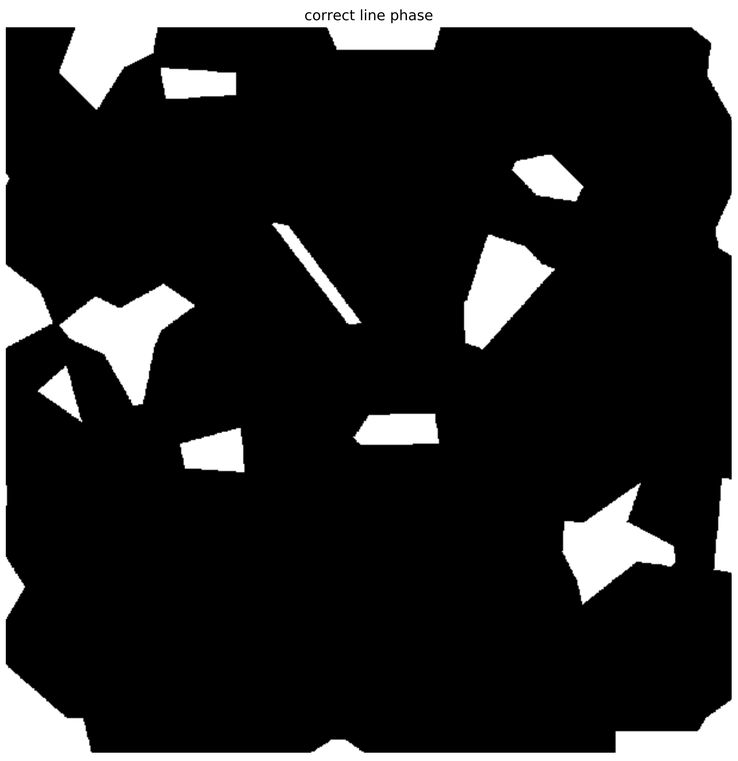
correct grain boundary



predicted grain boundary



correct line phase



predicted line phase

correct dark phase

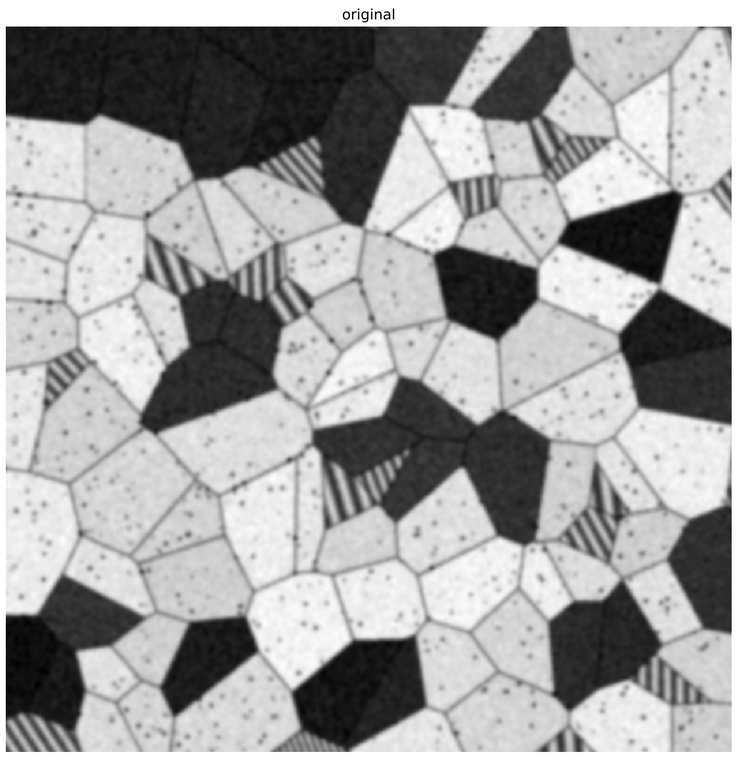
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_124.png

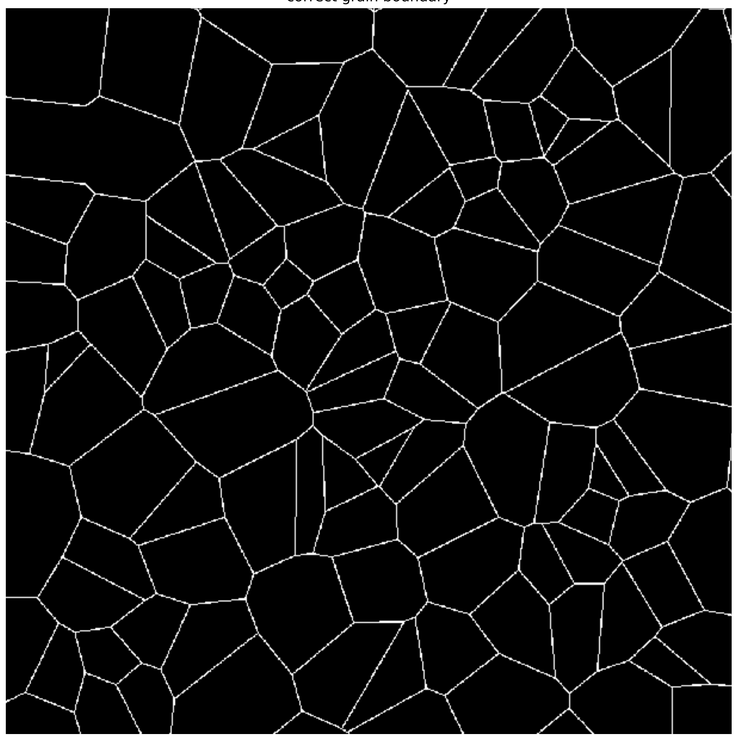
original



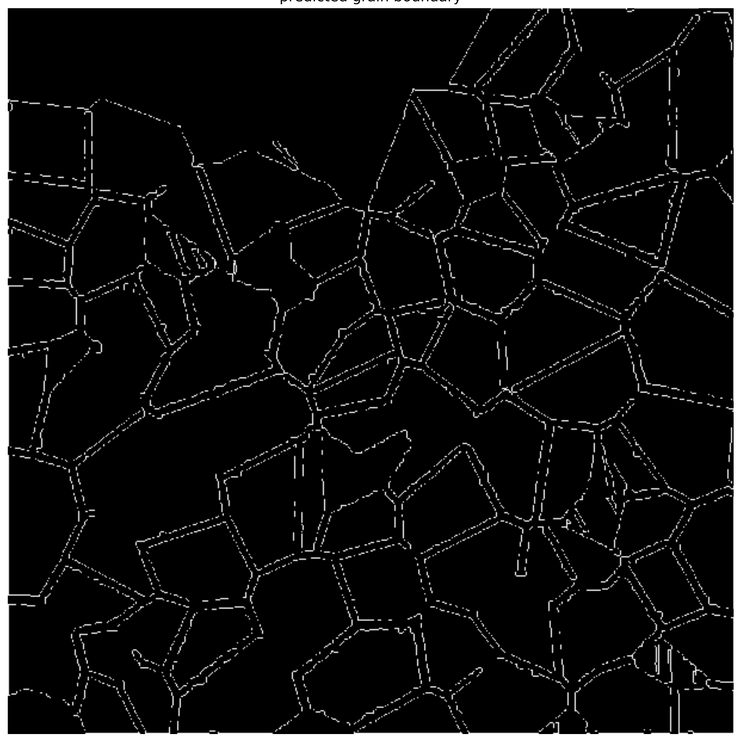
metrics

metric	correct	predicted	error
dark frac	0.296	0.288	0.830%
white frac	0.654	0.620	3.381%
line frac	0.050	0.029	2.119%
ave grain diameter	101.878	104.742	2.811%

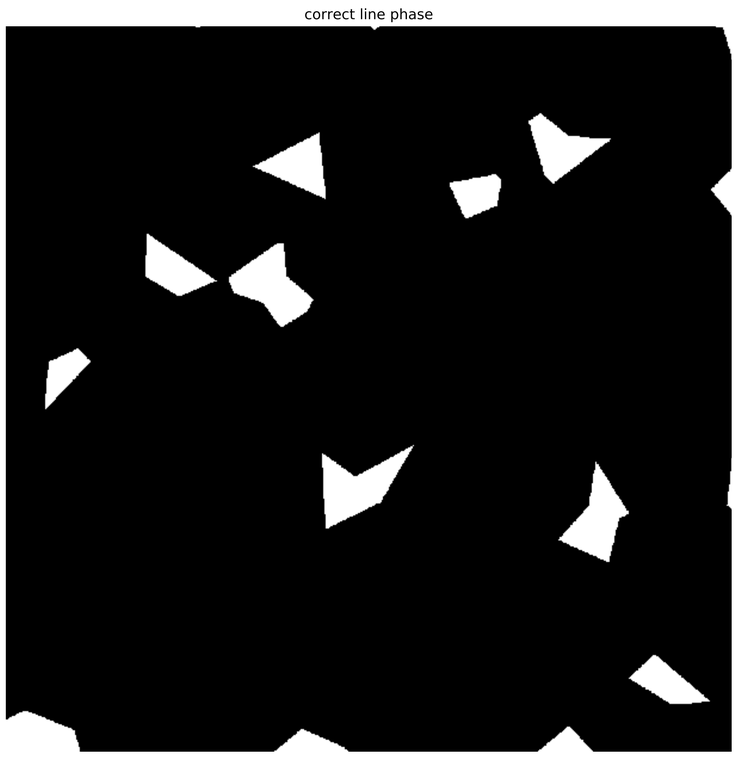
correct grain boundary



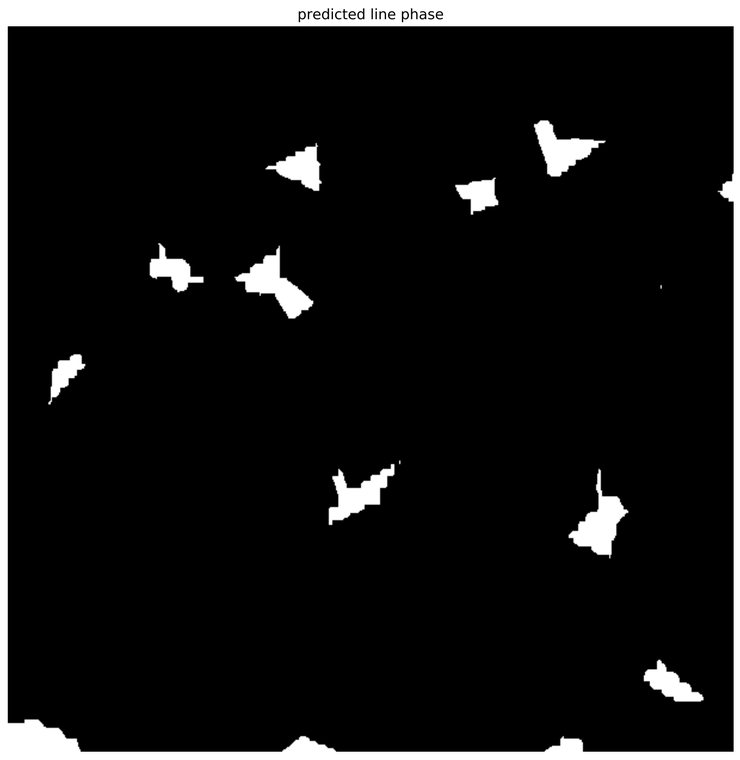
predicted grain boundary



correct line phase



predicted line phase



correct dark phase

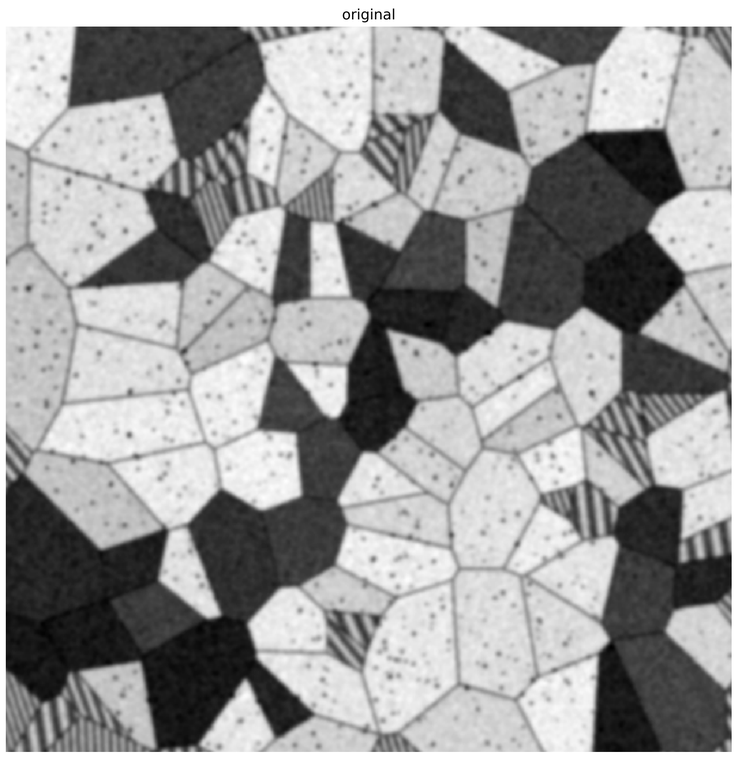
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_125.png

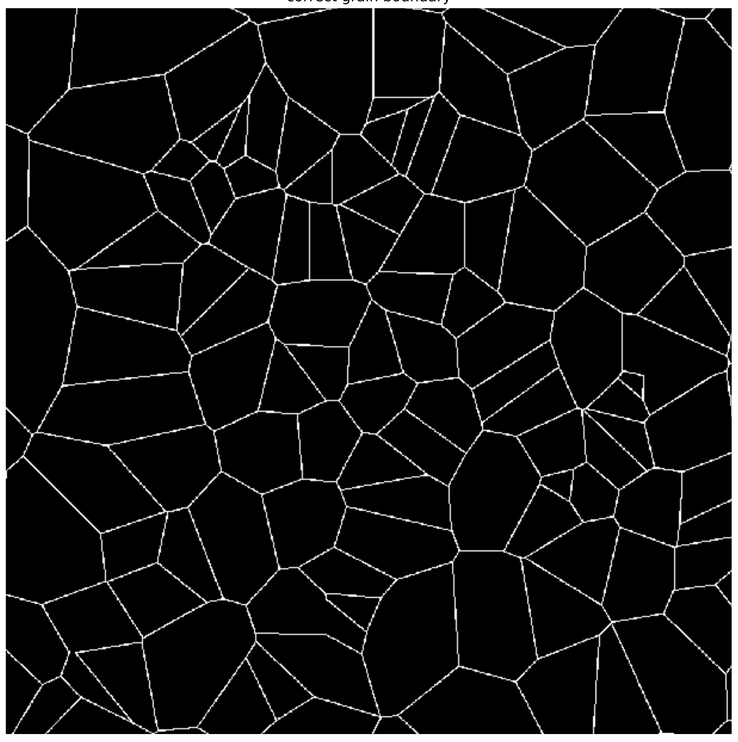
original



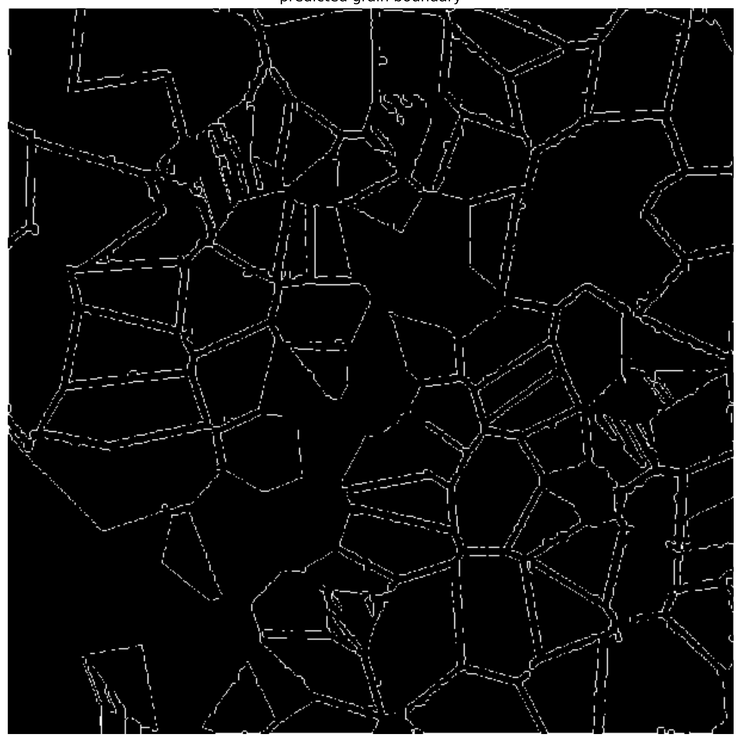
metrics

metric	correct	predicted	error
dark frac	0.318	0.311	0.684%
white frac	0.615	0.571	4.376%
line frac	0.068	0.047	2.037%
ave grain diameter	96.245	88.485	8.063%

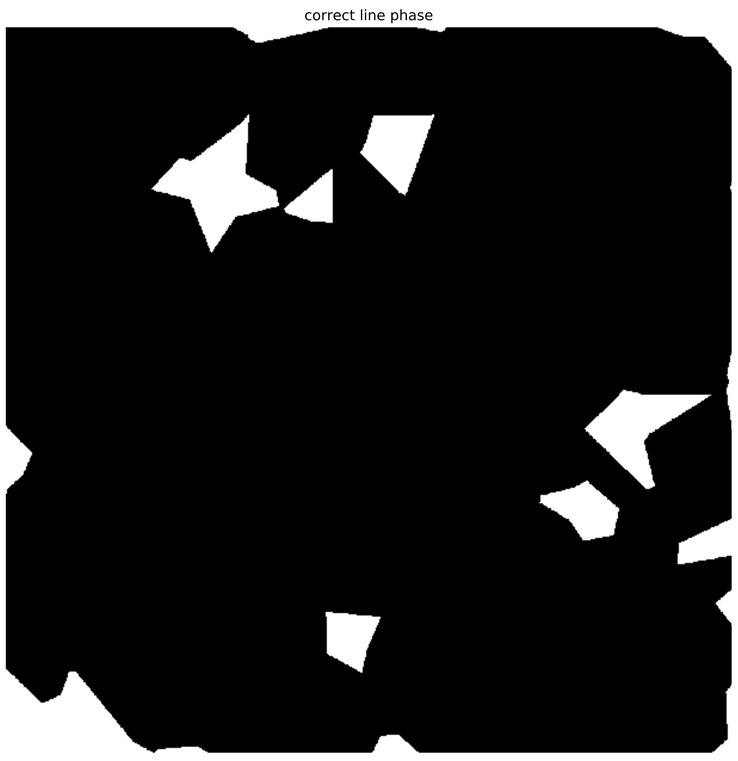
correct grain boundary



predicted grain boundary



correct line phase



predicted line phase

correct dark phase

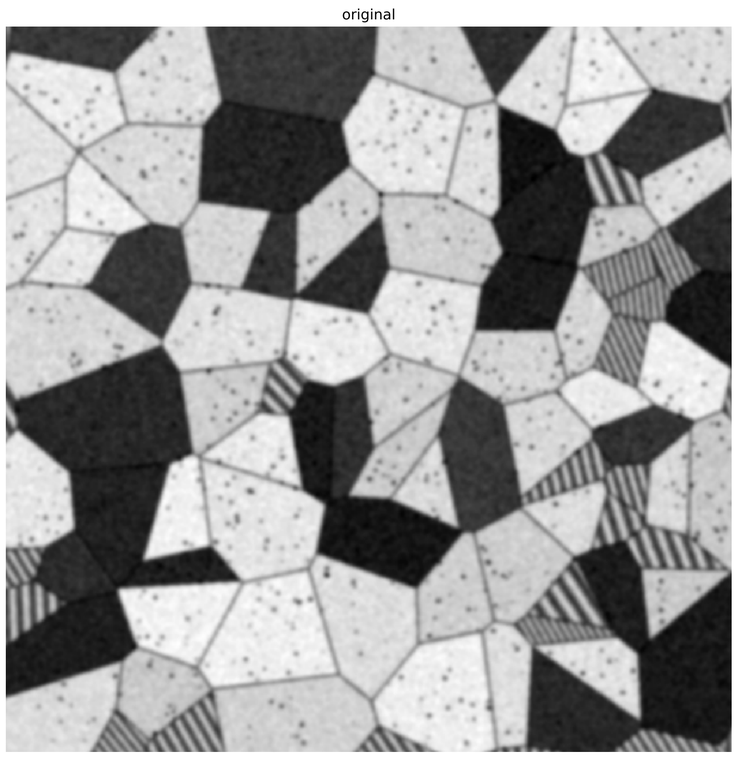
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_126.png

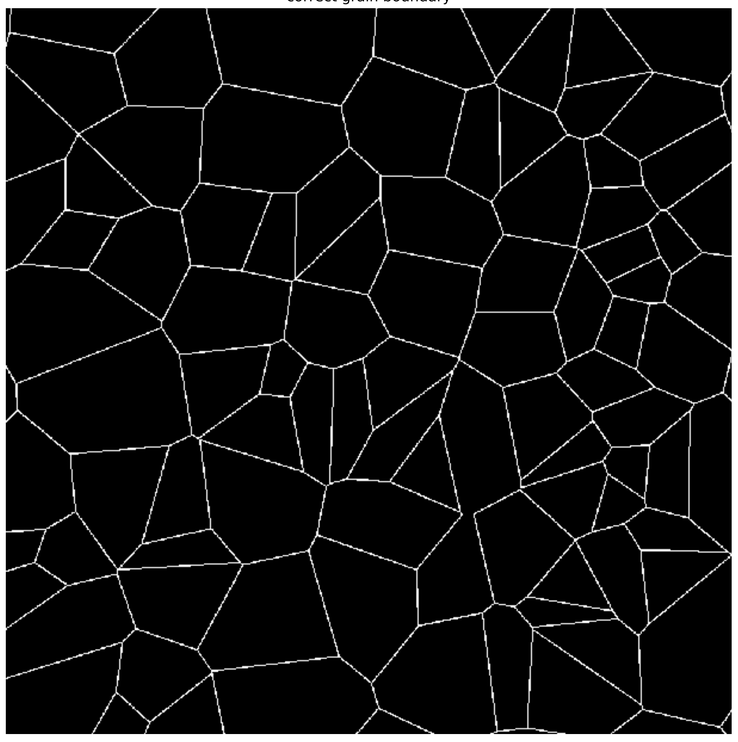
original



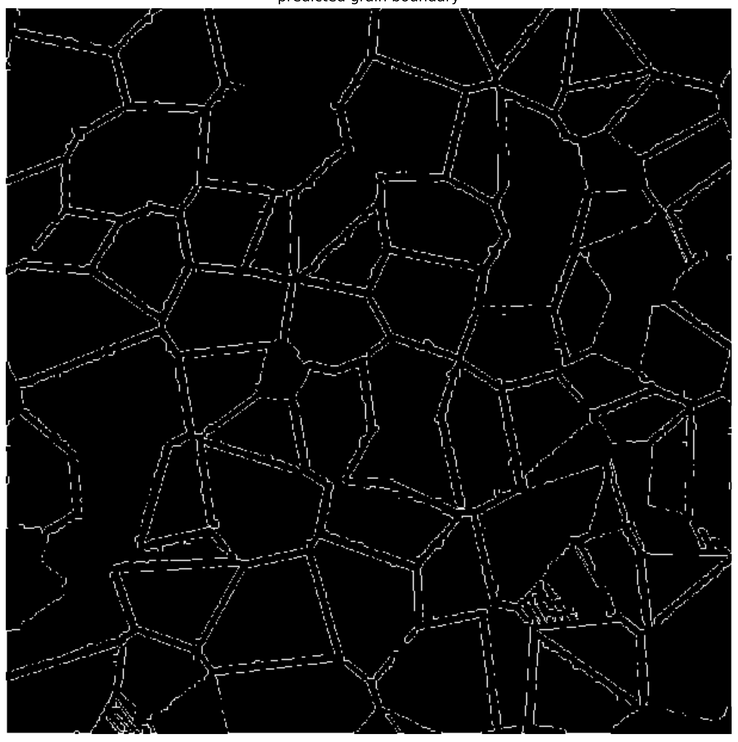
metrics

metric	correct	predicted	error
dark frac	0.322	0.314	0.753%
white frac	0.607	0.562	4.475%
line frac	0.071	0.050	2.096%
ave grain diameter	110.685	108.519	1.957%

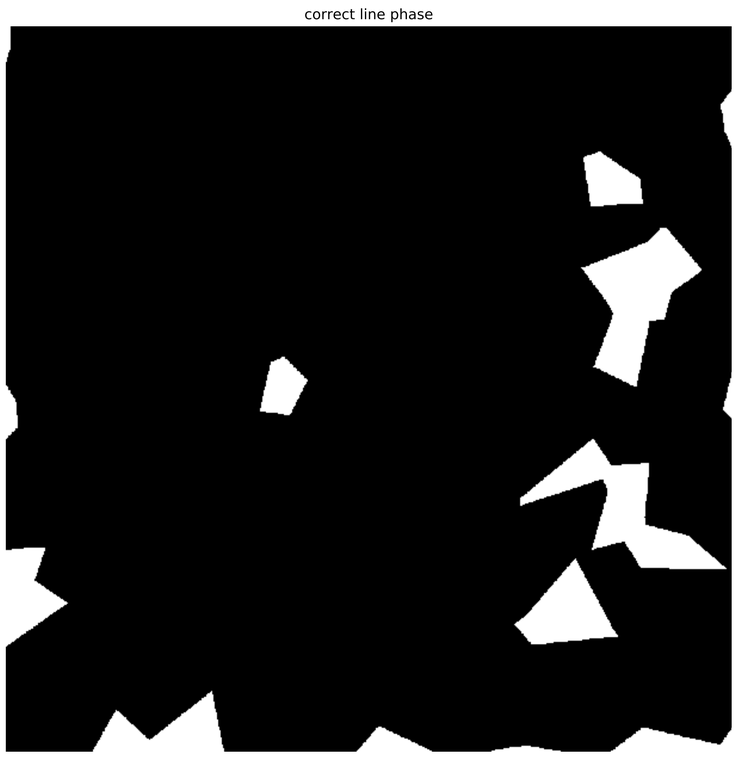
correct grain boundary



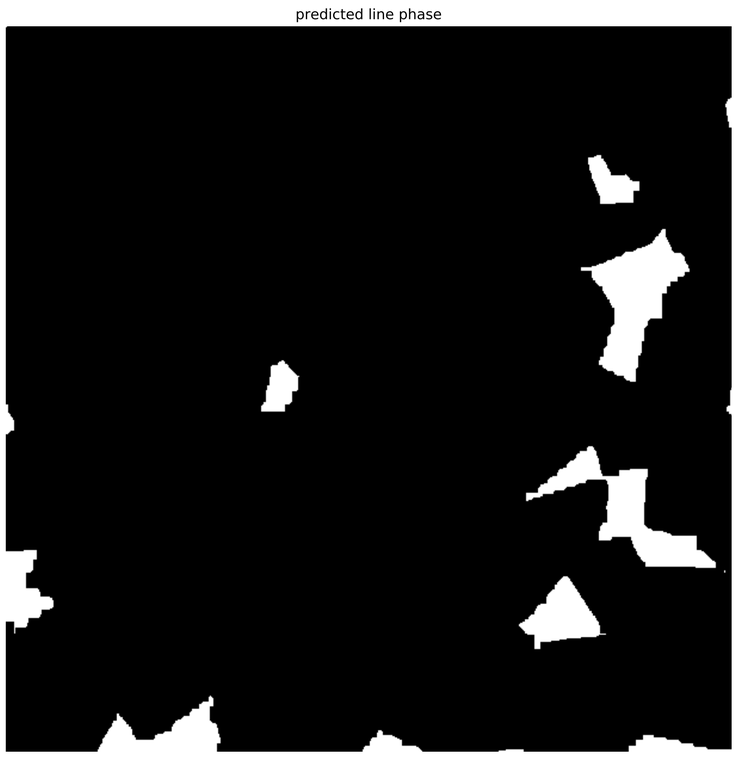
predicted grain boundary



correct line phase



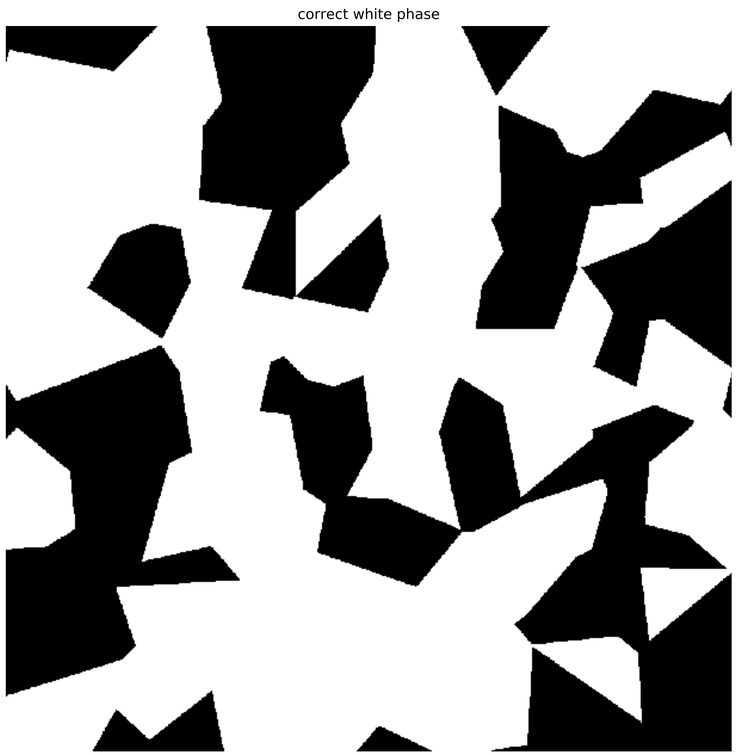
predicted line phase



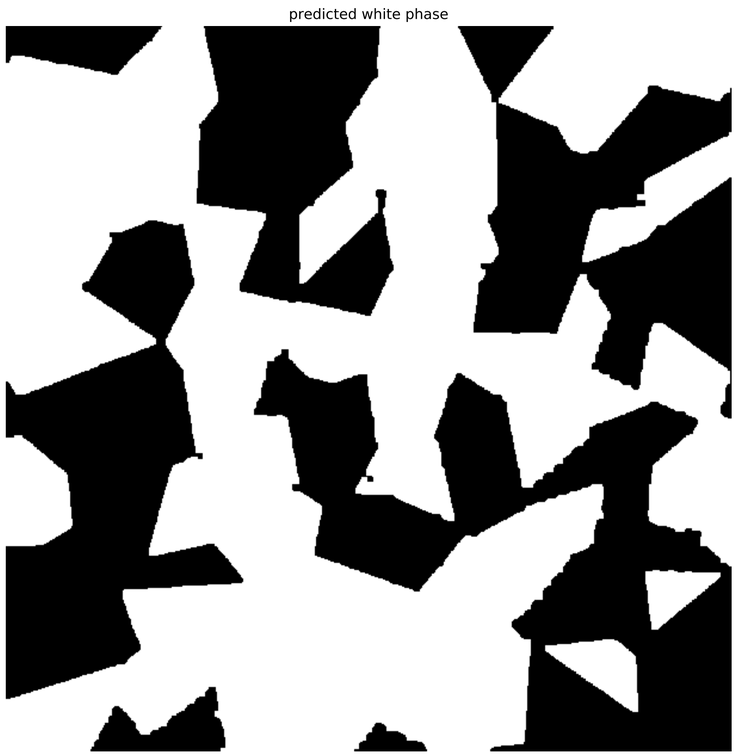
correct dark phase

predicted dark phase

correct white phase

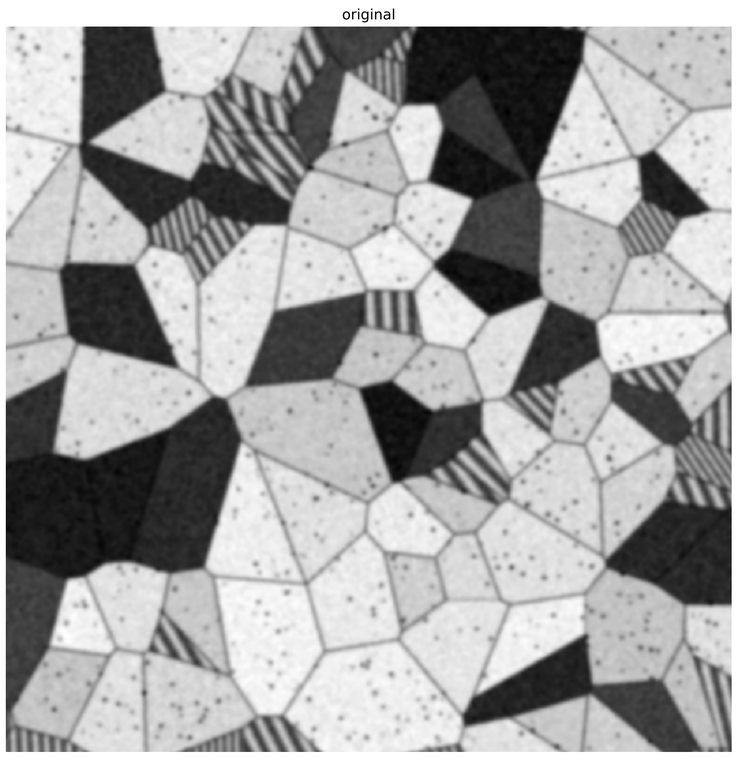


predicted white phase



data/base microstructure/image_127.png

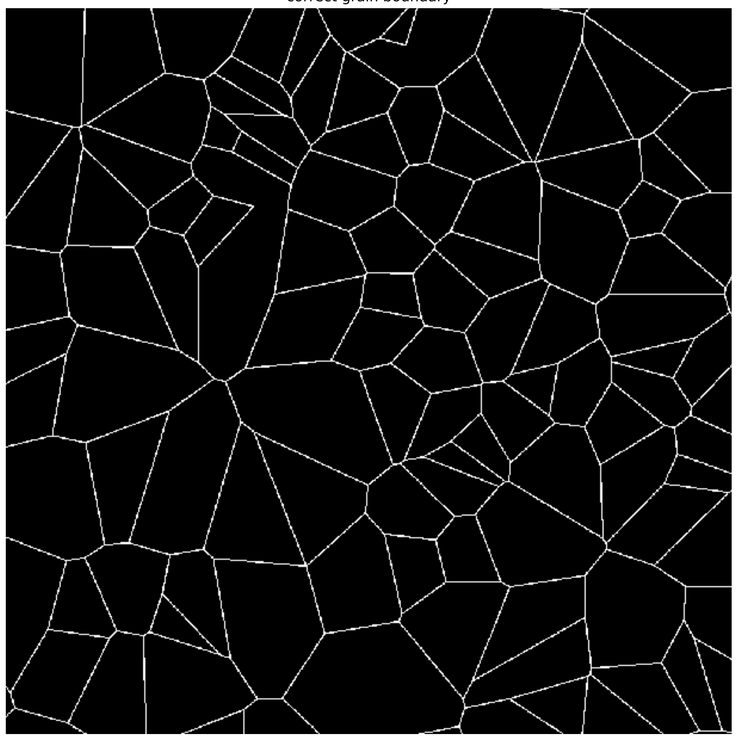
original



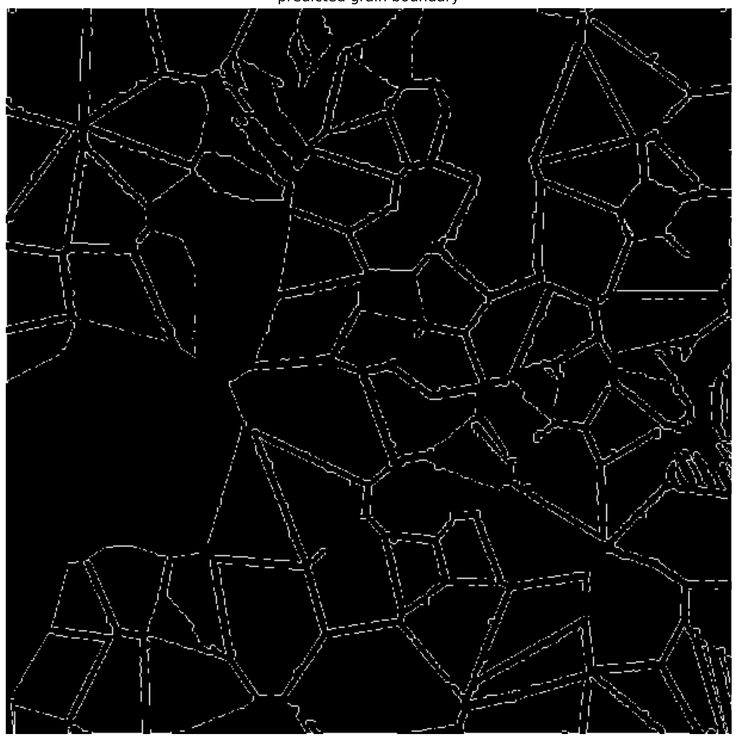
metrics

metric	correct	predicted	error
dark frac	0.267	0.262	0.445%
white frac	0.655	0.619	3.657%
line frac	0.078	0.050	2.857%
ave grain diameter	100.392	96.509	3.868%

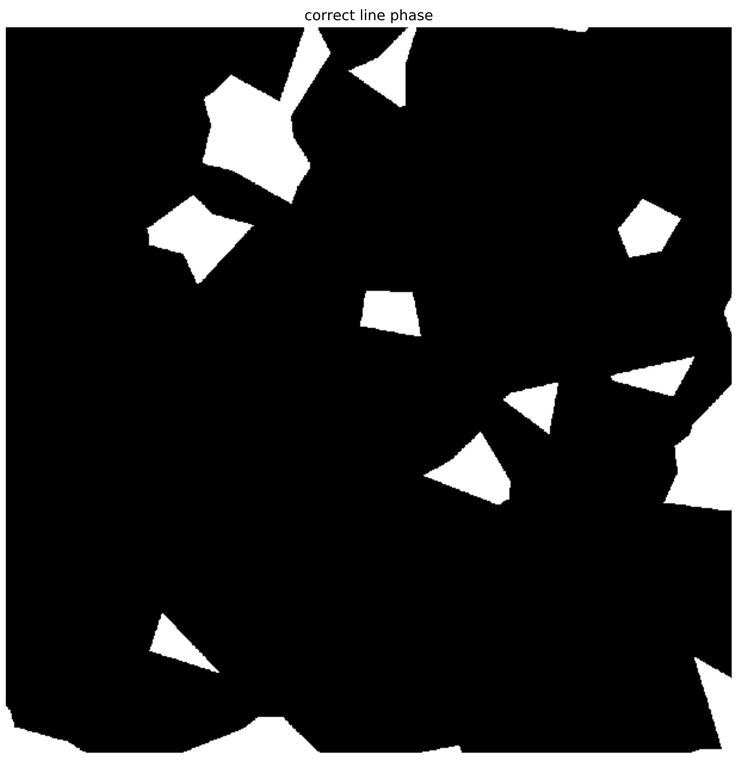
correct grain boundary



predicted grain boundary

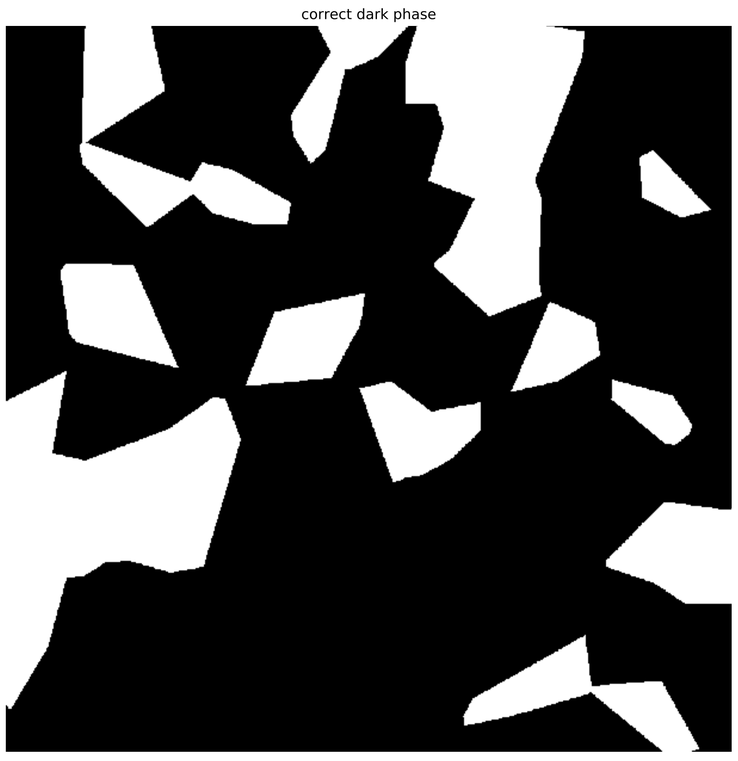


correct line phase



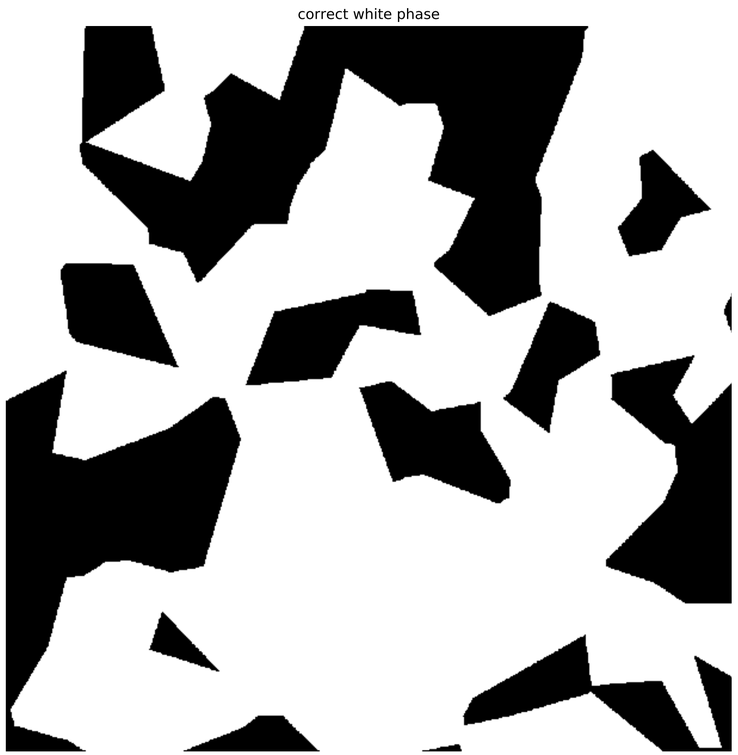
predicted line phase

correct dark phase



predicted dark phase

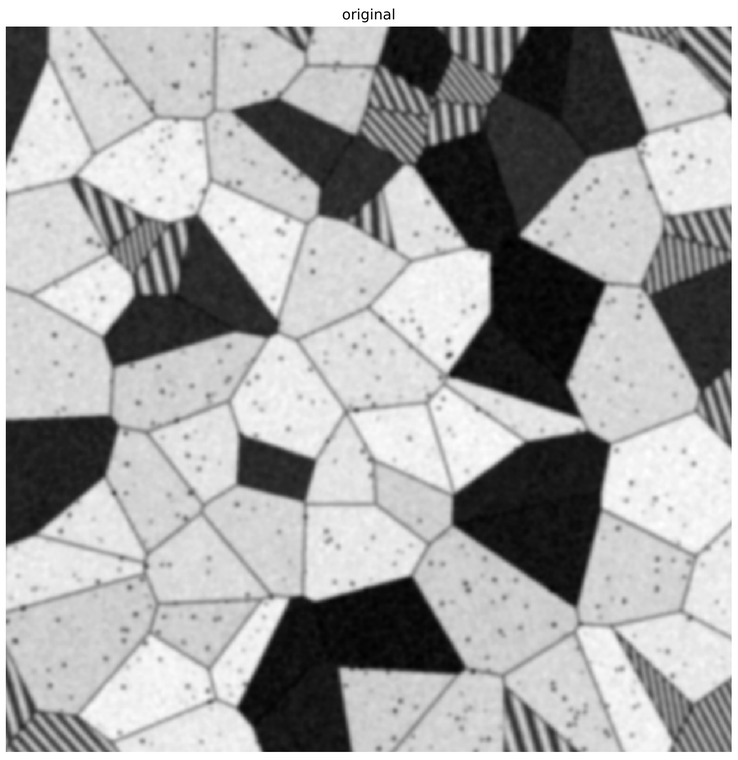
correct white phase



predicted white phase

data/base microstructure/image_128.png

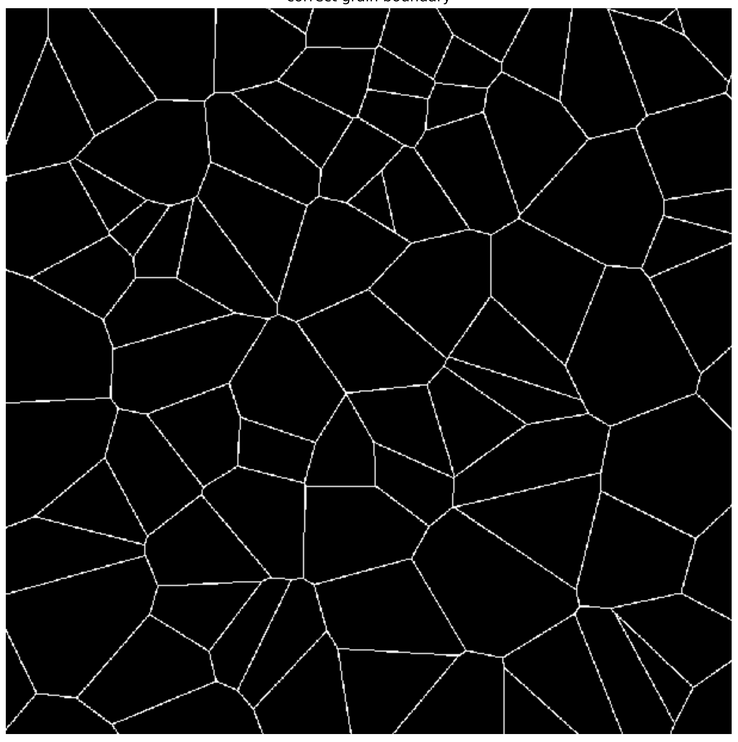
original



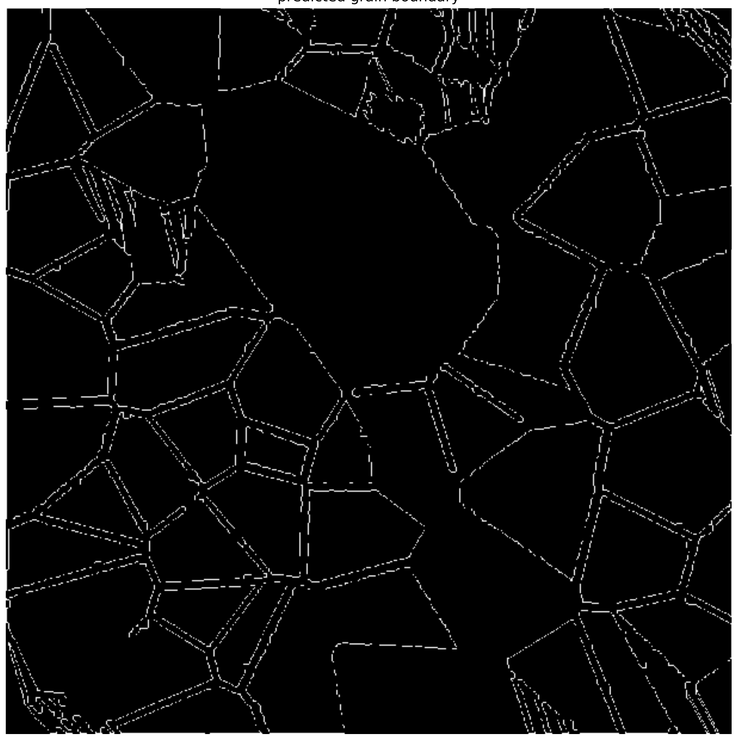
metrics

metric	correct	predicted	error
dark frac	0.242	0.237	0.583%
white frac	0.676	0.648	2.748%
line frac	0.082	0.059	2.314%
ave grain diameter	116.039	101.999	12.099%

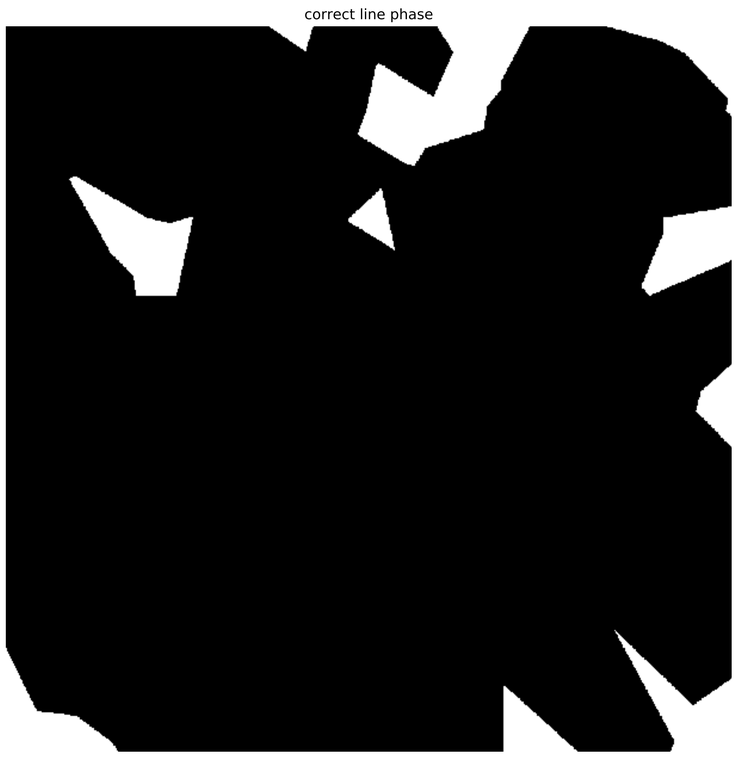
correct grain boundary



predicted grain boundary

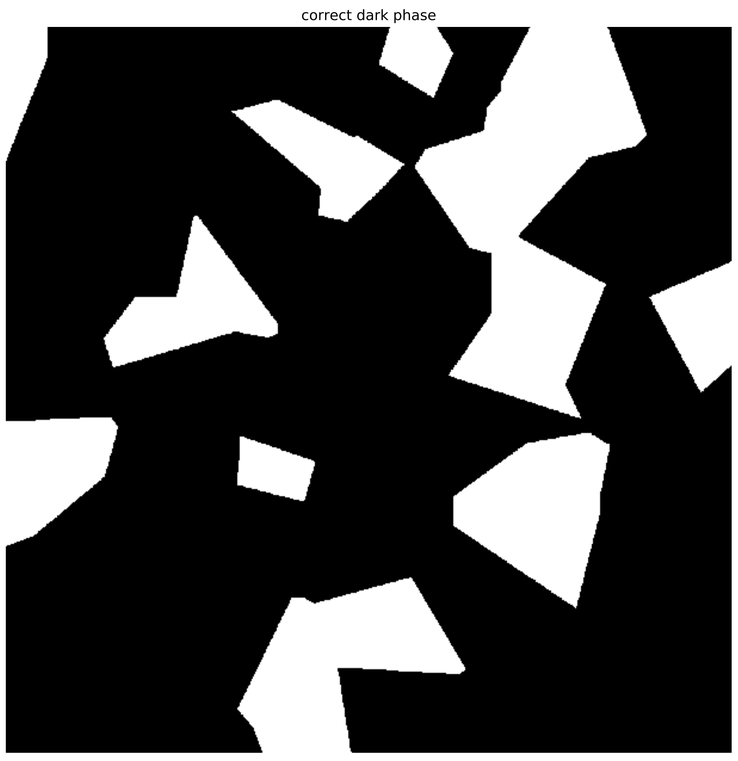


correct line phase



predicted line phase

correct dark phase



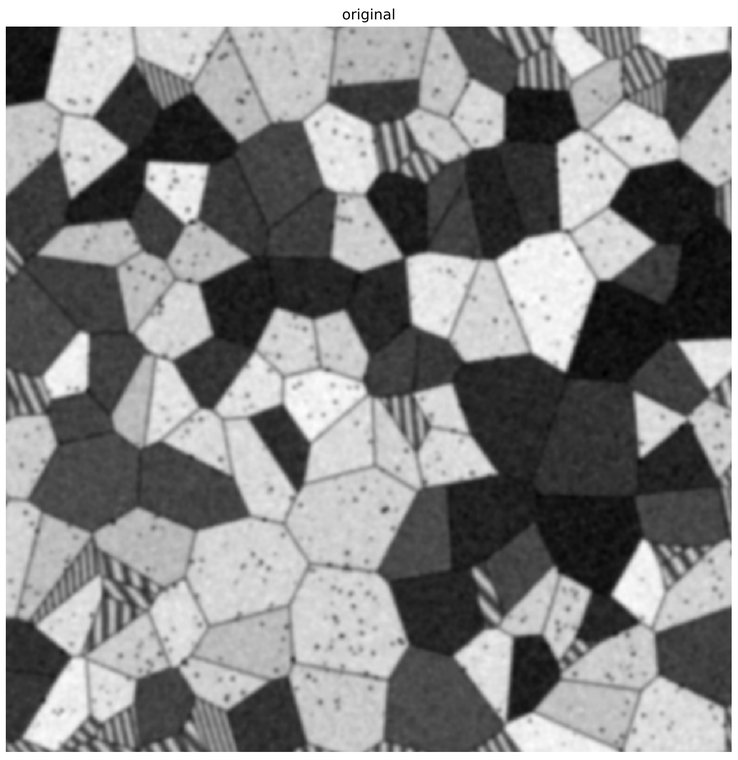
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_129.png

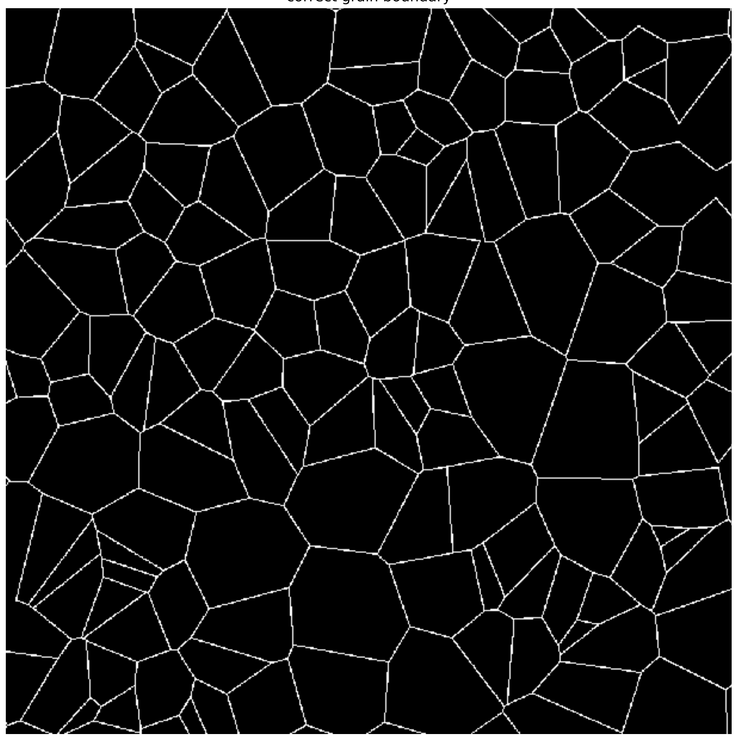
original



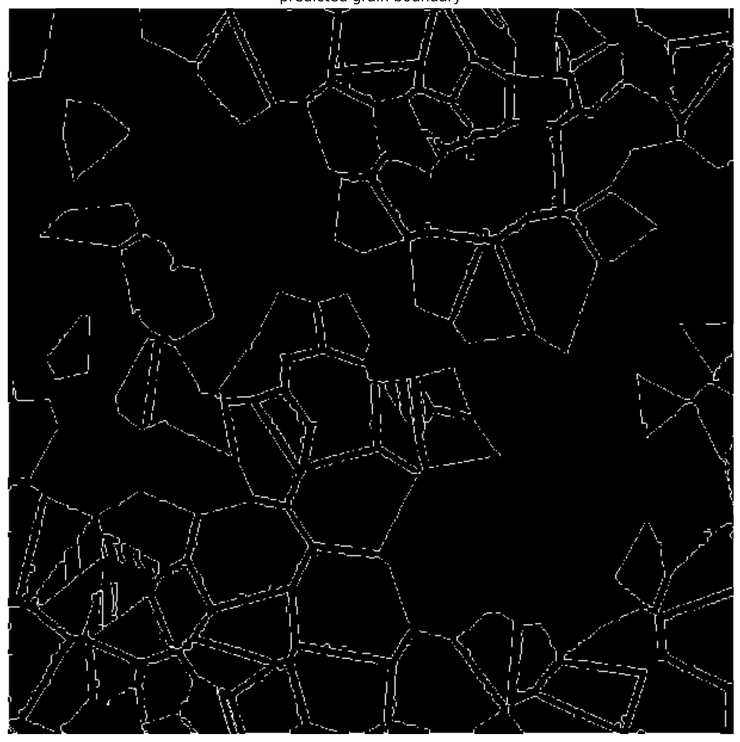
metrics

metric	correct	predicted	error
dark frac	0.438	0.427	1.075%
white frac	0.501	0.448	5.310%
line frac	0.061	0.033	2.829%
ave grain diameter	90.437	80.368	11.133%

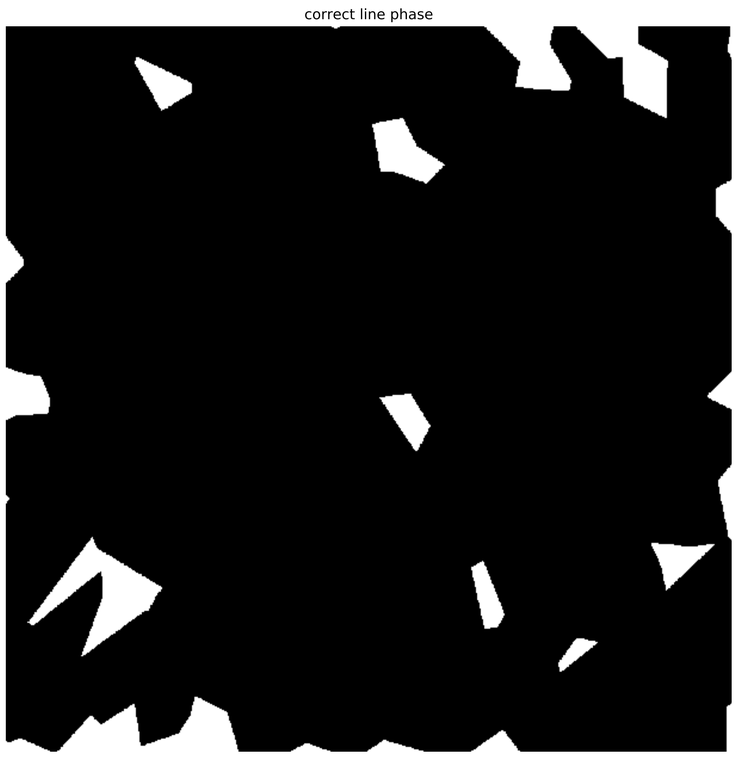
correct grain boundary



predicted grain boundary

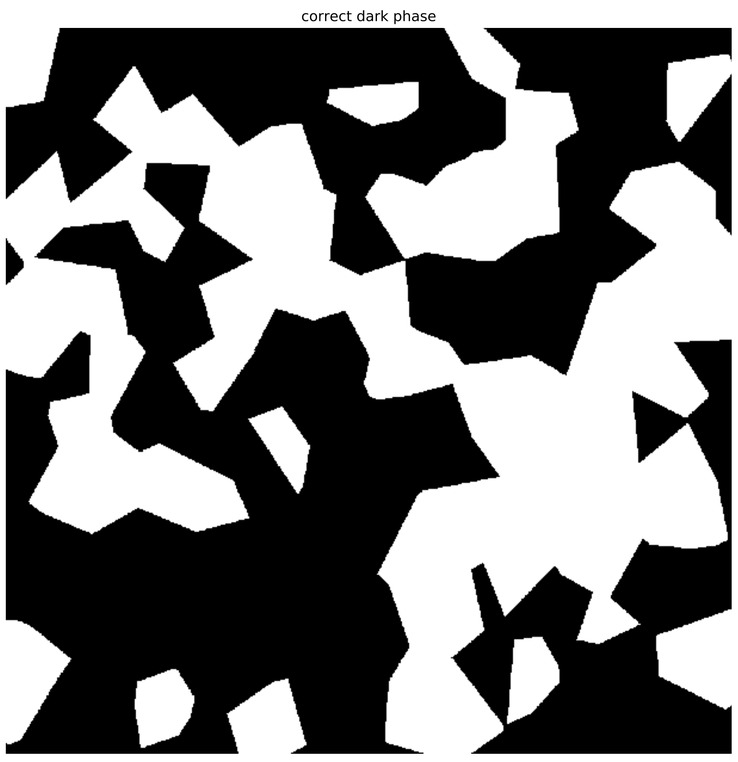


correct line phase



predicted line phase

correct dark phase



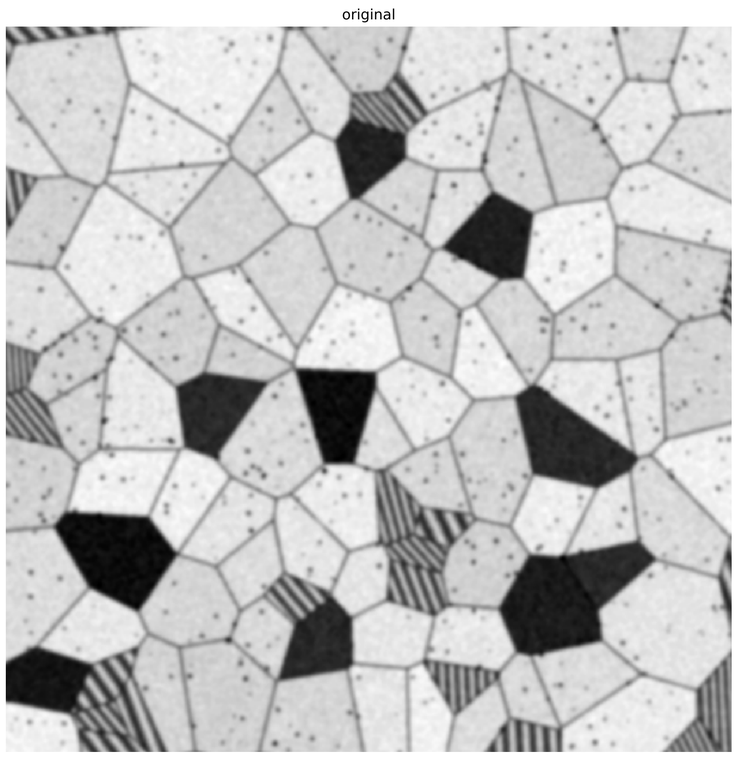
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_13.png

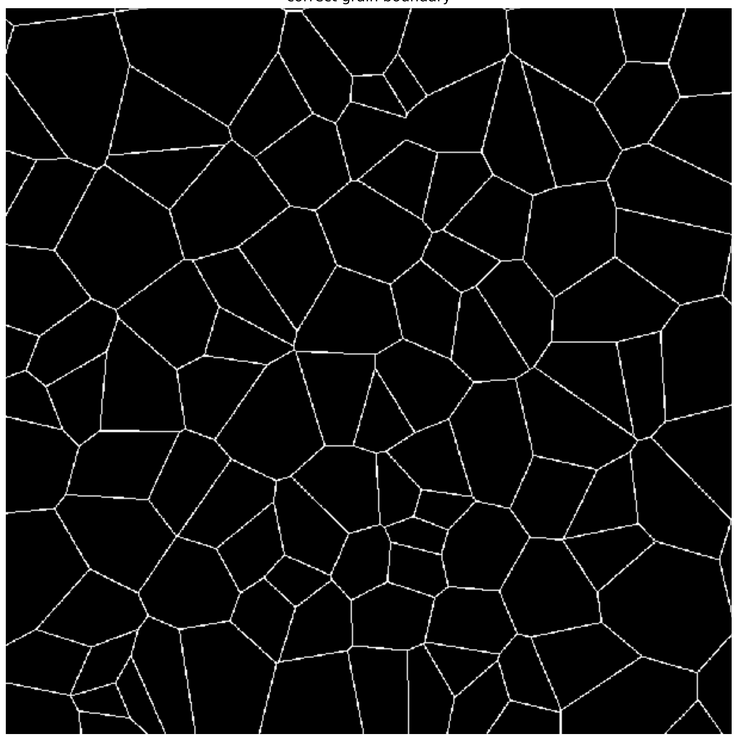
original



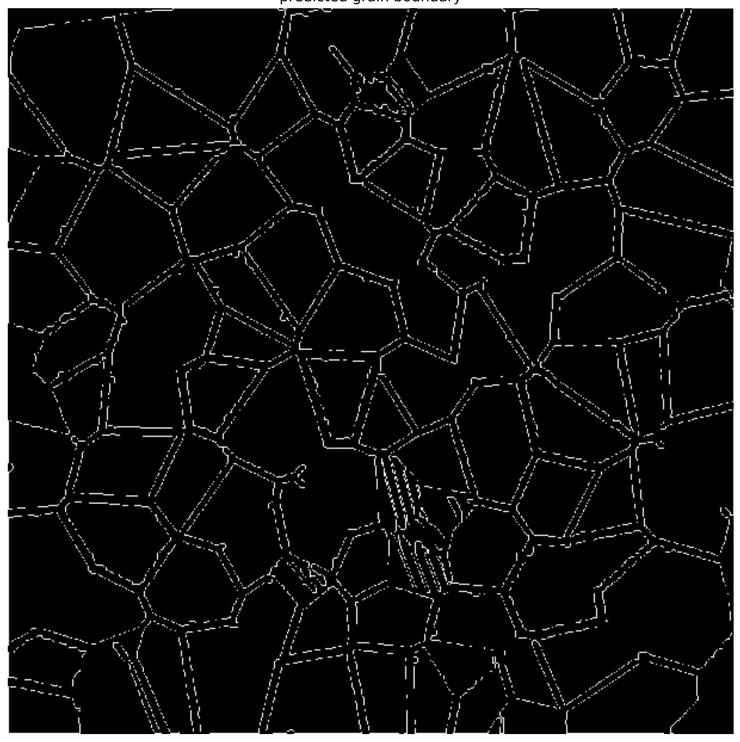
metrics

metric	correct	predicted	error
dark frac	0.096	0.093	0.314%
white frac	0.842	0.813	2.979%
line frac	0.062	0.048	1.380%
ave grain diameter	103.509	92.167	10.958%

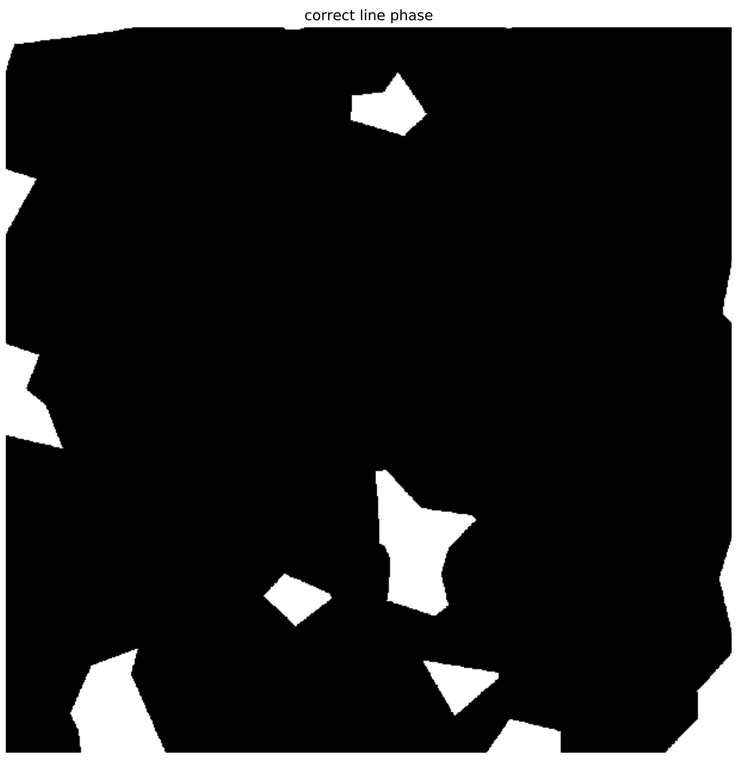
correct grain boundary



predicted grain boundary

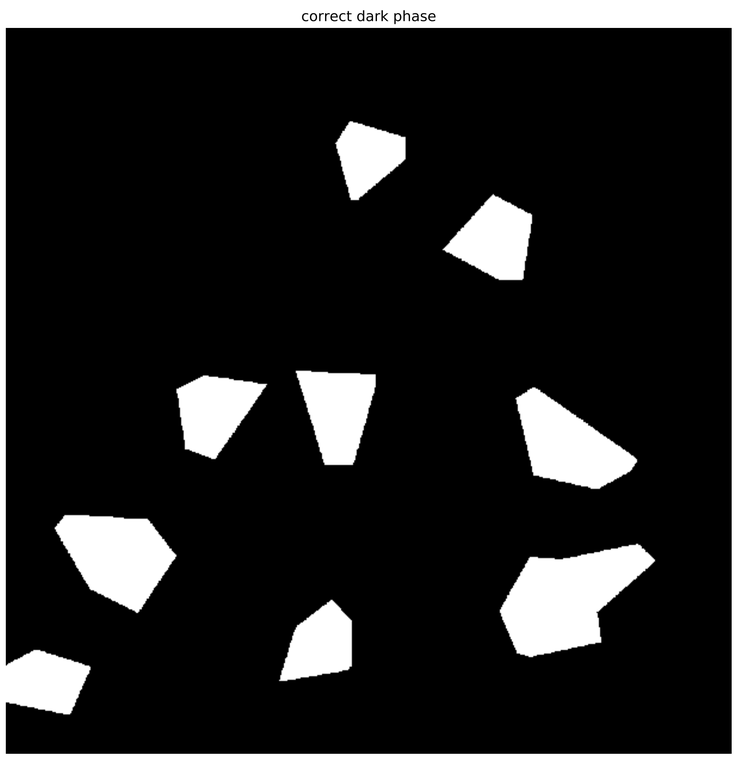


correct line phase

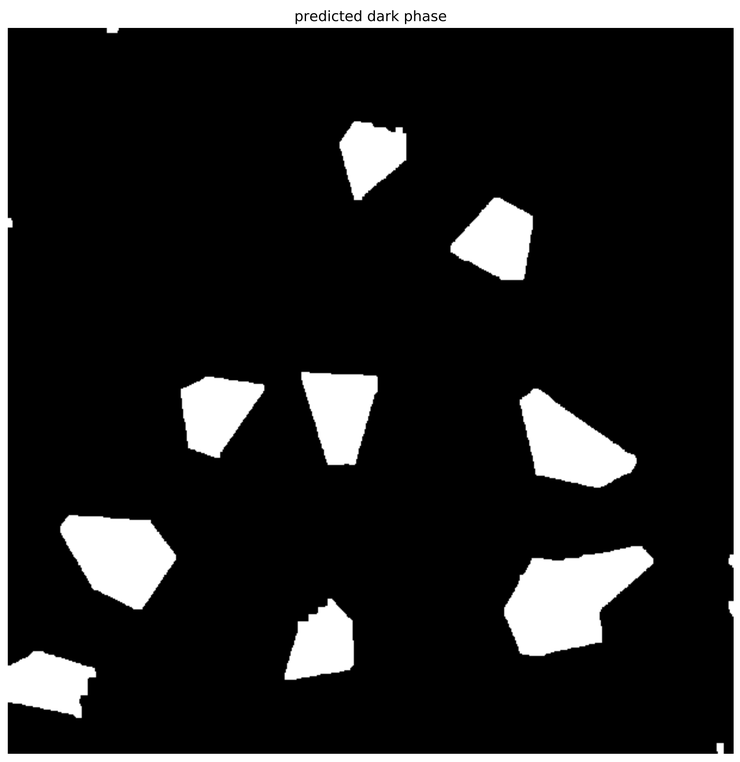


predicted line phase

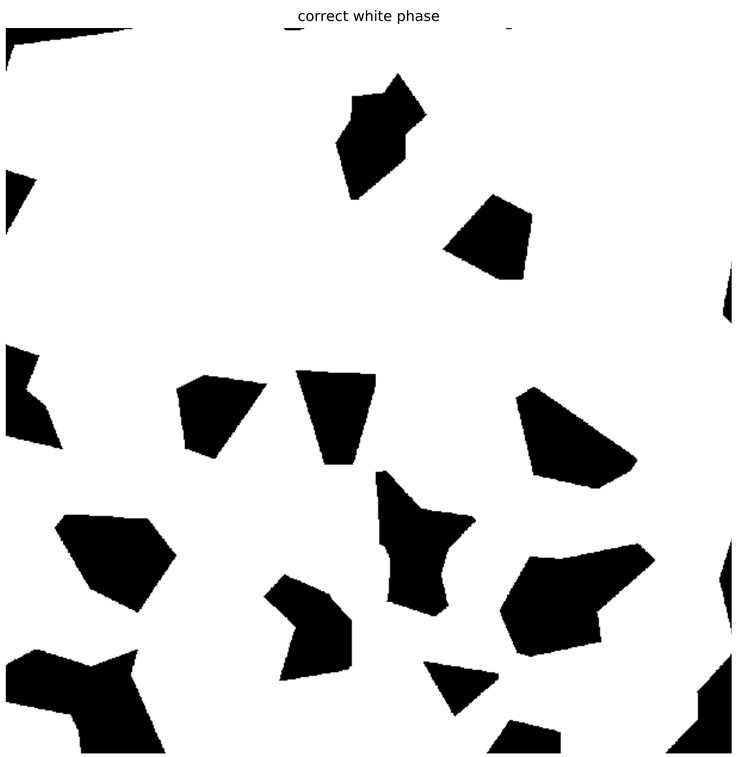
correct dark phase



predicted dark phase



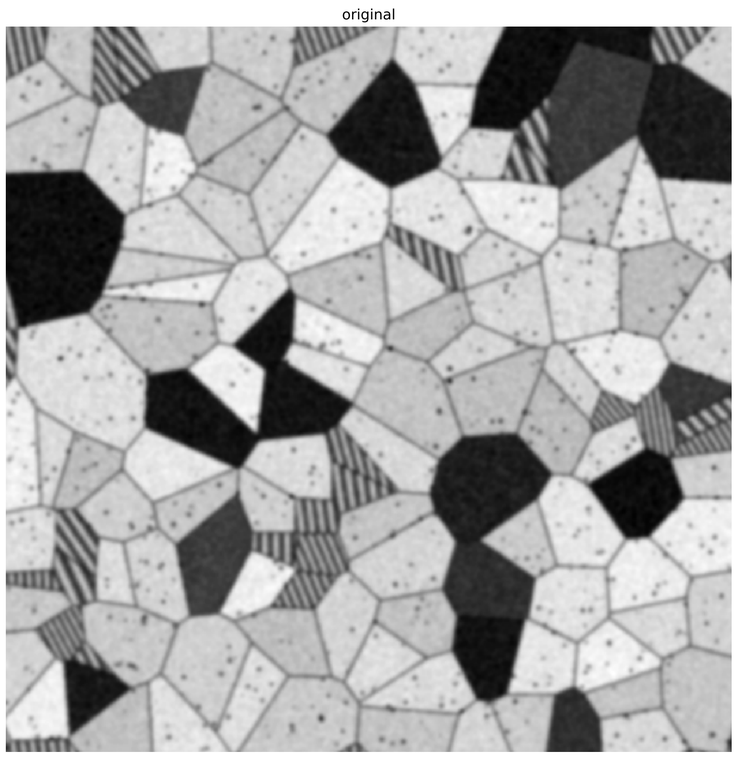
correct white phase



predicted white phase

data/base microstructure/image_130.png

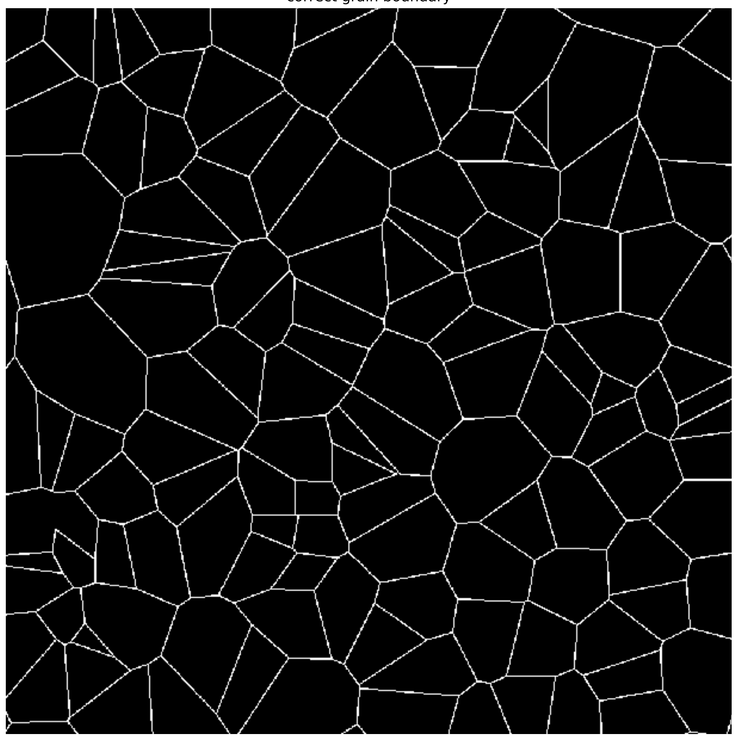
original



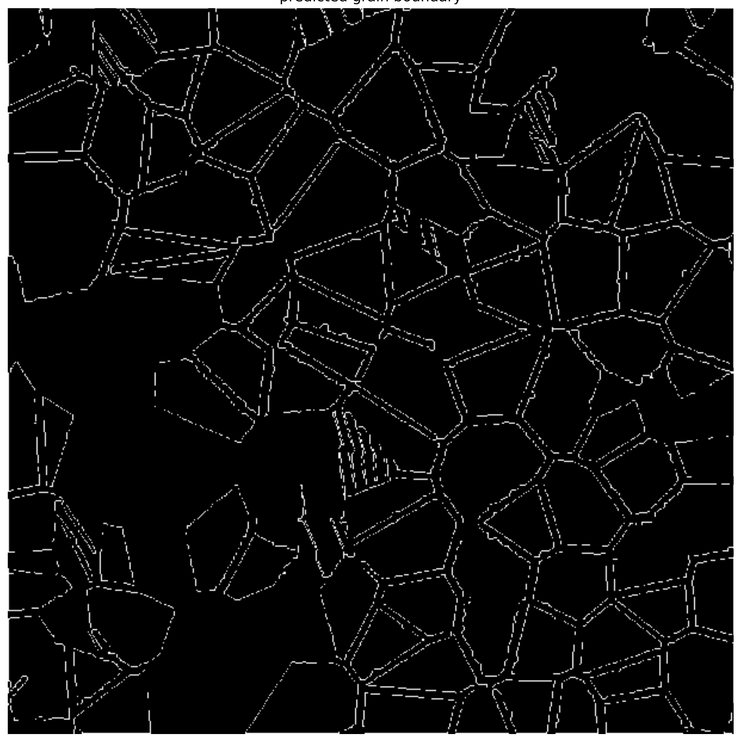
metrics

metric	correct	predicted	error
dark frac	0.201	0.194	0.726%
white frac	0.728	0.696	3.205%
line frac	0.070	0.048	2.194%
ave grain diameter	93.696	82.064	12.415%

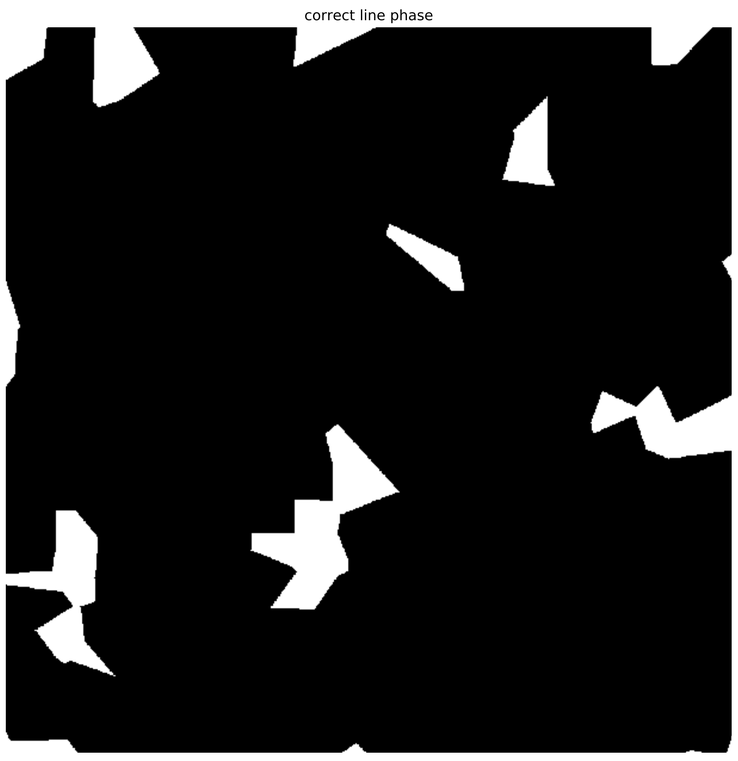
correct grain boundary



predicted grain boundary

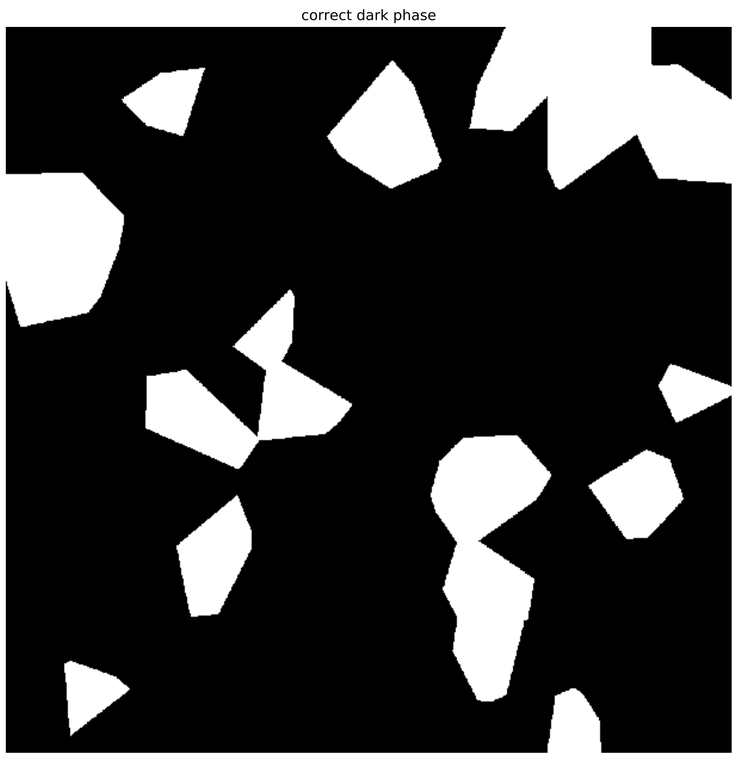


correct line phase

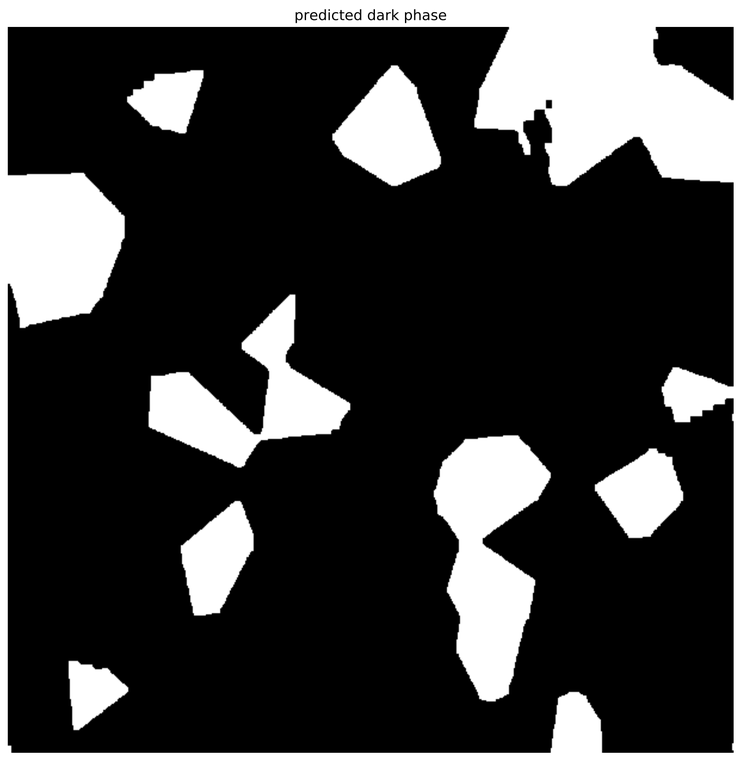


predicted line phase

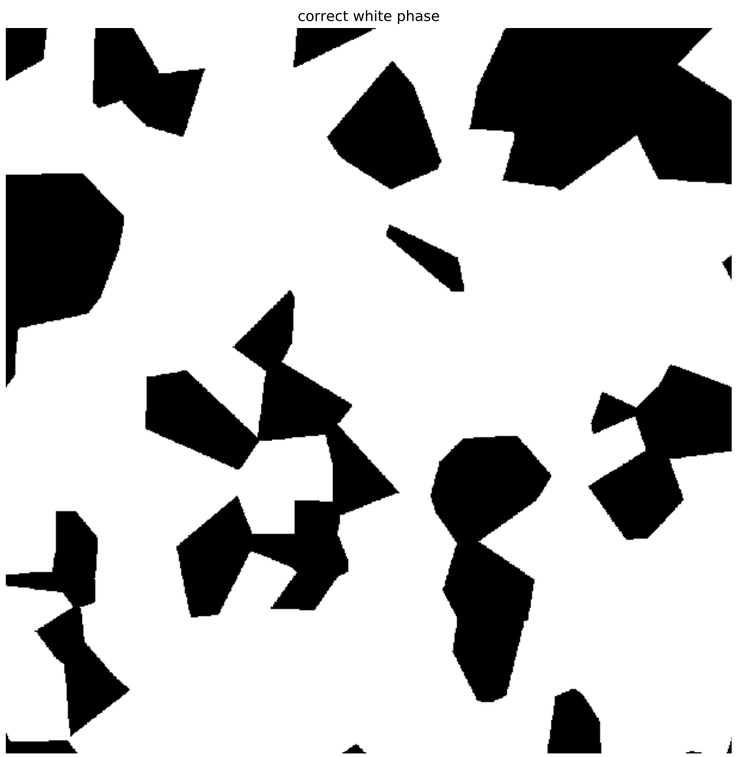
correct dark phase



predicted dark phase



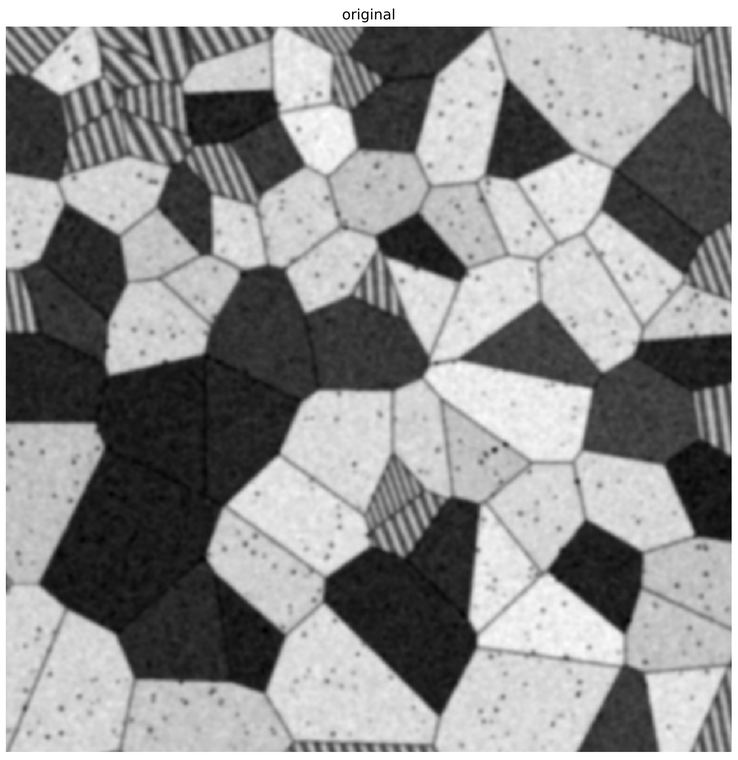
correct white phase



predicted white phase

data/base microstructure/image_131.png

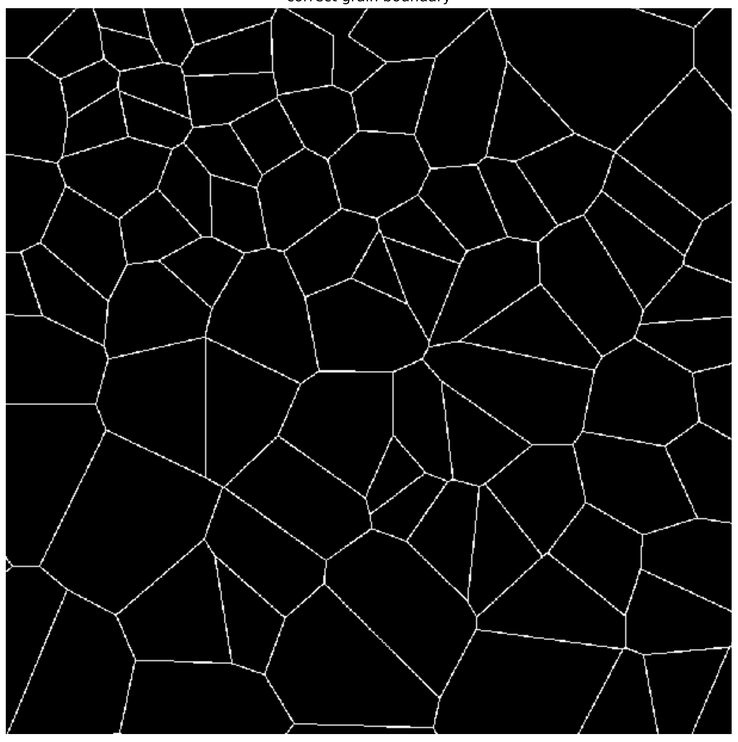
original



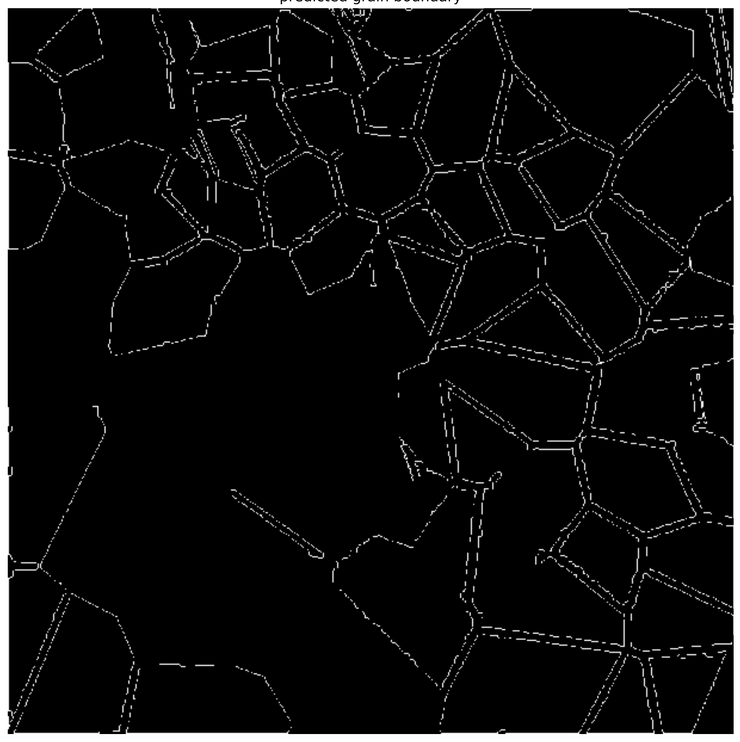
metrics

metric	correct	predicted	error
dark frac	0.356	0.349	0.702%
white frac	0.558	0.517	4.051%
line frac	0.086	0.063	2.326%
ave grain diameter	111.440	98.912	11.242%

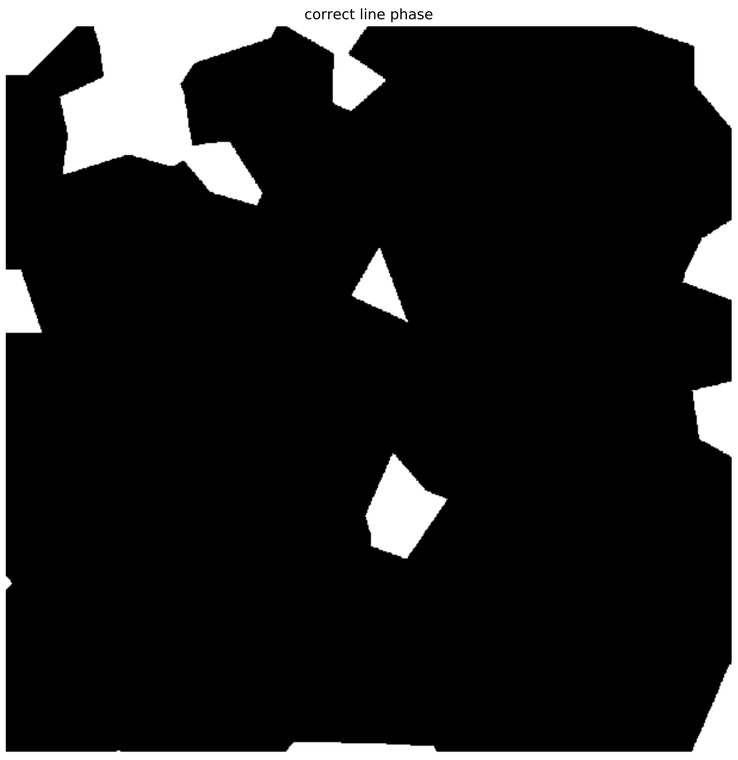
correct grain boundary



predicted grain boundary

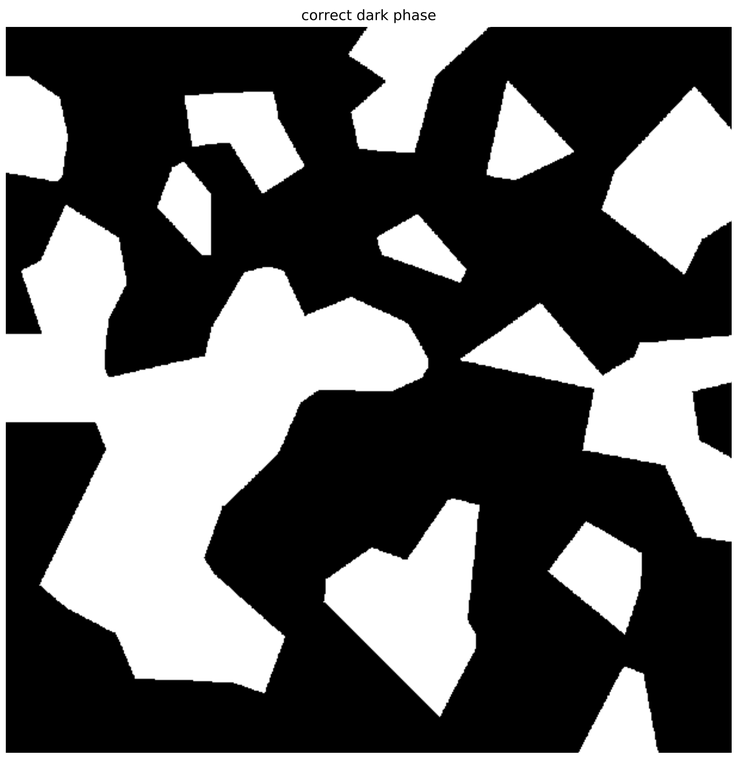


correct line phase



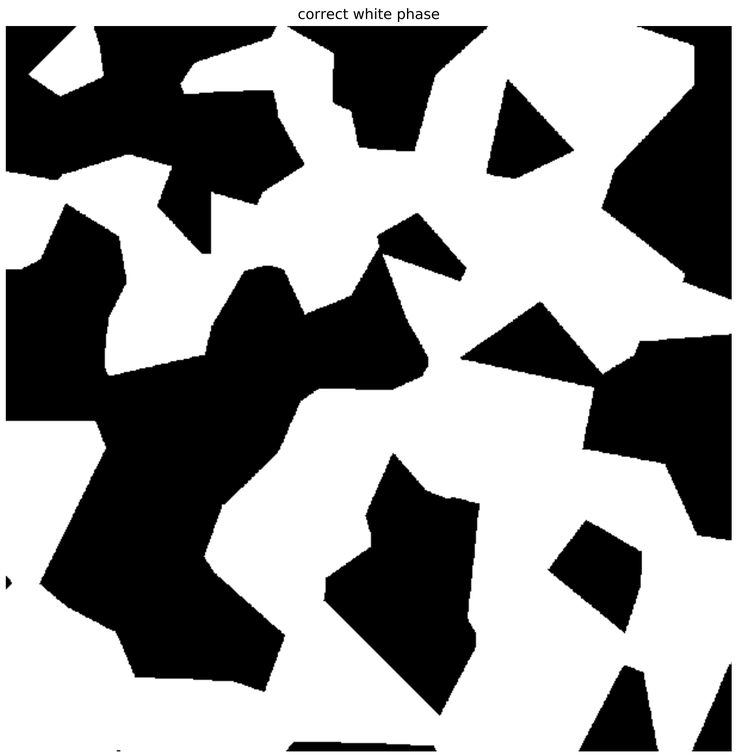
predicted line phase

correct dark phase



predicted dark phase

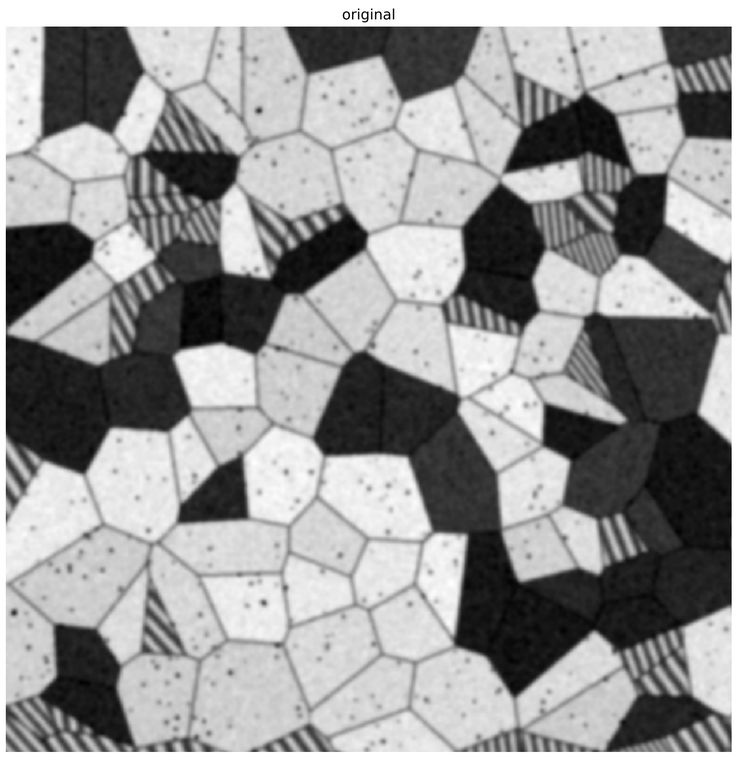
correct white phase



predicted white phase

data/base microstructure/image_132.png

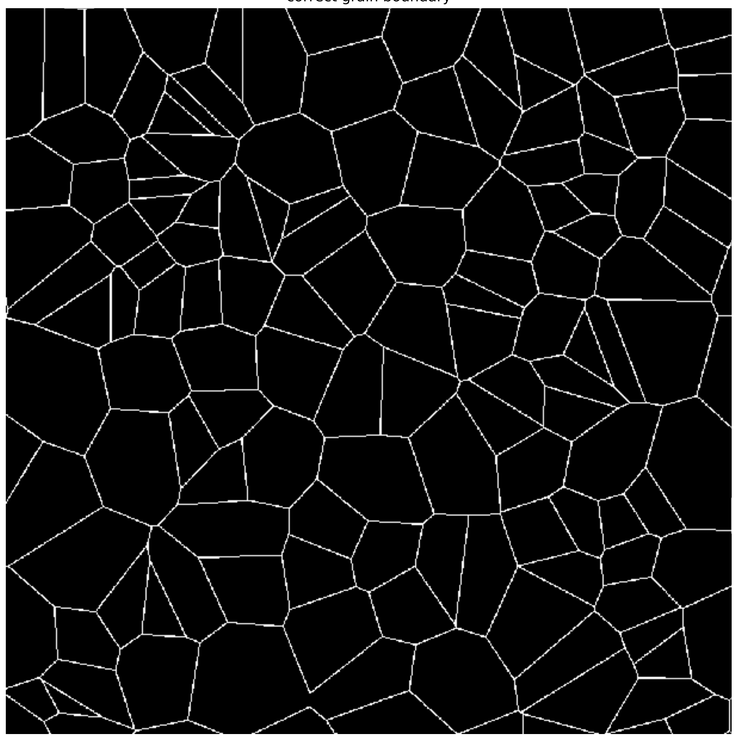
original



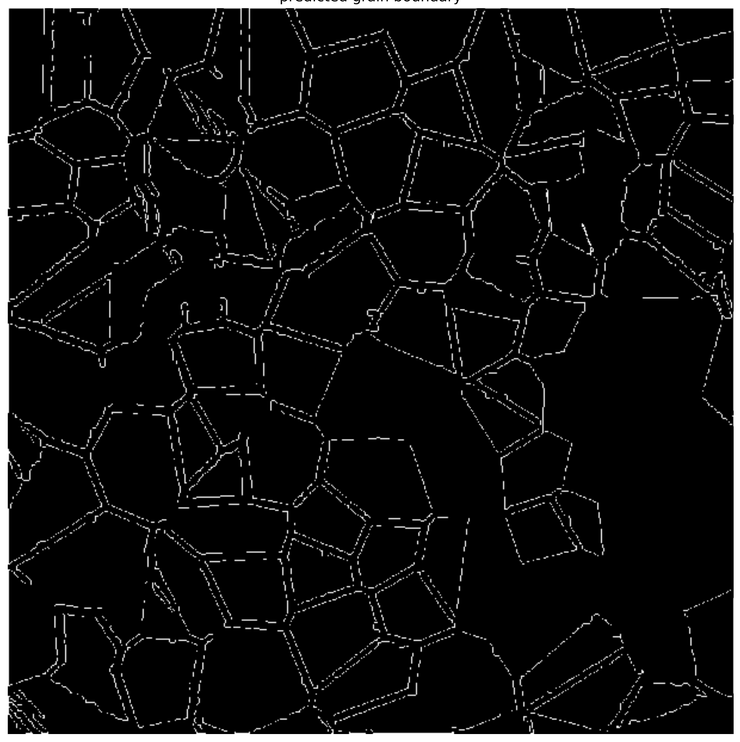
metrics

metric	correct	predicted	error
dark frac	0.316	0.310	0.571%
white frac	0.594	0.554	3.922%
line frac	0.090	0.056	3.420%
ave grain diameter	89.663	86.117	3.955%

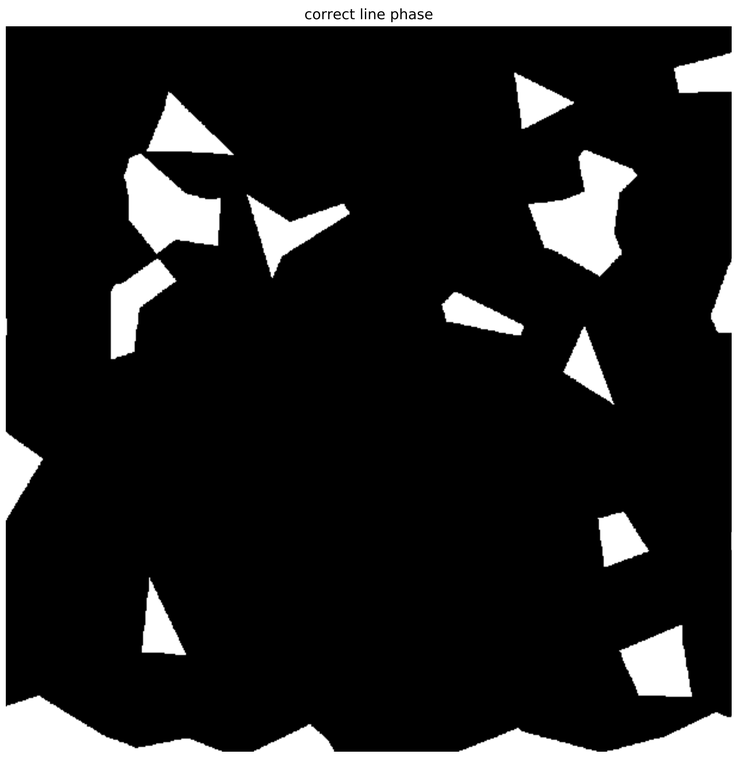
correct grain boundary



predicted grain boundary



correct line phase

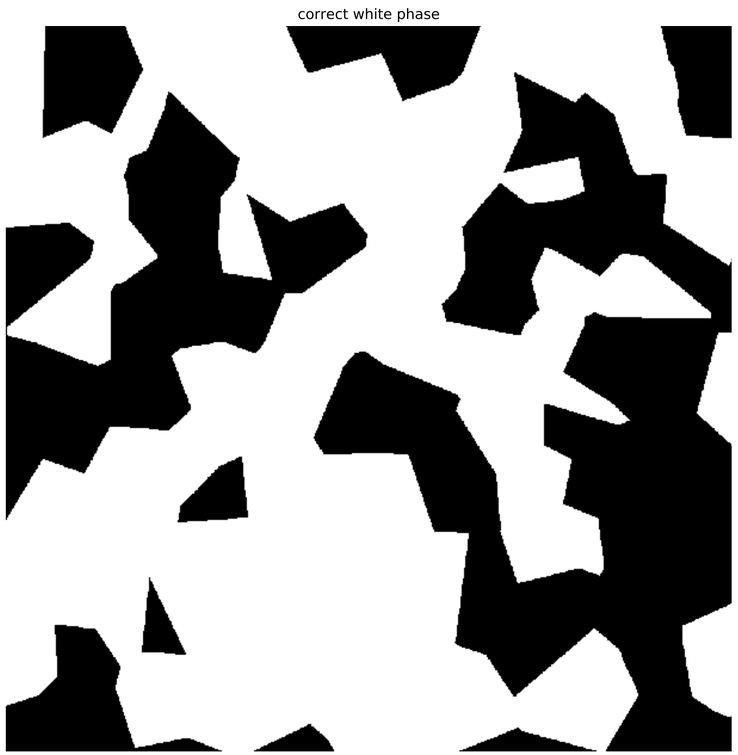


predicted line phase

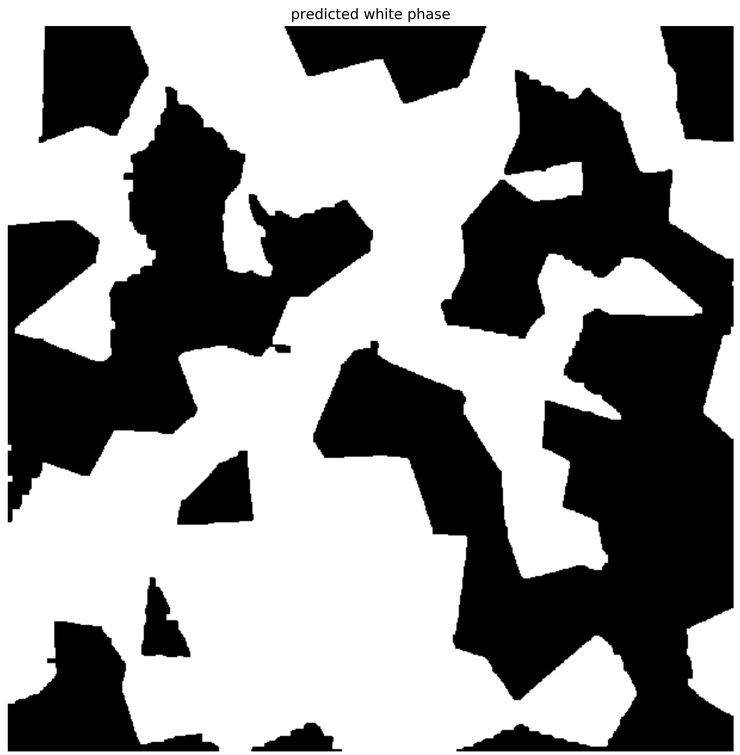
correct dark phase

predicted dark phase

correct white phase

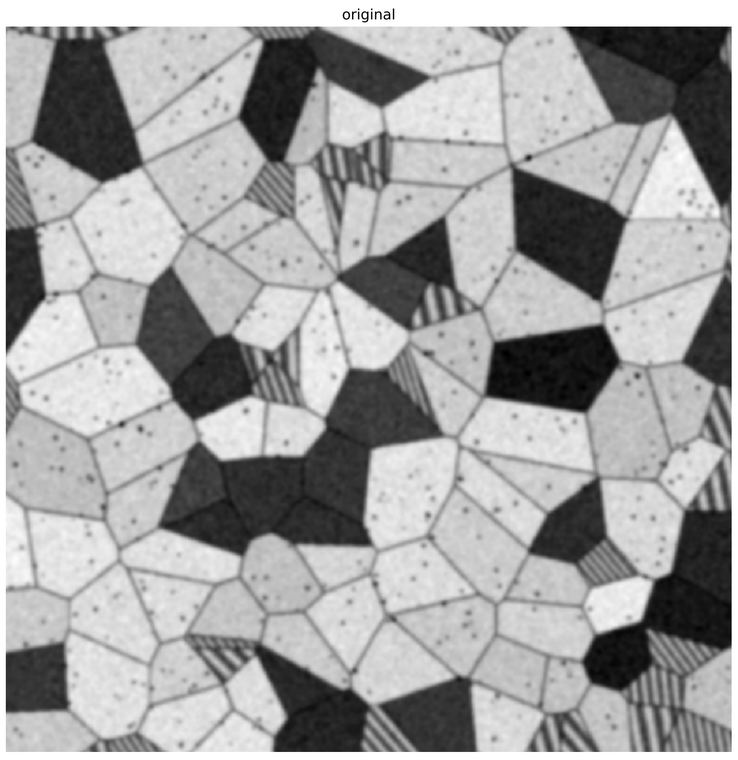


predicted white phase



data/base microstructure/image_133.png

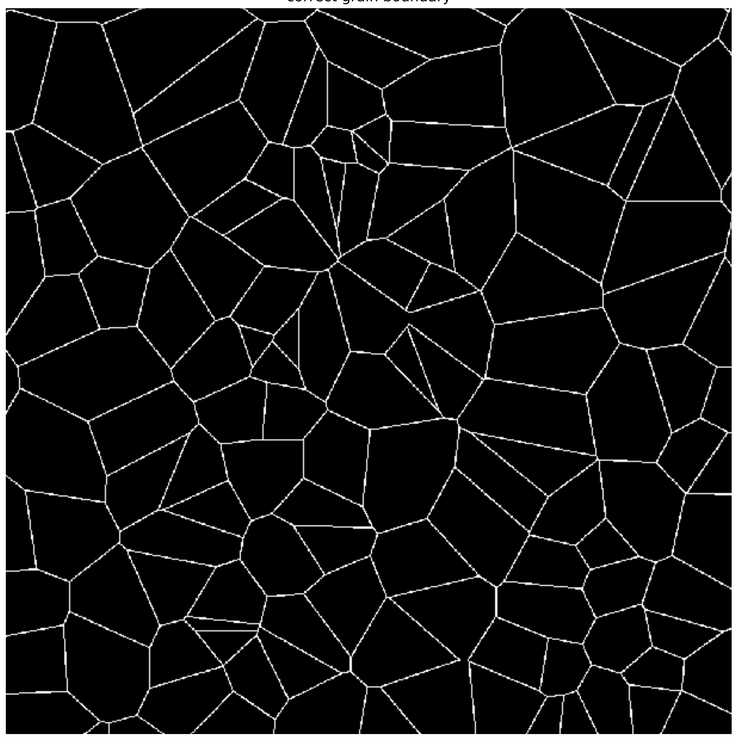
original



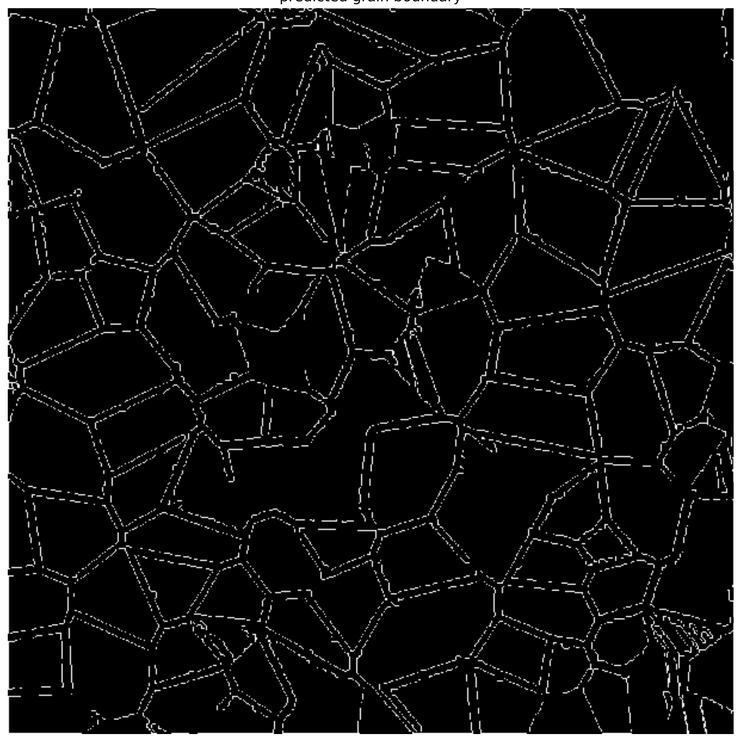
metrics

metric	correct	predicted	error
dark frac	0.247	0.240	0.672%
white frac	0.683	0.641	4.151%
line frac	0.070	0.045	2.510%
ave grain diameter	93.747	87.162	7.024%

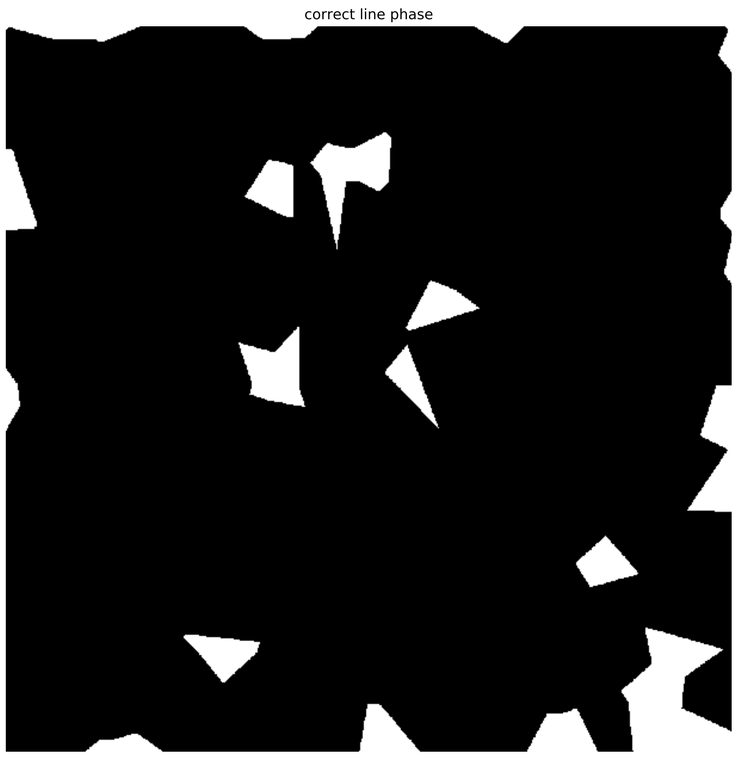
correct grain boundary



predicted grain boundary

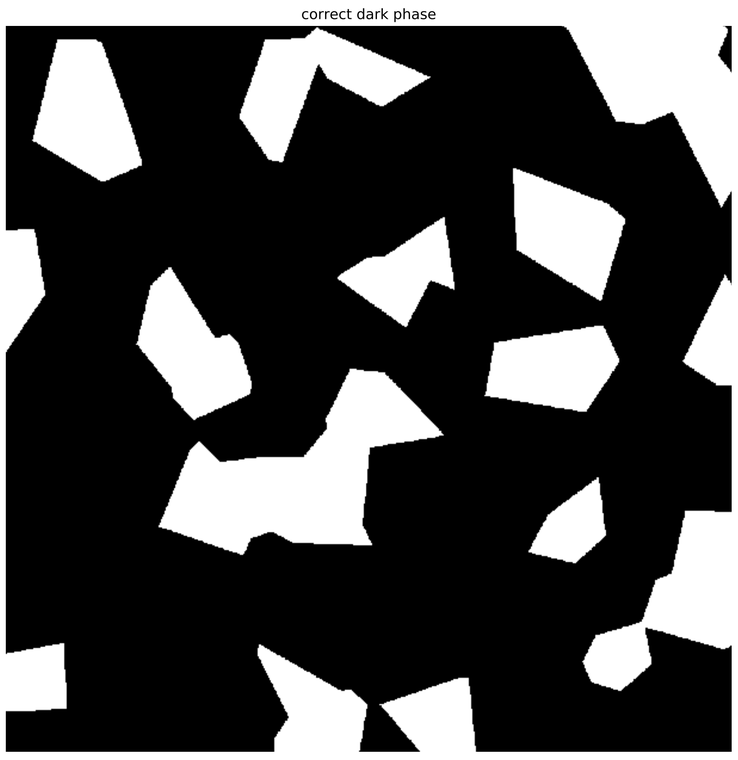


correct line phase

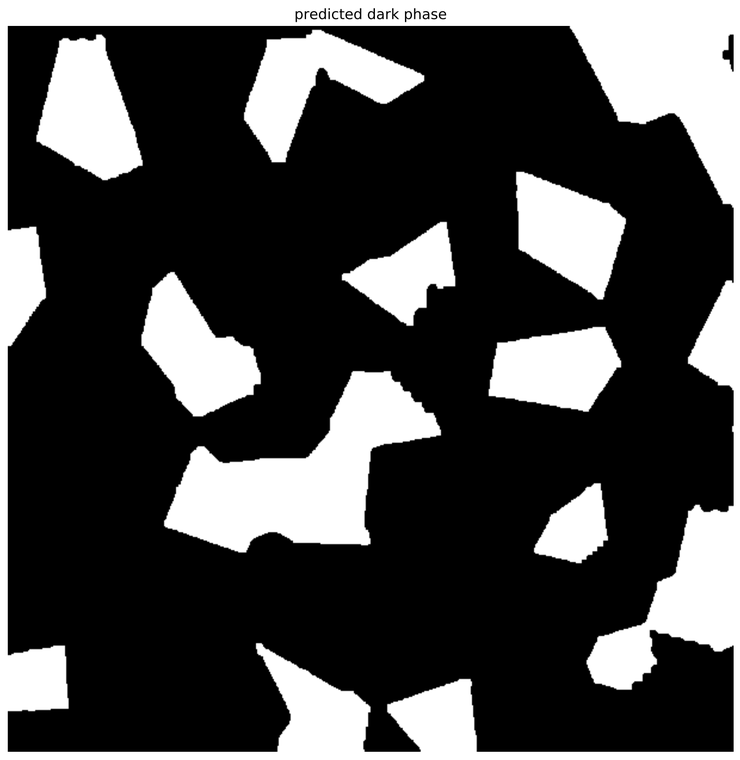


predicted line phase

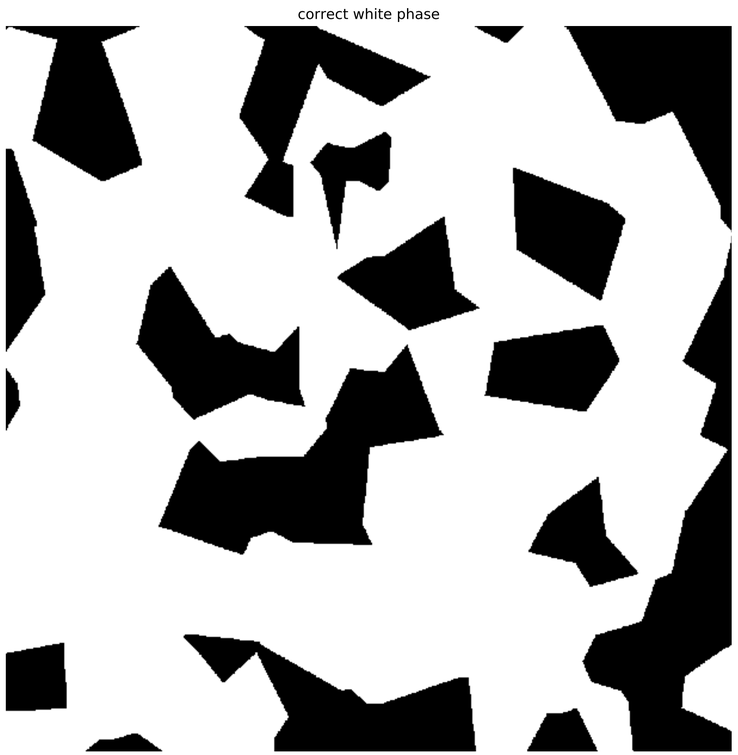
correct dark phase



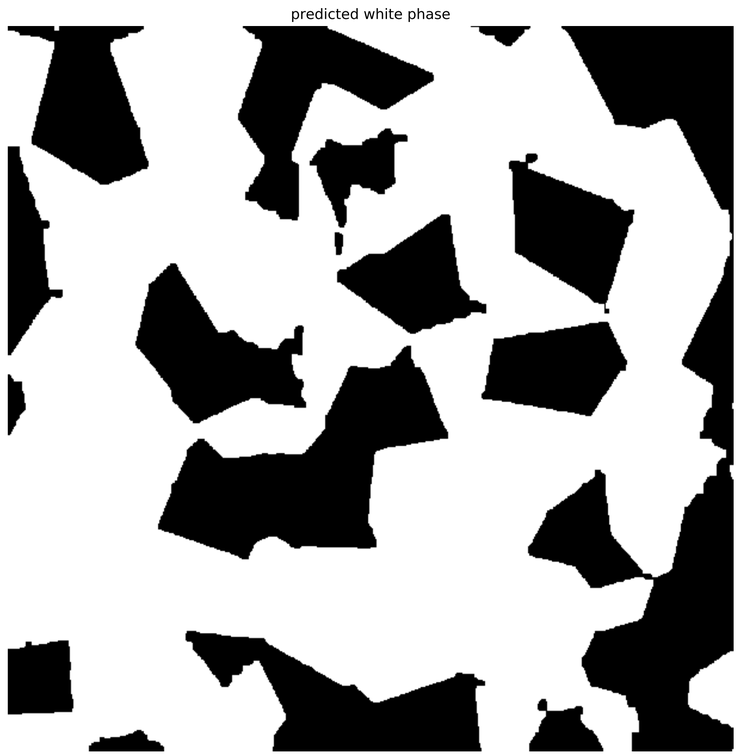
predicted dark phase



correct white phase

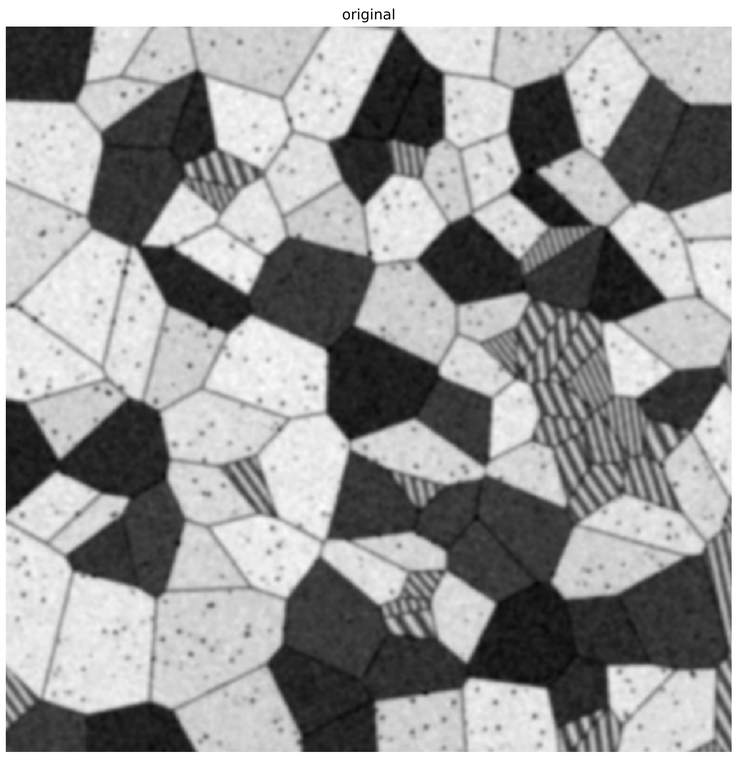


predicted white phase



data/base microstructure/image_134.png

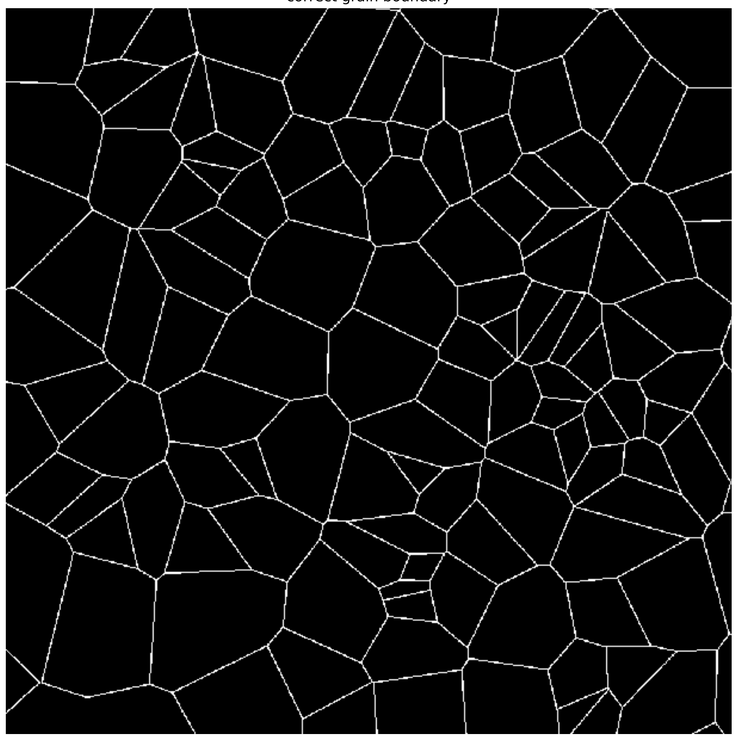
original



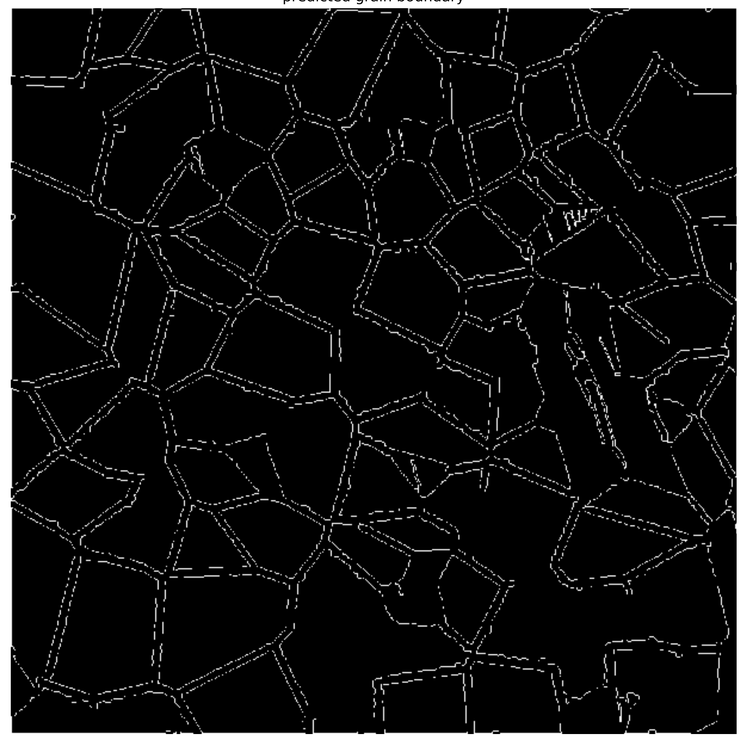
metrics

metric	correct	predicted	error
dark frac	0.338	0.330	0.772%
white frac	0.587	0.538	4.911%
line frac	0.075	0.054	2.125%
ave grain diameter	95.336	93.370	2.062%

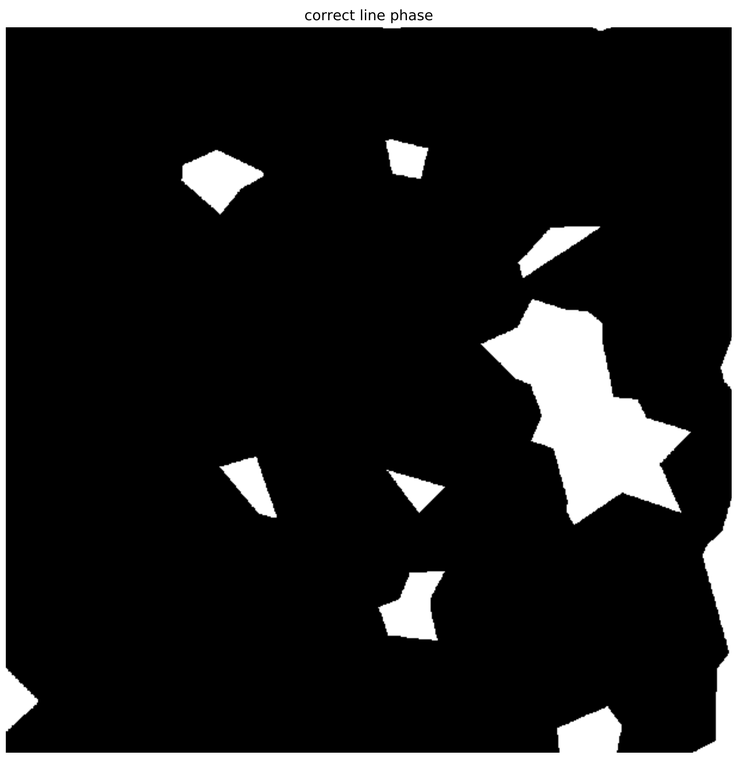
correct grain boundary



predicted grain boundary

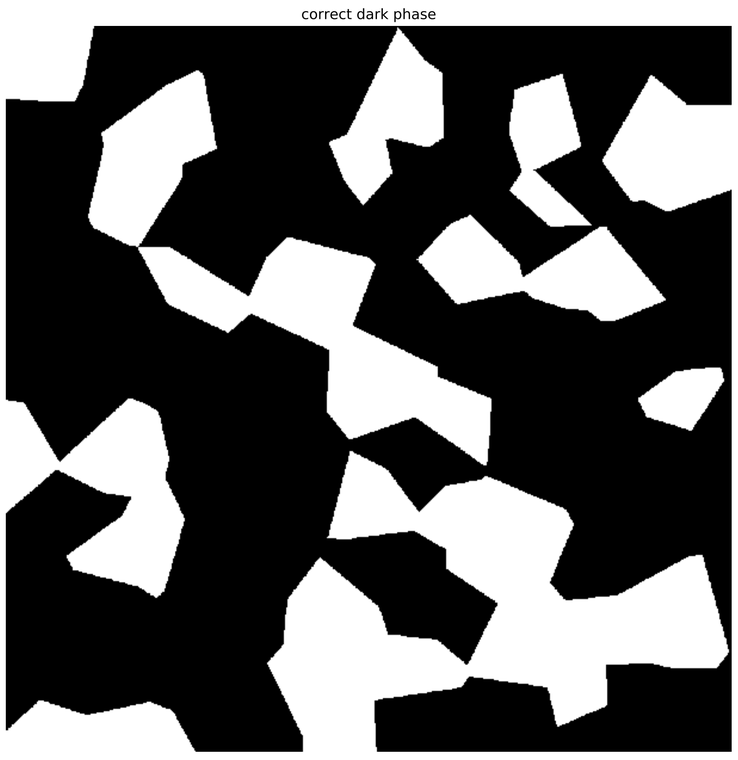


correct line phase



predicted line phase

correct dark phase



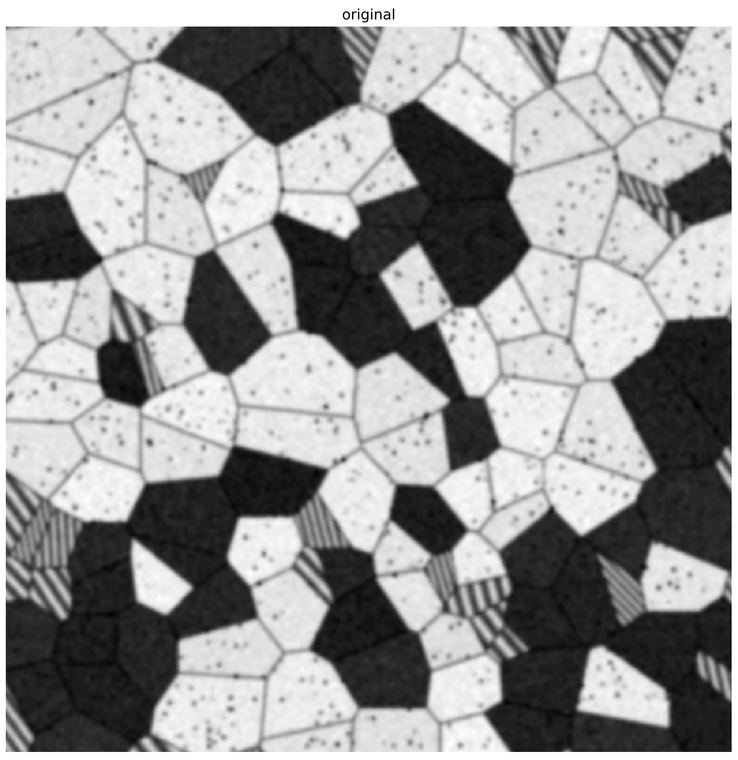
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_135.png

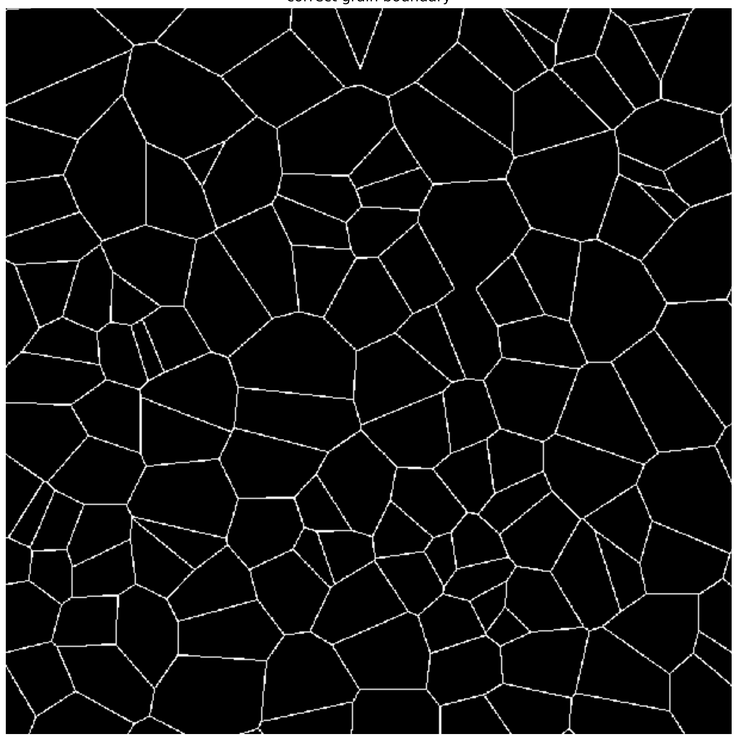
original



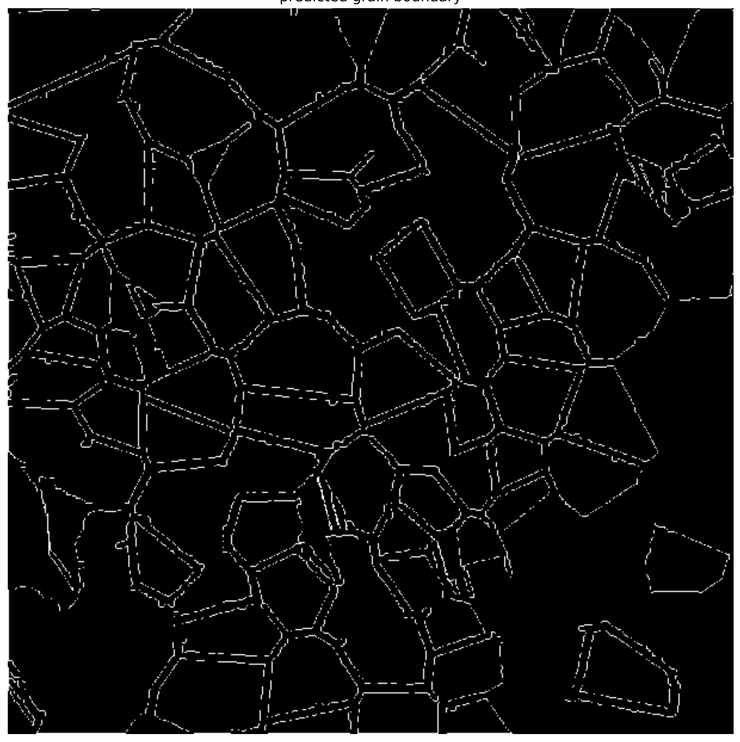
metrics

metric	correct	predicted	error
dark frac	0.355	0.346	0.890%
white frac	0.583	0.545	3.793%
line frac	0.062	0.037	2.520%
ave grain diameter	91.041	88.733	2.536%

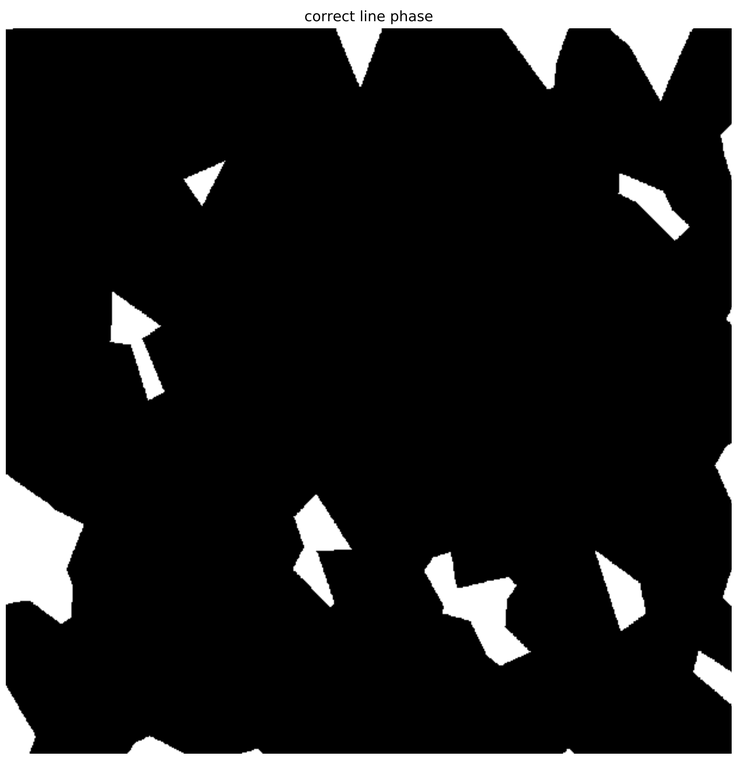
correct grain boundary



predicted grain boundary



correct line phase



predicted line phase

correct dark phase

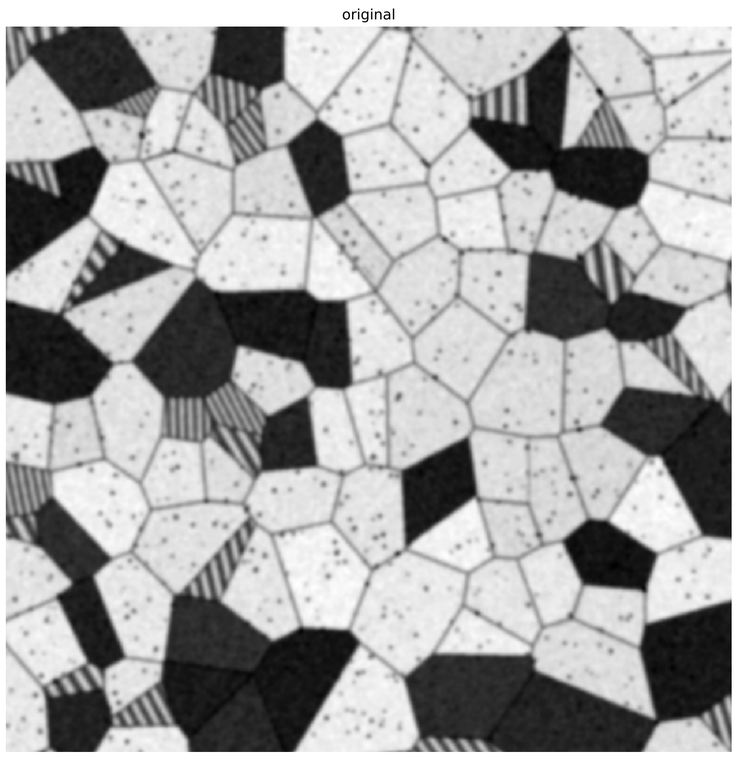
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_136.png

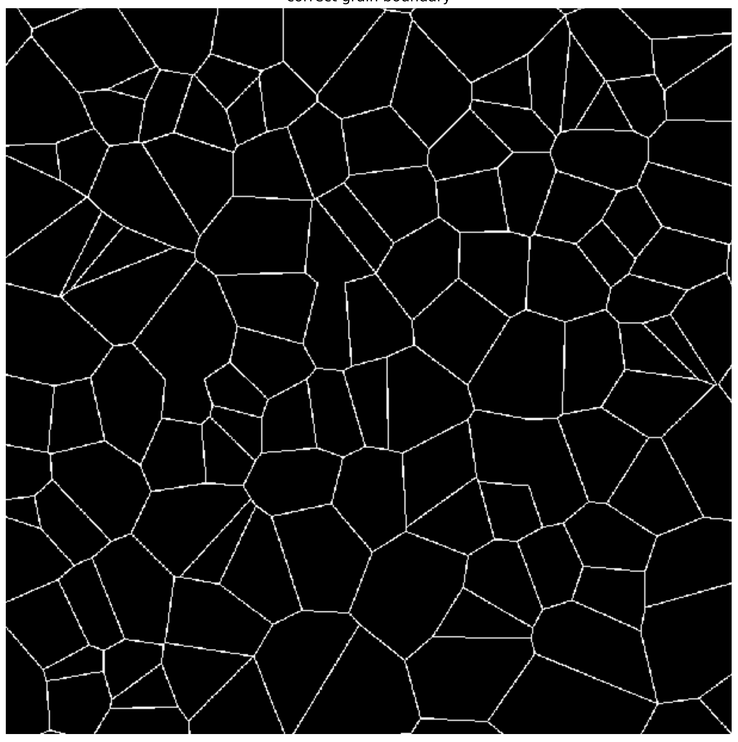
original



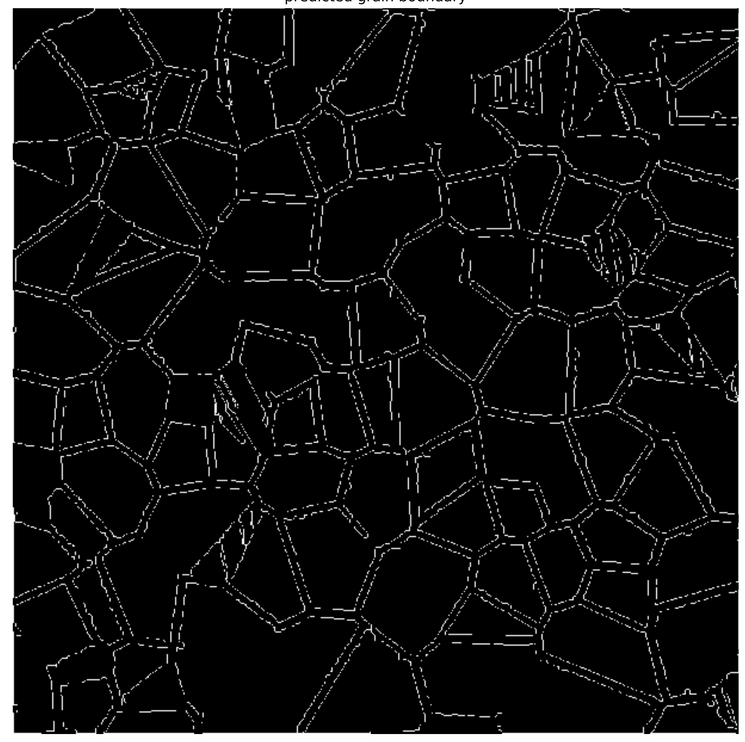
metrics

metric	correct	predicted	error
dark frac	0.275	0.268	0.767%
white frac	0.664	0.622	4.149%
line frac	0.061	0.035	2.567%
ave grain diameter	95.257	85.679	10.055%

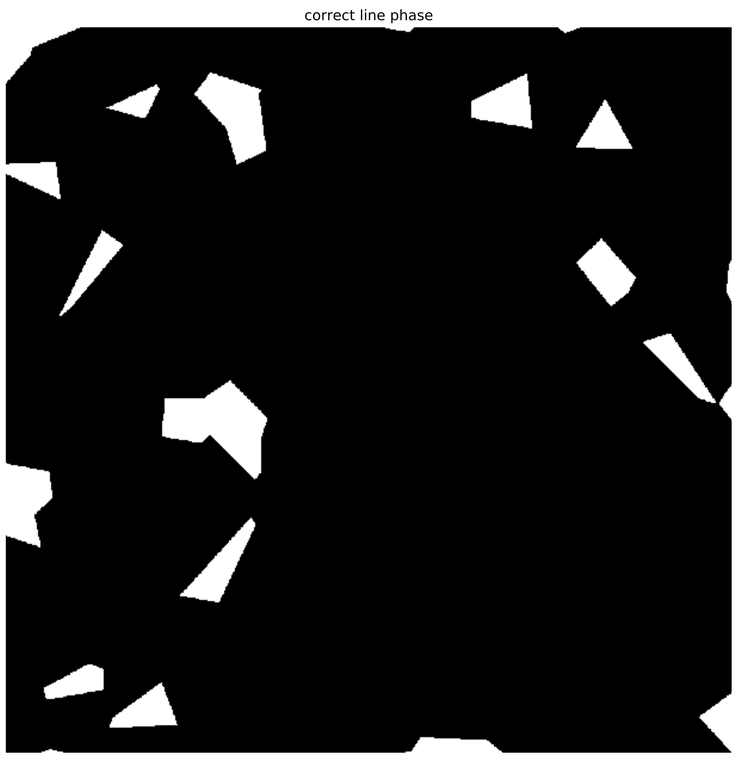
correct grain boundary



predicted grain boundary

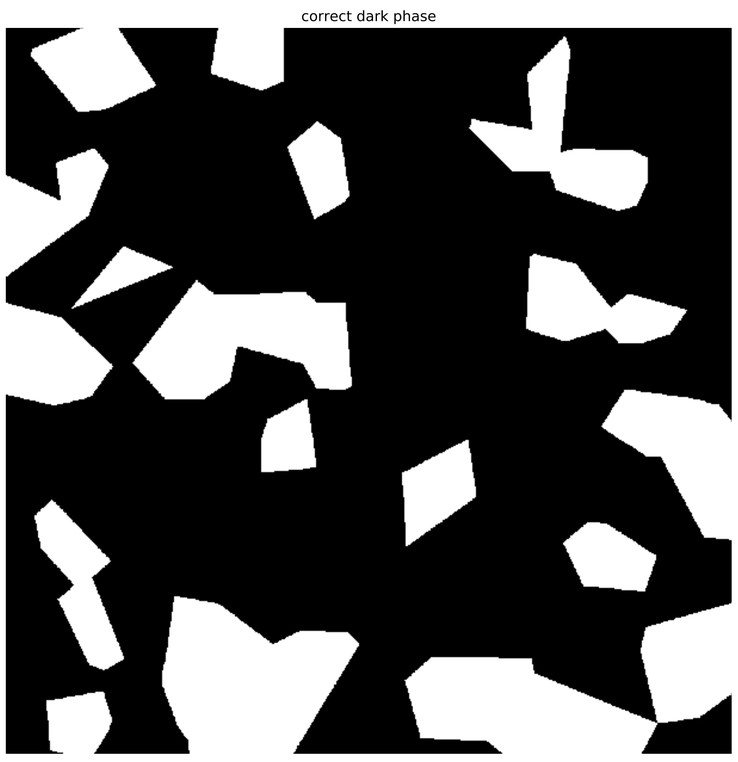


correct line phase



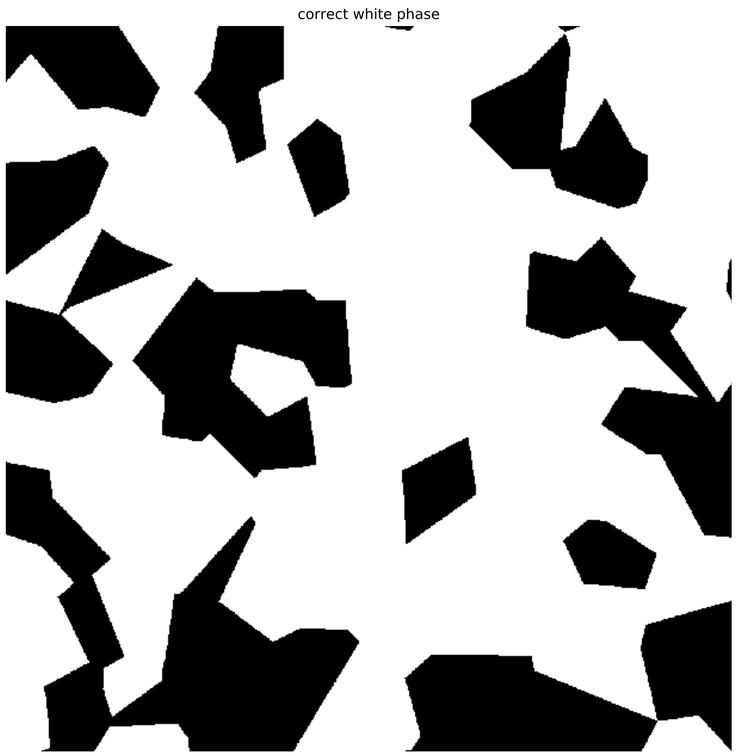
predicted line phase

correct dark phase



predicted dark phase

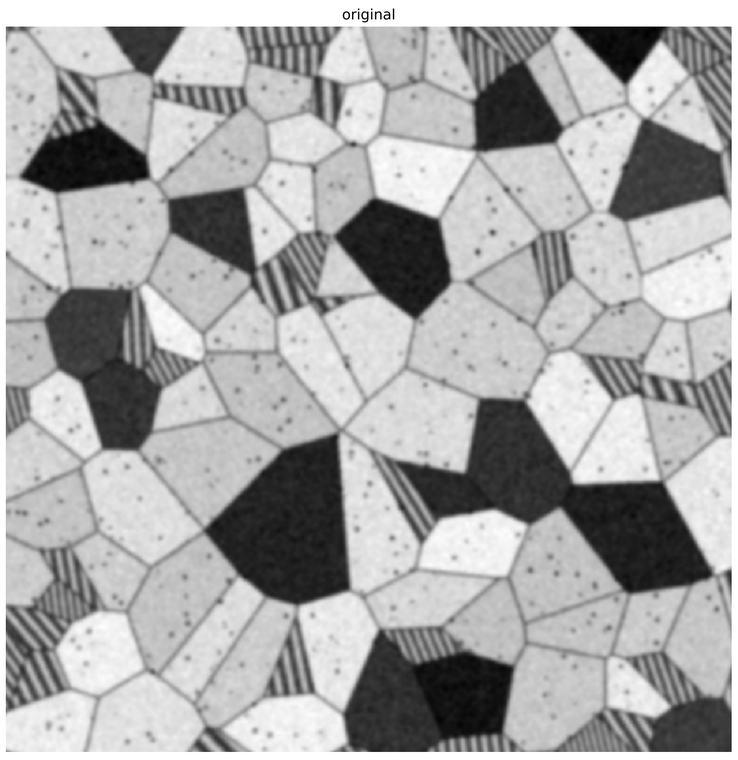
correct white phase



predicted white phase

data/base microstructure/image_137.png

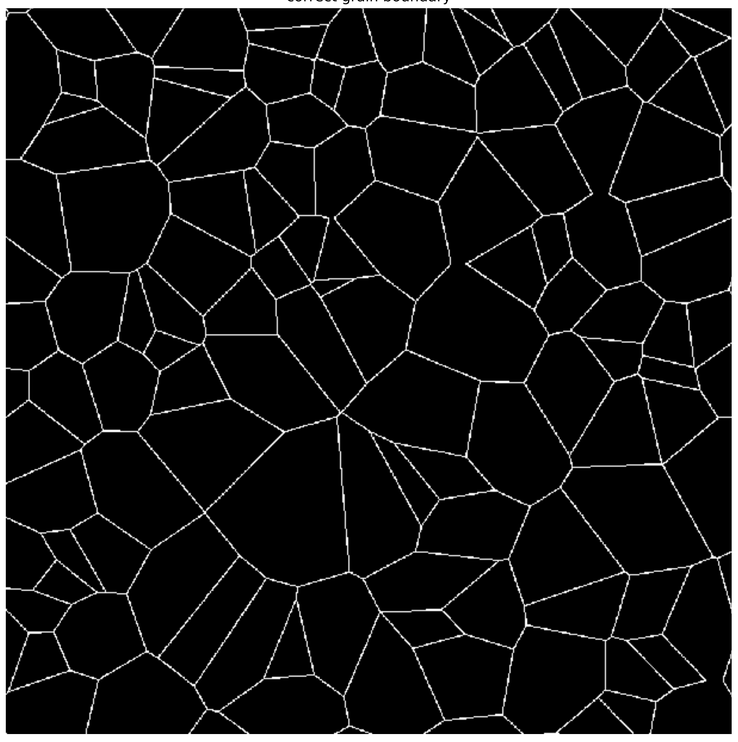
original



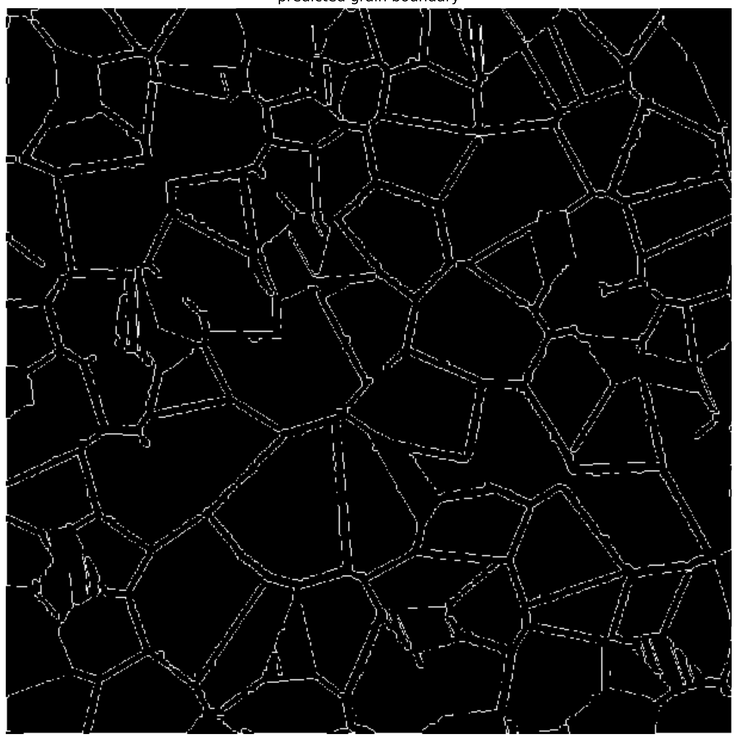
metrics

metric	correct	predicted	error
dark frac	0.194	0.190	0.391%
white frac	0.701	0.662	3.940%
line frac	0.105	0.073	3.164%
ave grain diameter	95.114	95.734	0.652%

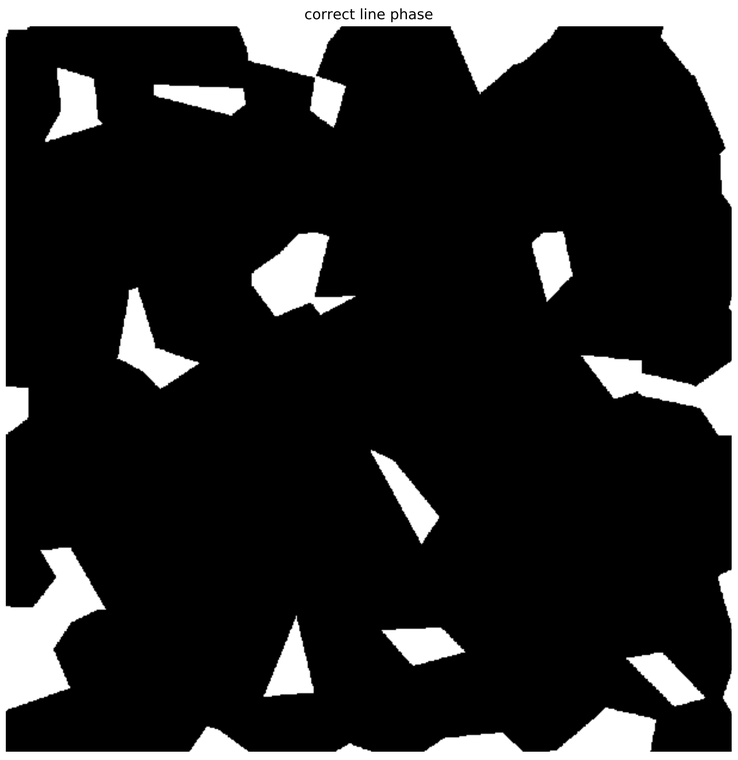
correct grain boundary



predicted grain boundary

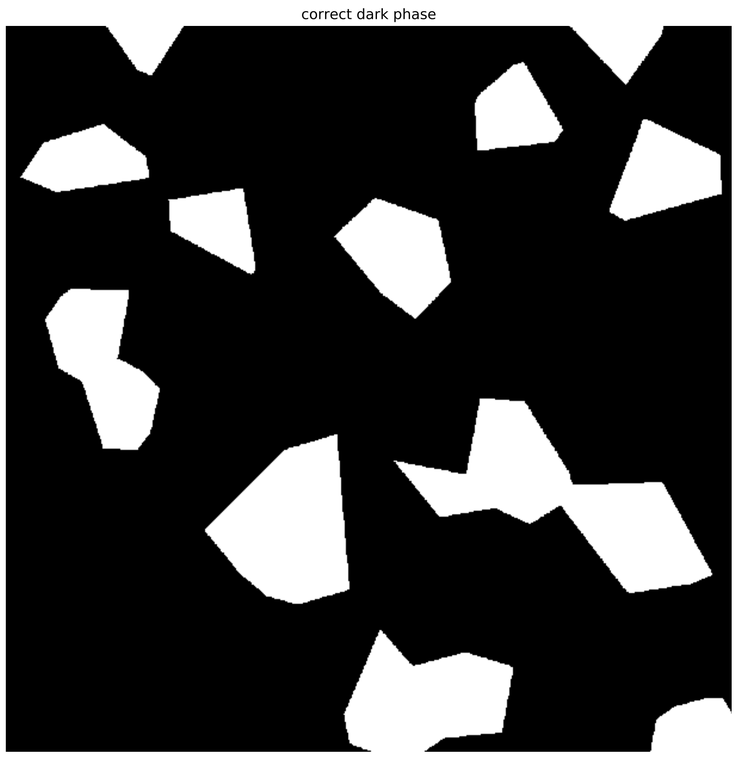


correct line phase

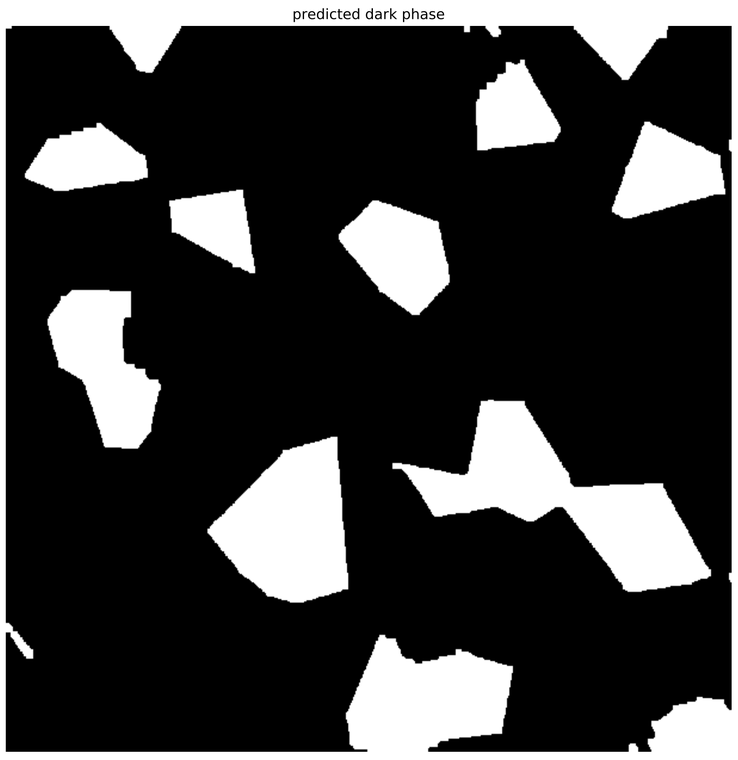


predicted line phase

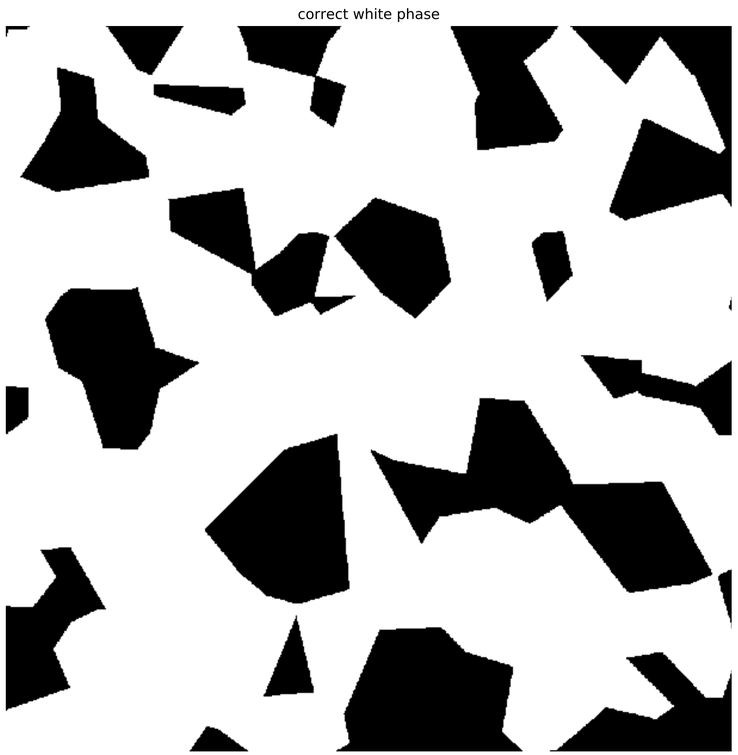
correct dark phase



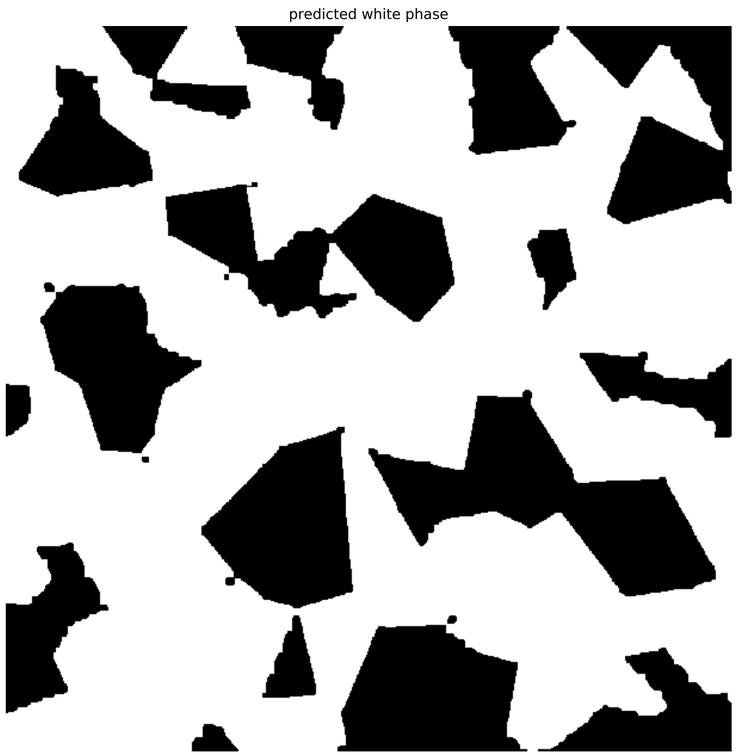
predicted dark phase



correct white phase

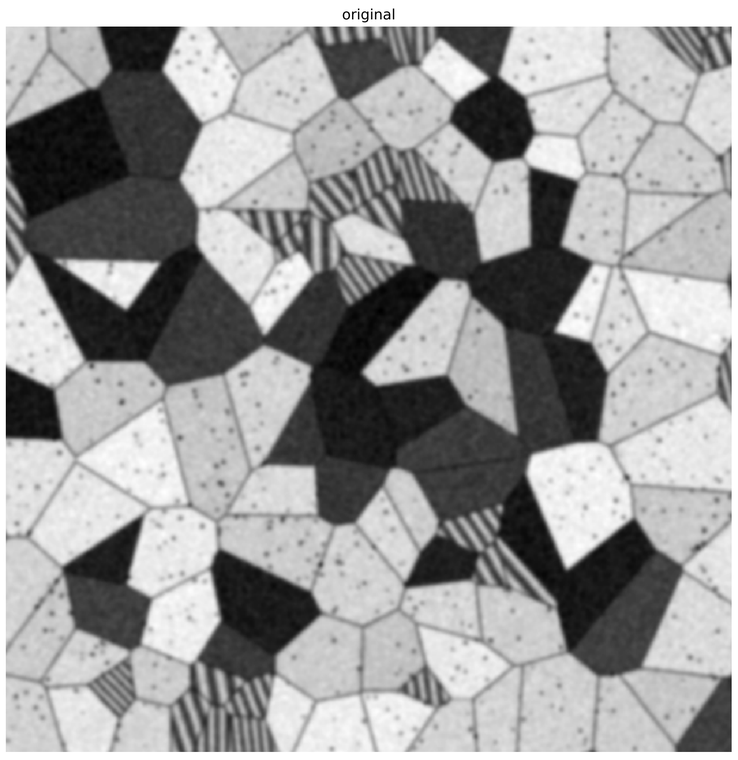


predicted white phase



data/base microstructure/image_138.png

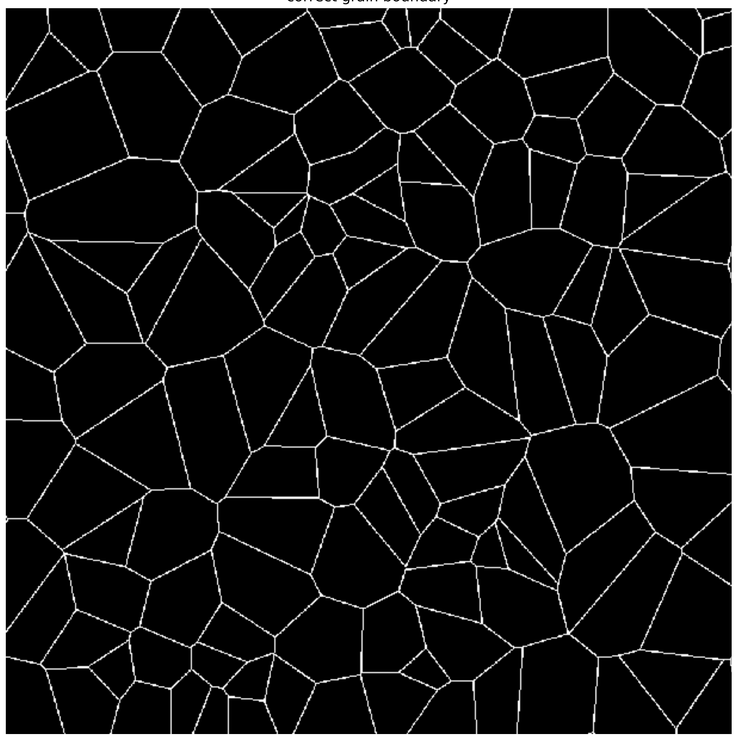
original



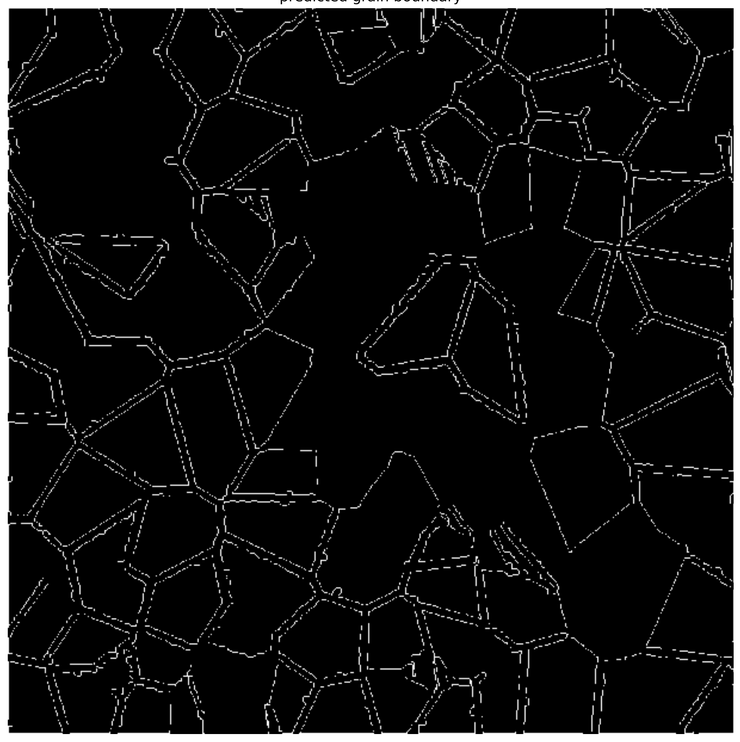
metrics

metric	correct	predicted	error
dark frac	0.304	0.293	1.015%
white frac	0.627	0.591	3.620%
line frac	0.069	0.048	2.122%
ave grain diameter	93.762	92.130	1.740%

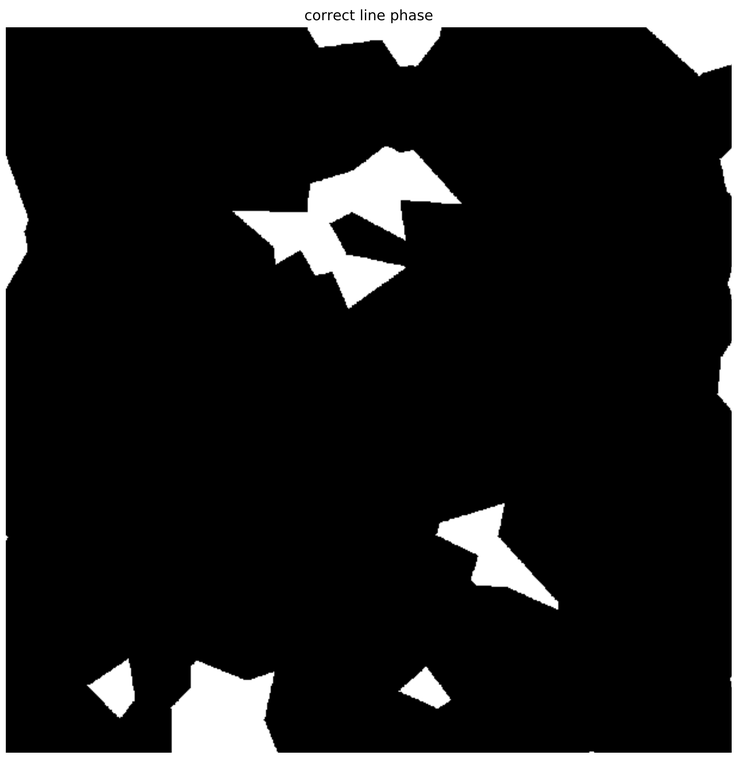
correct grain boundary



predicted grain boundary

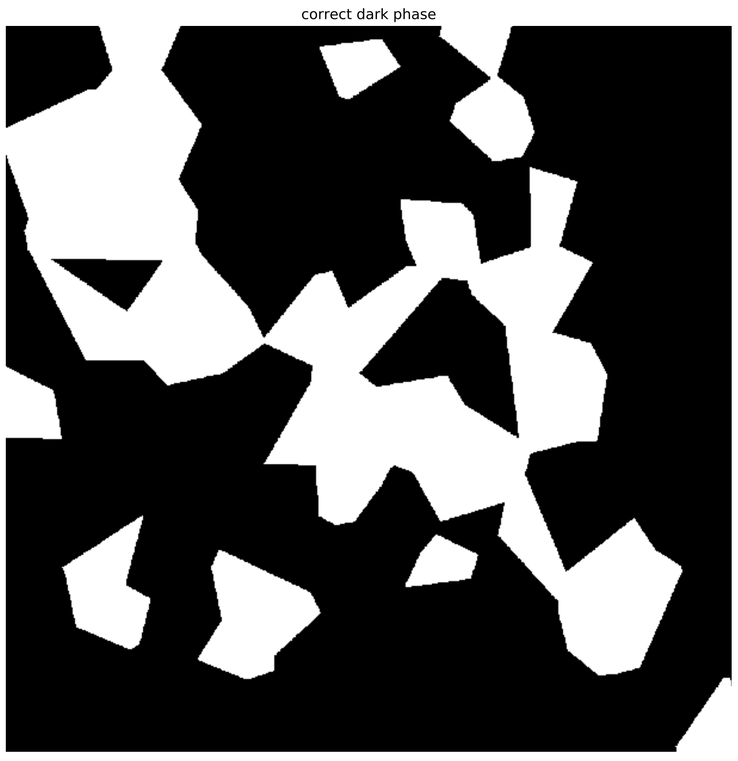


correct line phase

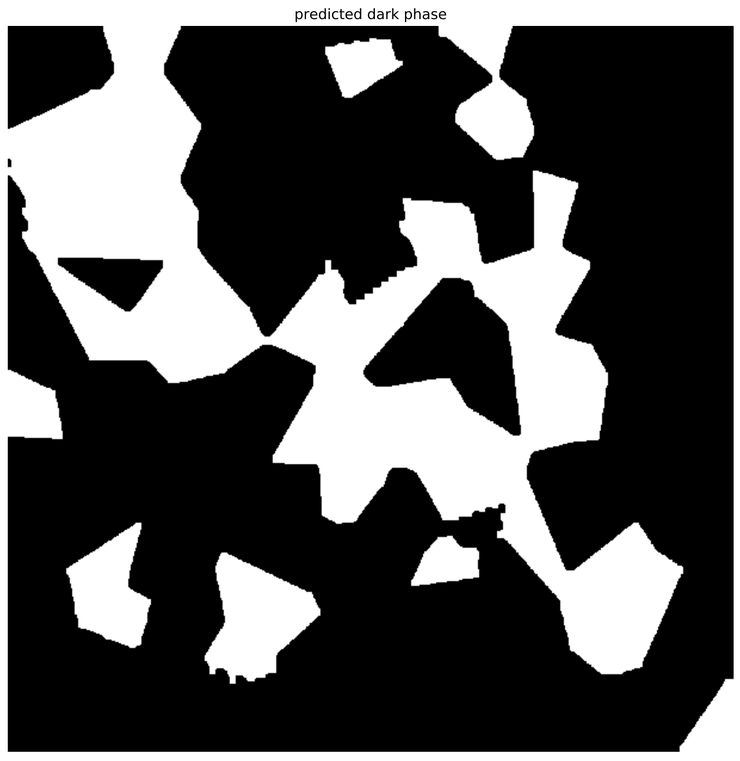


predicted line phase

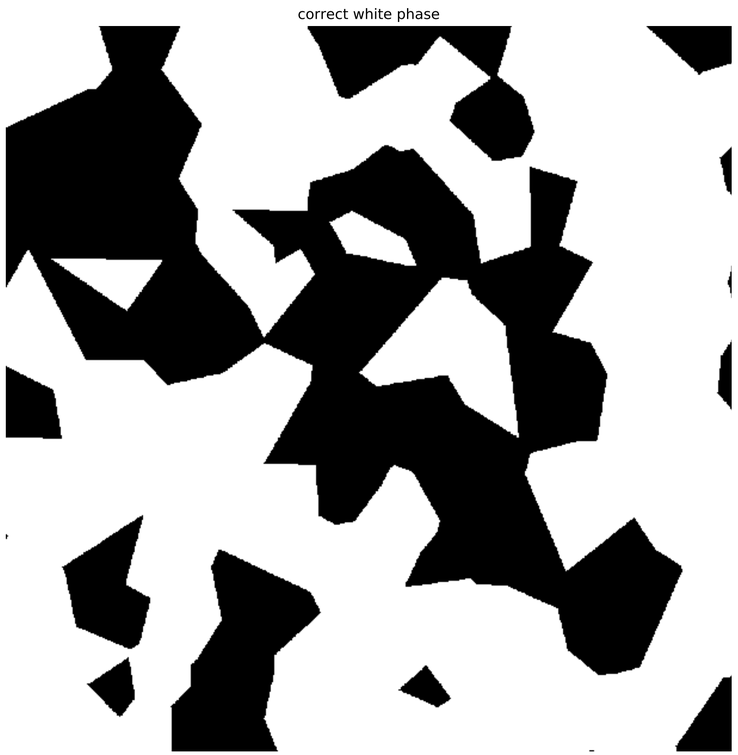
correct dark phase



predicted dark phase



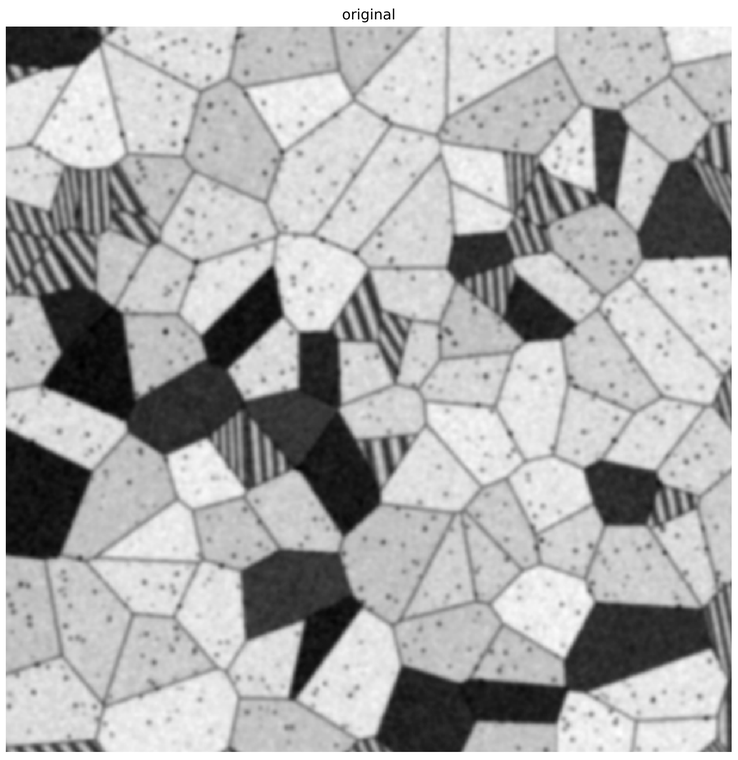
correct white phase



predicted white phase

data/base microstructure/image_139.png

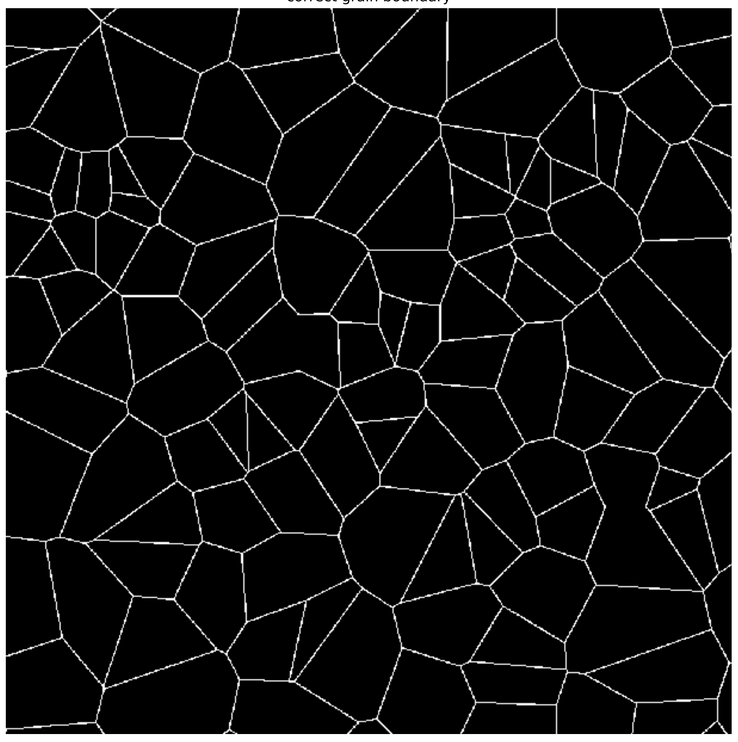
original



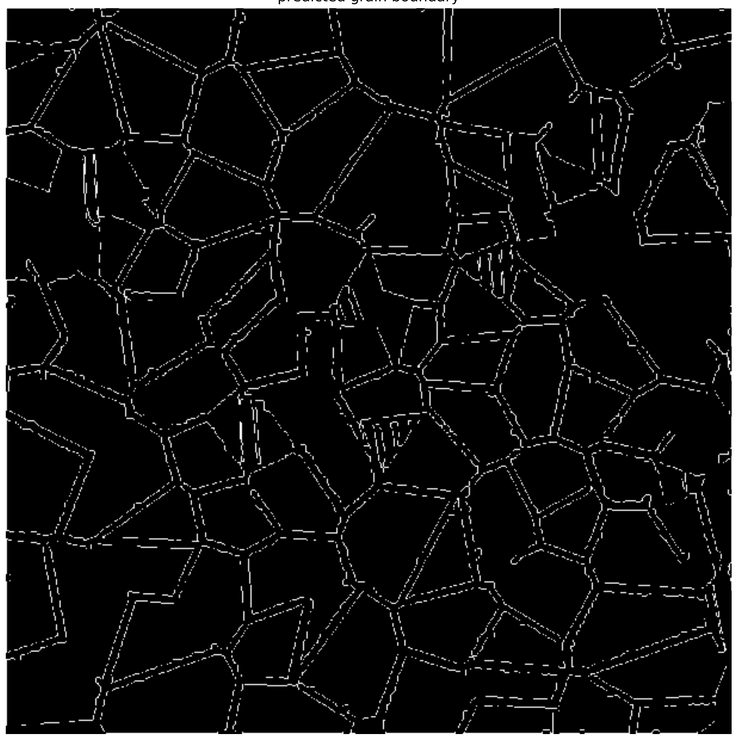
metrics

metric	correct	predicted	error
dark frac	0.166	0.163	0.226%
white frac	0.763	0.730	3.331%
line frac	0.071	0.047	2.414%
ave grain diameter	96.247	97.633	1.440%

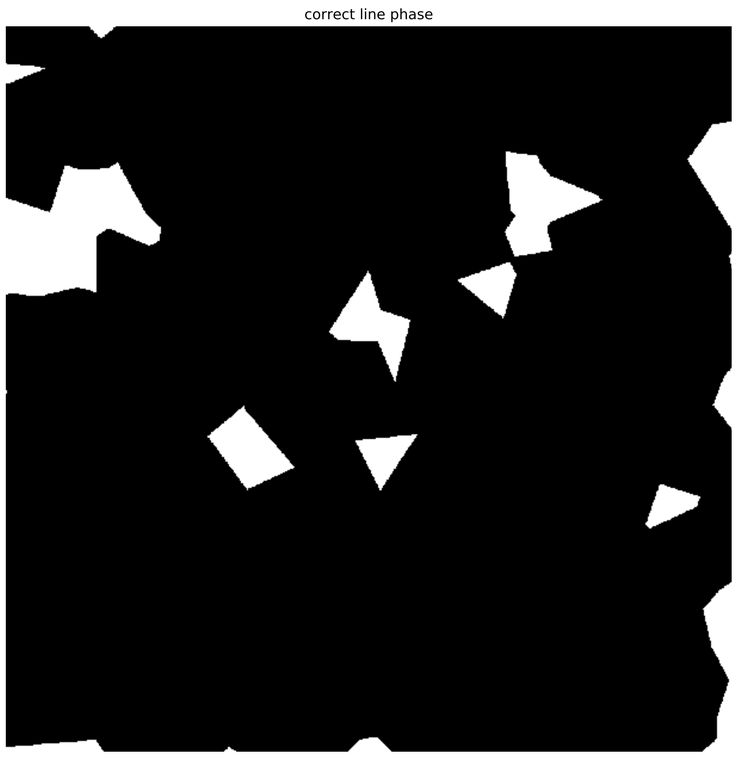
correct grain boundary



predicted grain boundary



correct line phase



predicted line phase

correct dark phase

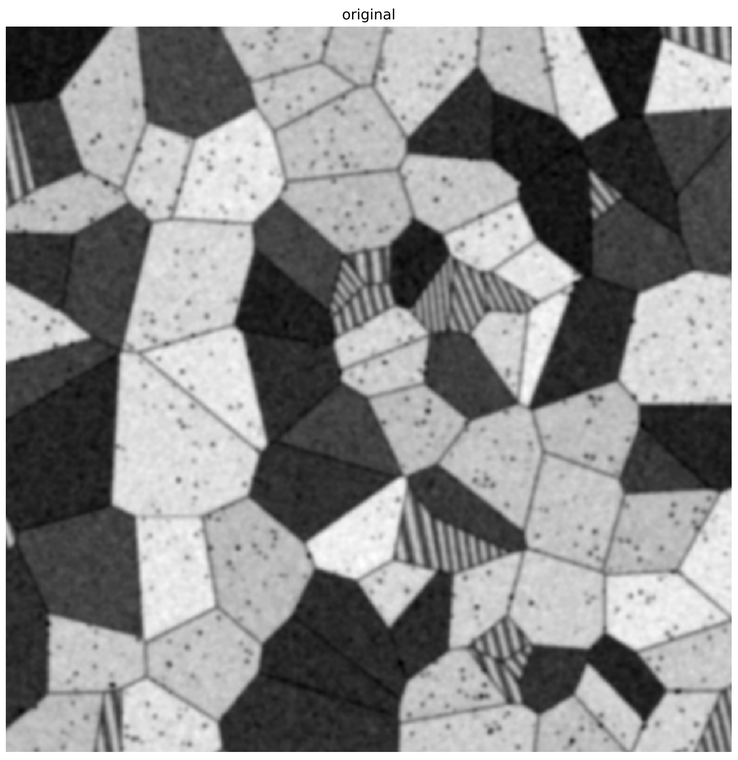
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_14.png

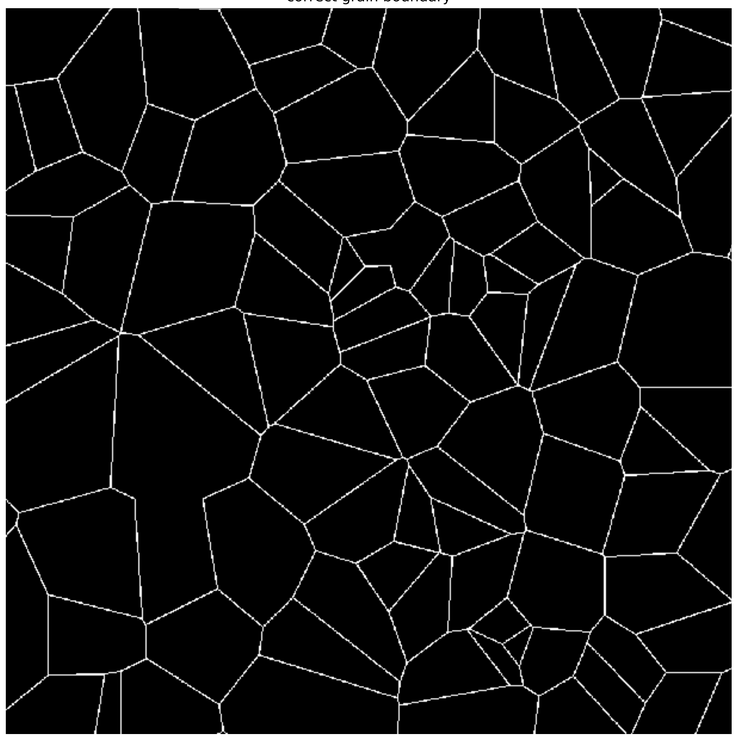
original



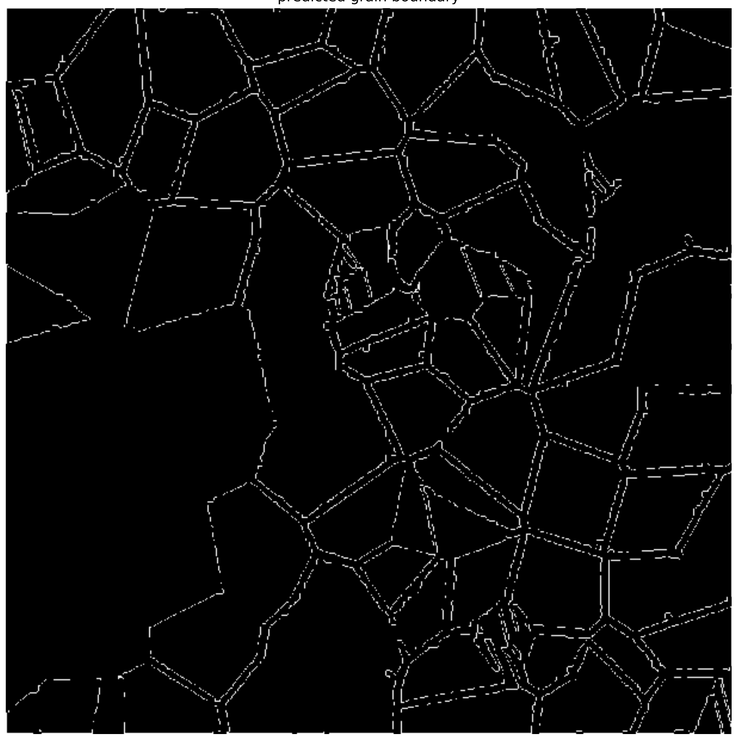
metrics

metric	correct	predicted	error
dark frac	0.388	0.381	0.704%
white frac	0.564	0.521	4.342%
line frac	0.047	0.031	1.645%
ave grain diameter	109.480	99.520	9.097%

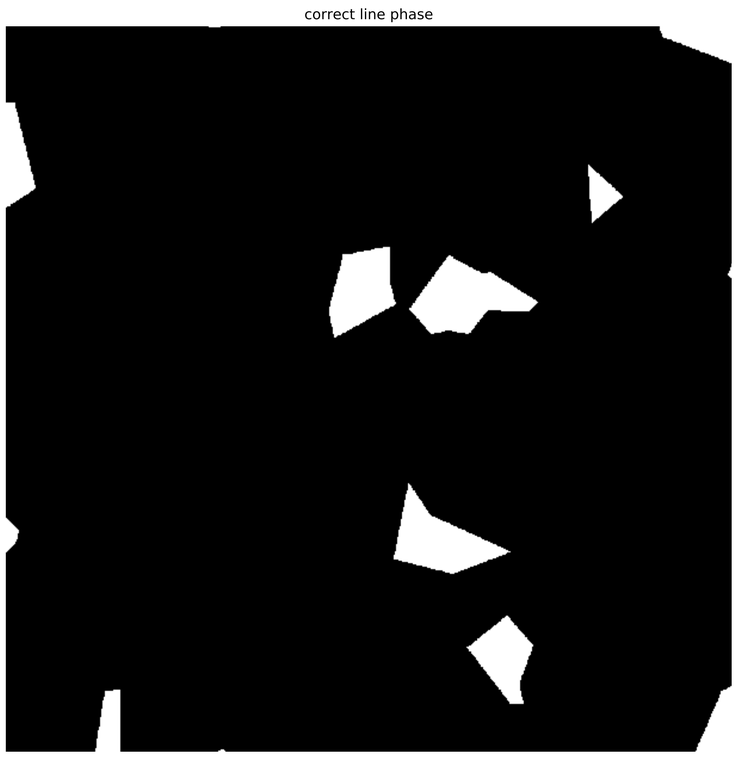
correct grain boundary



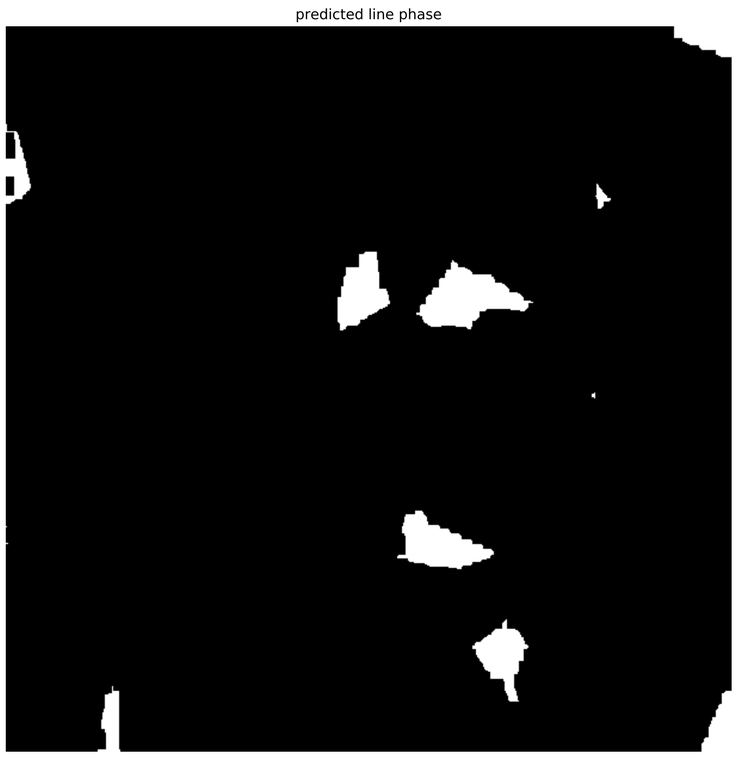
predicted grain boundary



correct line phase



predicted line phase



correct dark phase

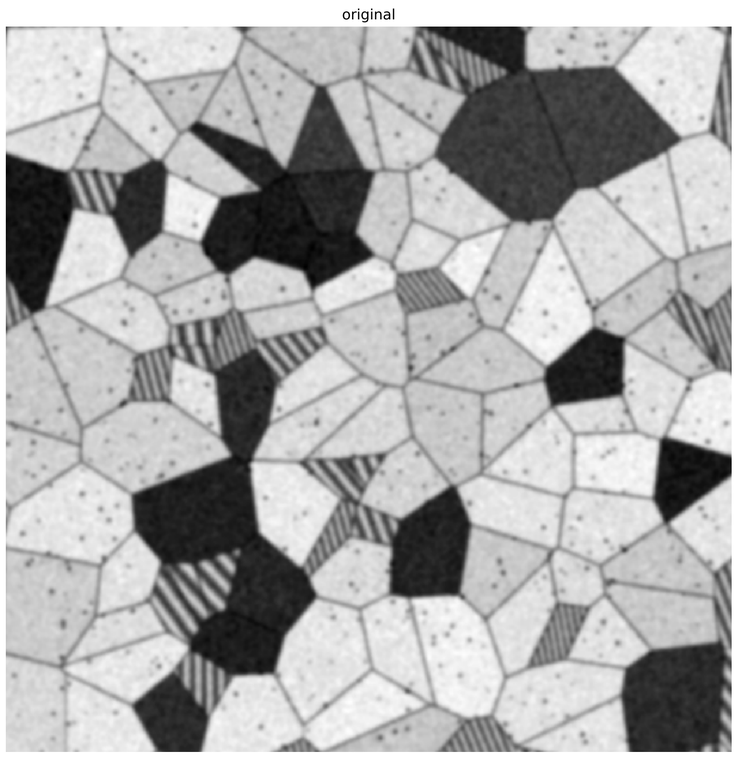
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_140.png

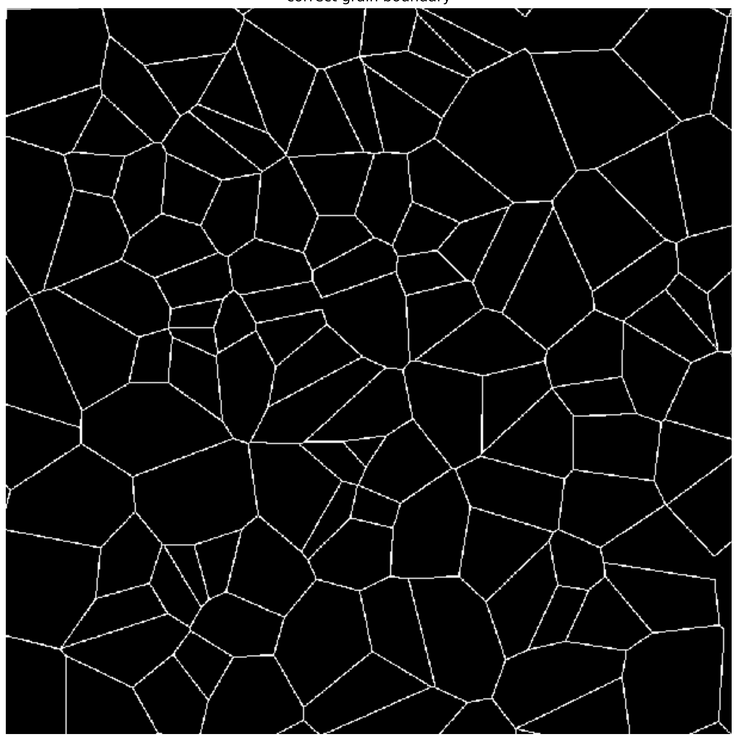
original



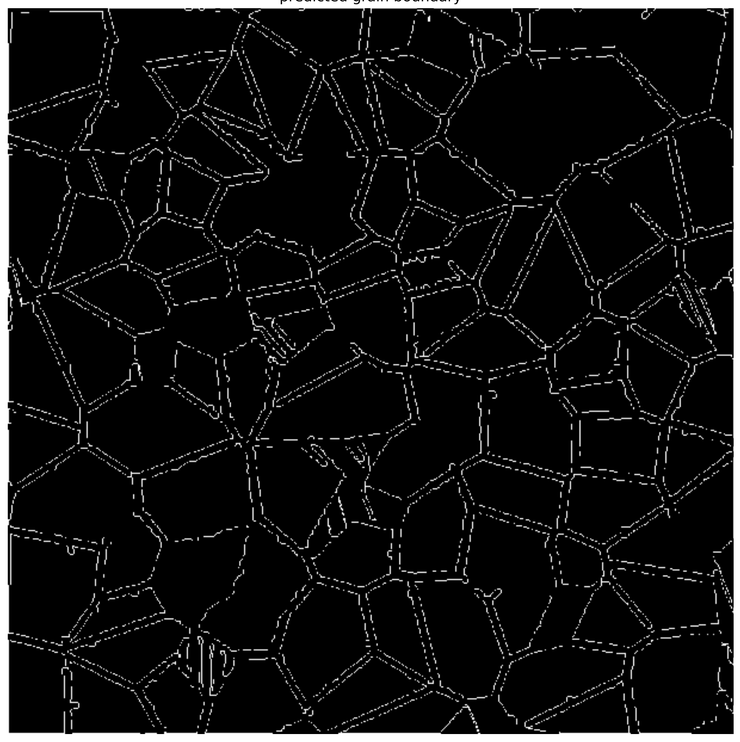
metrics

metric	correct	predicted	error
dark frac	0.208	0.205	0.275%
white frac	0.717	0.682	3.465%
line frac	0.076	0.048	2.796%
ave grain diameter	95.750	90.916	5.049%

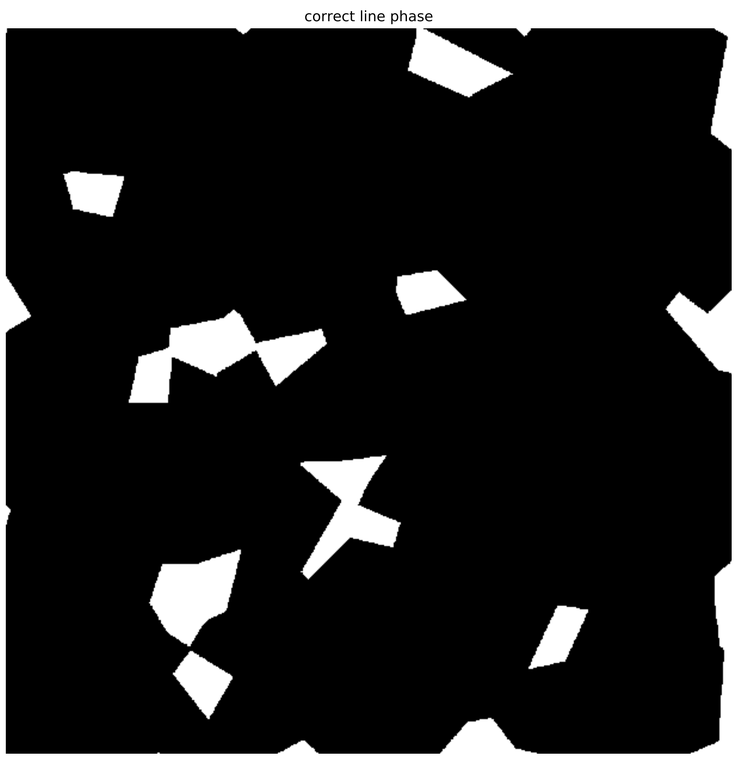
correct grain boundary



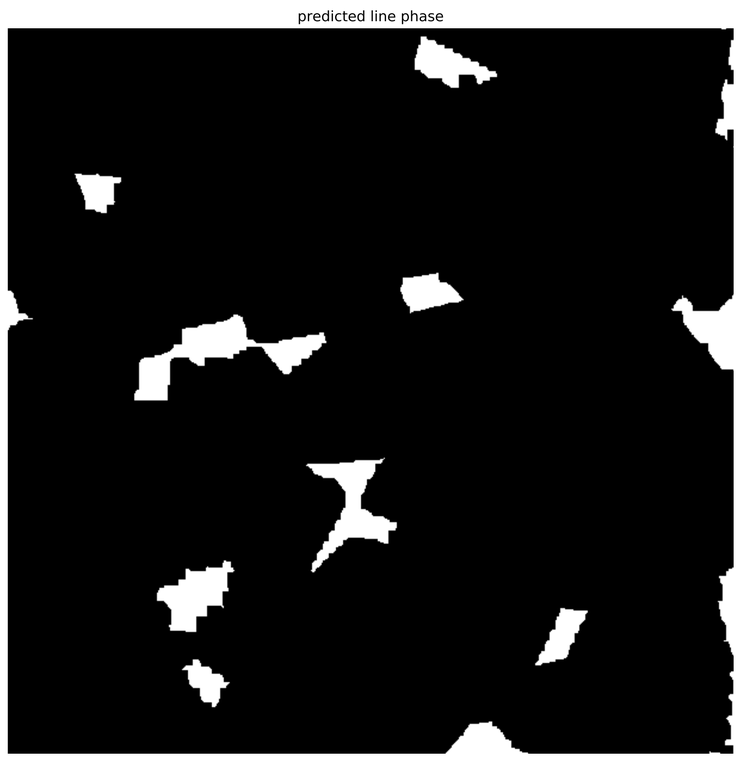
predicted grain boundary



correct line phase



predicted line phase



correct dark phase

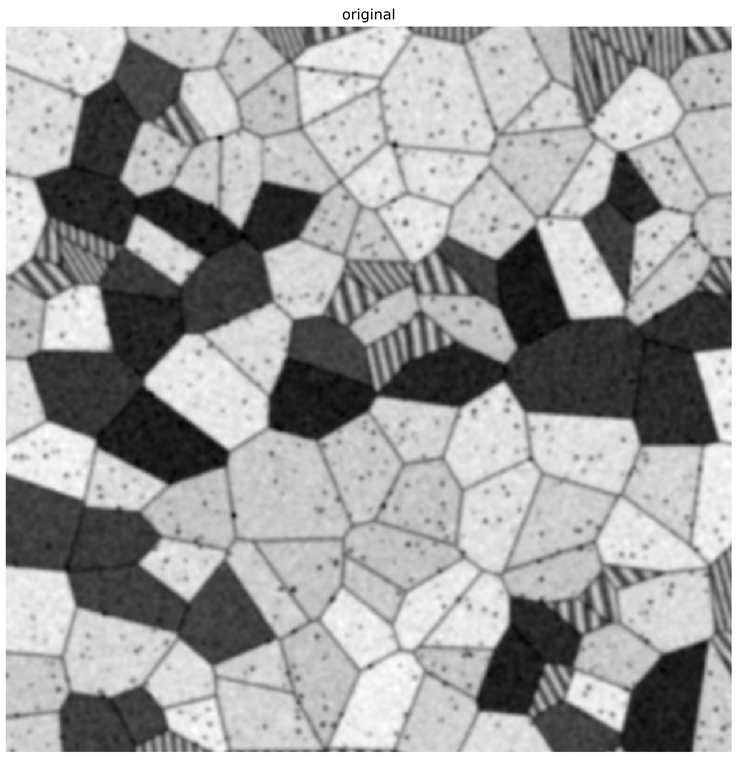
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_141.png

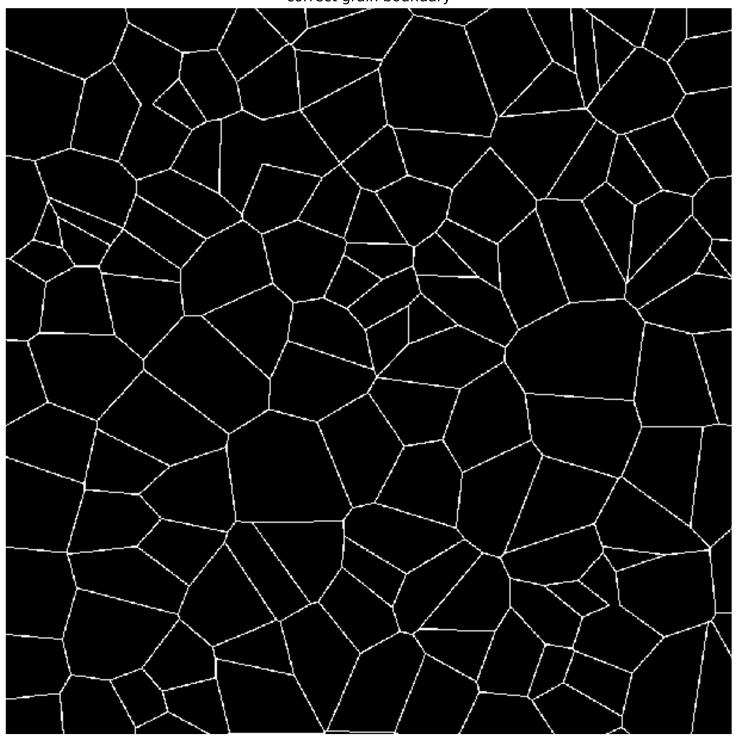
original



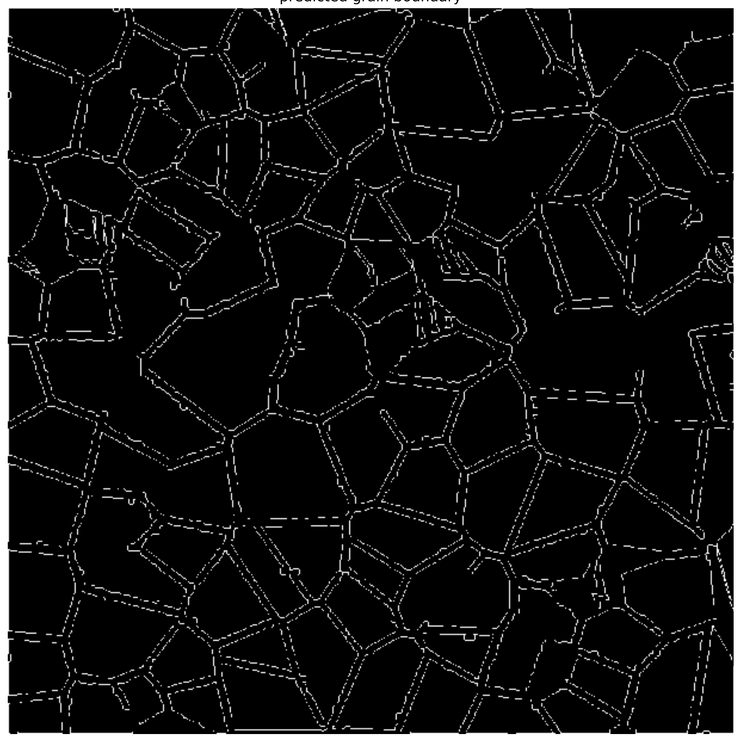
metrics

metric	correct	predicted	error
dark frac	0.261	0.255	0.663%
white frac	0.674	0.627	4.718%
line frac	0.065	0.046	1.929%
ave grain diameter	91.622	82.044	10.454%

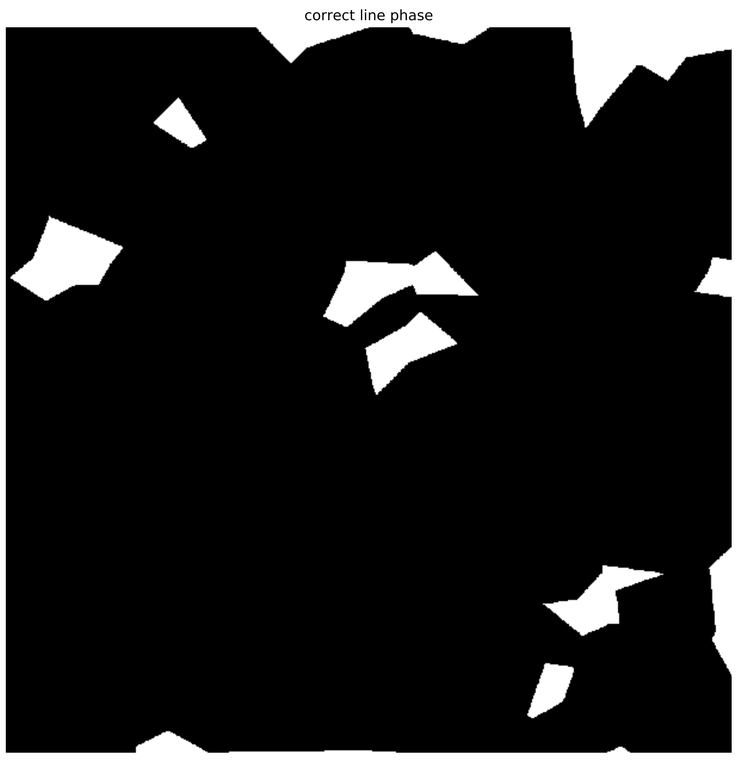
correct grain boundary



predicted grain boundary

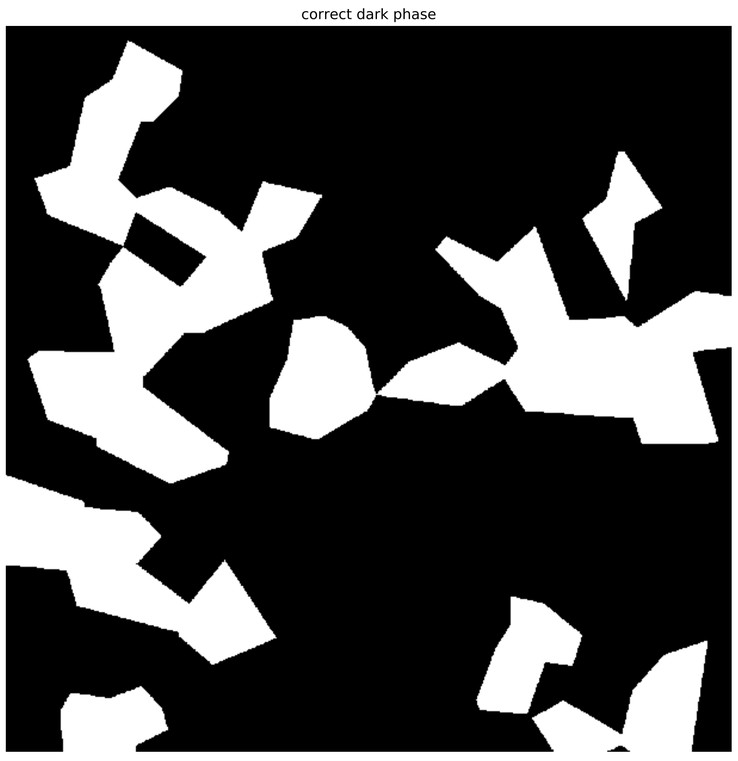


correct line phase



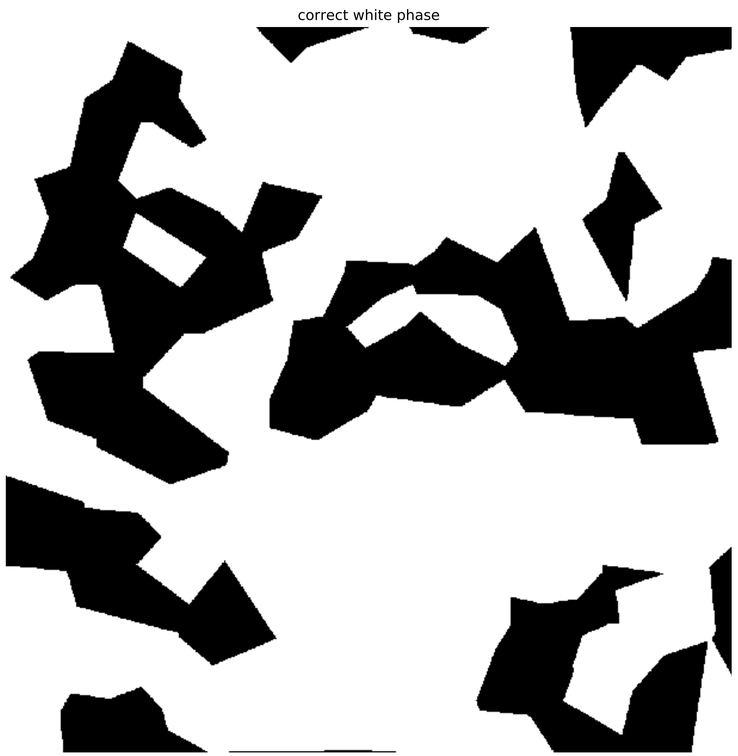
predicted line phase

correct dark phase

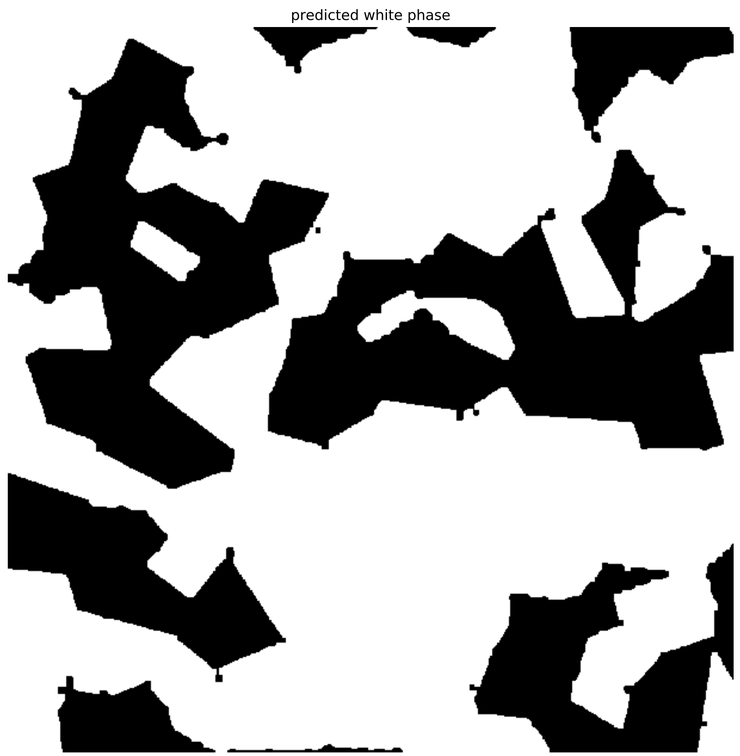


predicted dark phase

correct white phase

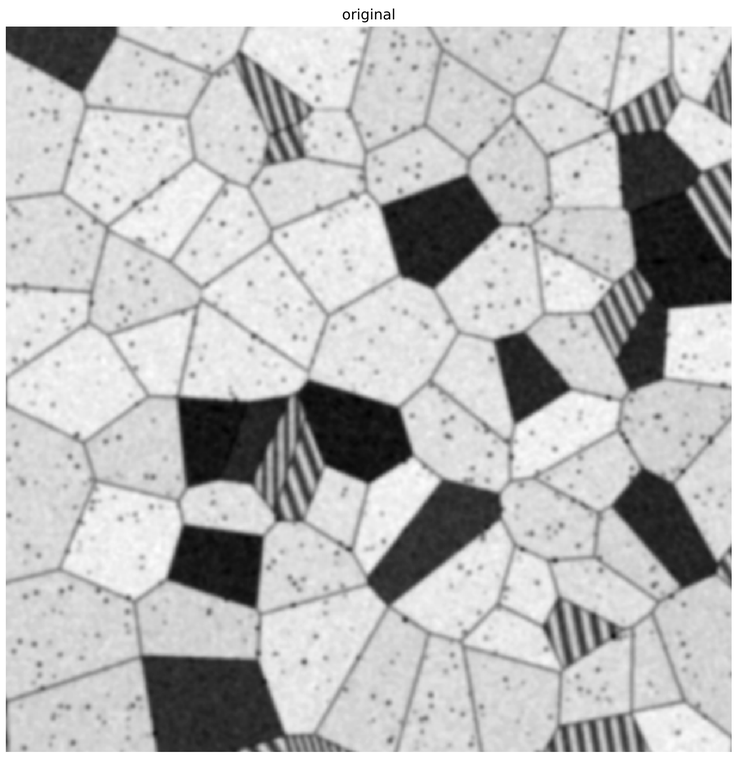


predicted white phase



data/base microstructure/image_142.png

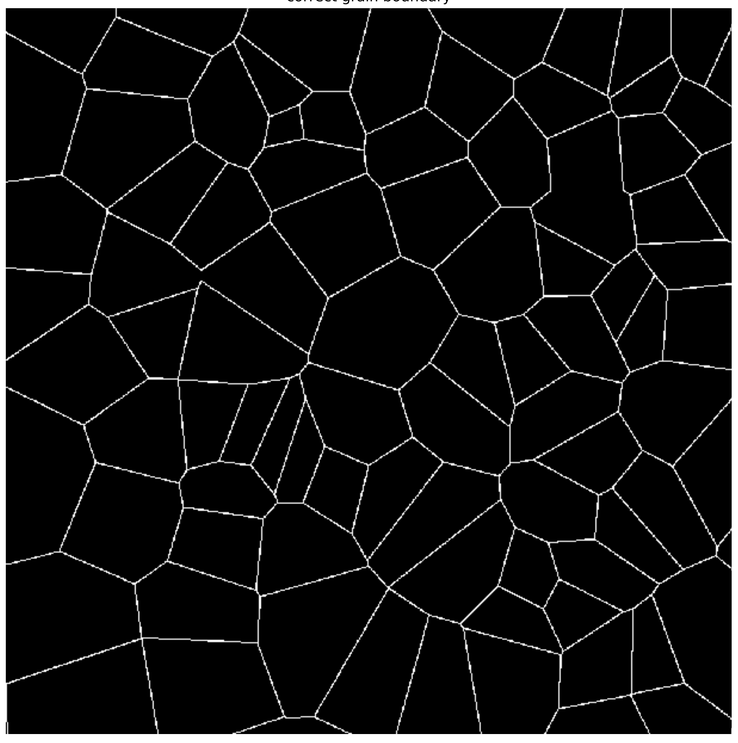
original



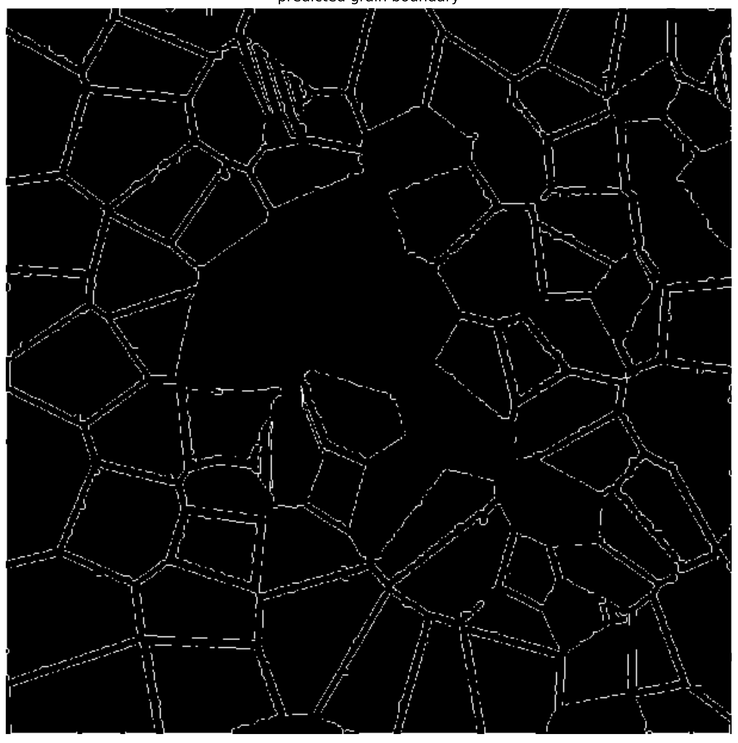
metrics

metric	correct	predicted	error
dark frac	0.146	0.140	0.533%
white frac	0.805	0.780	2.555%
line frac	0.049	0.033	1.574%
ave grain diameter	115.139	92.525	19.640%

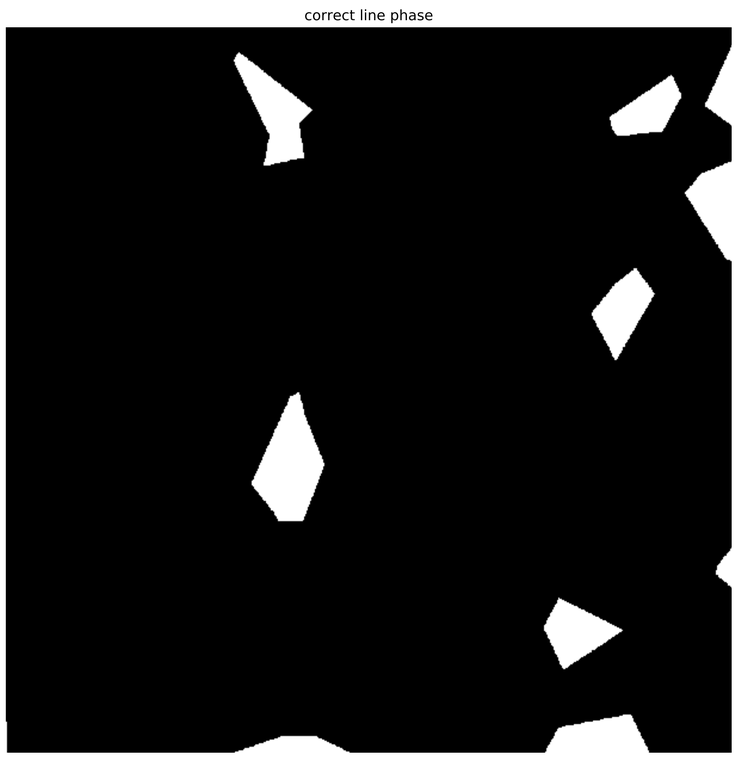
correct grain boundary



predicted grain boundary



correct line phase



predicted line phase

correct dark phase

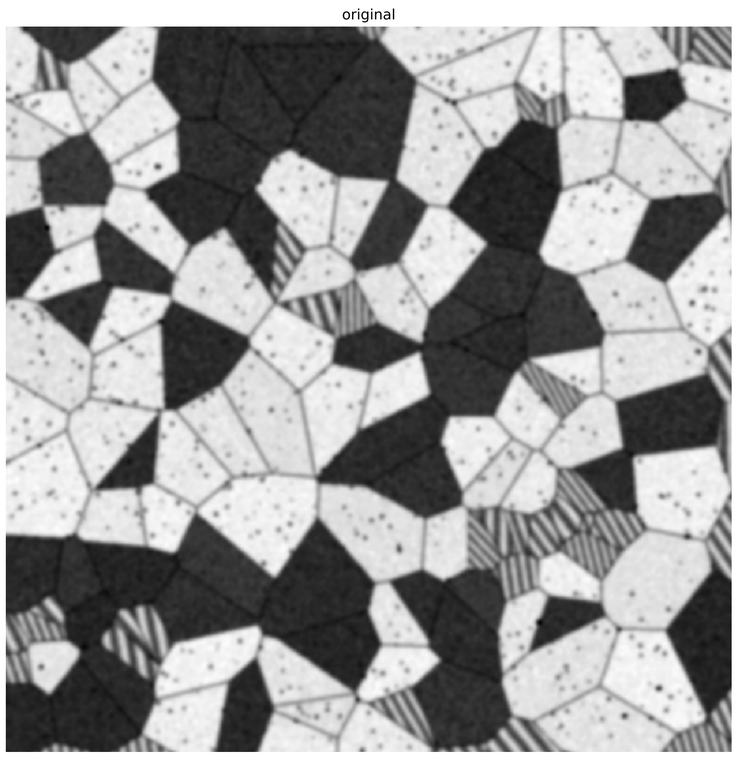
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_143.png

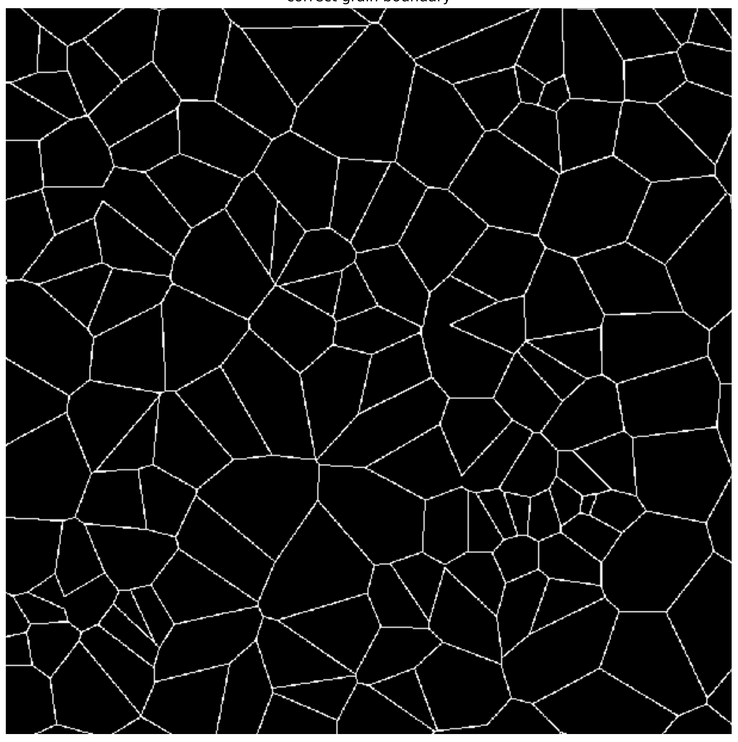
original



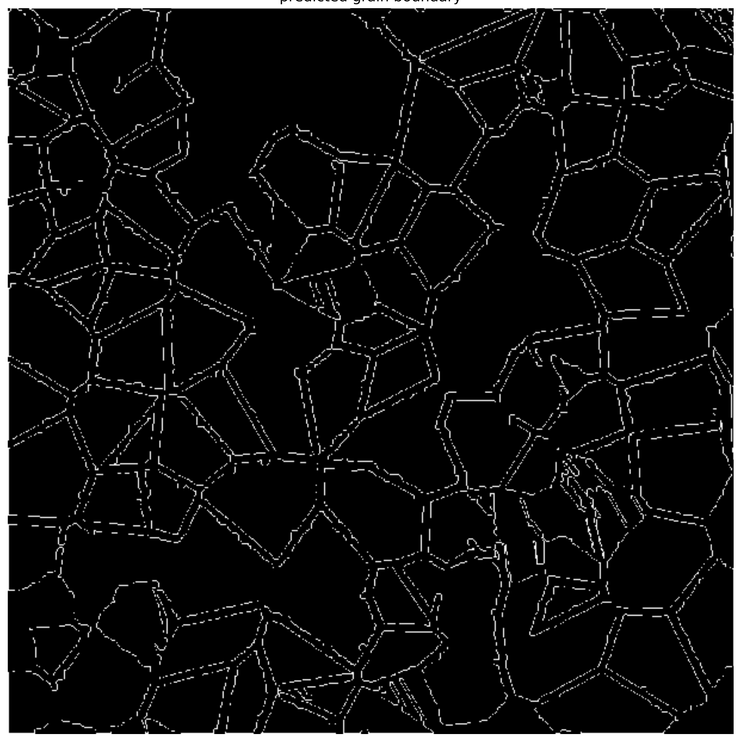
metrics

metric	correct	predicted	error
dark frac	0.370	0.359	1.110%
white frac	0.553	0.502	5.053%
line frac	0.077	0.049	2.846%
ave grain diameter	86.327	79.710	7.665%

correct grain boundary



predicted grain boundary



correct line phase

predicted line phase

correct dark phase

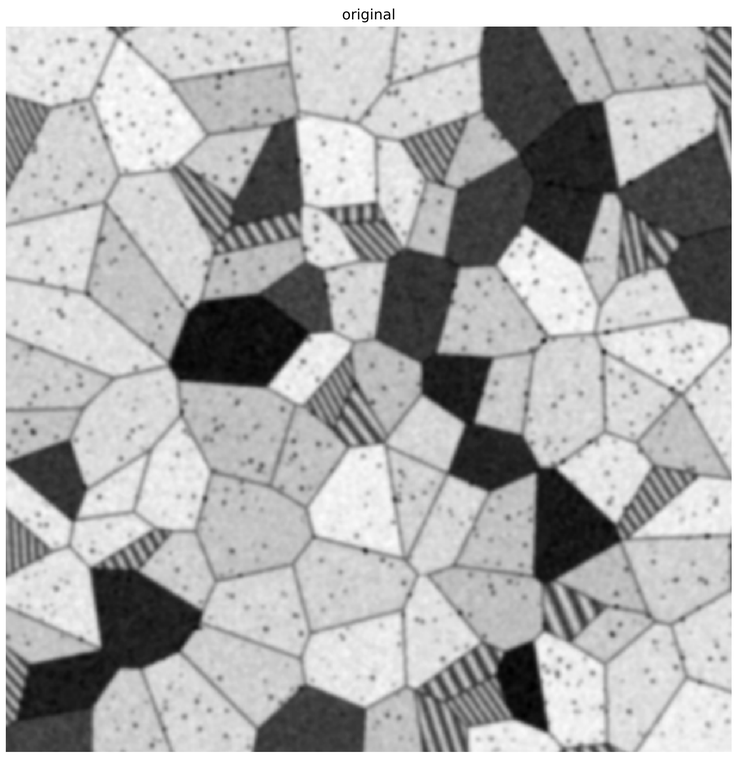
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_144.png

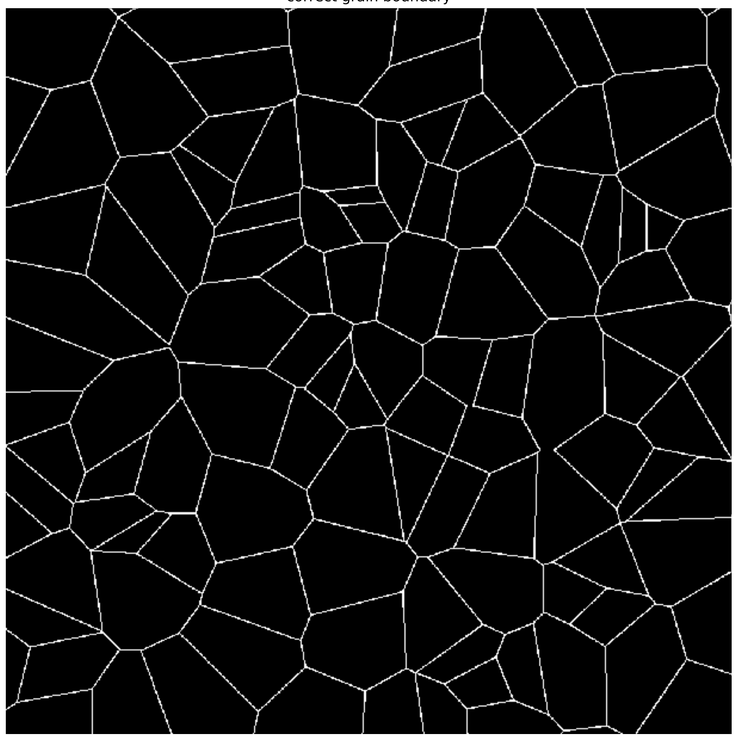
original



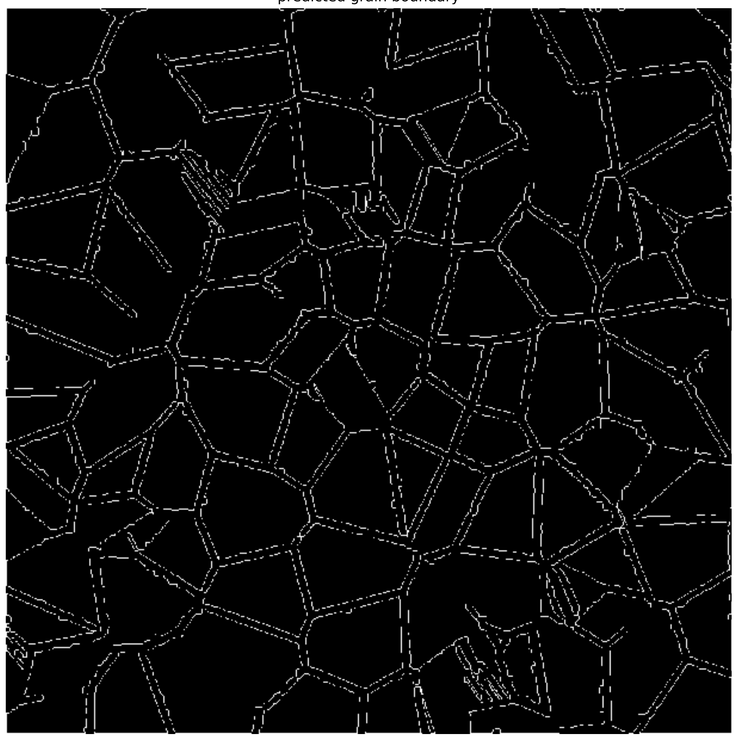
metrics

metric	correct	predicted	error
dark frac	0.190	0.186	0.473%
white frac	0.740	0.703	3.703%
line frac	0.069	0.049	2.020%
ave grain diameter	102.841	95.565	7.074%

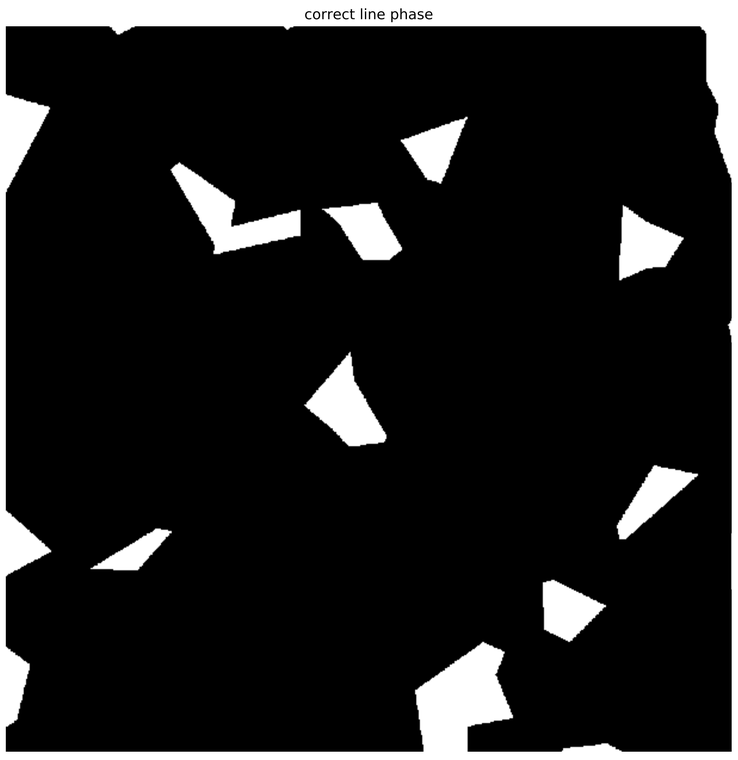
correct grain boundary



predicted grain boundary

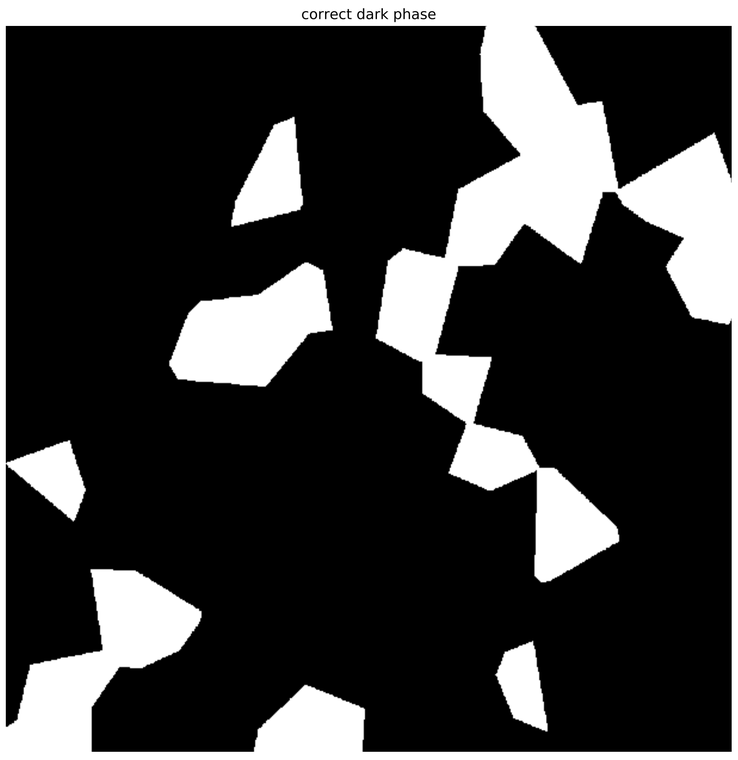


correct line phase

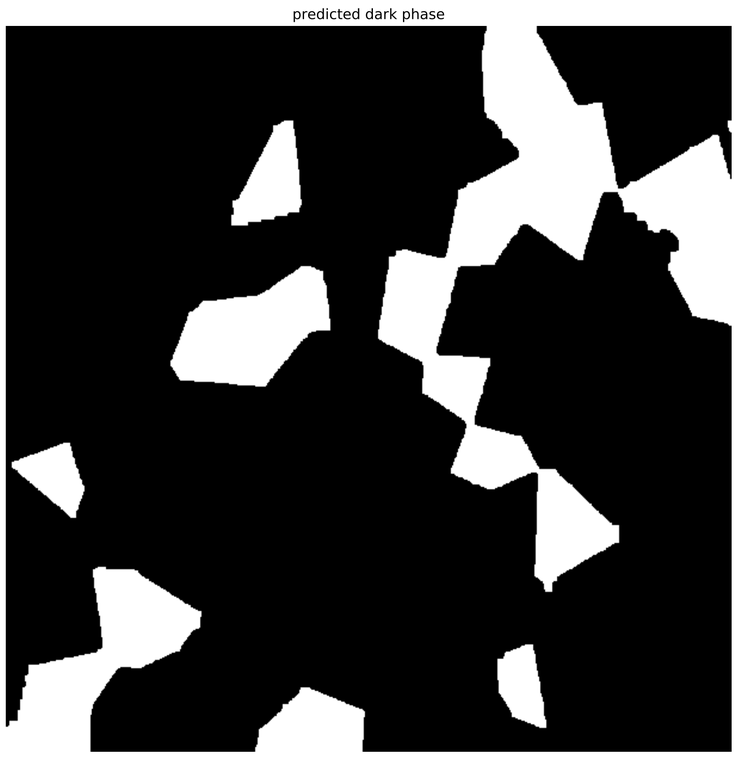


predicted line phase

correct dark phase



predicted dark phase

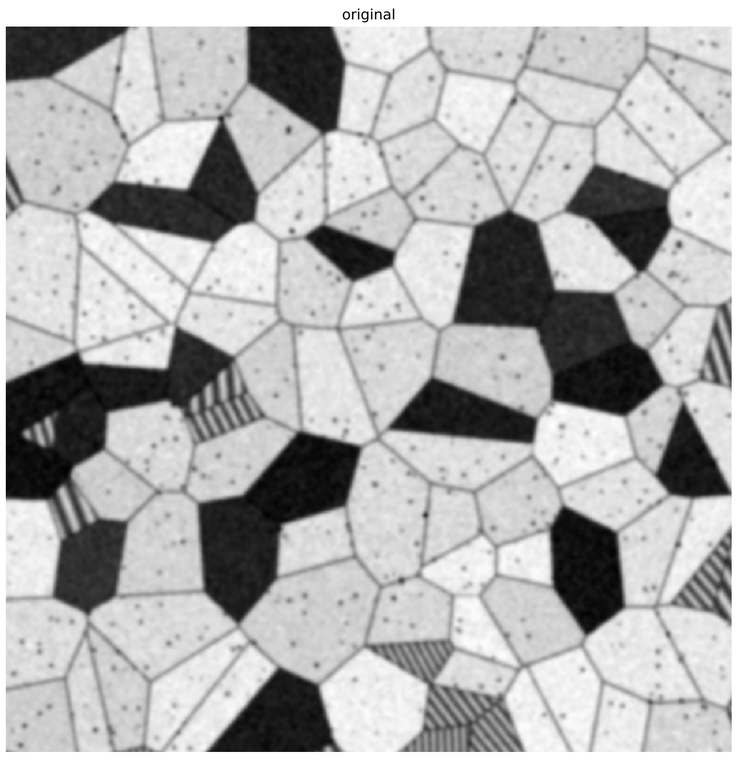


correct white phase

predicted white phase

data/base microstructure/image_145.png

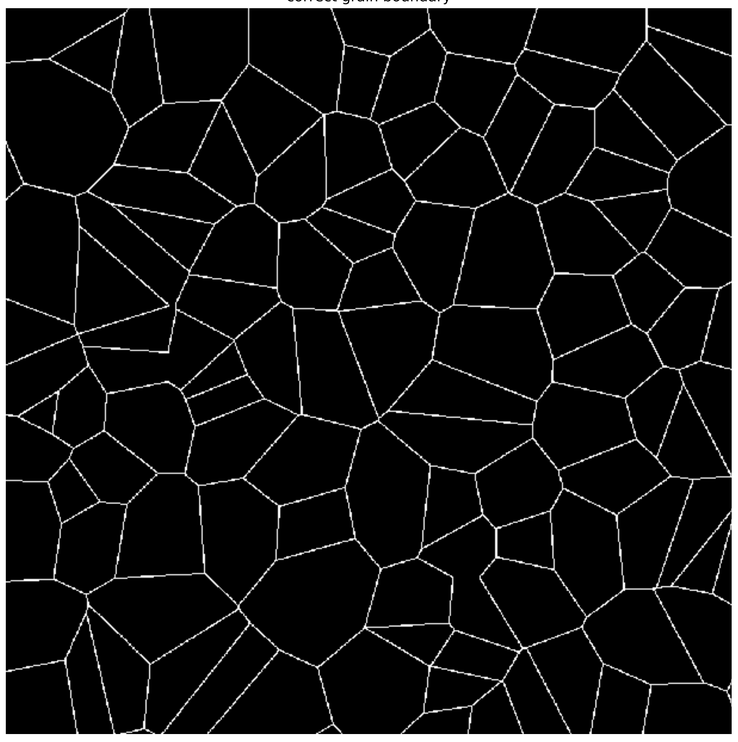
original



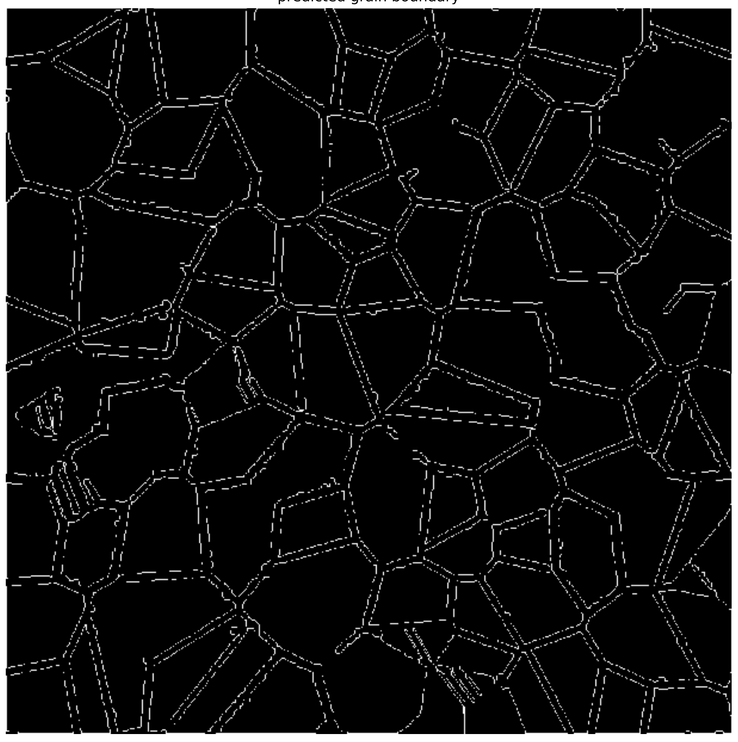
metrics

metric	correct	predicted	error
dark frac	0.201	0.192	0.943%
white frac	0.763	0.730	3.263%
line frac	0.036	0.024	1.161%
ave grain diameter	102.223	91.728	10.267%

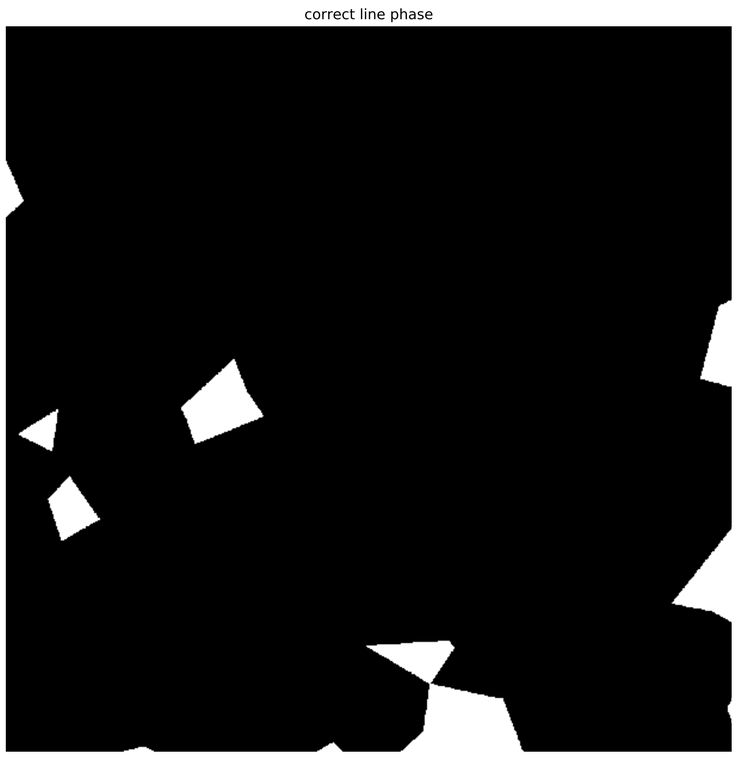
correct grain boundary



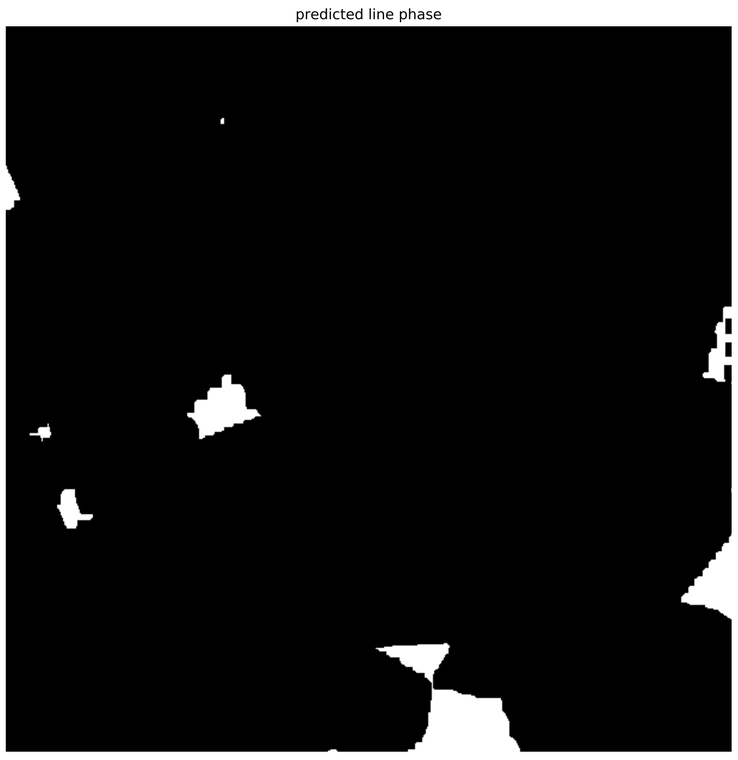
predicted grain boundary



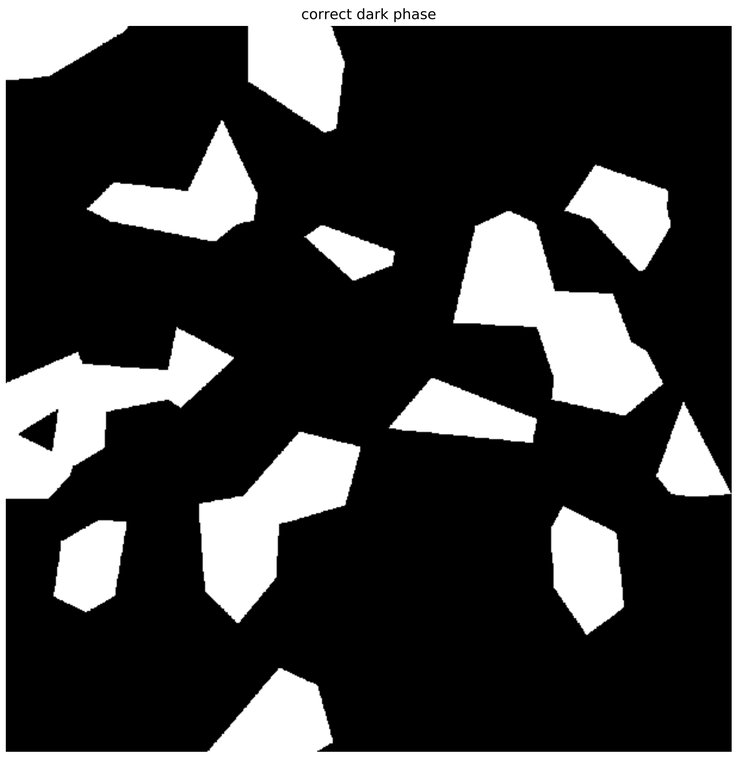
correct line phase



predicted line phase

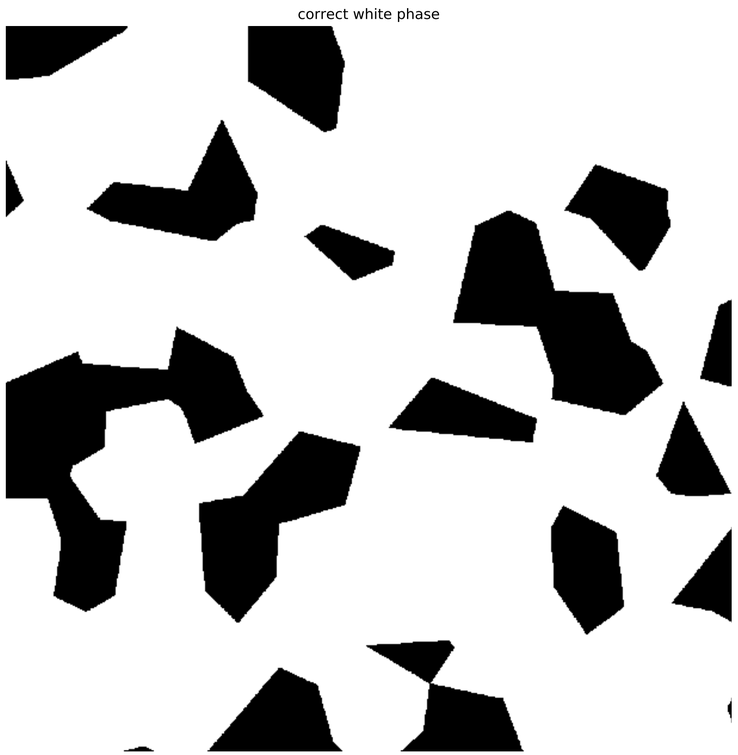


correct dark phase

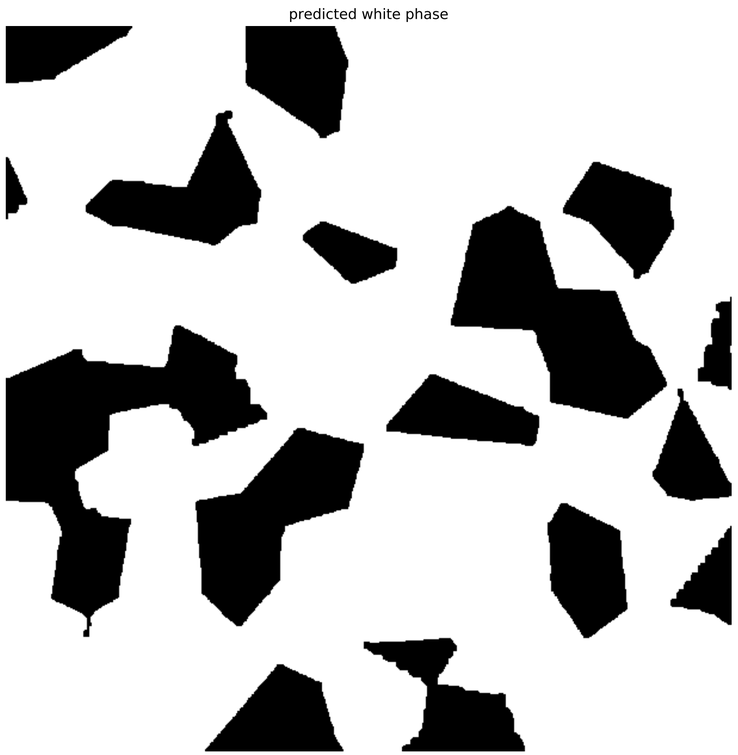


predicted dark phase

correct white phase

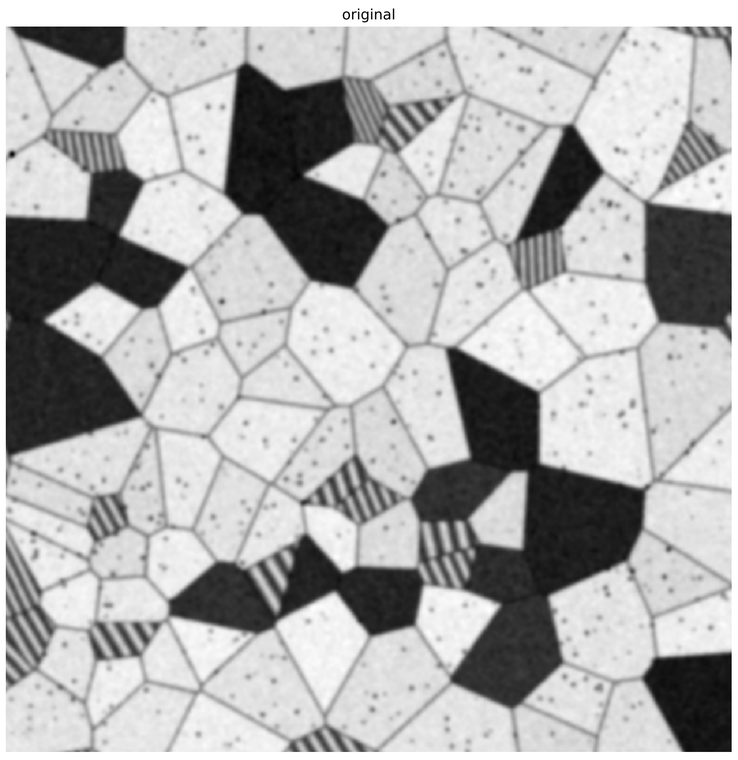


predicted white phase



data/base microstructure/image_146.png

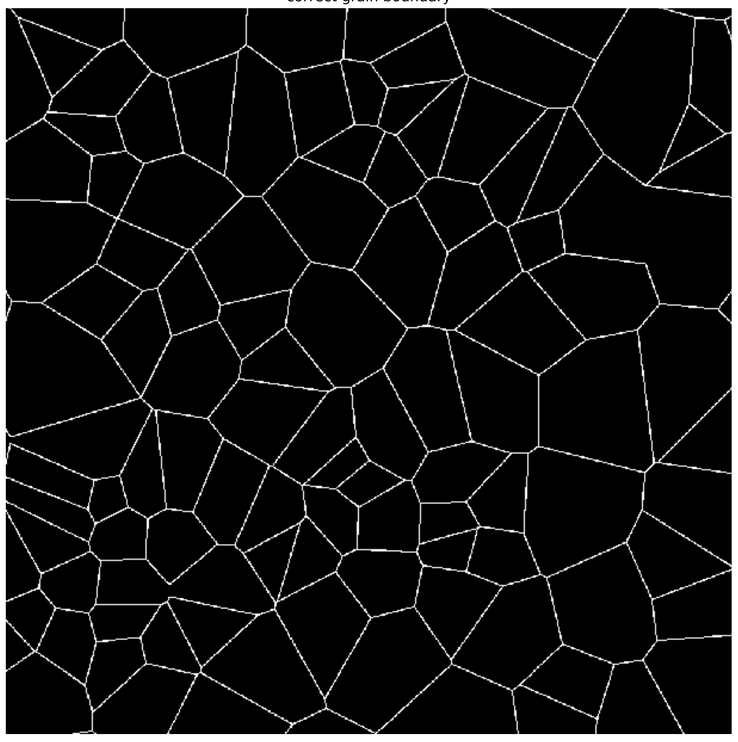
original



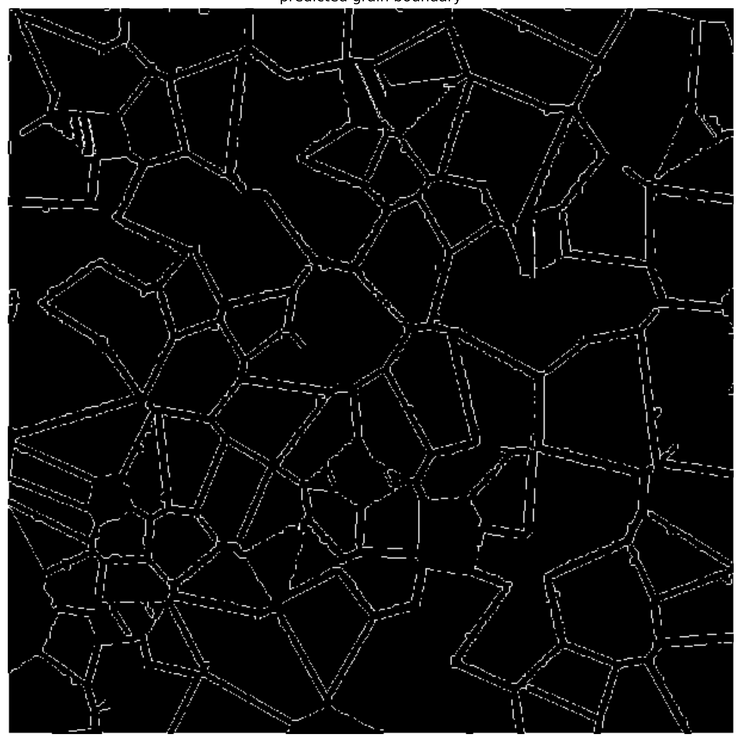
metrics

metric	correct	predicted	error
dark frac	0.221	0.213	0.807%
white frac	0.724	0.690	3.380%
line frac	0.055	0.038	1.792%
ave grain diameter	102.357	90.368	11.713%

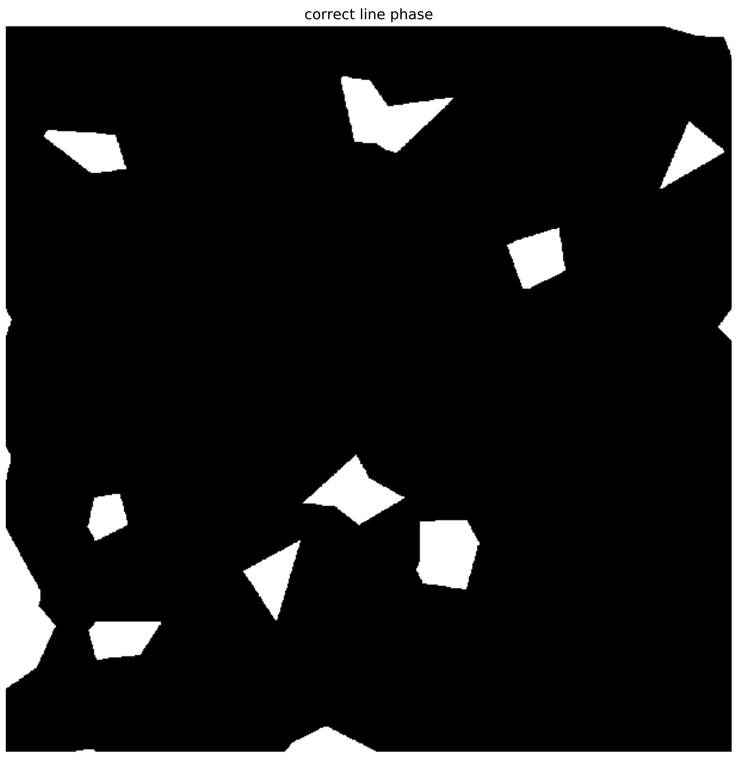
correct grain boundary



predicted grain boundary



correct line phase



predicted line phase

correct dark phase

predicted dark phase

correct white phase

predicted white phase

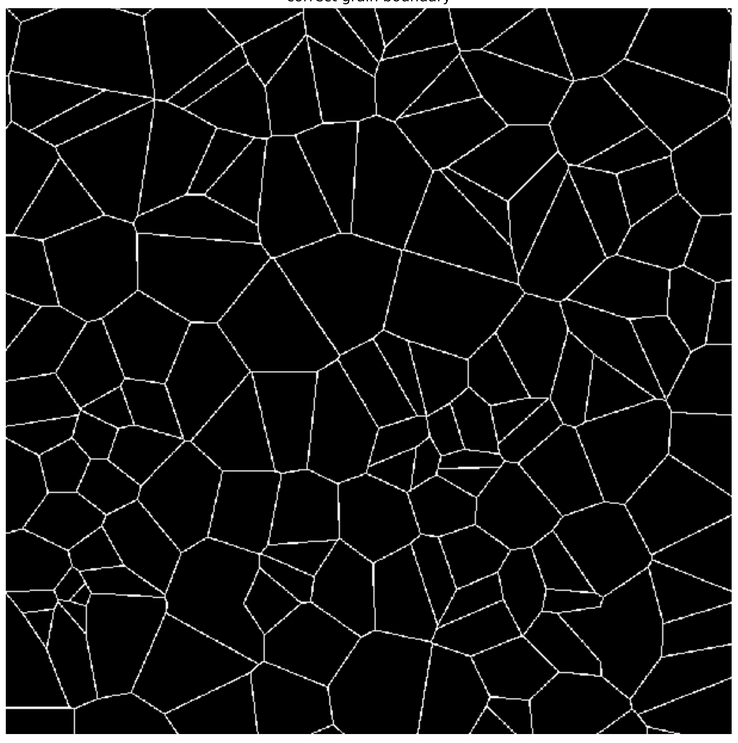
data/base microstructure/image_147.png

original

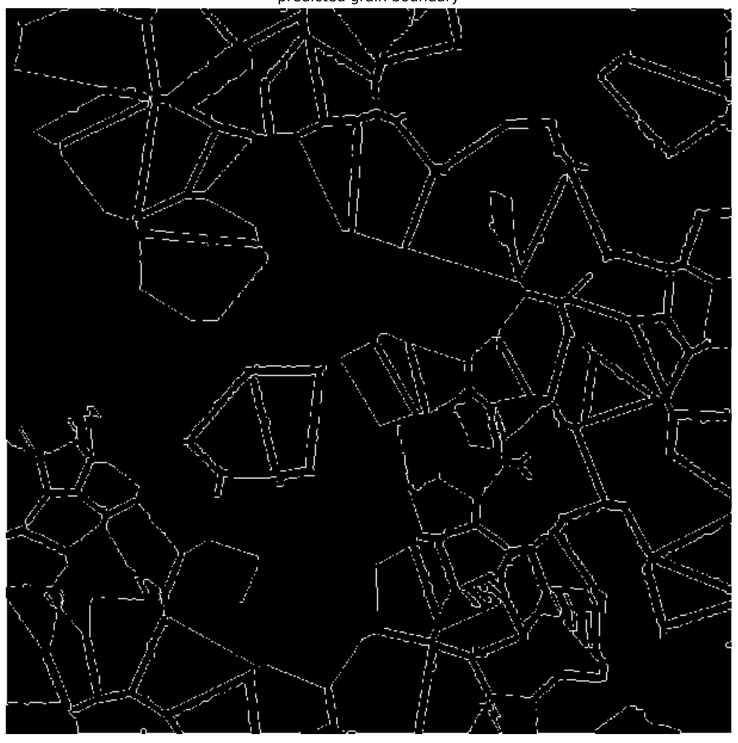
metrics

metric	correct	predicted	error
dark frac	0.463	0.453	0.984%
white frac	0.461	0.416	4.502%
line frac	0.076	0.045	3.032%
ave grain diameter	87.648	82.278	6.126%

correct grain boundary



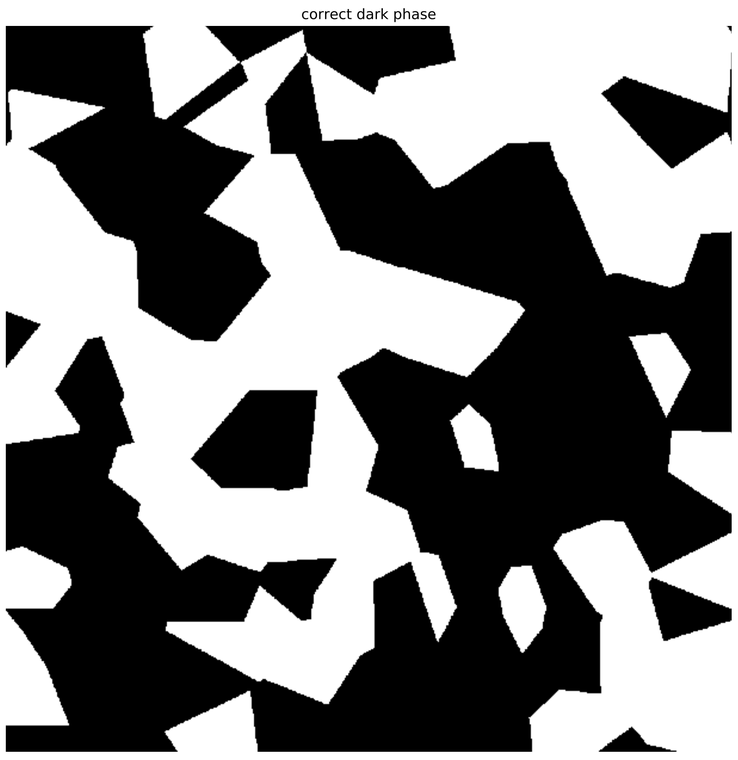
predicted grain boundary



correct line phase

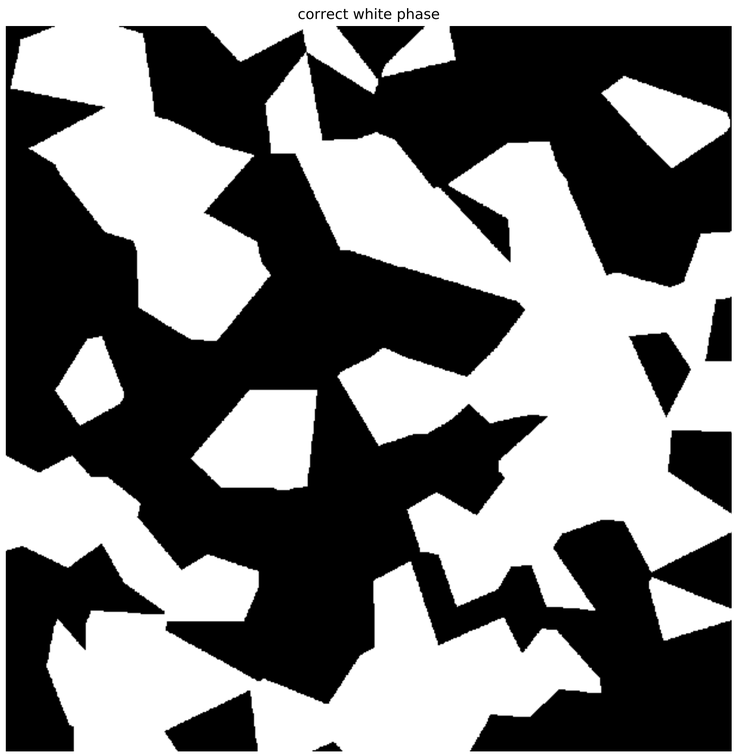
predicted line phase

correct dark phase



predicted dark phase

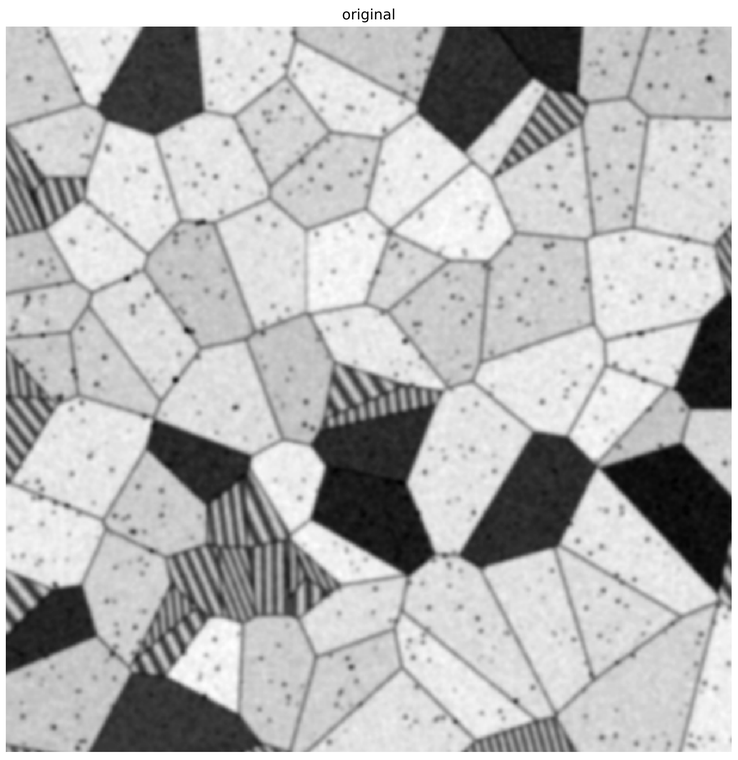
correct white phase



predicted white phase

data/base microstructure/image_148.png

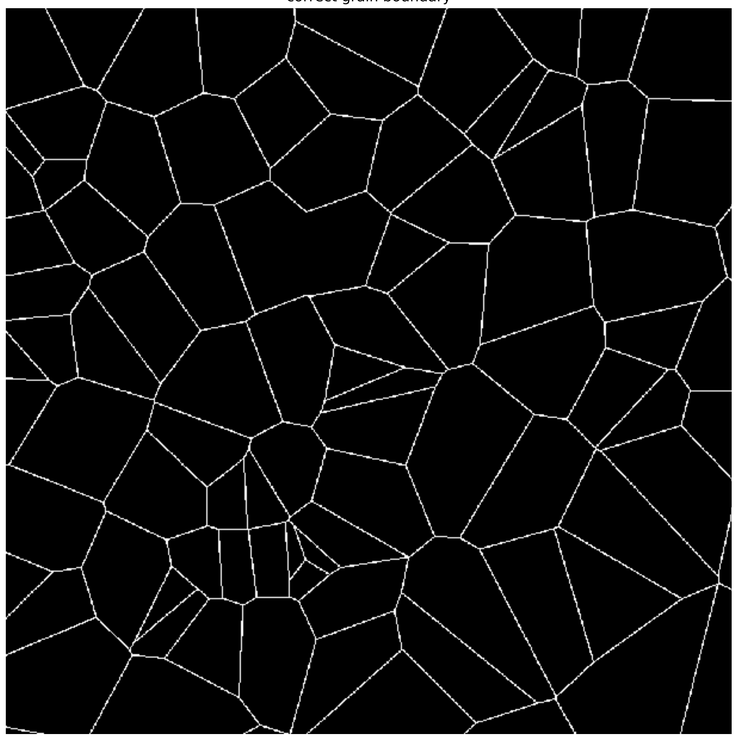
original



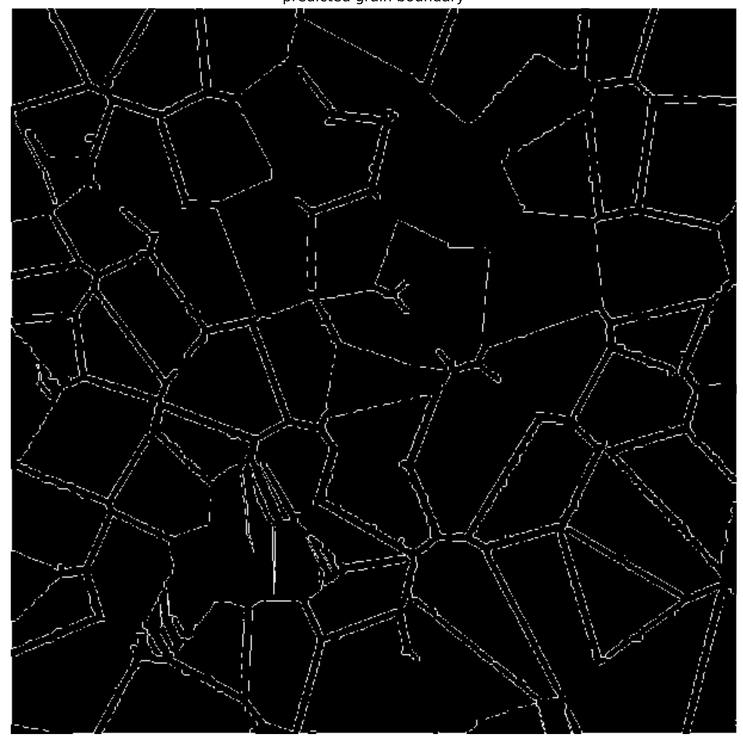
metrics

metric	correct	predicted	error
dark frac	0.144	0.140	0.373%
white frac	0.783	0.755	2.813%
line frac	0.072	0.057	1.518%
ave grain diameter	111.643	103.832	6.996%

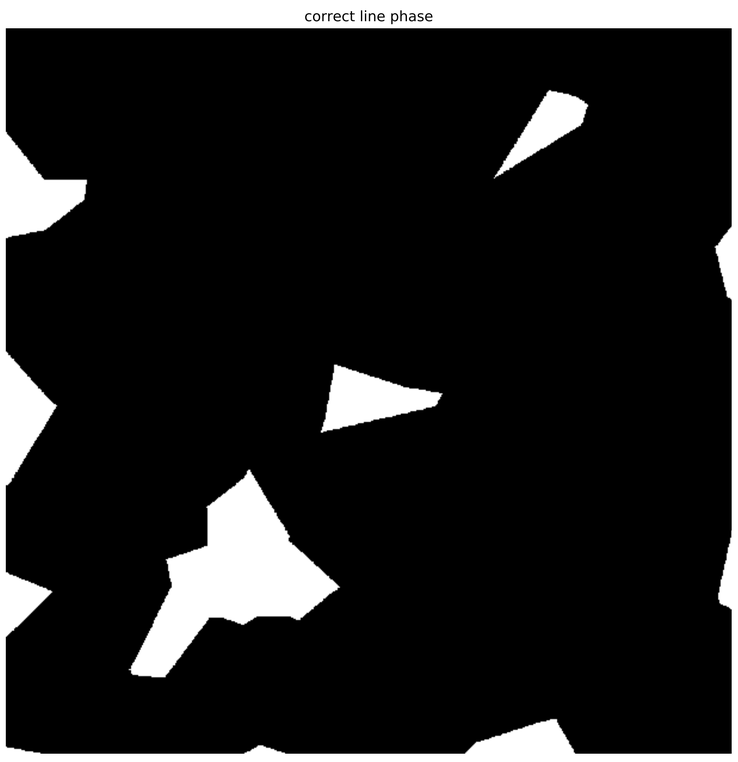
correct grain boundary



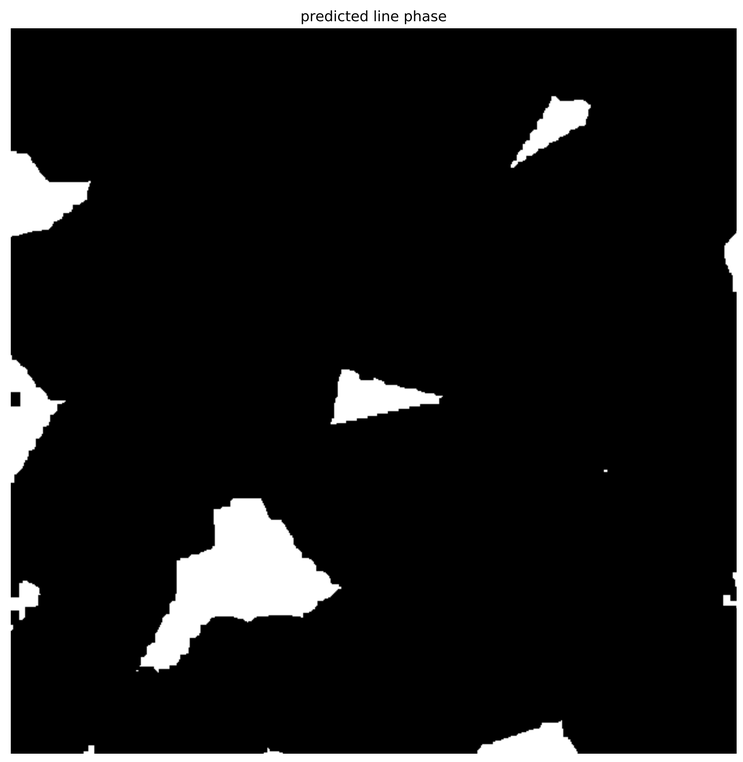
predicted grain boundary



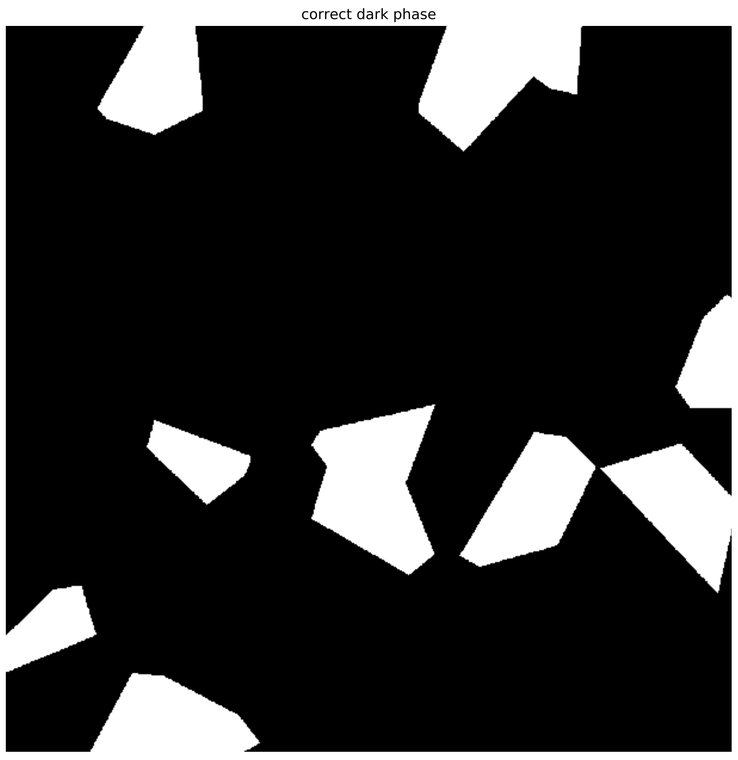
correct line phase



predicted line phase



correct dark phase



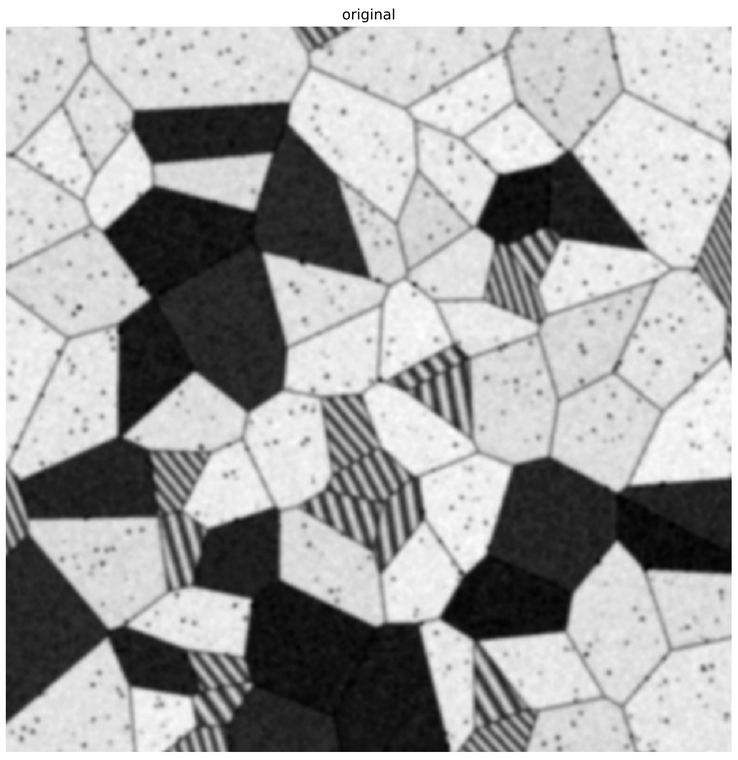
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_149.png

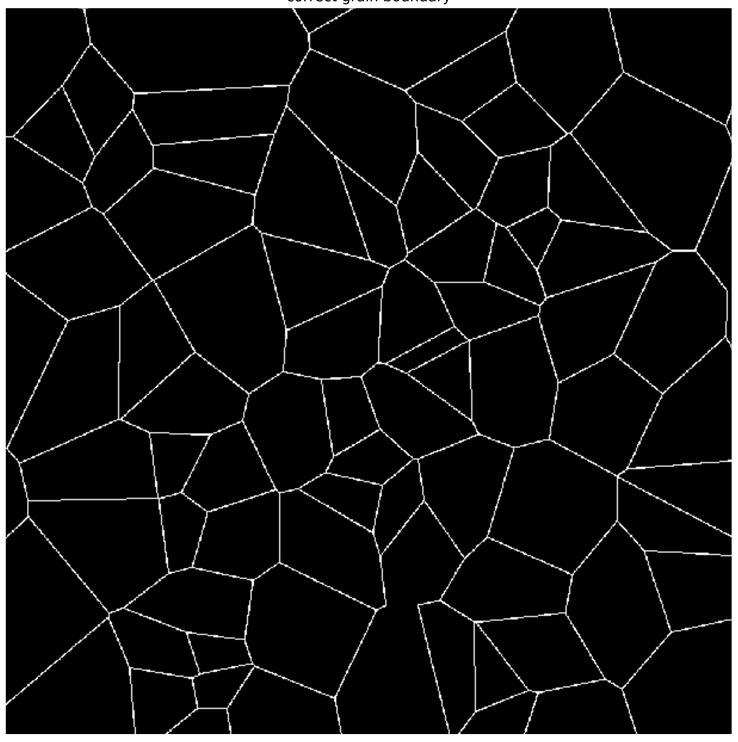
original



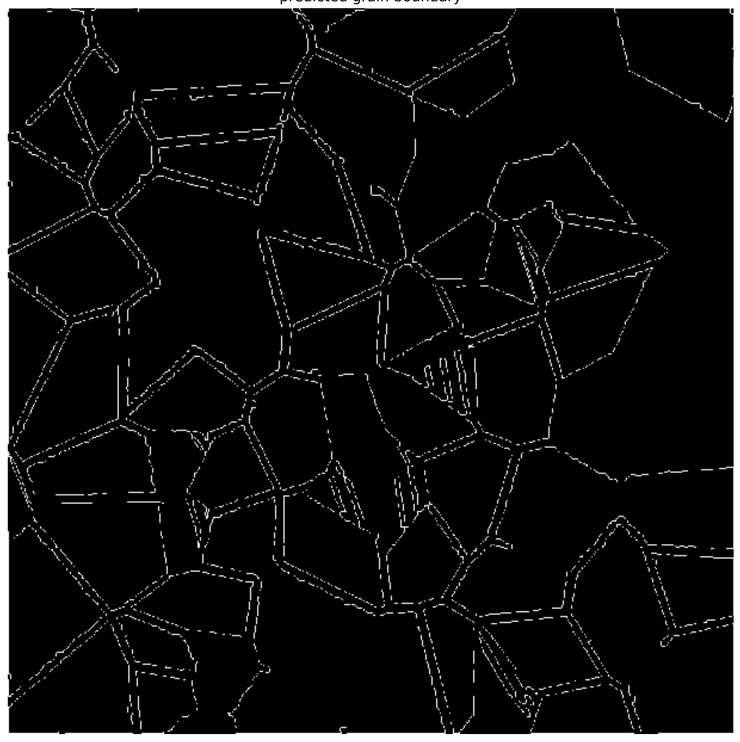
metrics

metric	correct	predicted	error
dark frac	0.267	0.260	0.683%
white frac	0.659	0.627	3.215%
line frac	0.074	0.055	1.940%
ave grain diameter	117.744	108.551	7.808%

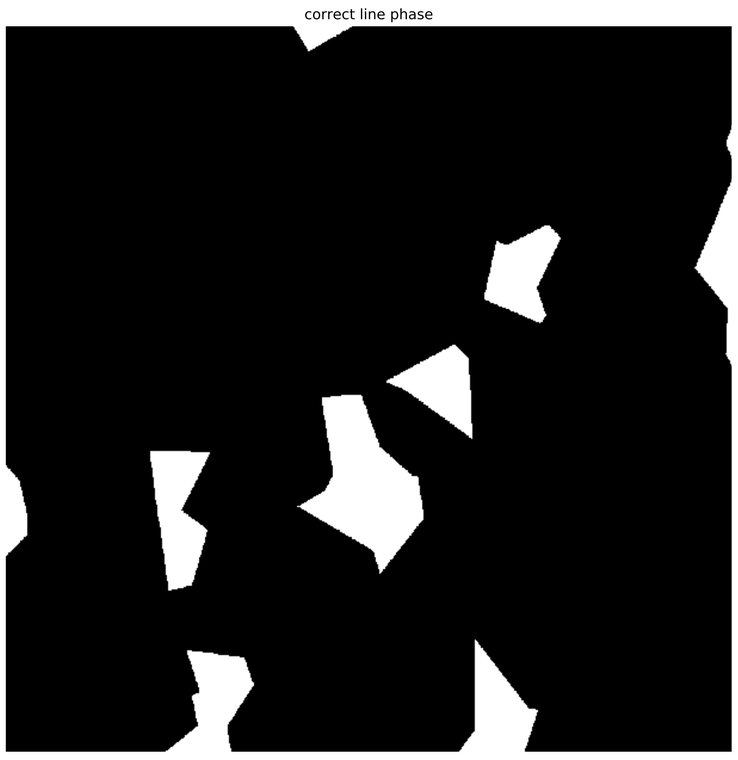
correct grain boundary



predicted grain boundary



correct line phase



predicted line phase

correct dark phase

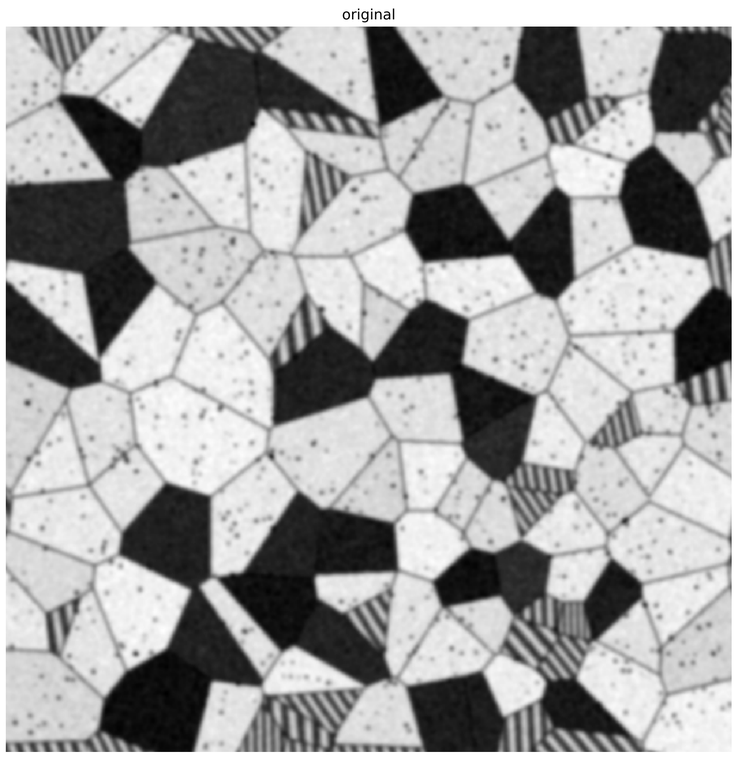
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_15.png

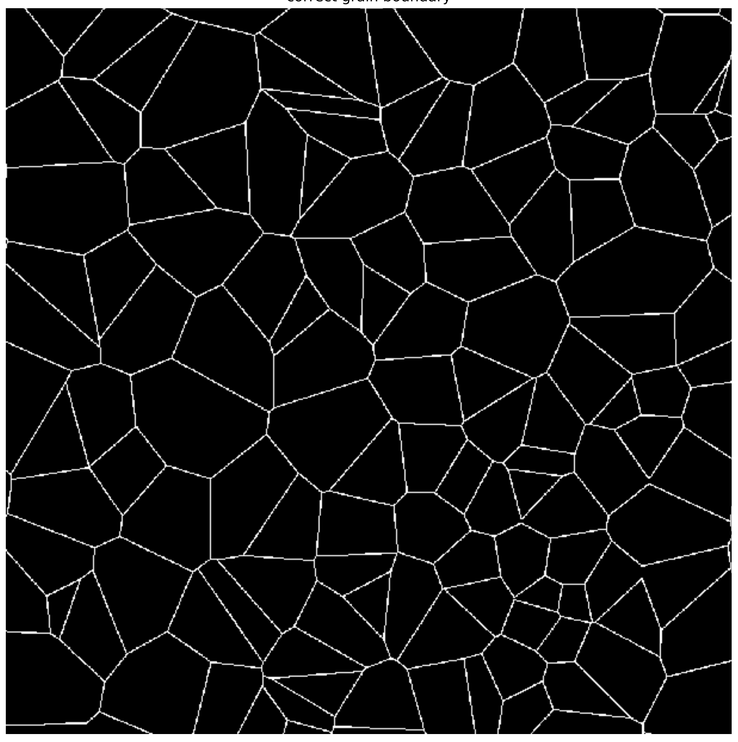
original



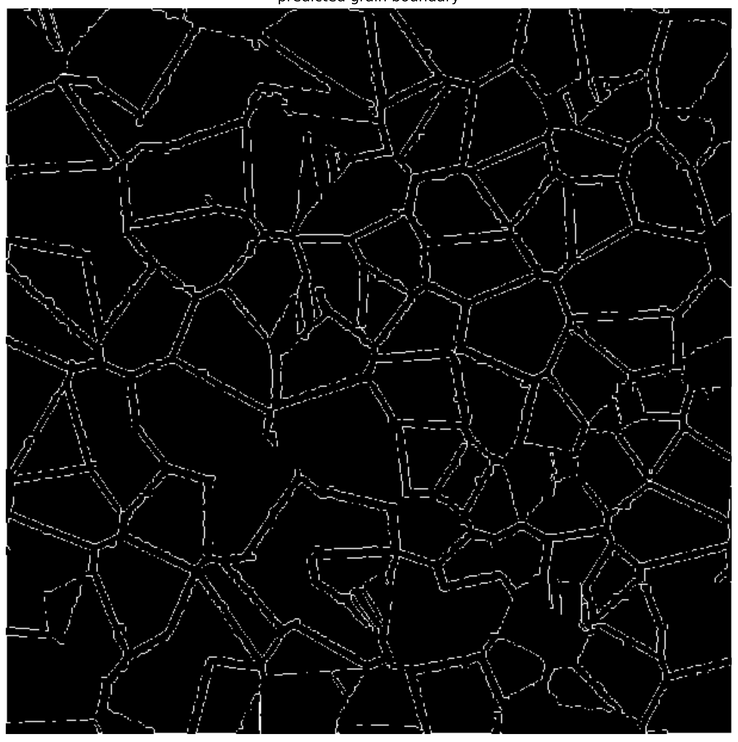
metrics

metric	correct	predicted	error
dark frac	0.271	0.260	1.116%
white frac	0.652	0.606	4.601%
line frac	0.077	0.050	2.689%
ave grain diameter	94.316	89.984	4.593%

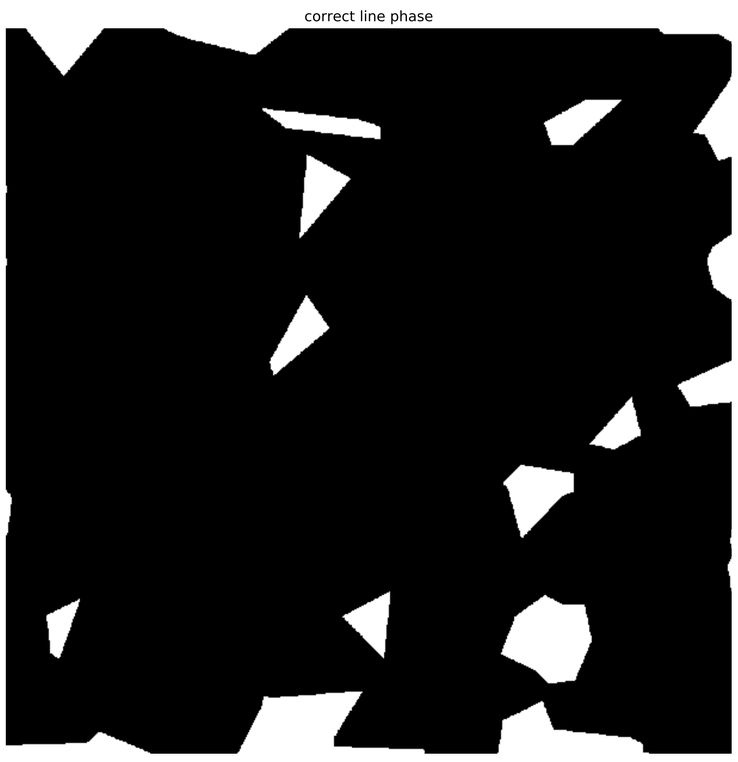
correct grain boundary



predicted grain boundary

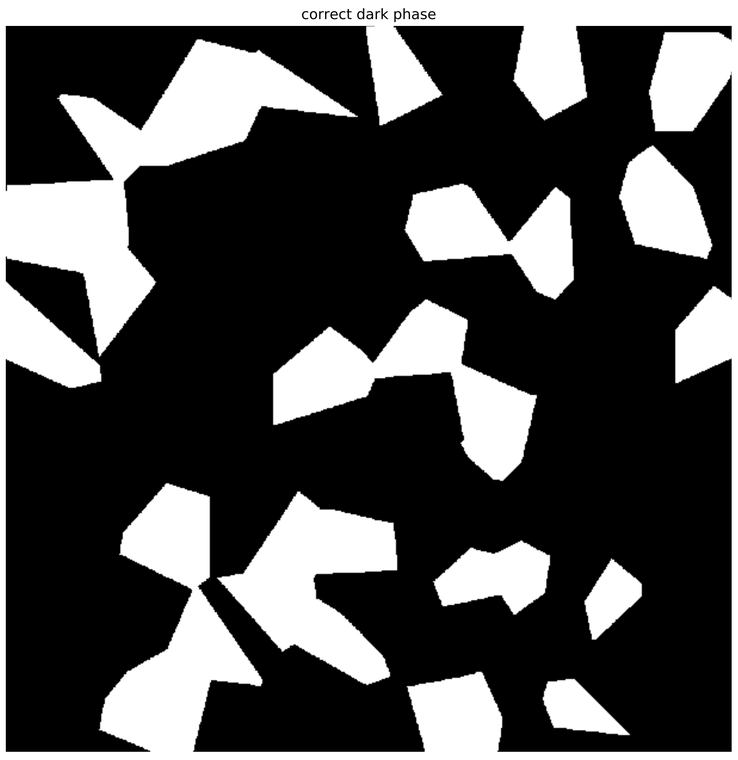


correct line phase

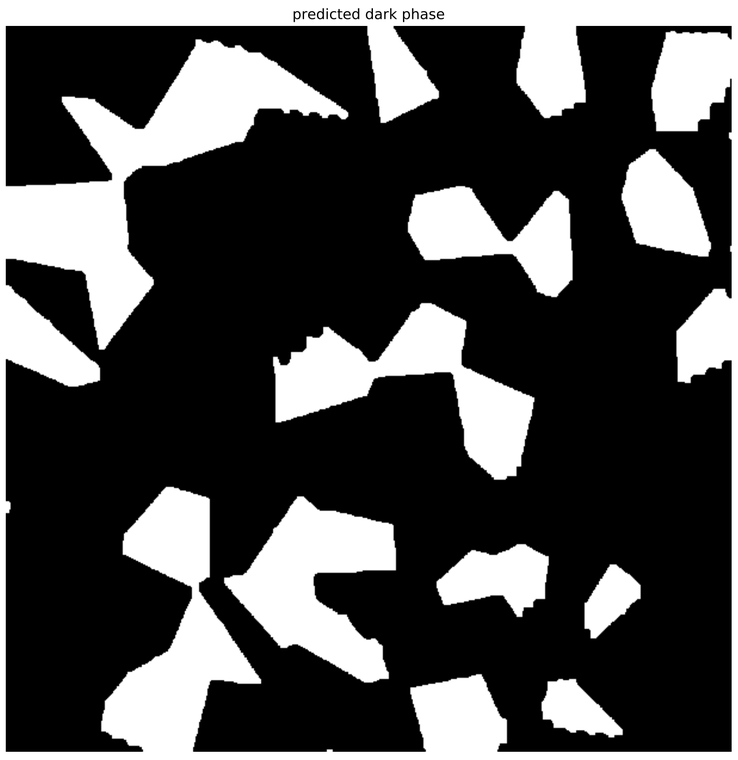


predicted line phase

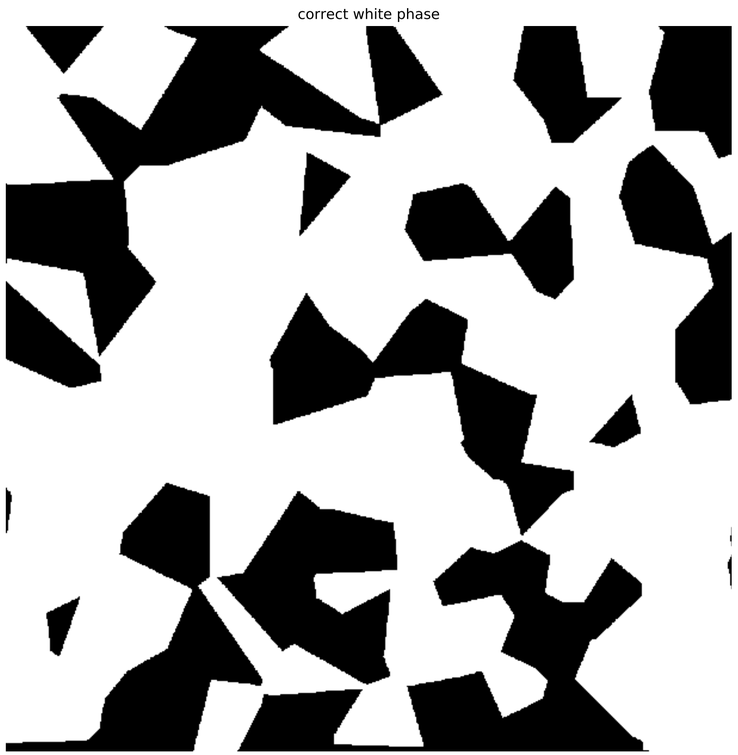
correct dark phase



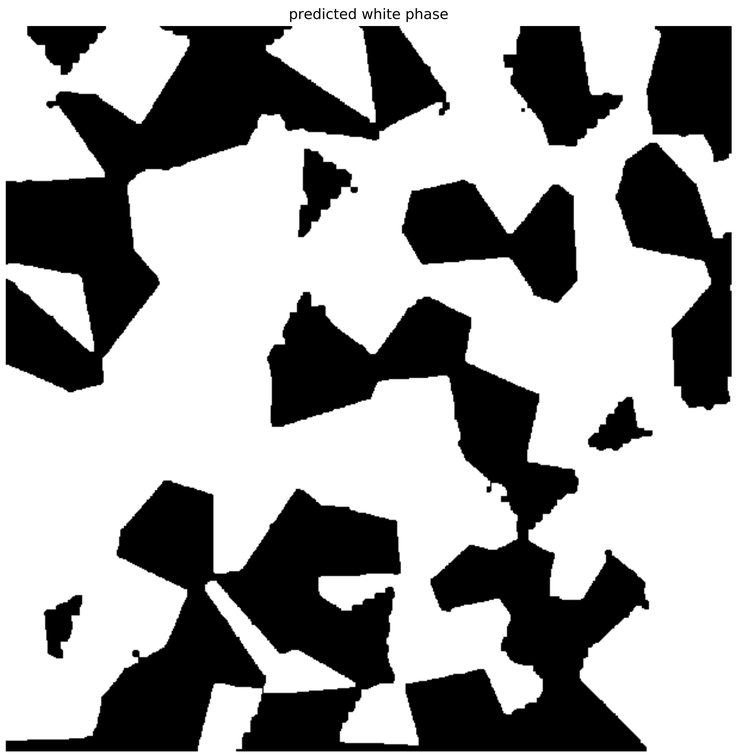
predicted dark phase



correct white phase

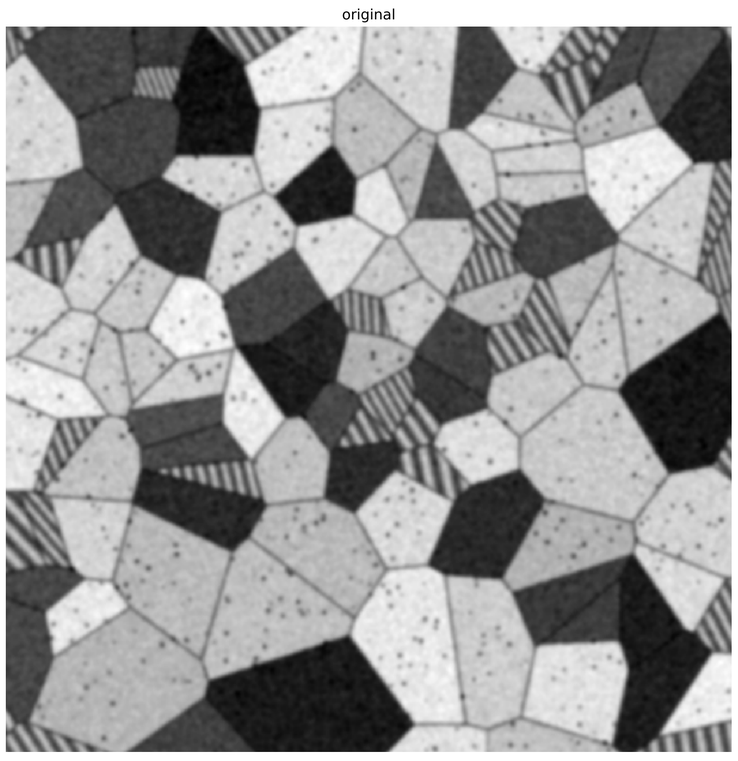


predicted white phase



data/base microstructure/image_150.png

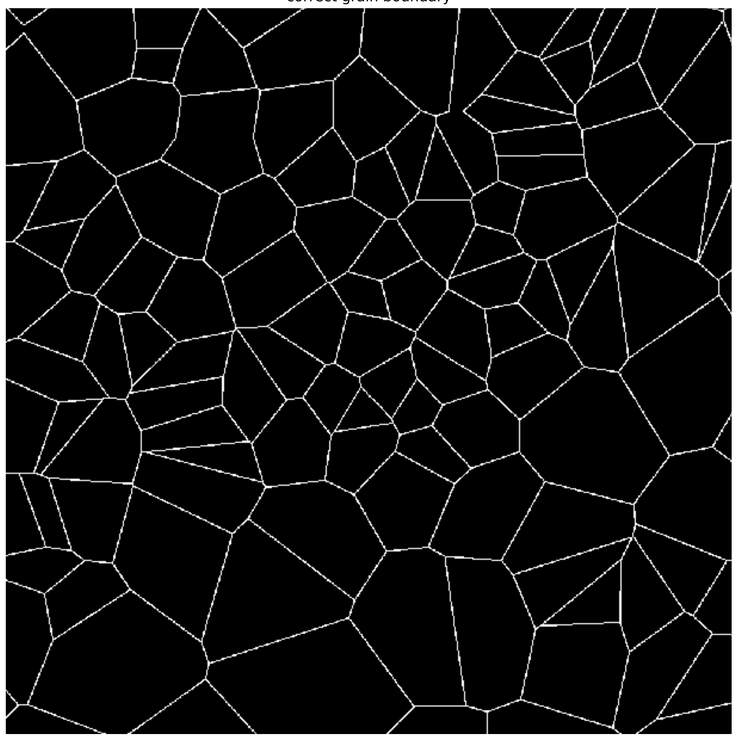
original



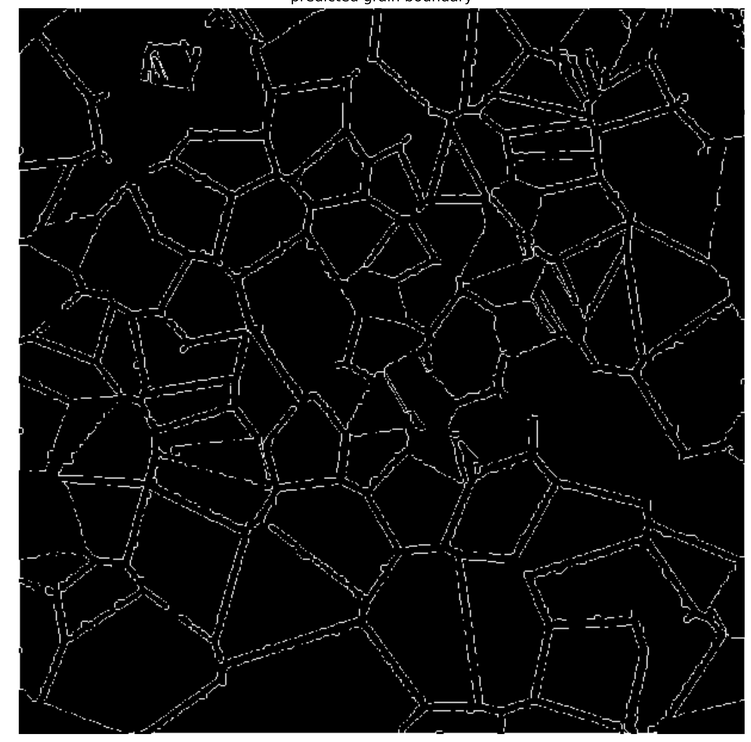
metrics

metric	correct	predicted	error
dark frac	0.313	0.307	0.603%
white frac	0.599	0.555	4.434%
line frac	0.088	0.060	2.816%
ave grain diameter	98.125	98.441	0.322%

correct grain boundary



predicted grain boundary

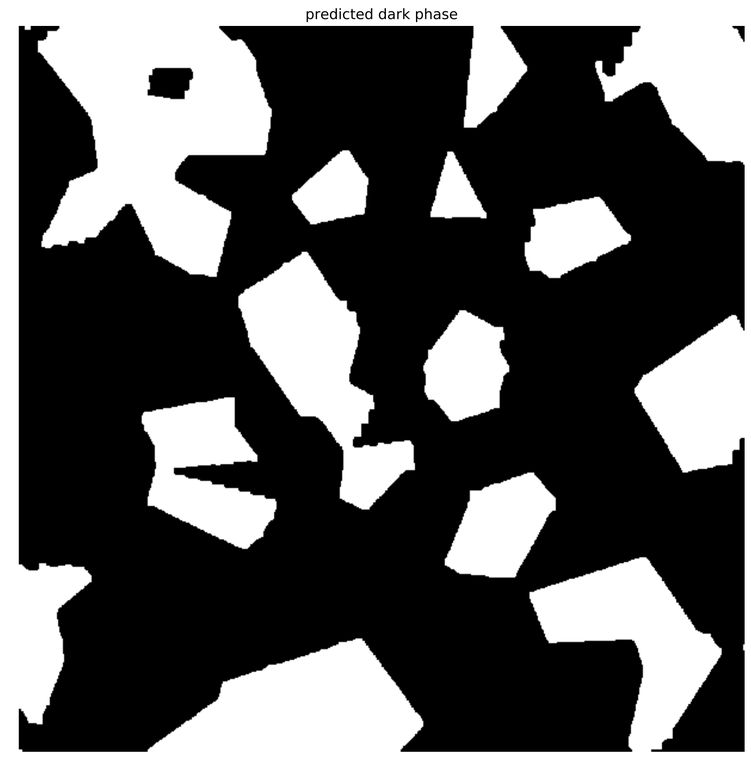


correct line phase

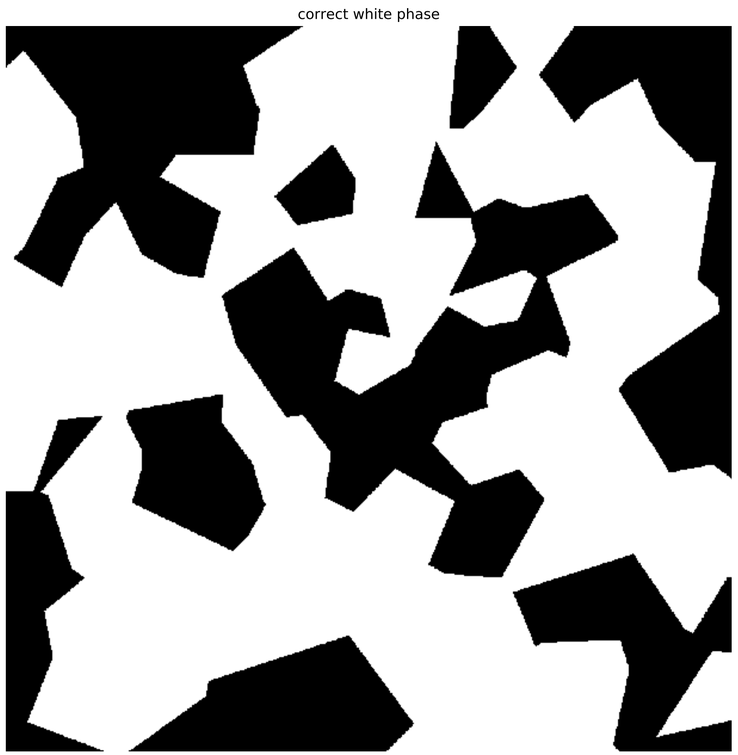
predicted line phase

correct dark phase

predicted dark phase



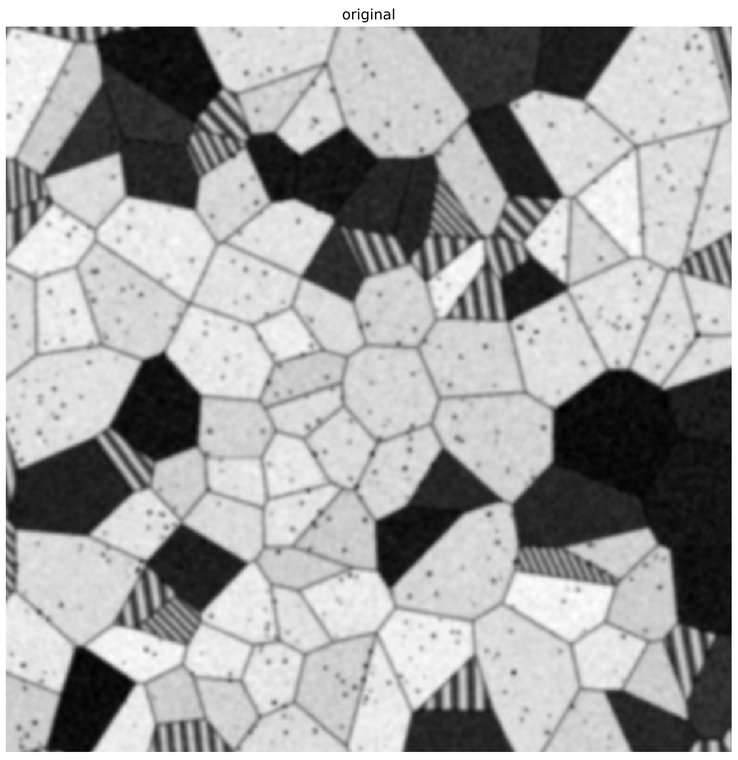
correct white phase



predicted white phase

data/base microstructure/image_151.png

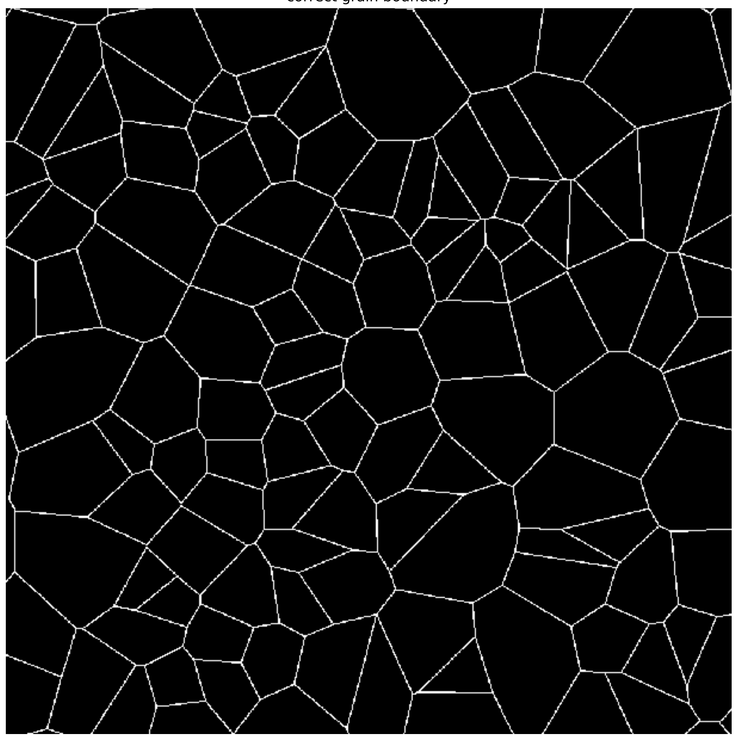
original



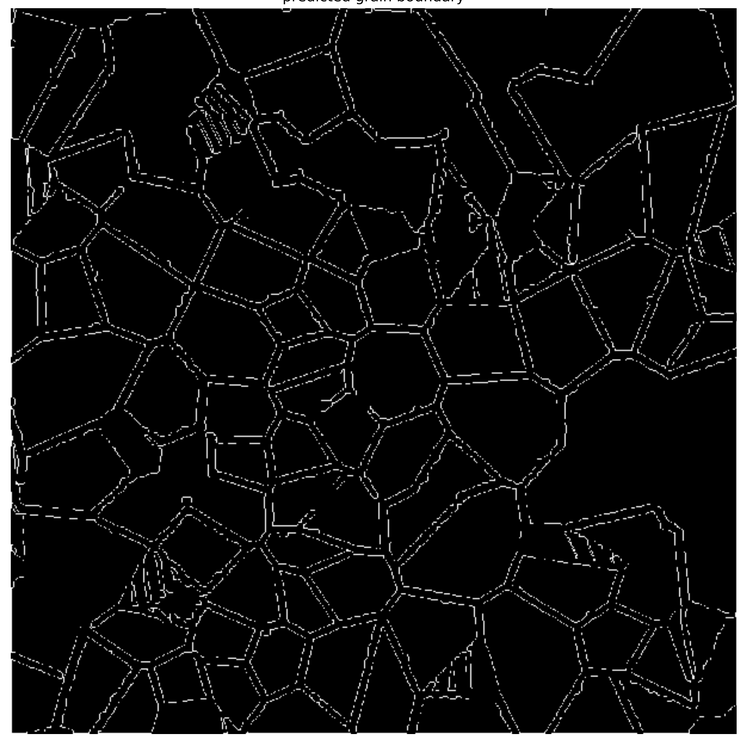
metrics

metric	correct	predicted	error
dark frac	0.250	0.244	0.583%
white frac	0.681	0.651	3.011%
line frac	0.070	0.041	2.895%
ave grain diameter	97.169	92.333	4.976%

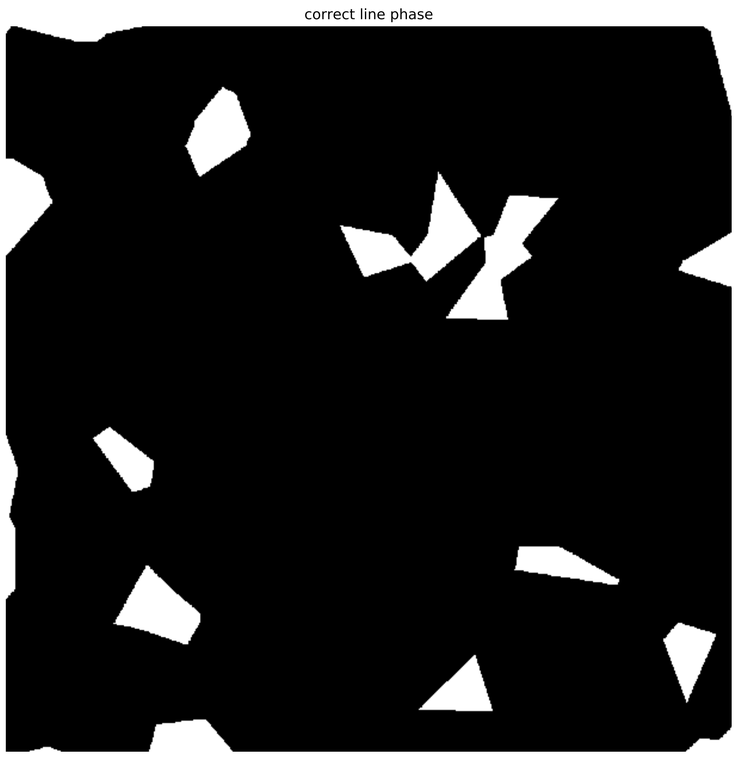
correct grain boundary



predicted grain boundary

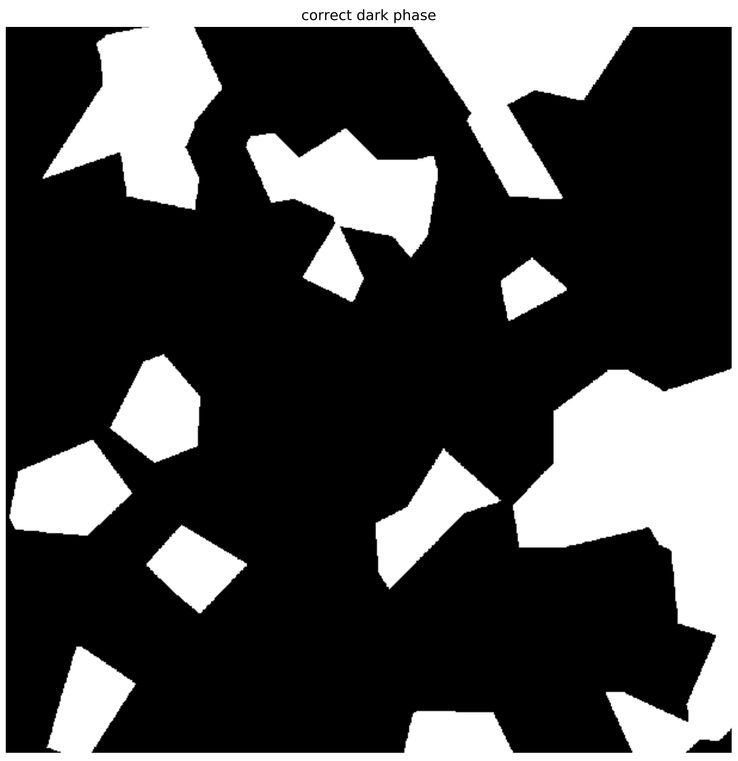


correct line phase



predicted line phase

correct dark phase



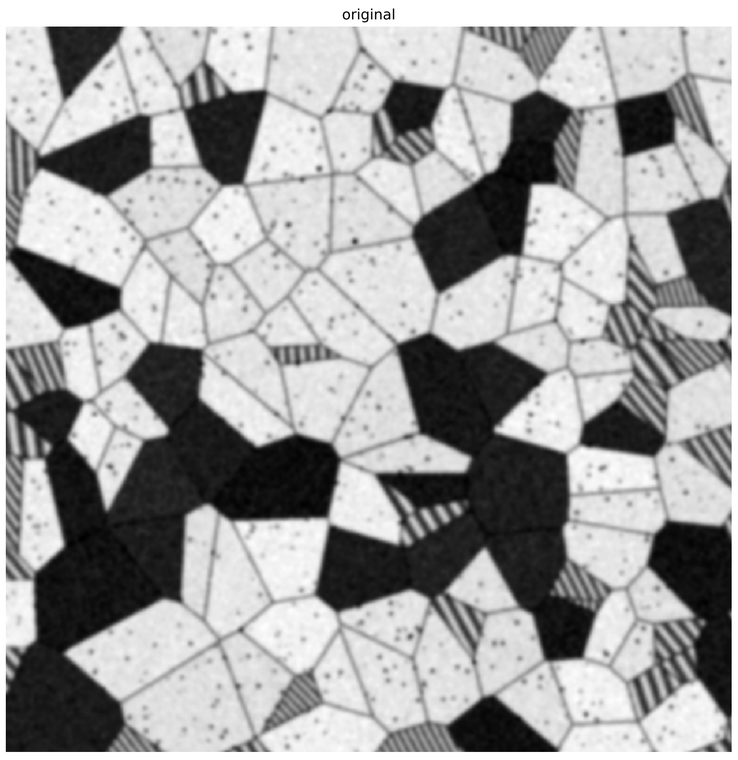
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_152.png

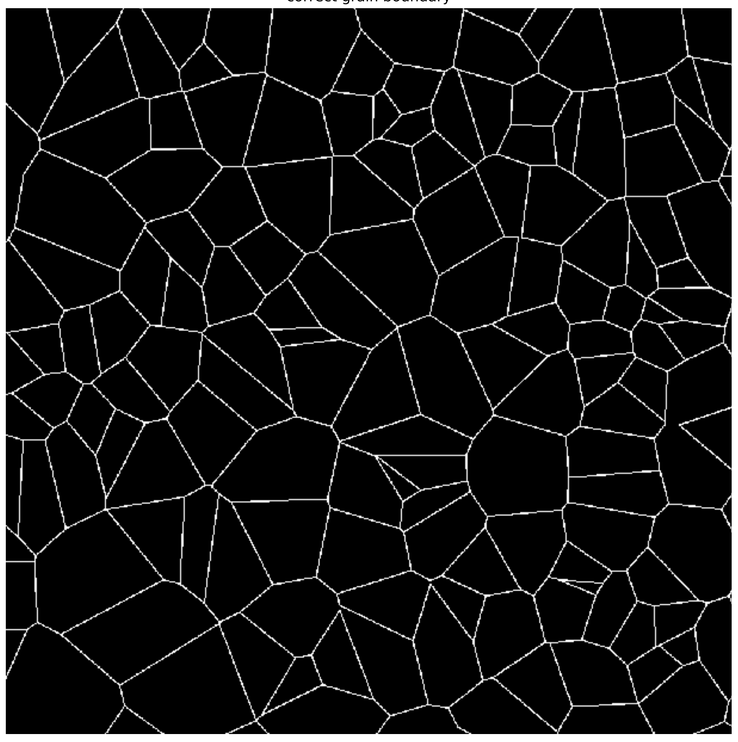
original



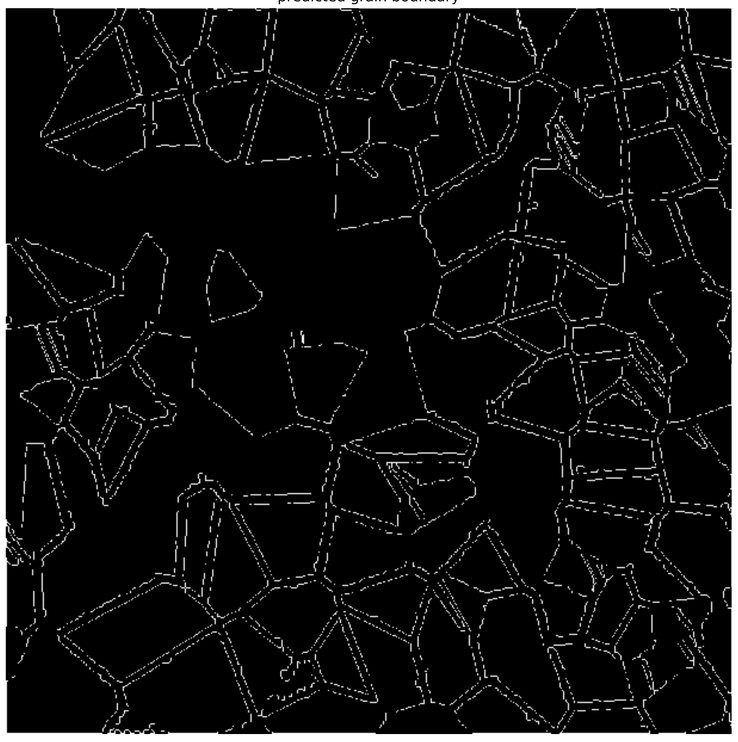
metrics

metric	correct	predicted	error
dark frac	0.276	0.267	0.877%
white frac	0.636	0.594	4.234%
line frac	0.088	0.054	3.365%
ave grain diameter	87.372	82.060	6.080%

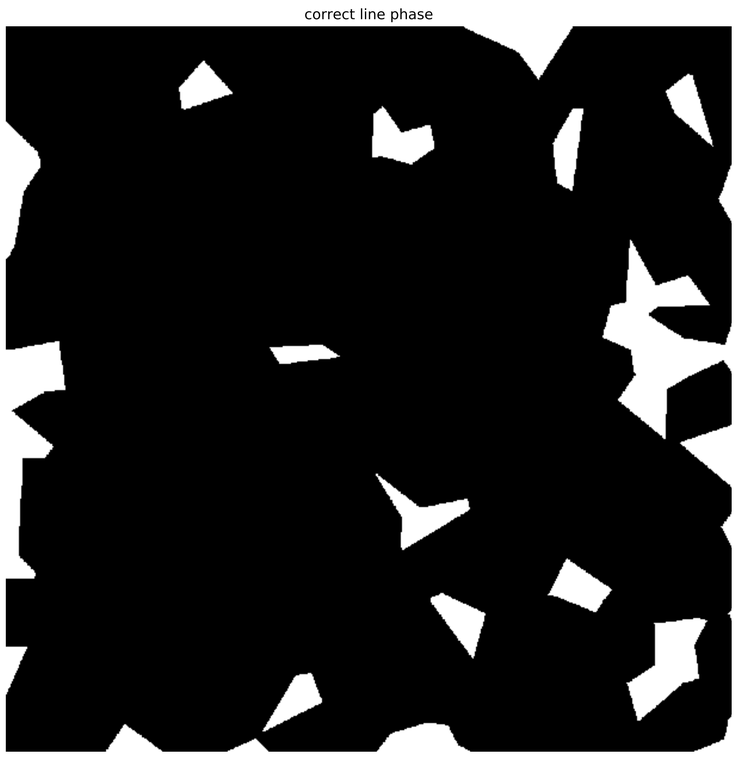
correct grain boundary



predicted grain boundary



correct line phase



predicted line phase

correct dark phase

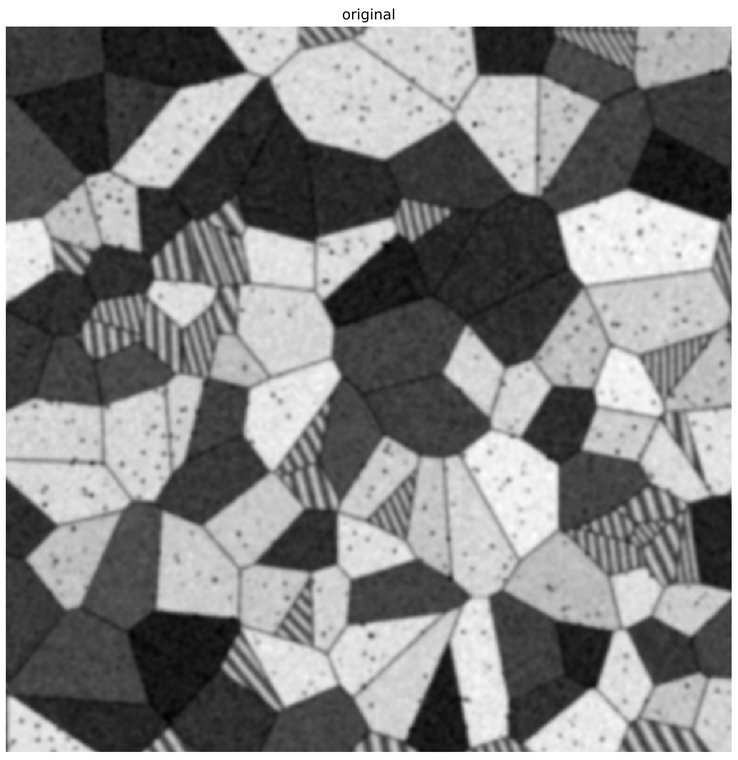
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_153.png

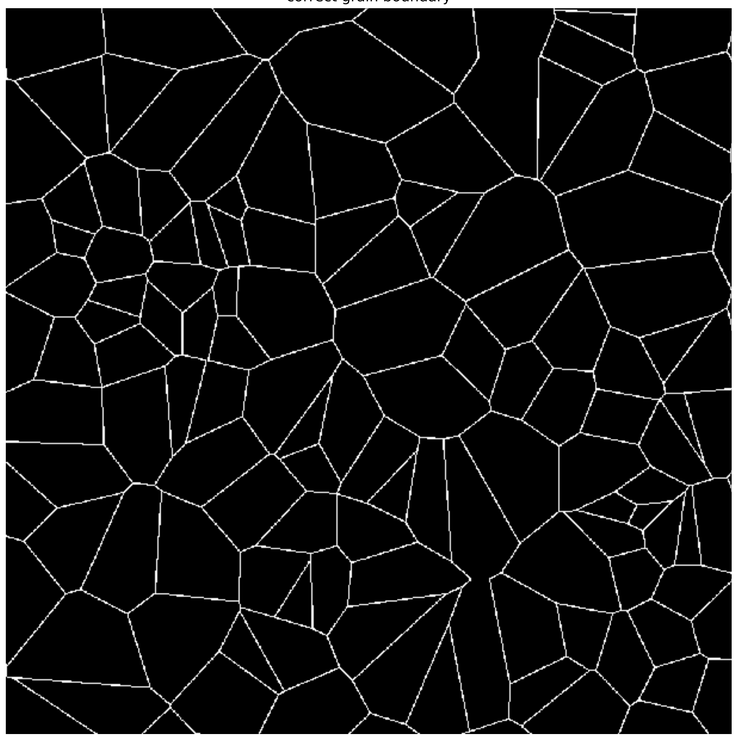
original



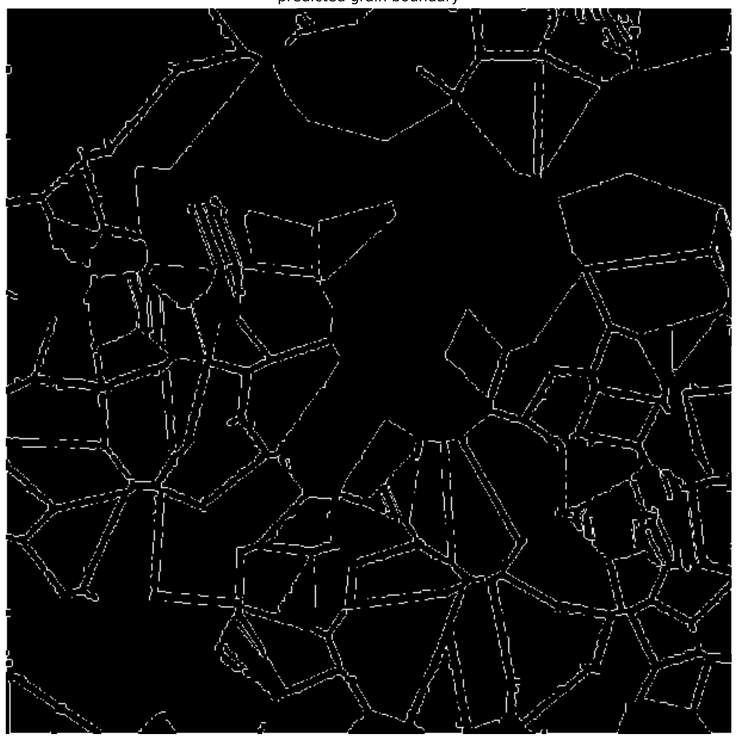
metrics

metric	correct	predicted	error
dark frac	0.447	0.439	0.780%
white frac	0.468	0.418	5.019%
line frac	0.085	0.056	2.953%
ave grain diameter	93.633	90.666	3.168%

correct grain boundary



predicted grain boundary



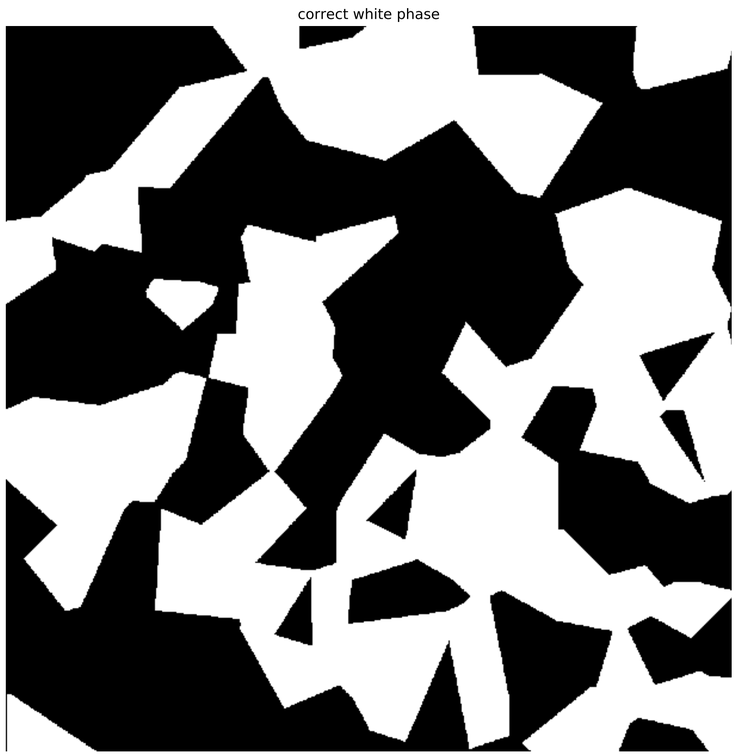
correct line phase

predicted line phase

correct dark phase

predicted dark phase

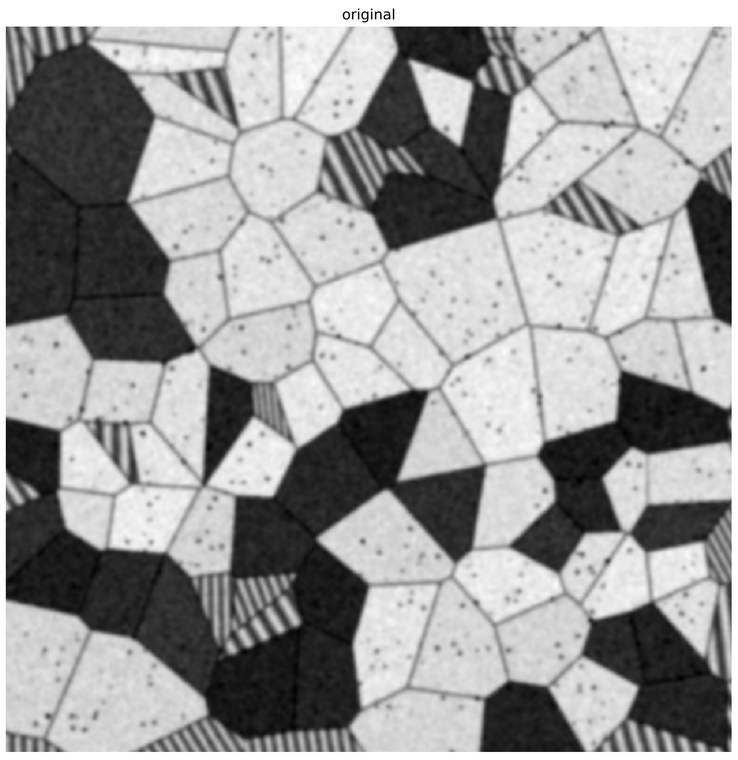
correct white phase



predicted white phase

data/base microstructure/image_154.png

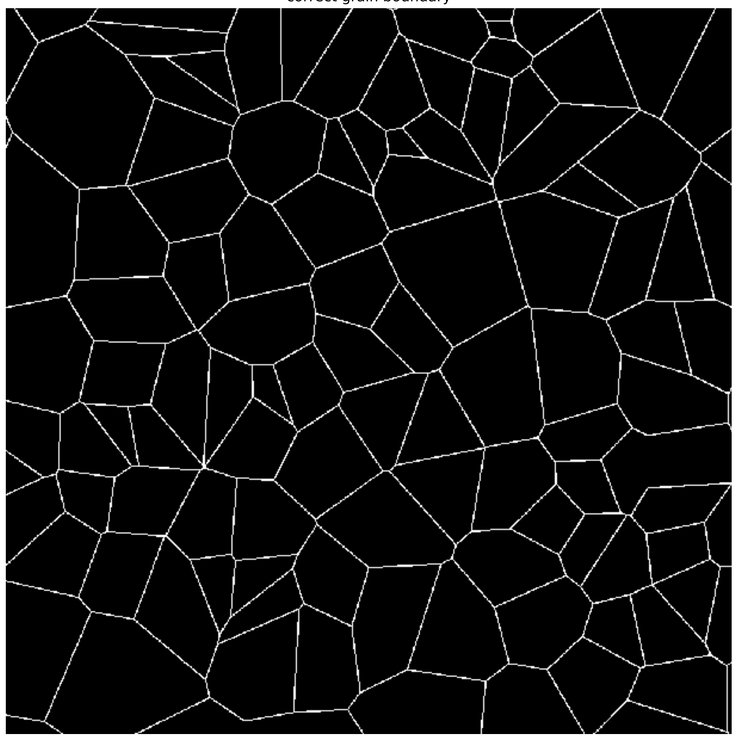
original



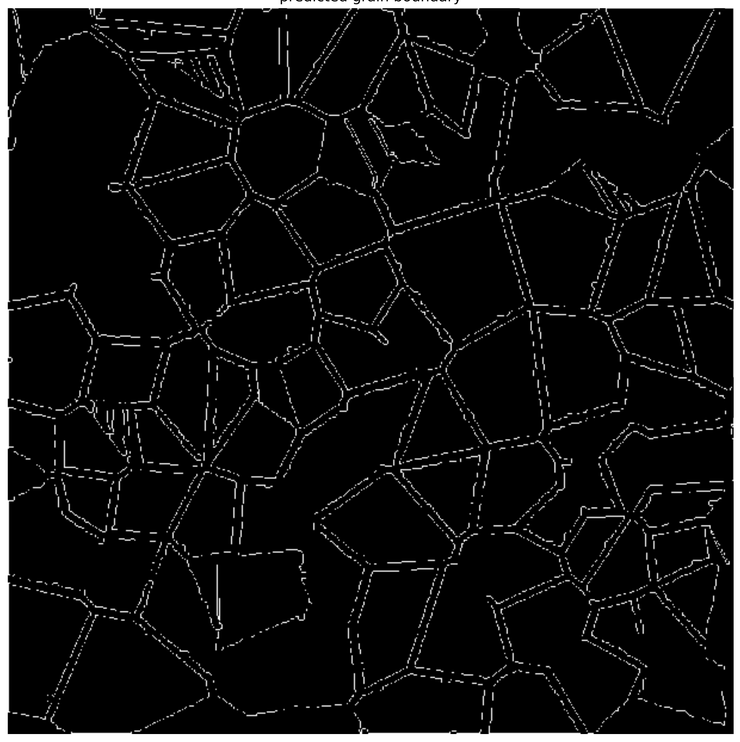
metrics

metric	correct	predicted	error
dark frac	0.313	0.309	0.457%
white frac	0.614	0.577	3.729%
line frac	0.072	0.045	2.753%
ave grain diameter	101.659	93.095	8.424%

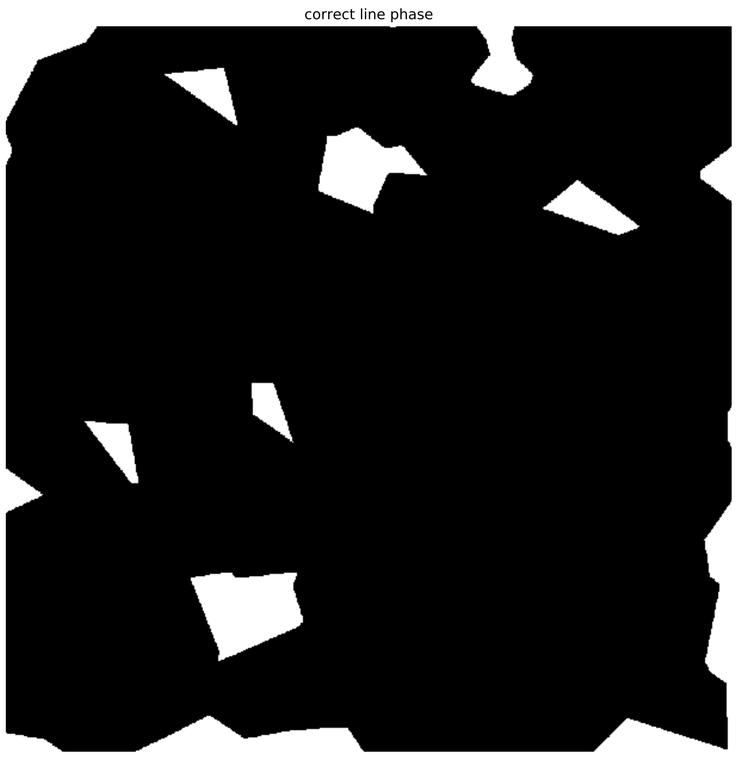
correct grain boundary



predicted grain boundary



correct line phase



predicted line phase

correct dark phase

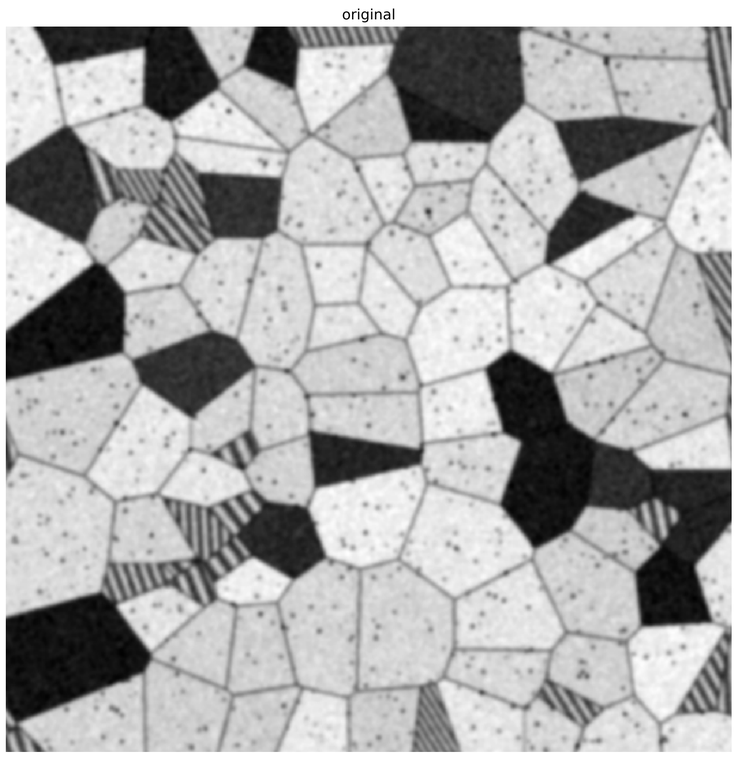
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_155.png

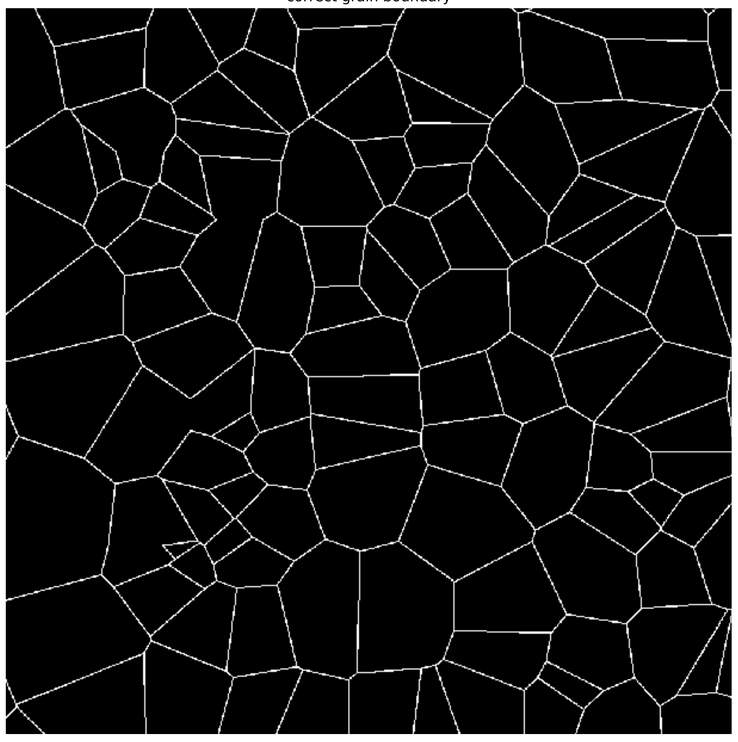
original



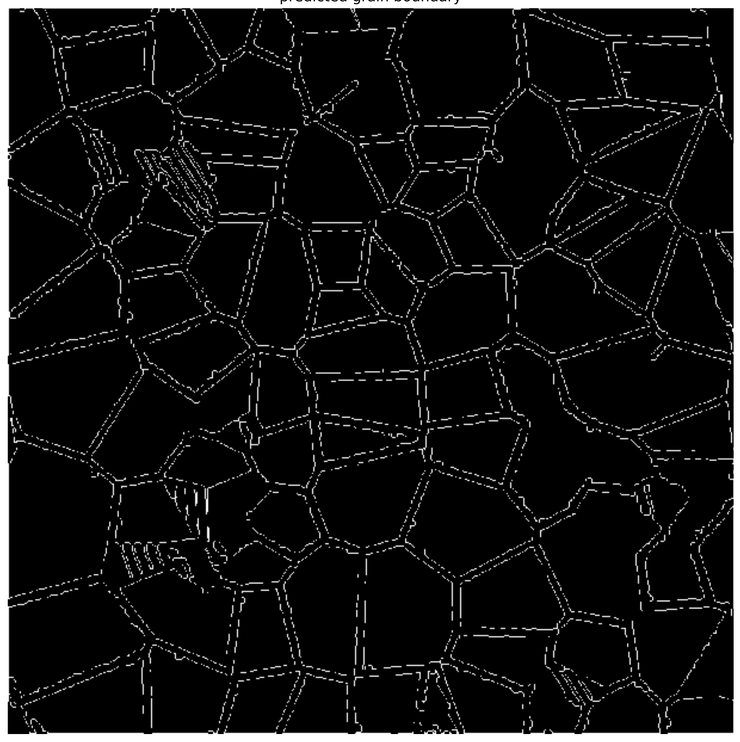
metrics

metric	correct	predicted	error
dark frac	0.196	0.189	0.703%
white frac	0.744	0.708	3.600%
line frac	0.060	0.042	1.763%
ave grain diameter	99.681	89.809	9.904%

correct grain boundary



predicted grain boundary



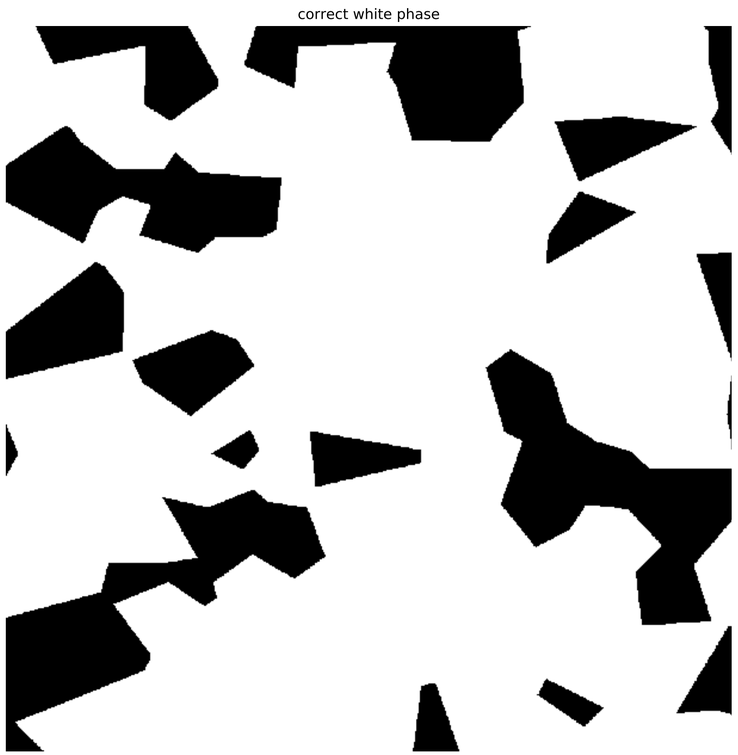
correct line phase

predicted line phase

correct dark phase

predicted dark phase

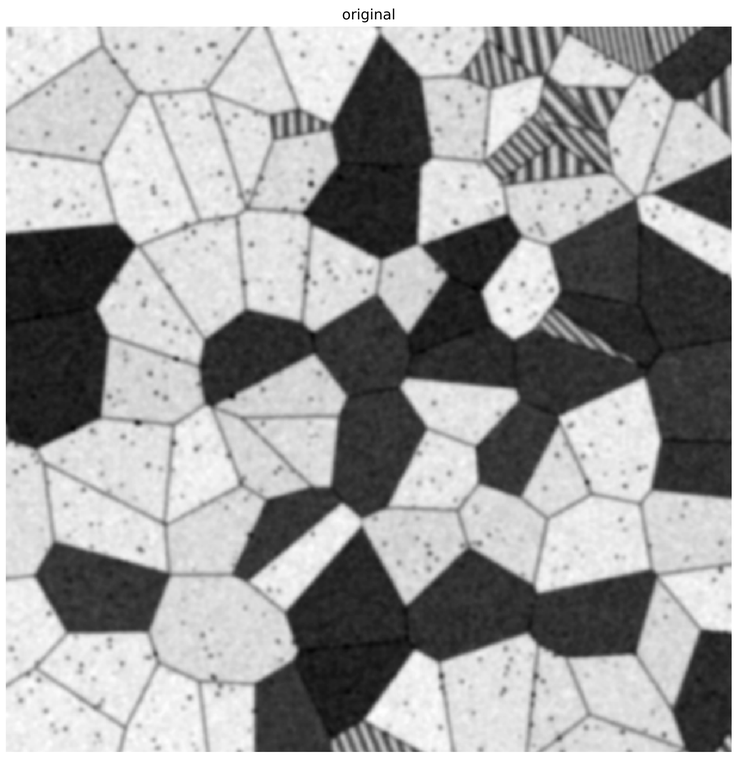
correct white phase



predicted white phase

data/base microstructure/image_156.png

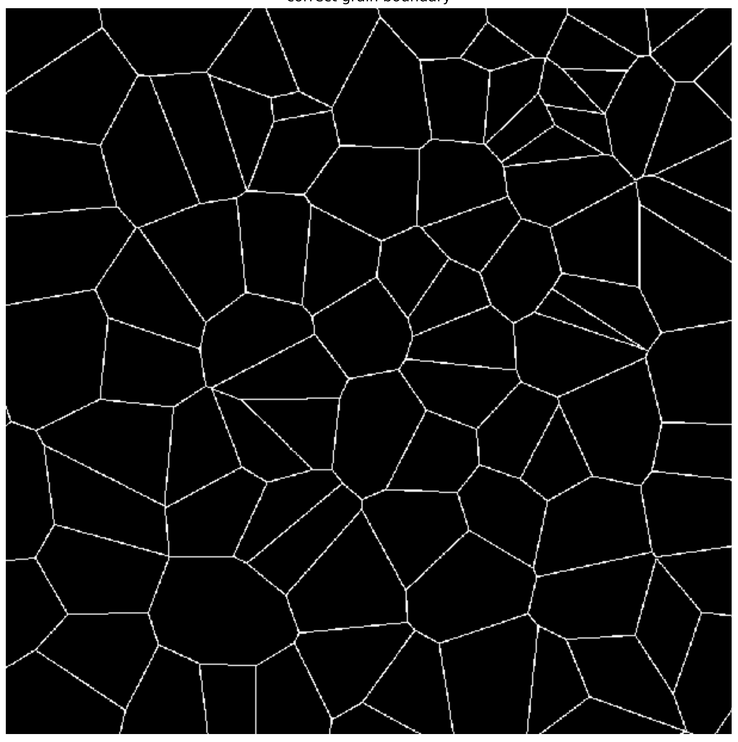
original



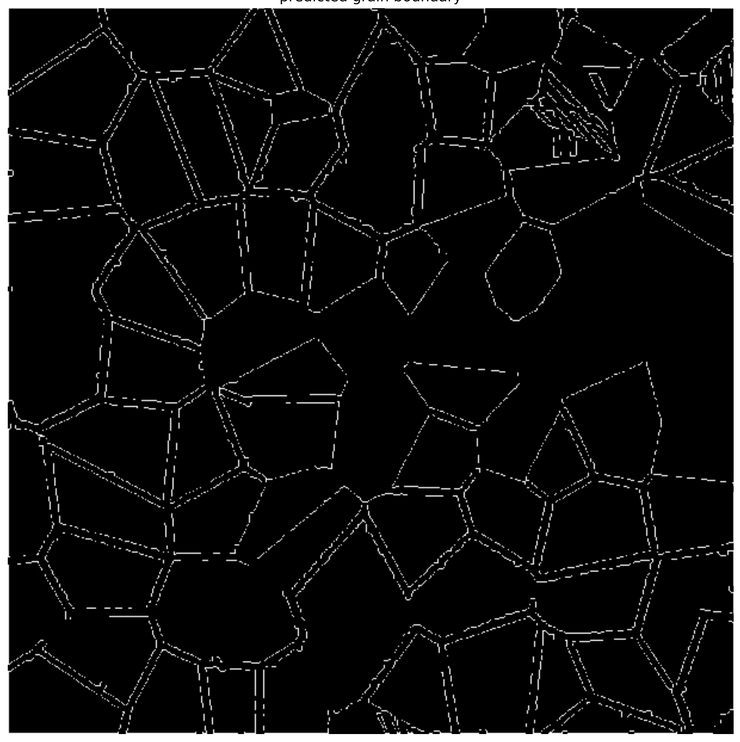
metrics

metric	correct	predicted	error
dark frac	0.334	0.324	1.042%
white frac	0.622	0.582	3.924%
line frac	0.044	0.033	1.182%
ave grain diameter	111.460	98.561	11.573%

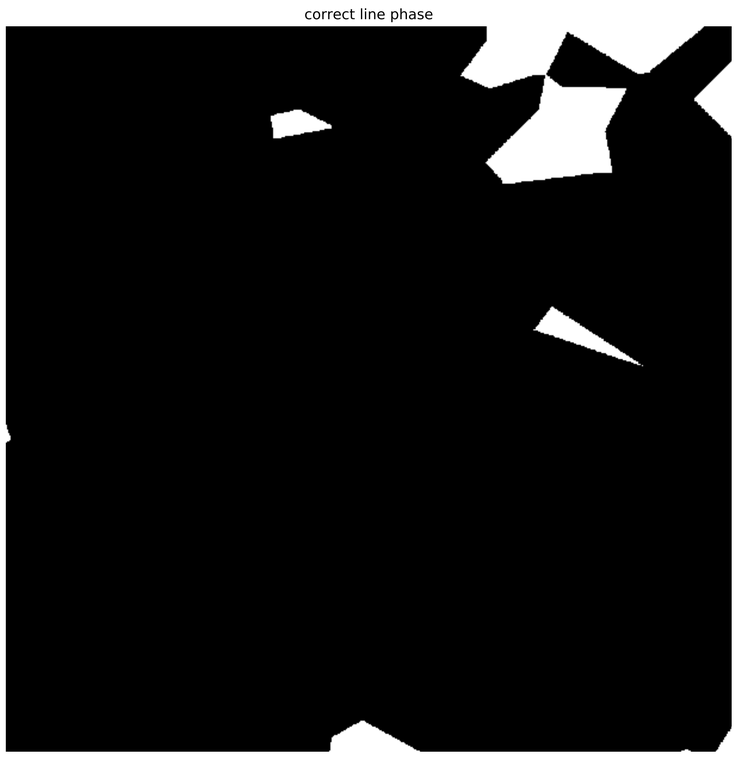
correct grain boundary



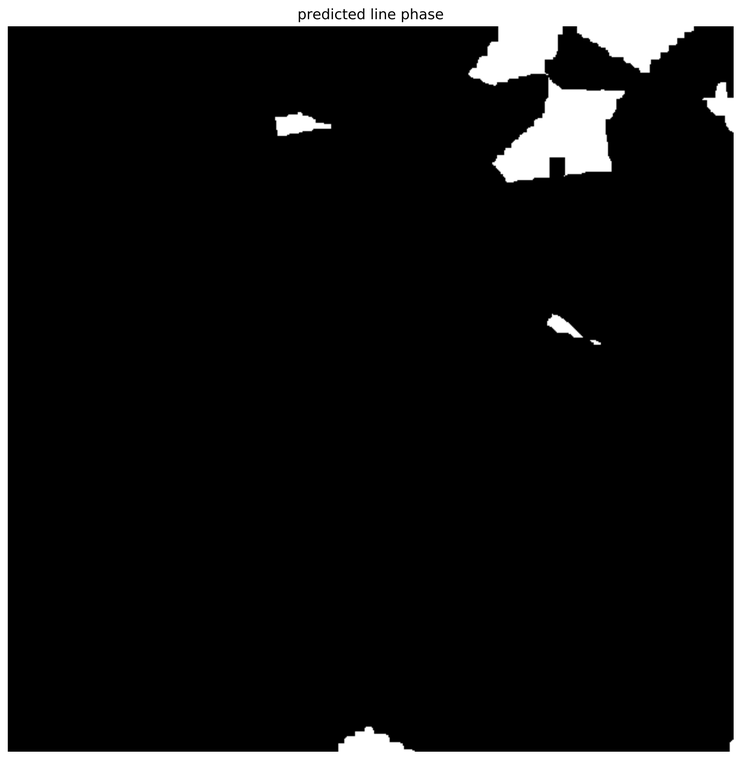
predicted grain boundary



correct line phase



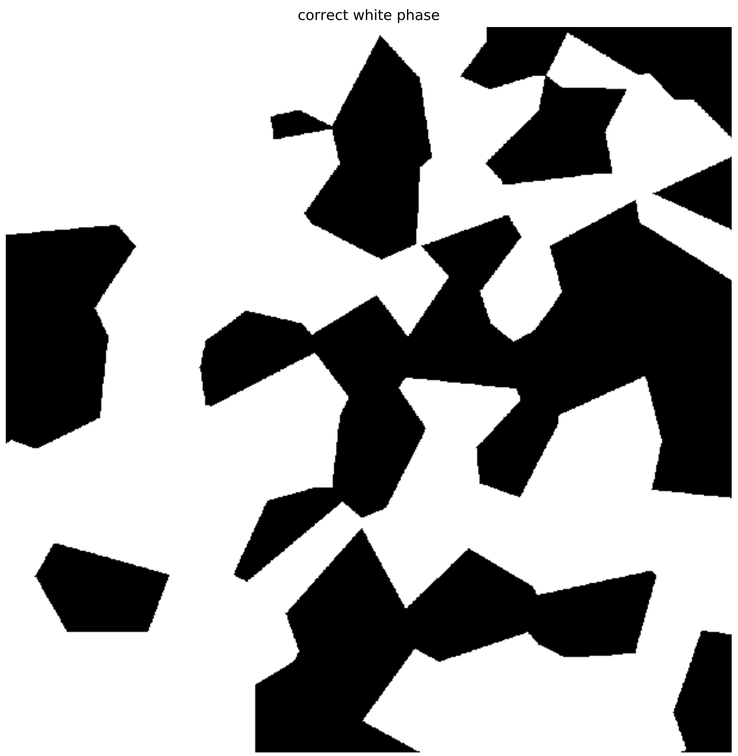
predicted line phase



correct dark phase

predicted dark phase

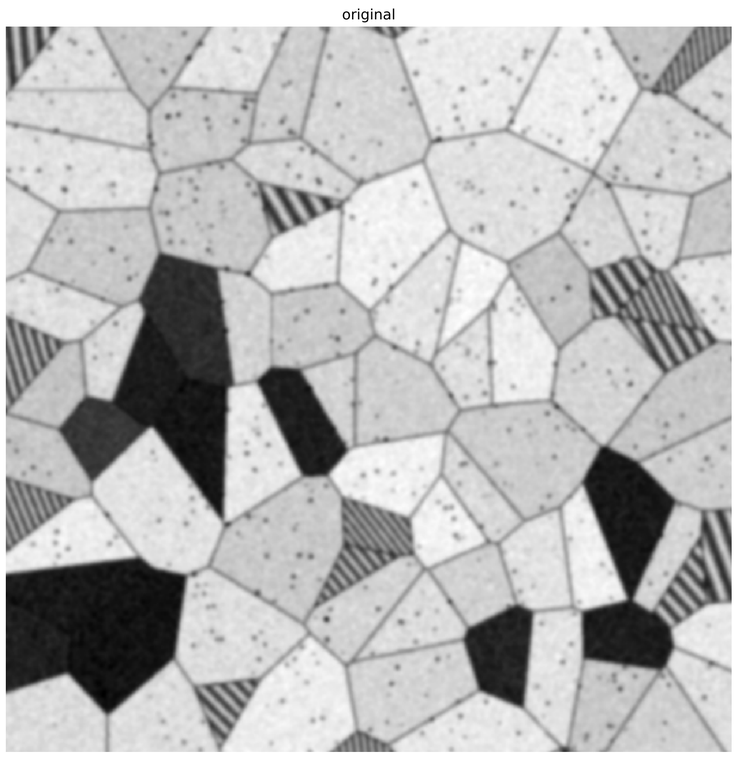
correct white phase



predicted white phase

data/base microstructure/image_157.png

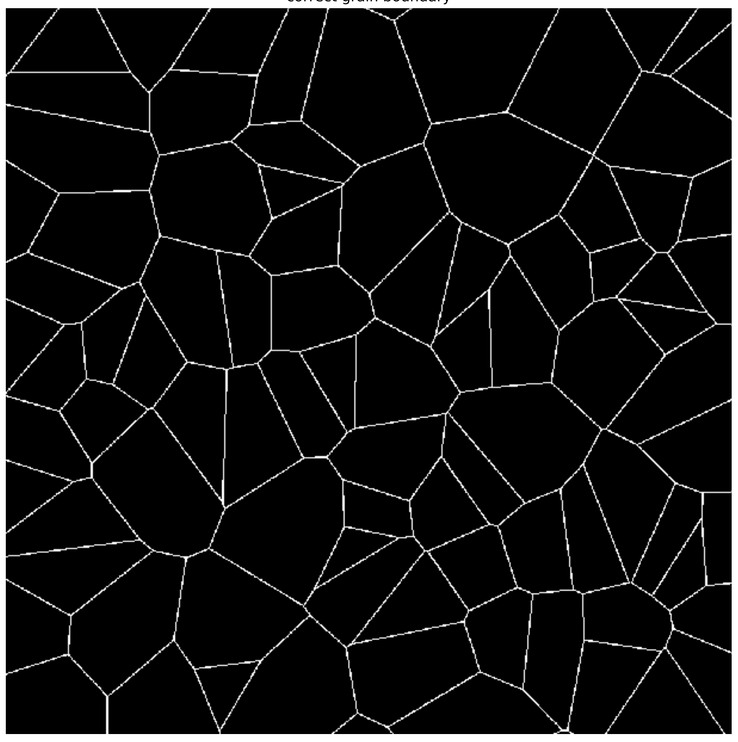
original



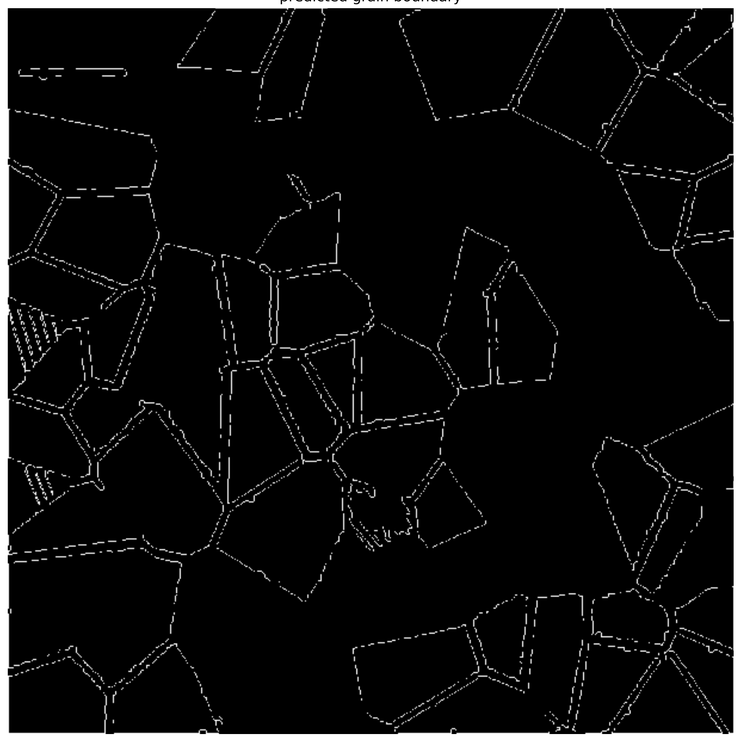
metrics

metric	correct	predicted	error
dark frac	0.123	0.118	0.484%
white frac	0.816	0.791	2.515%
line frac	0.062	0.047	1.449%
ave grain diameter	114.593	94.196	17.799%

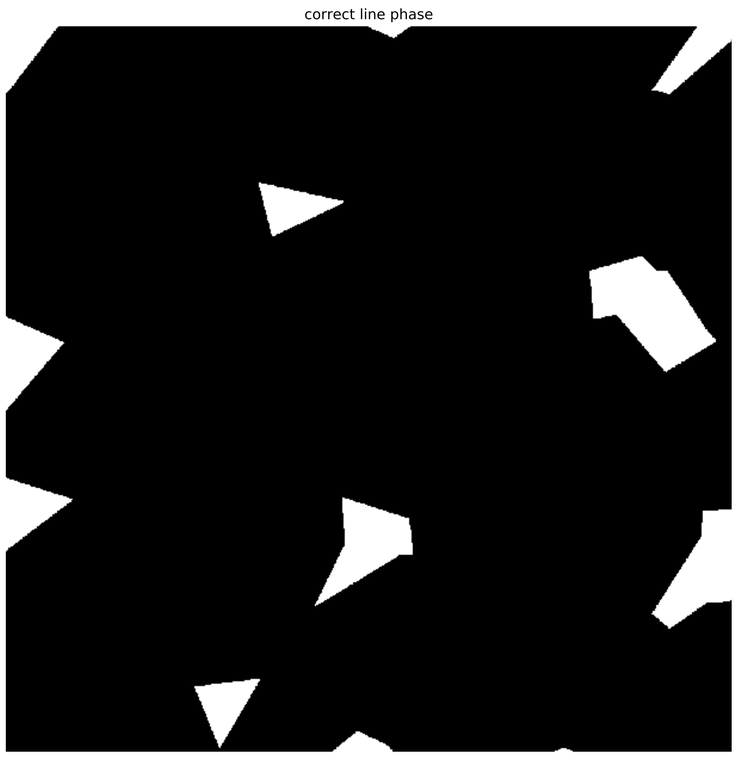
correct grain boundary



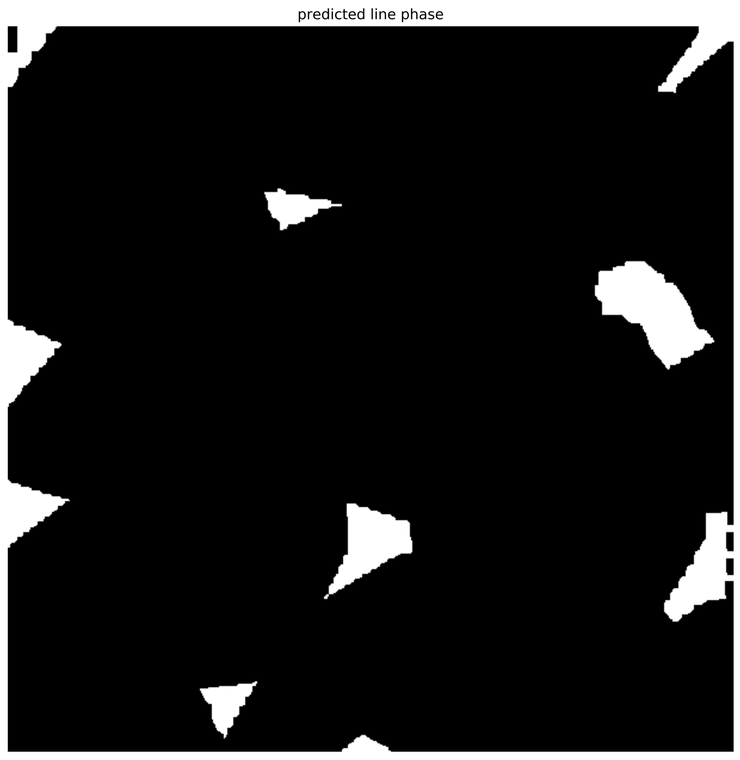
predicted grain boundary



correct line phase



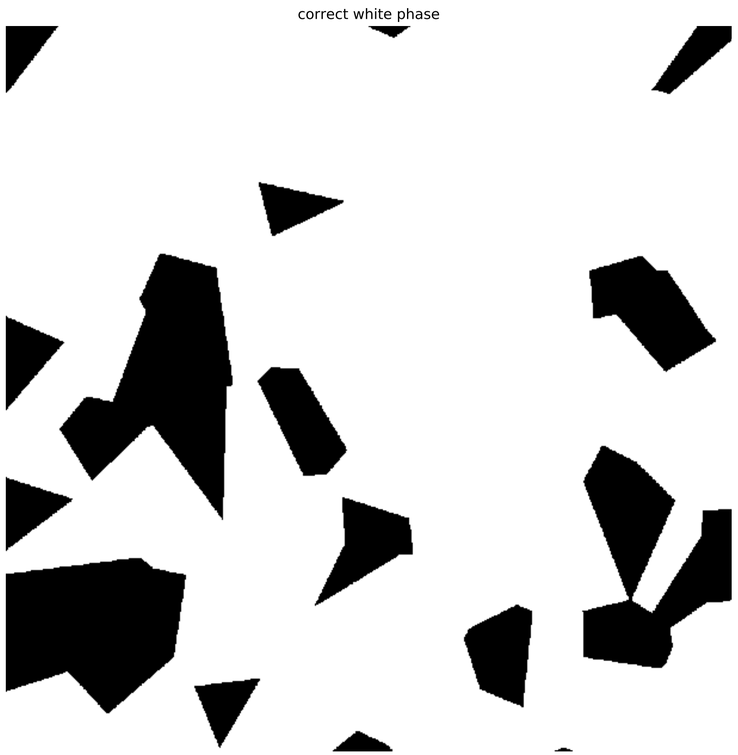
predicted line phase



correct dark phase

predicted dark phase

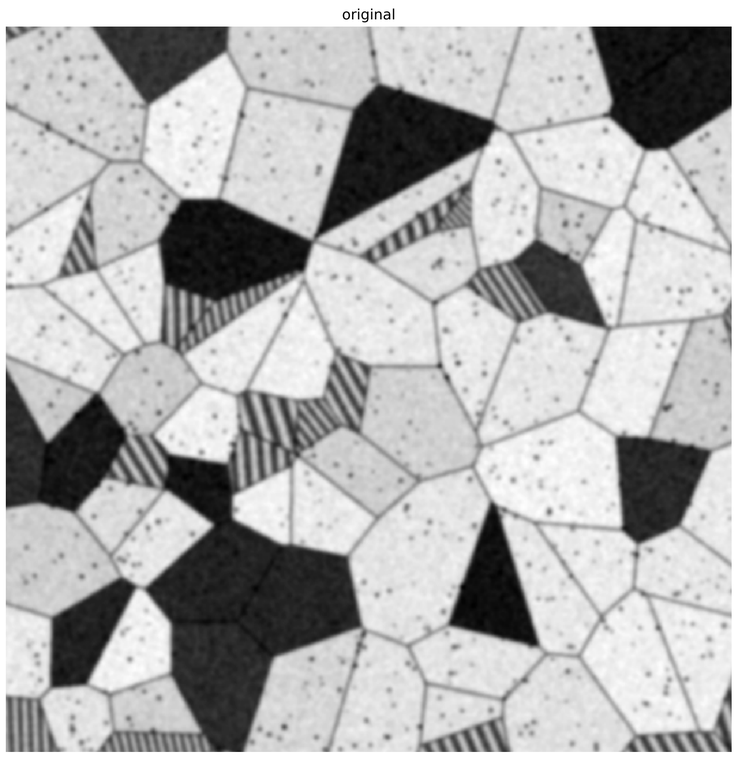
correct white phase



predicted white phase

data/base microstructure/image_158.png

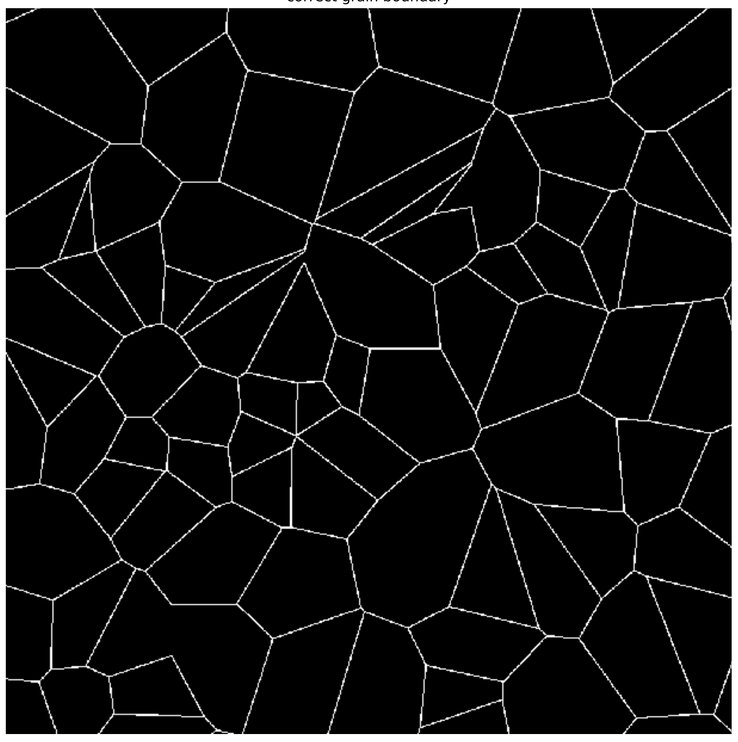
original



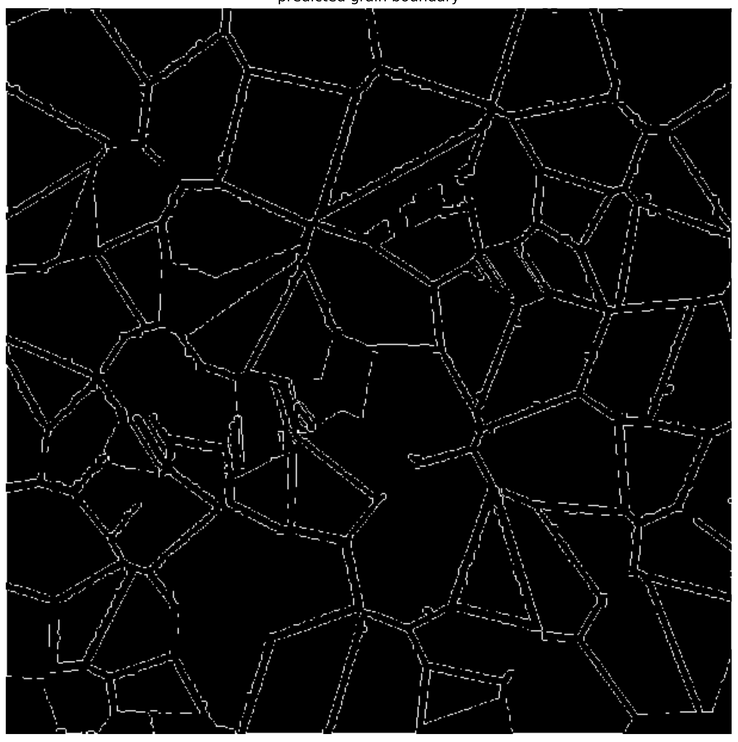
metrics

metric	correct	predicted	error
dark frac	0.199	0.193	0.525%
white frac	0.742	0.709	3.317%
line frac	0.059	0.042	1.754%
ave grain diameter	116.256	108.524	6.651%

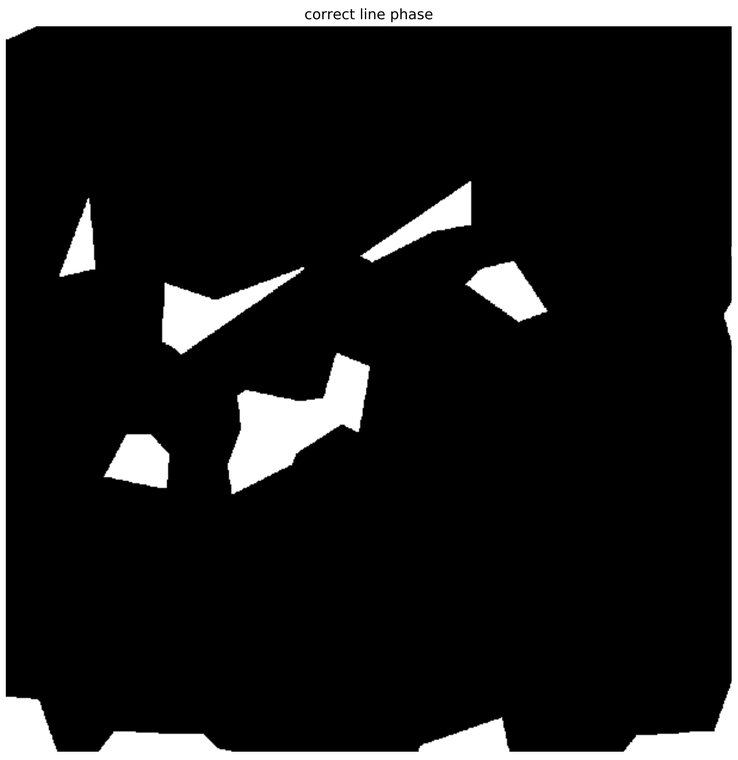
correct grain boundary



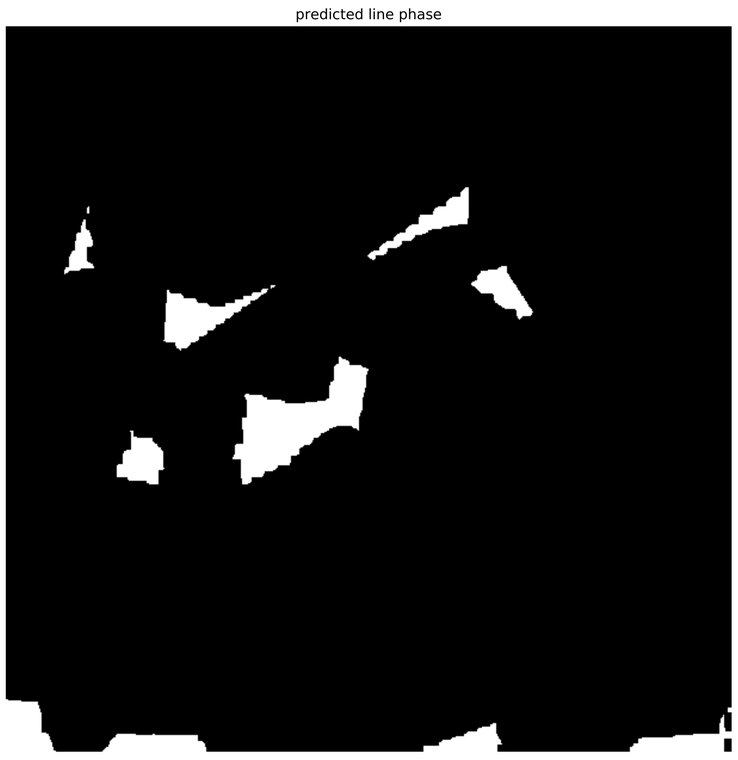
predicted grain boundary



correct line phase



predicted line phase



correct dark phase

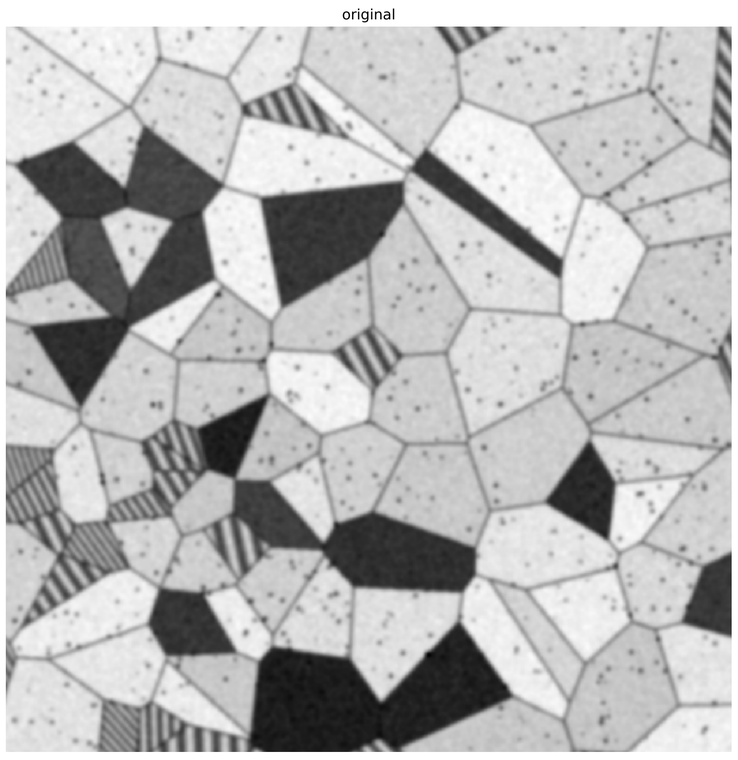
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_159.png

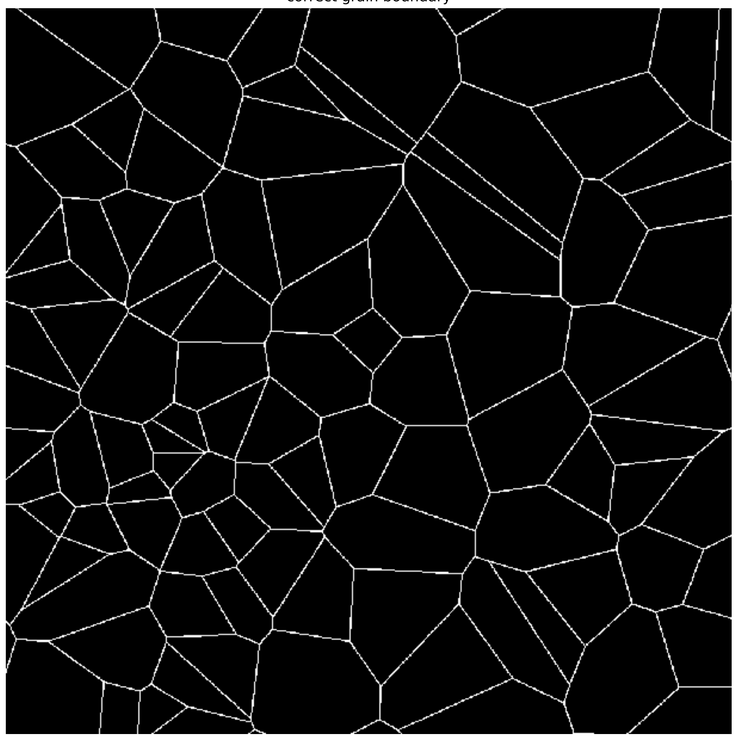
original



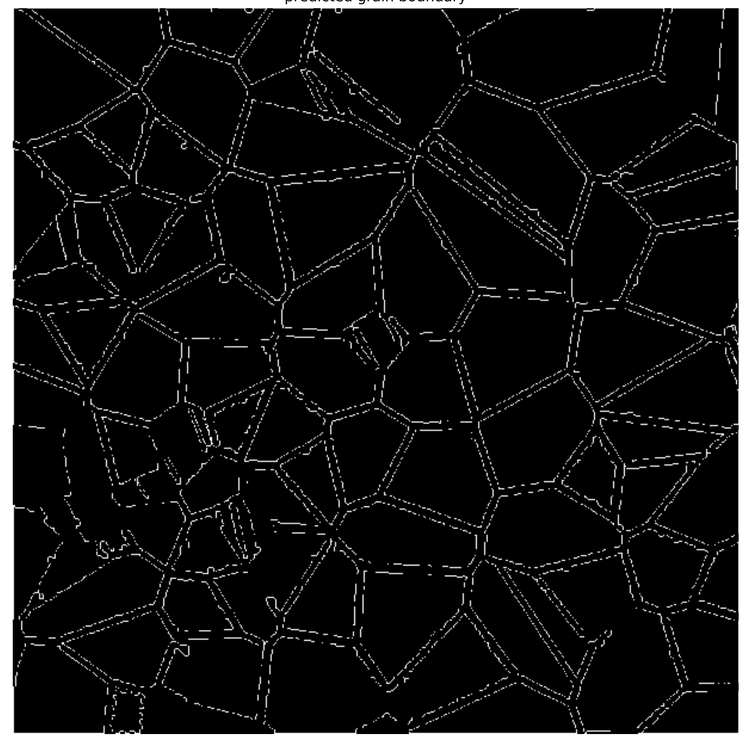
metrics

metric	correct	predicted	error
dark frac	0.157	0.151	0.638%
white frac	0.781	0.743	3.786%
line frac	0.062	0.044	1.740%
ave grain diameter	107.190	95.701	10.718%

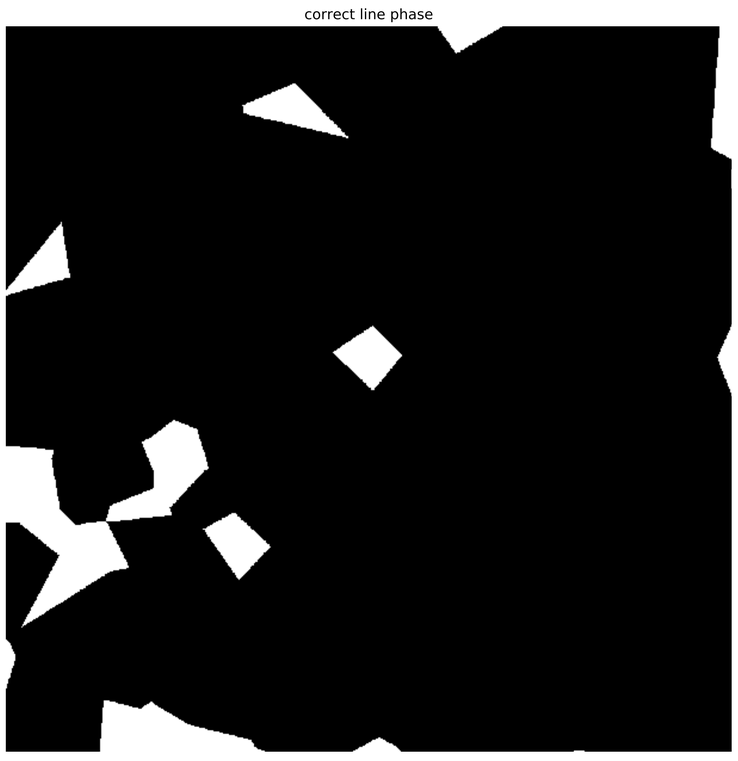
correct grain boundary



predicted grain boundary

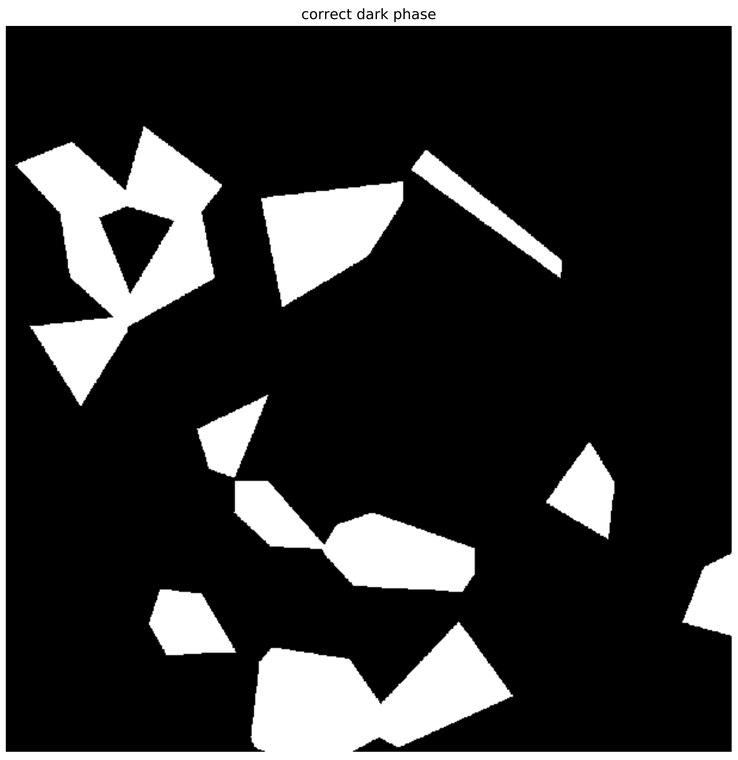


correct line phase

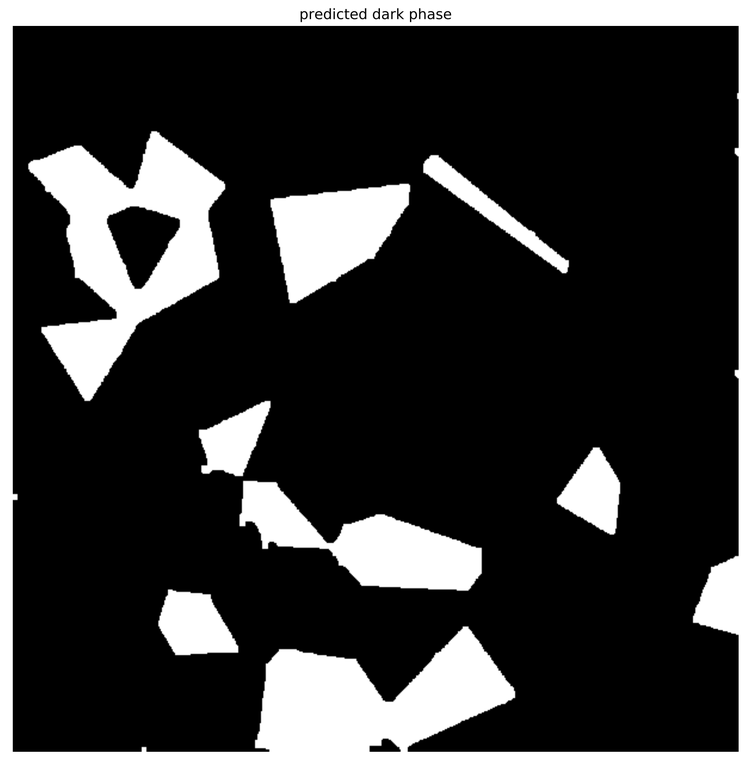


predicted line phase

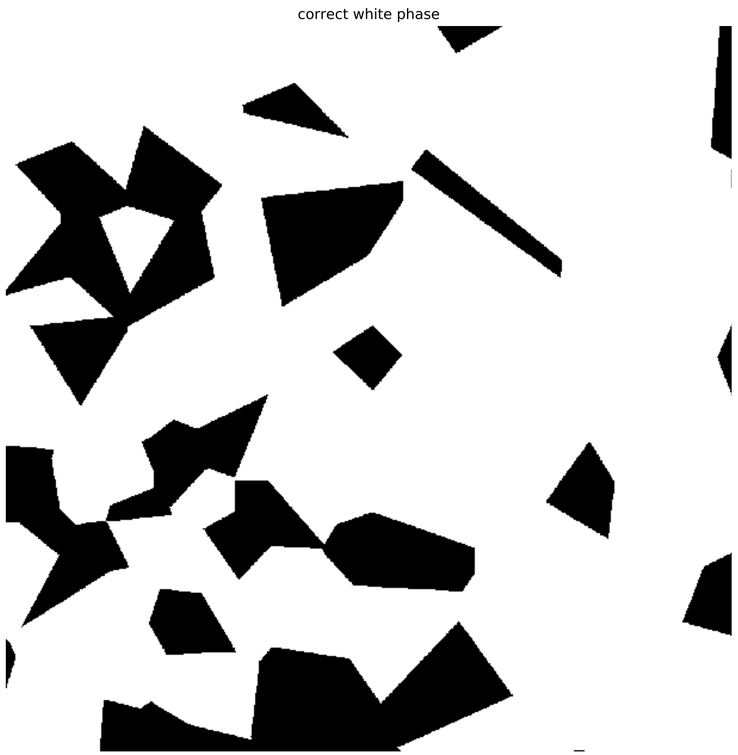
correct dark phase



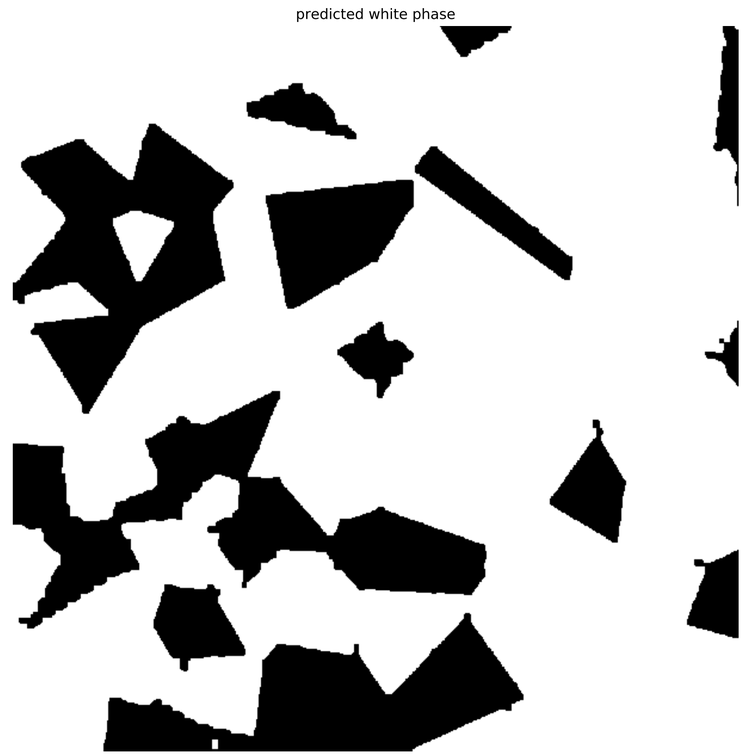
predicted dark phase



correct white phase

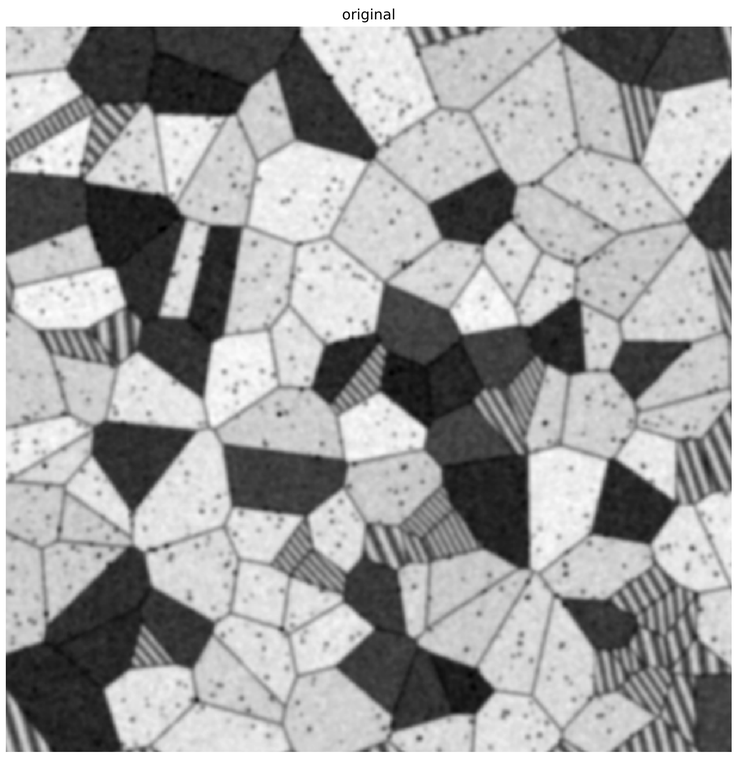


predicted white phase



data/base microstructure/image_16.png

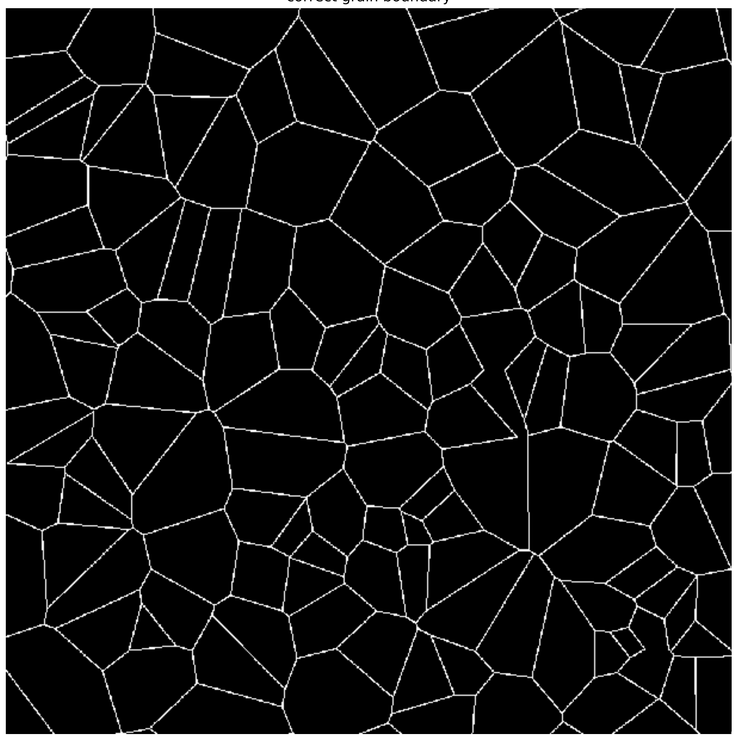
original



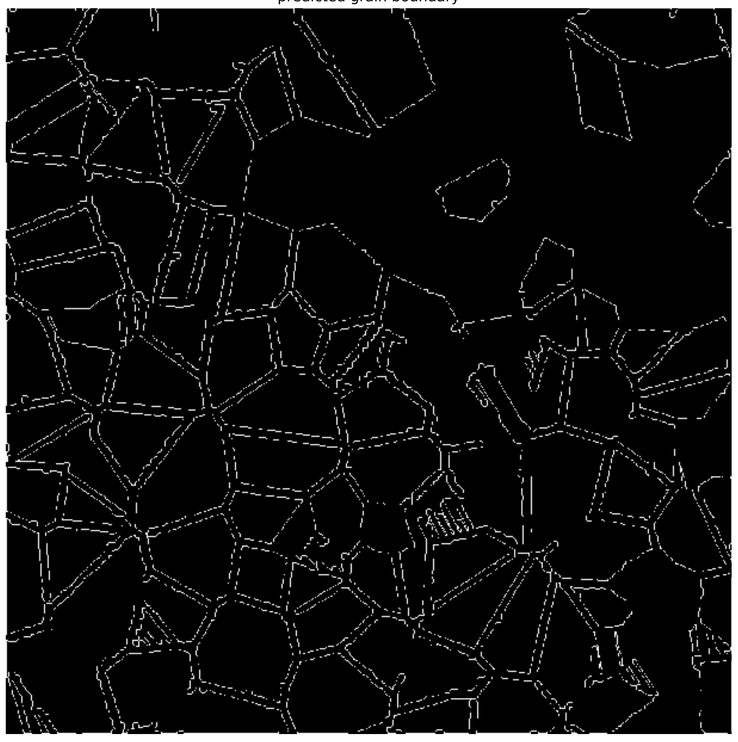
metrics

metric	correct	predicted	error
dark frac	0.269	0.263	0.555%
white frac	0.644	0.596	4.760%
line frac	0.088	0.059	2.881%
ave grain diameter	91.496	80.833	11.653%

correct grain boundary



predicted grain boundary



correct line phase

predicted line phase

correct dark phase

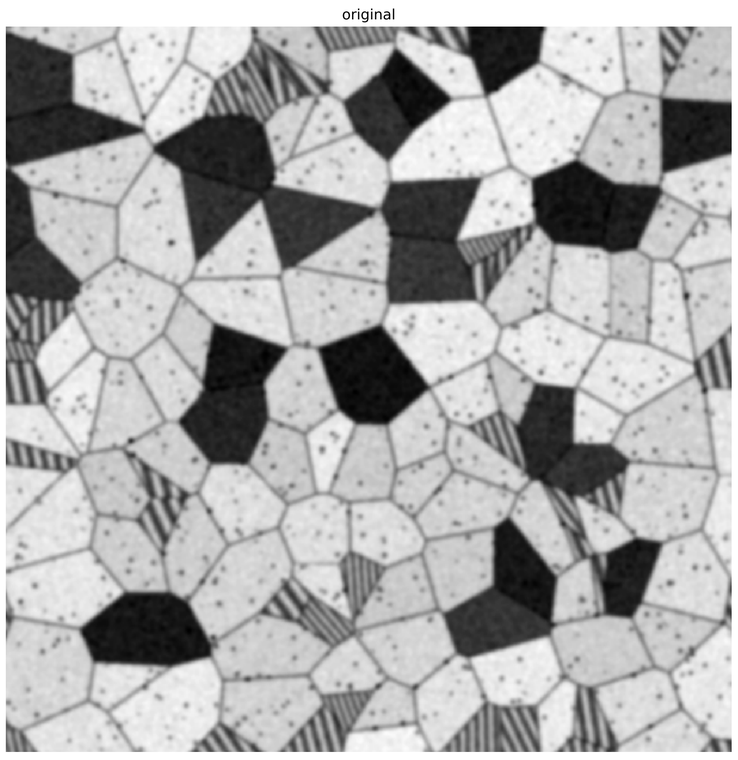
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_160.png

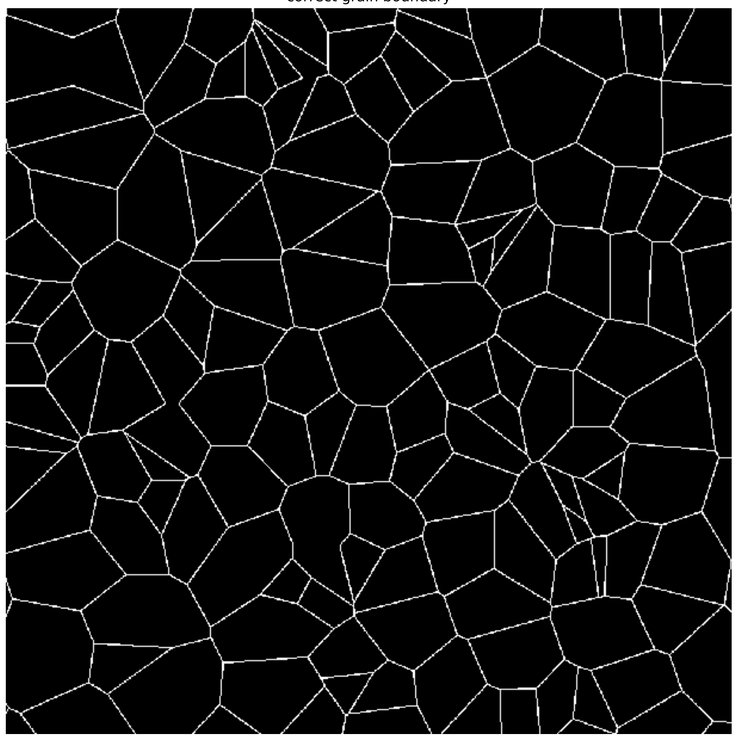
original



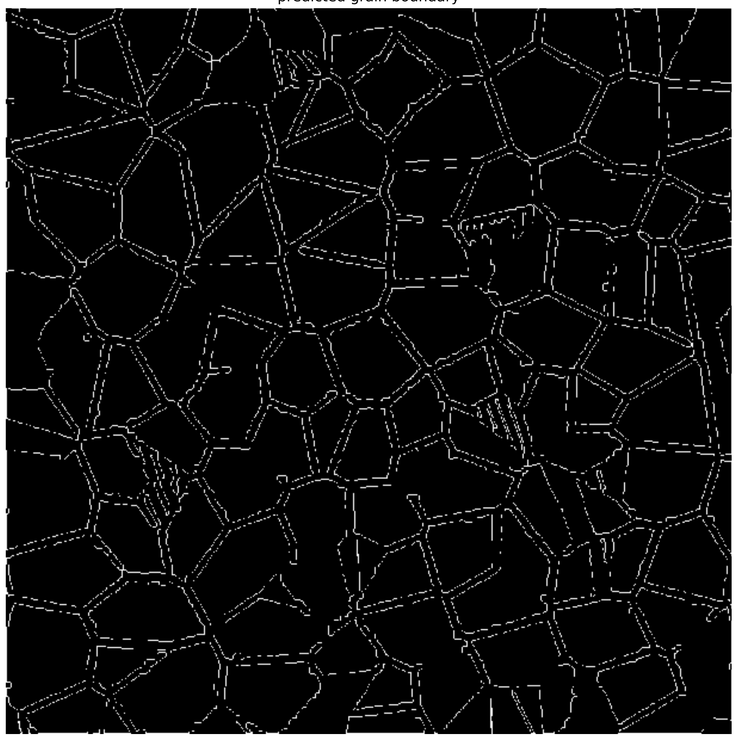
metrics

metric	correct	predicted	error
dark frac	0.193	0.186	0.620%
white frac	0.729	0.681	4.767%
line frac	0.078	0.054	2.415%
ave grain diameter	87.796	84.425	3.840%

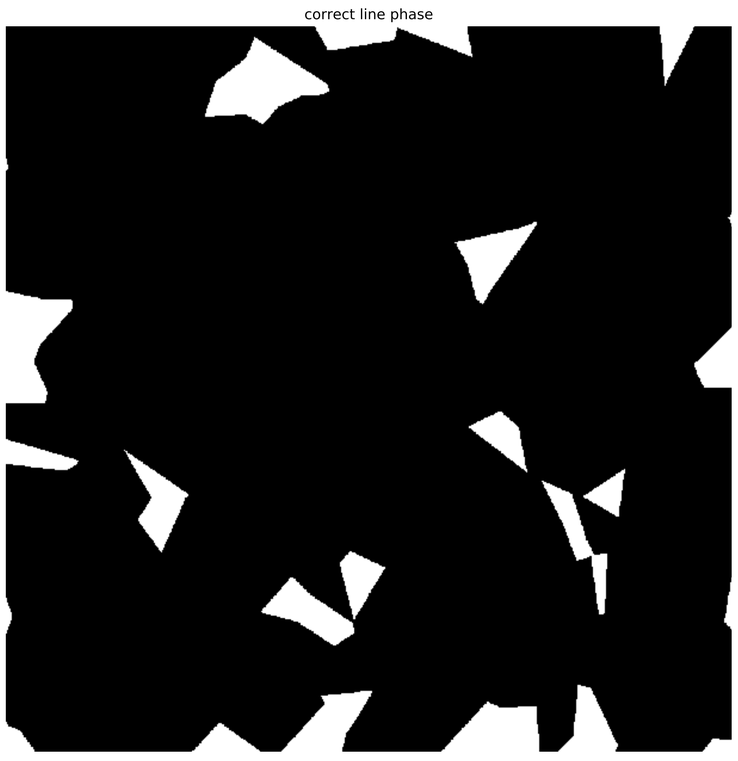
correct grain boundary



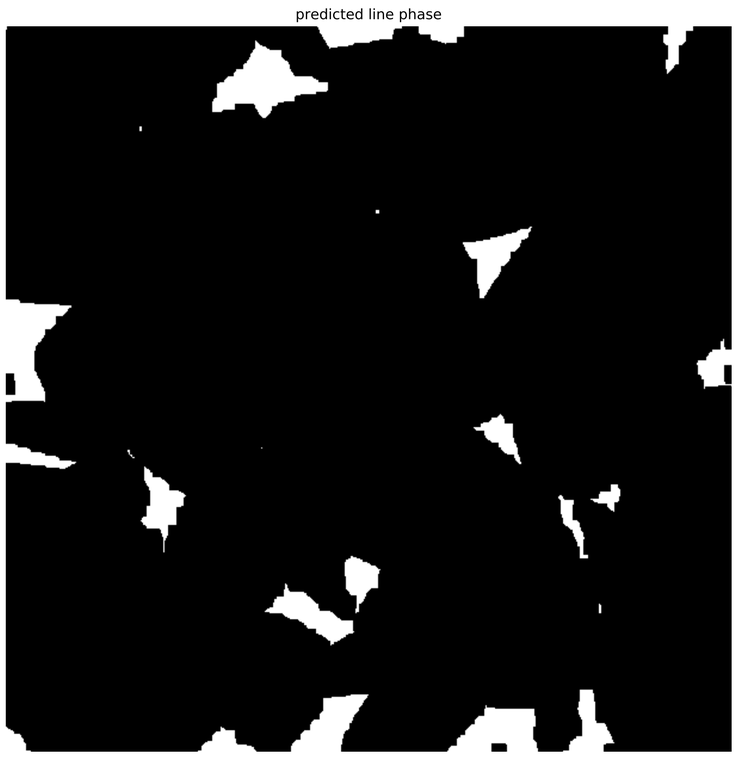
predicted grain boundary



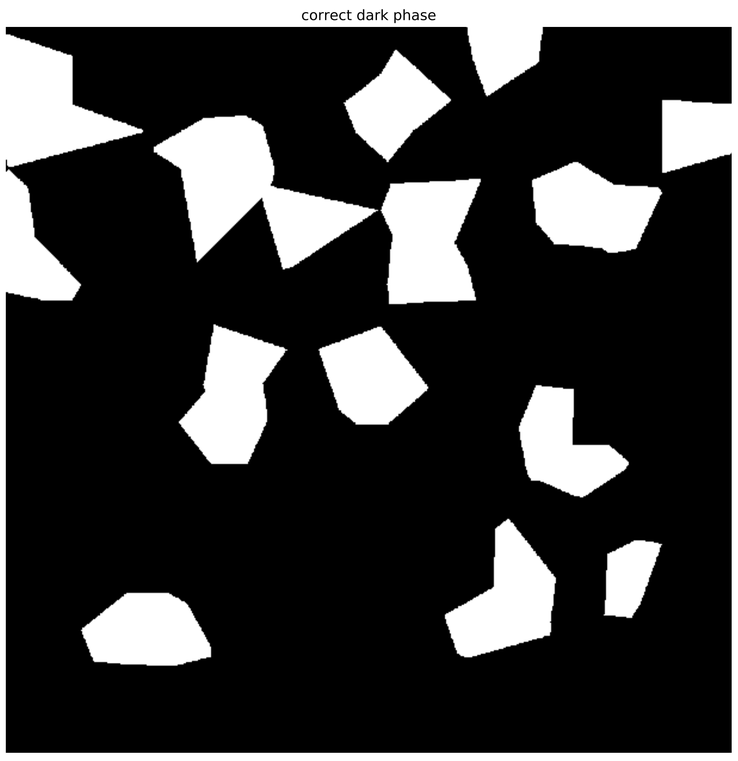
correct line phase



predicted line phase

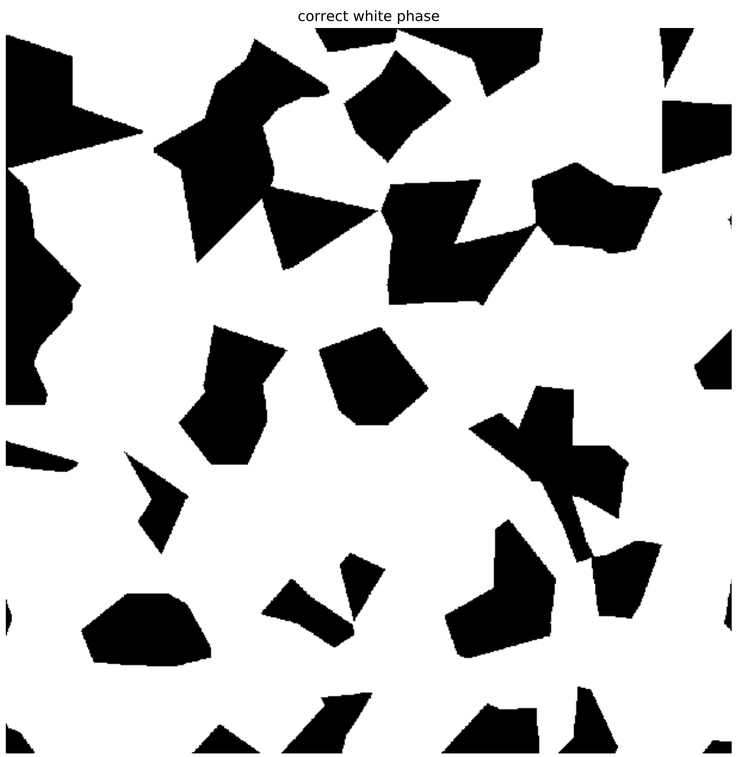


correct dark phase



predicted dark phase

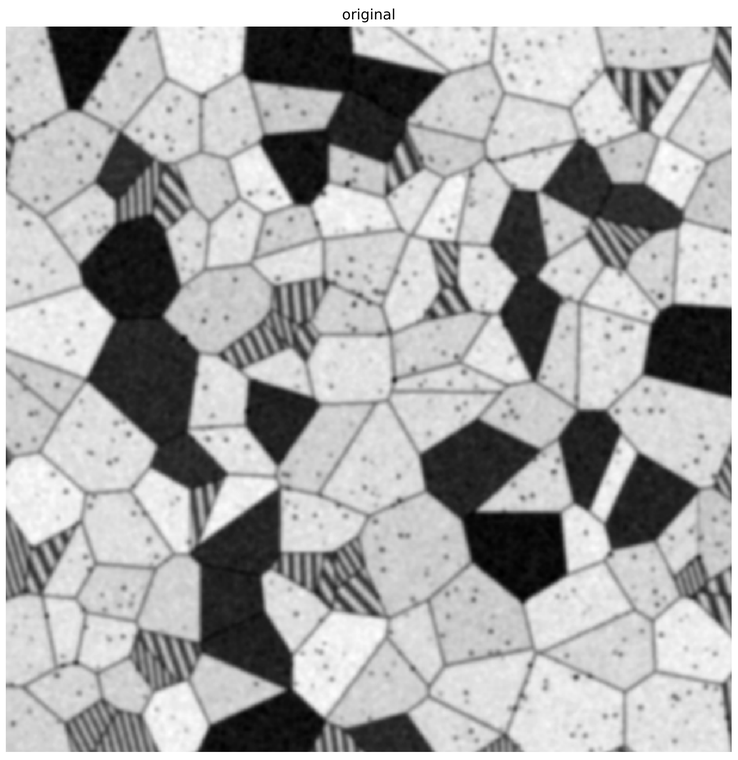
correct white phase



predicted white phase

data/base microstructure/image_161.png

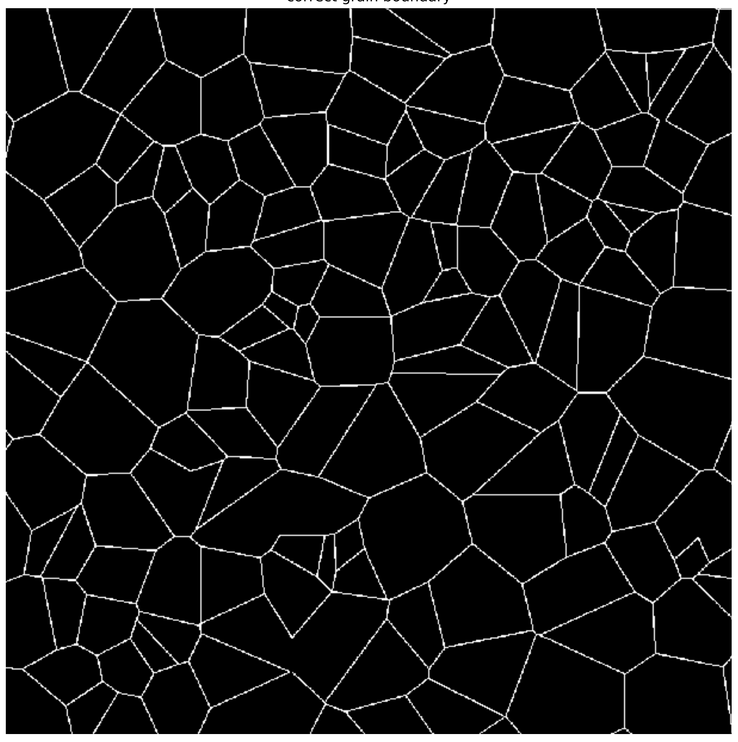
original



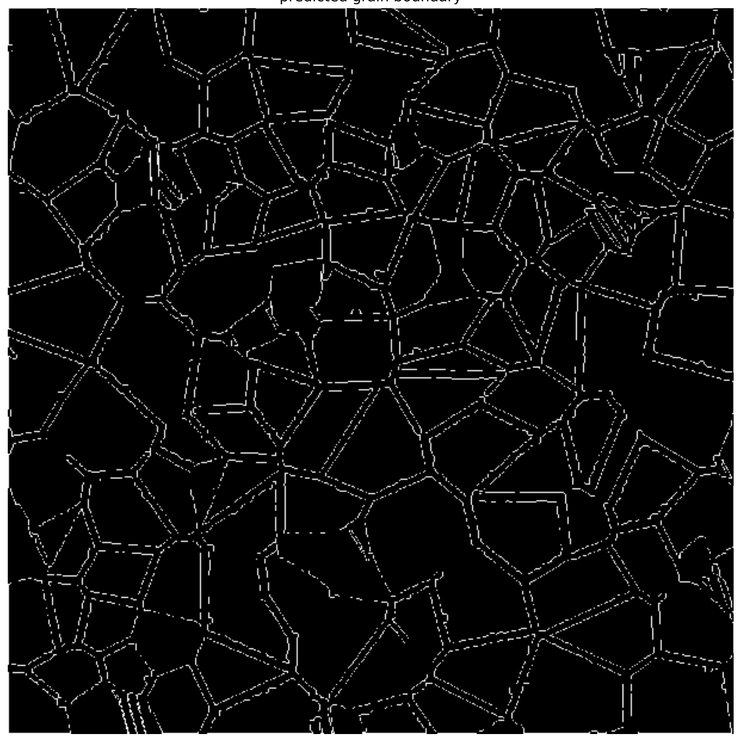
metrics

metric	correct	predicted	error
dark frac	0.202	0.193	0.901%
white frac	0.729	0.684	4.425%
line frac	0.069	0.048	2.147%
ave grain diameter	87.573	77.500	11.503%

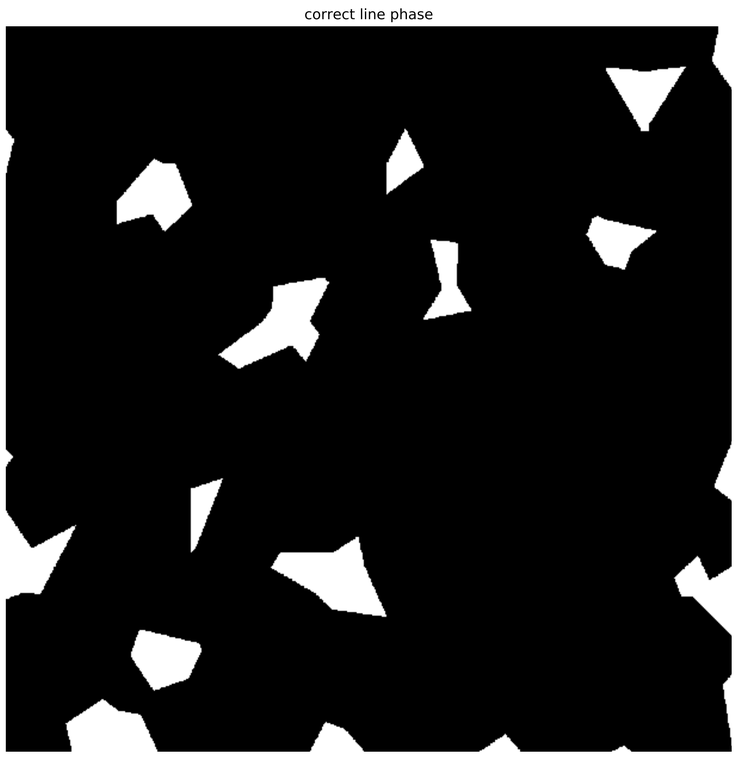
correct grain boundary



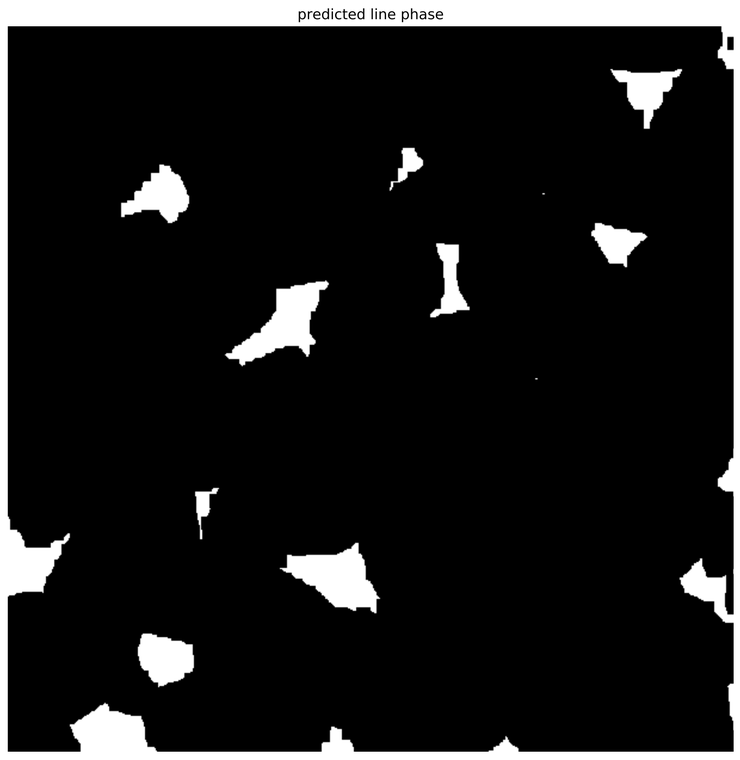
predicted grain boundary



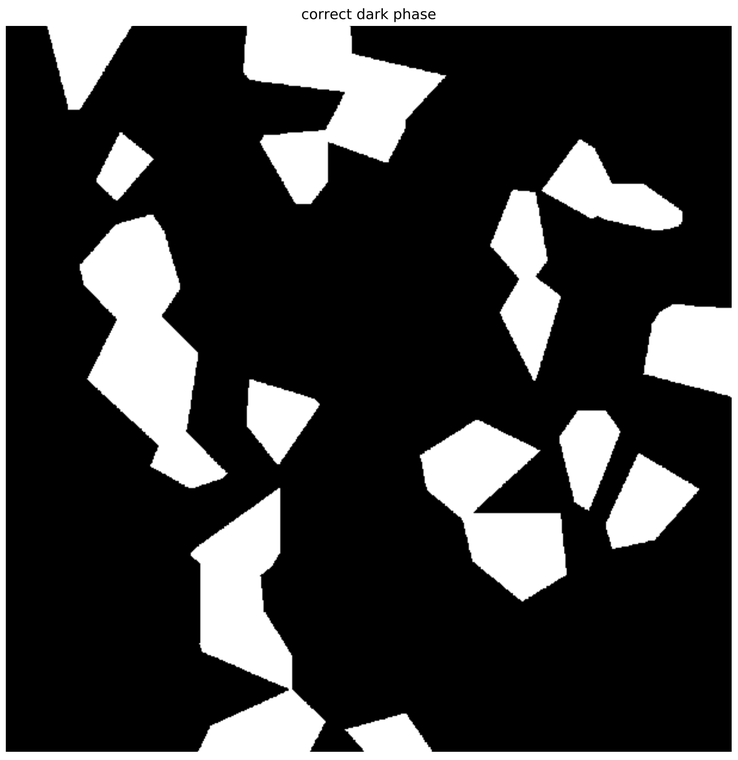
correct line phase



predicted line phase

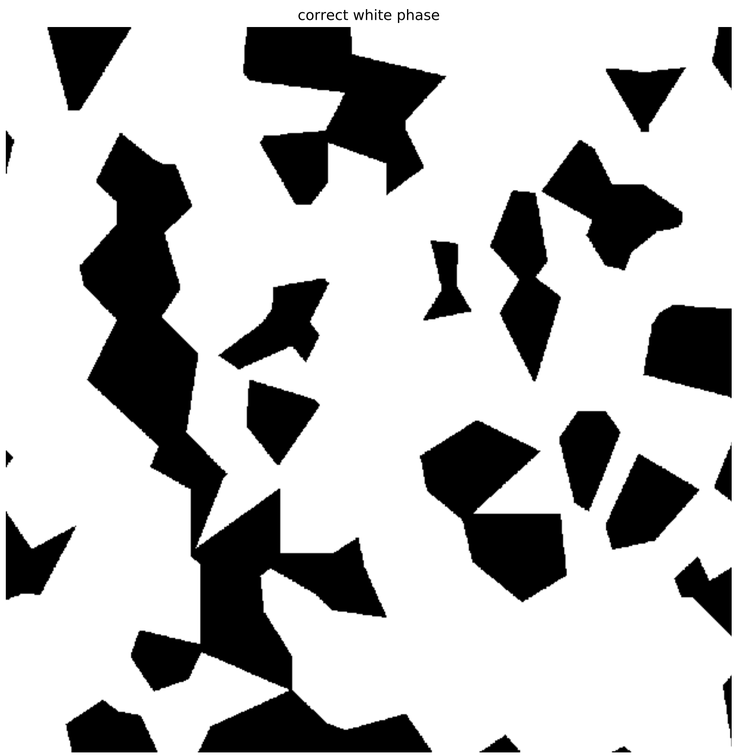


correct dark phase

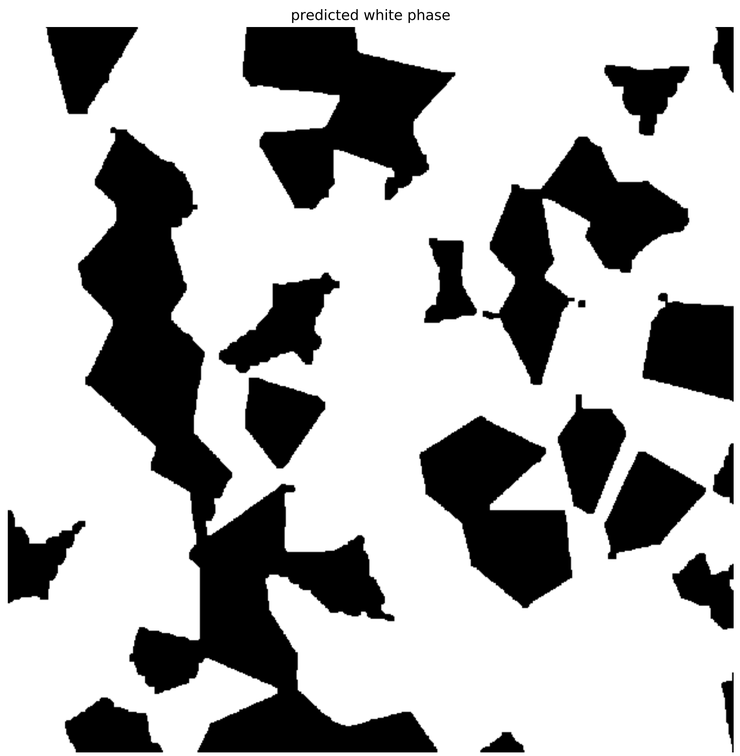


predicted dark phase

correct white phase

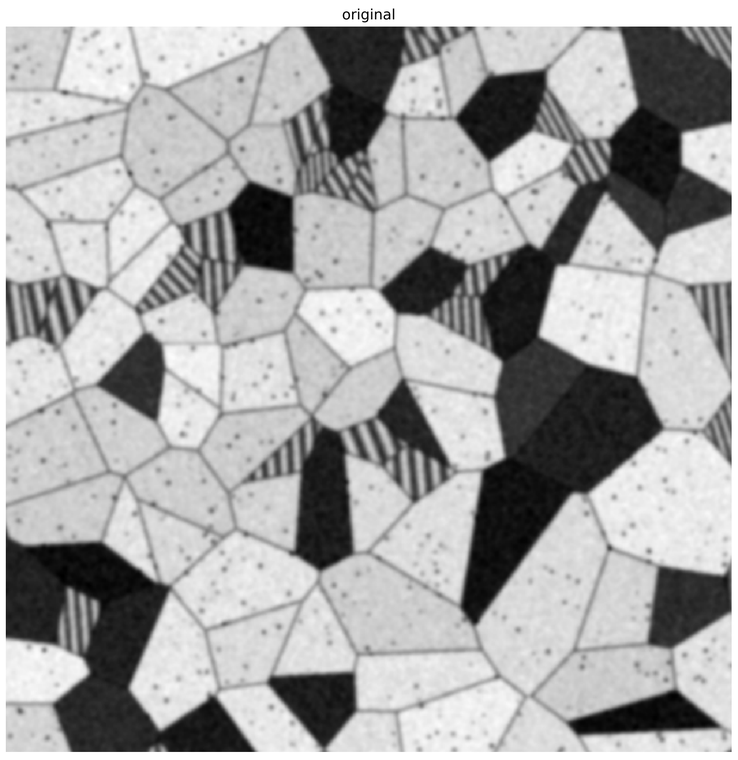


predicted white phase



data/base microstructure/image_162.png

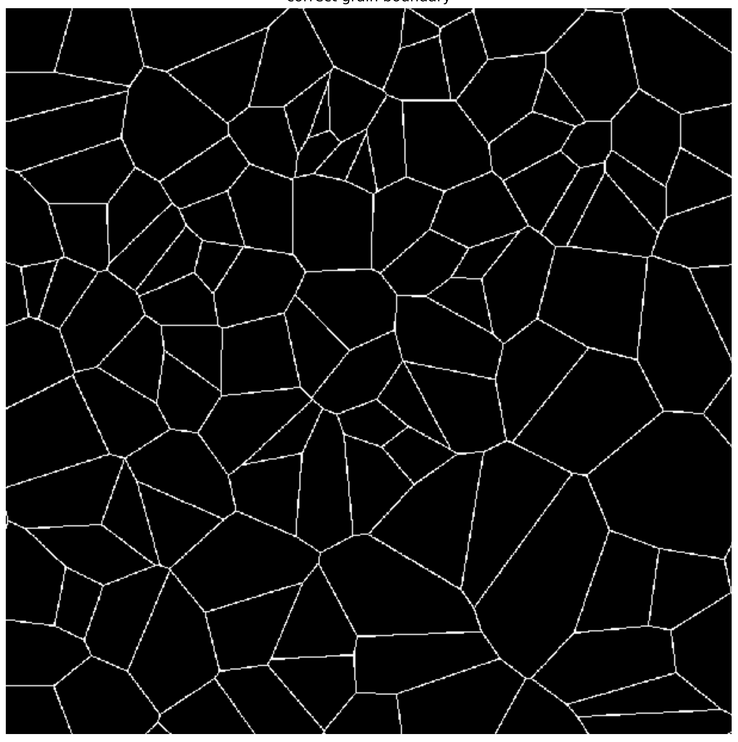
original



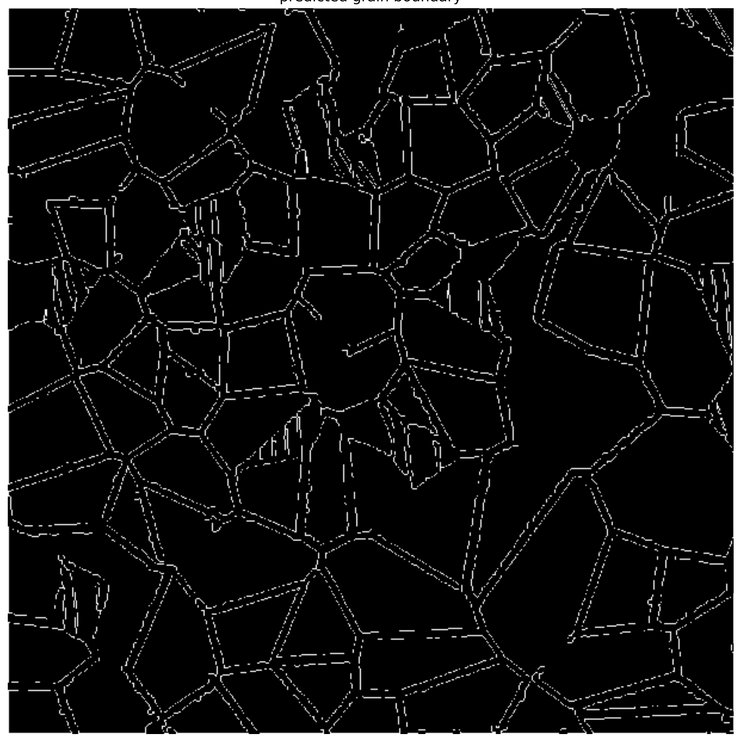
metrics

metric	correct	predicted	error
dark frac	0.226	0.220	0.678%
white frac	0.703	0.668	3.553%
line frac	0.070	0.045	2.553%
ave grain diameter	98.392	93.519	4.953%

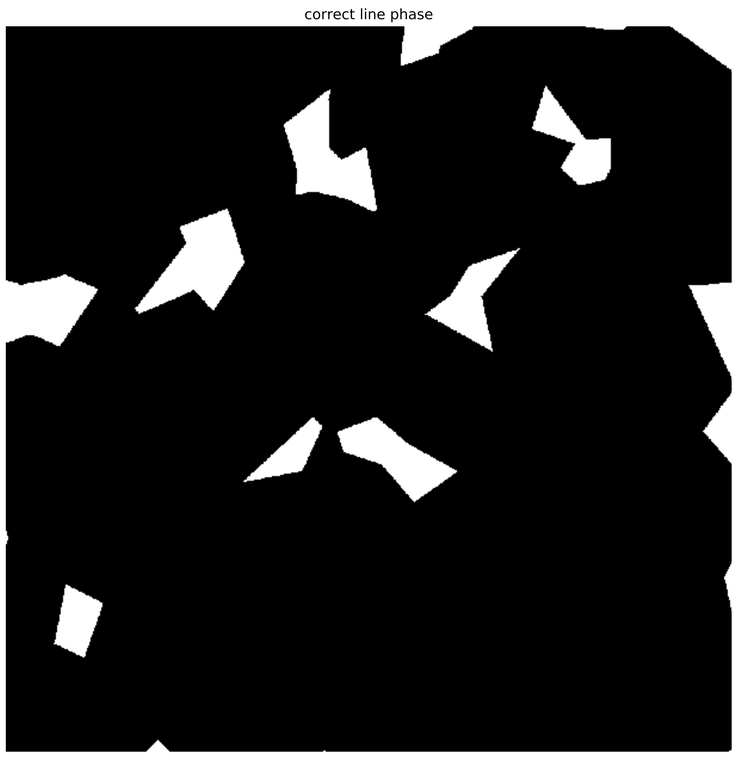
correct grain boundary



predicted grain boundary



correct line phase

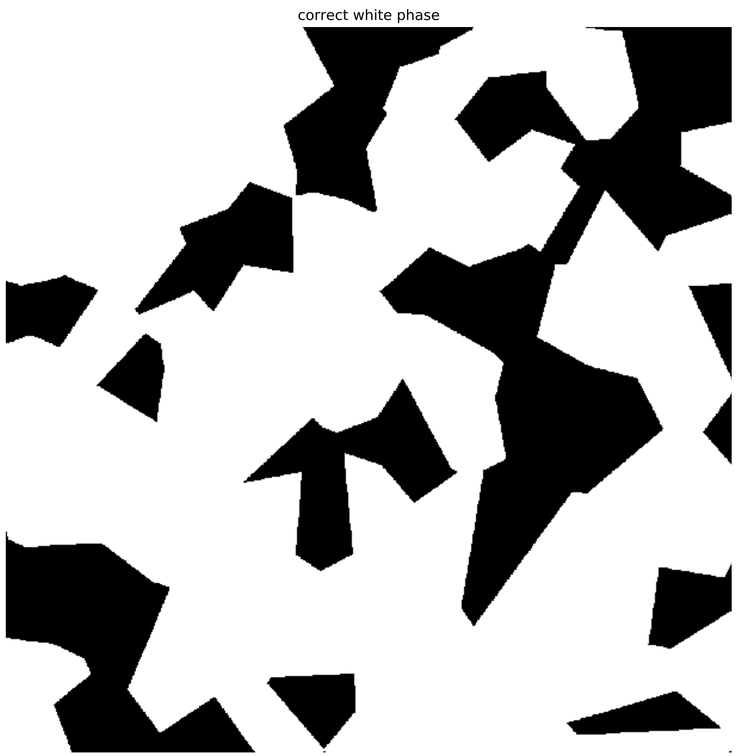


predicted line phase

correct dark phase

predicted dark phase

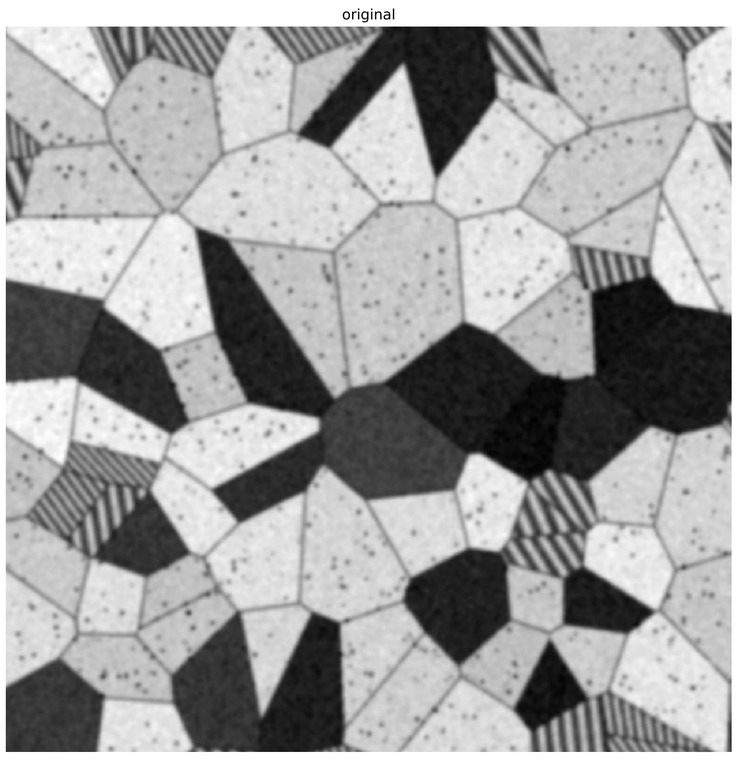
correct white phase



predicted white phase

data/base microstructure/image_163.png

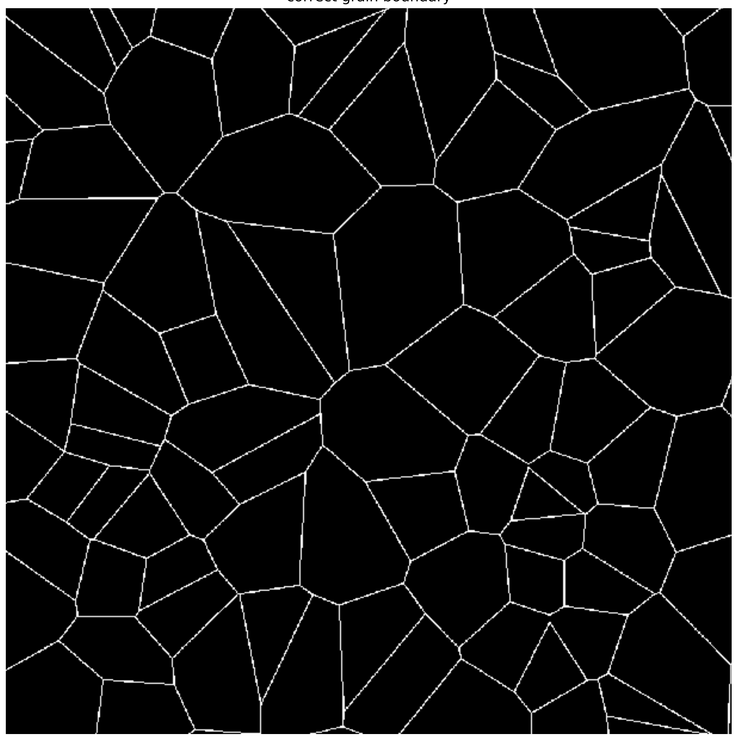
original



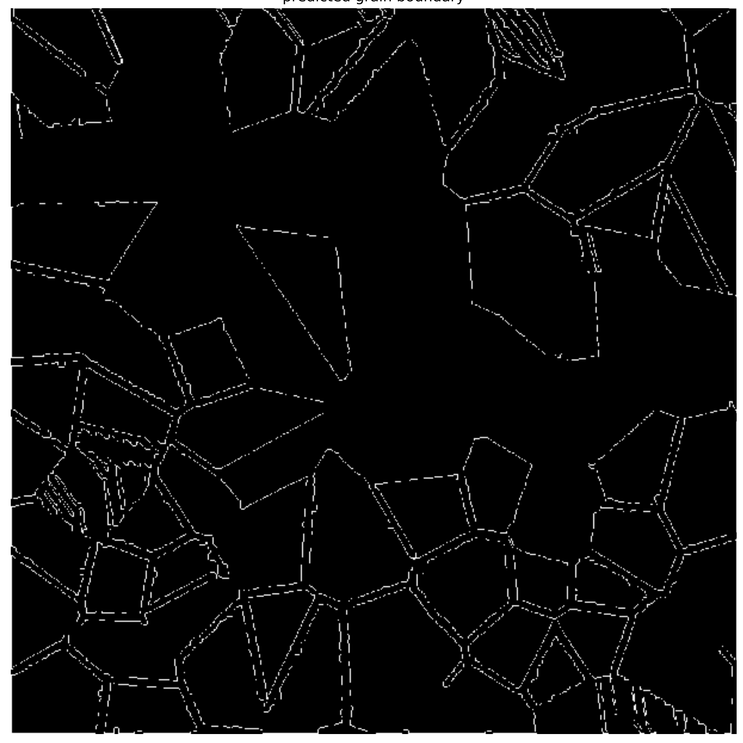
metrics

metric	correct	predicted	error
dark frac	0.261	0.253	0.831%
white frac	0.664	0.629	3.442%
line frac	0.075	0.057	1.848%
ave grain diameter	113.699	101.268	10.933%

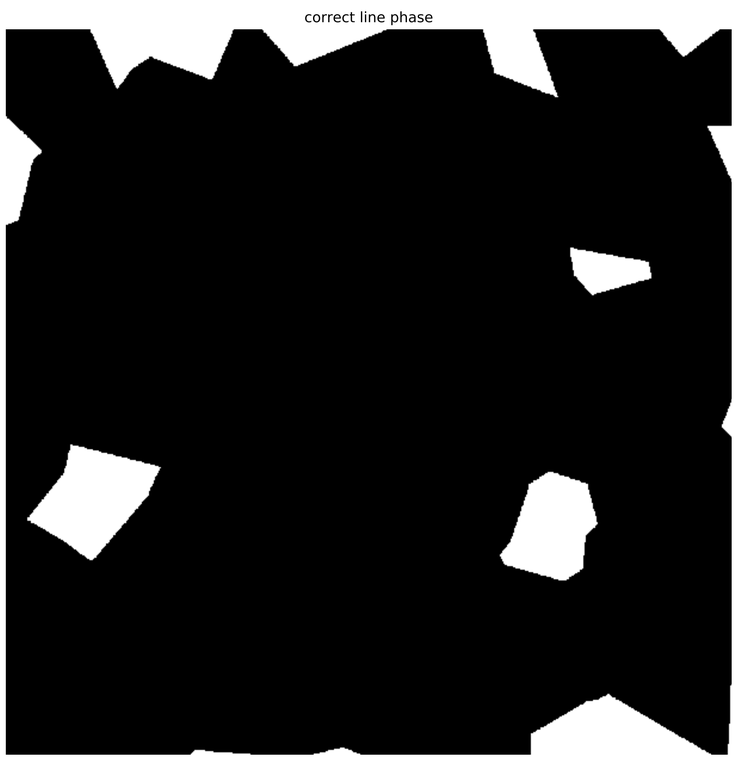
correct grain boundary



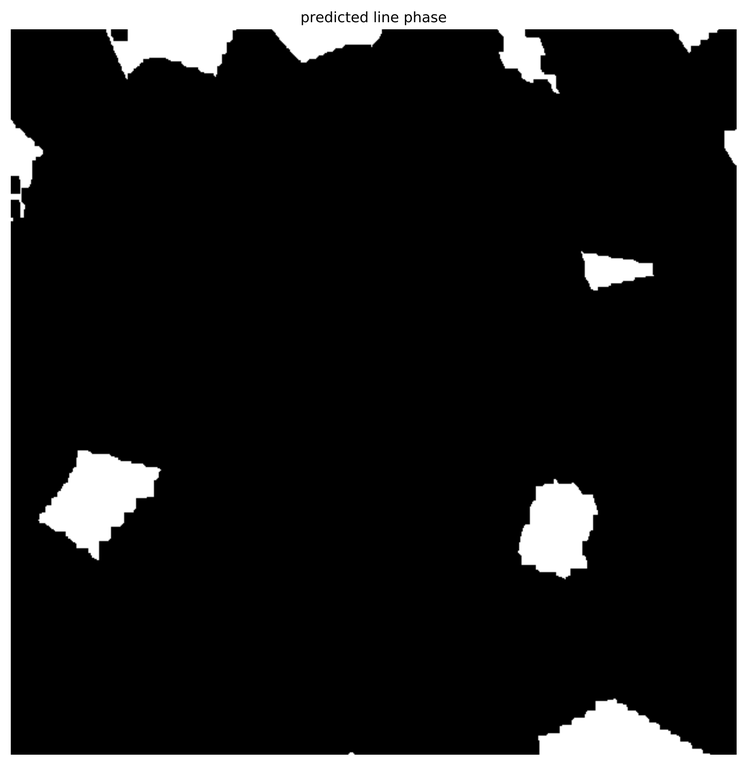
predicted grain boundary



correct line phase



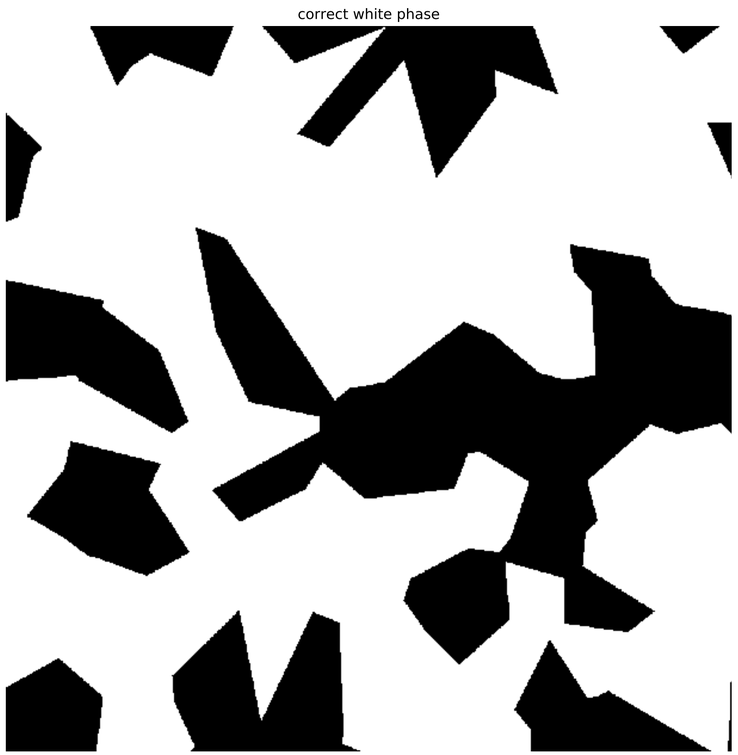
predicted line phase



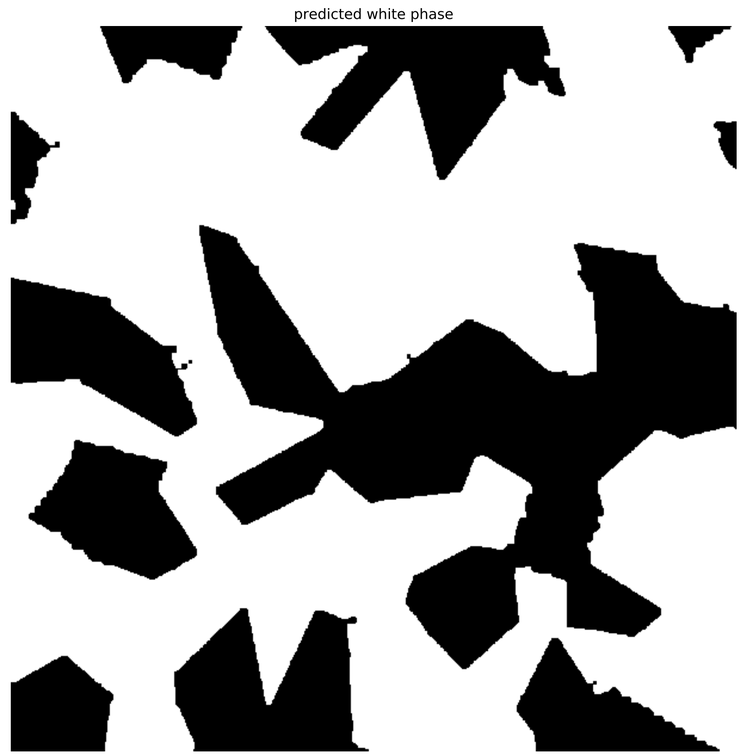
correct dark phase

predicted dark phase

correct white phase

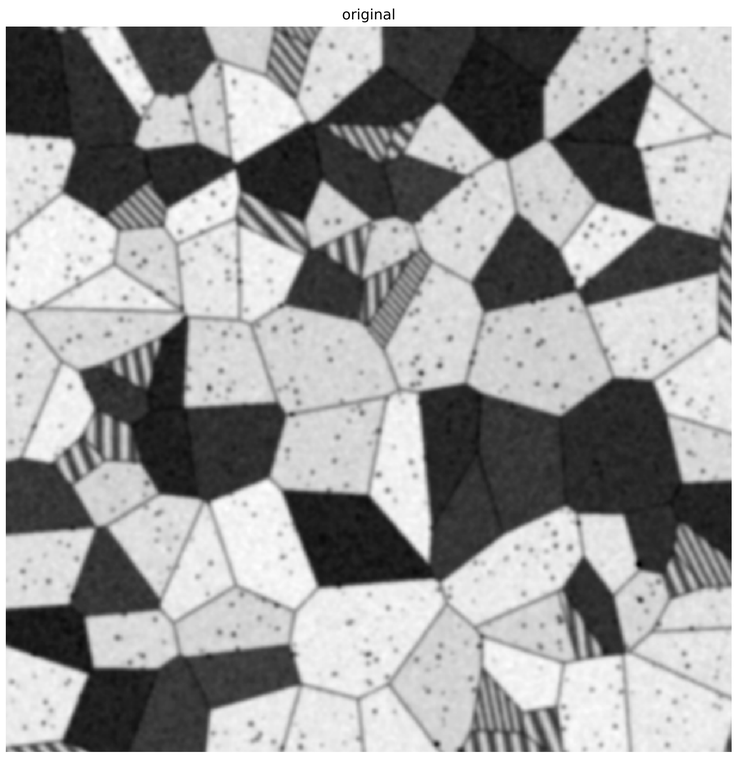


predicted white phase



data/base microstructure/image_164.png

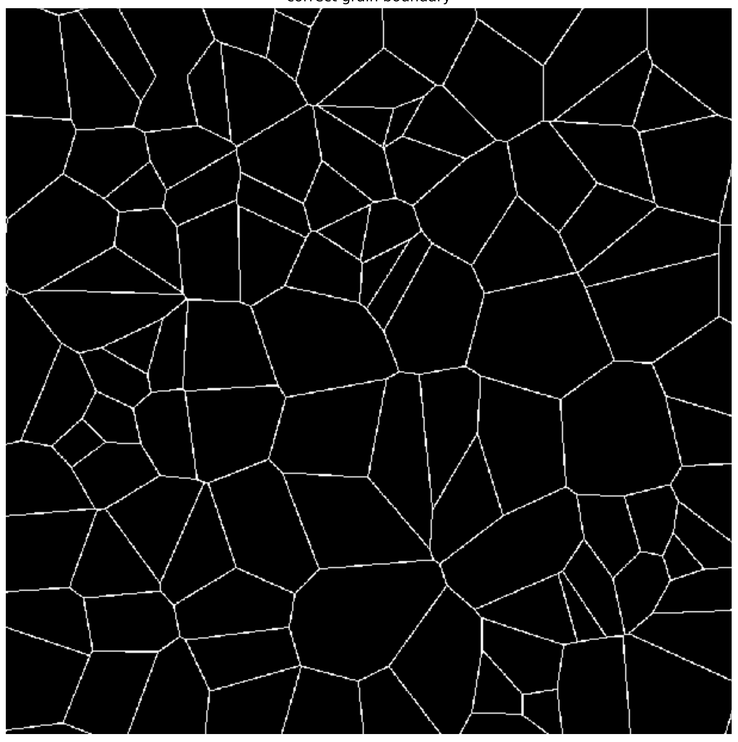
original



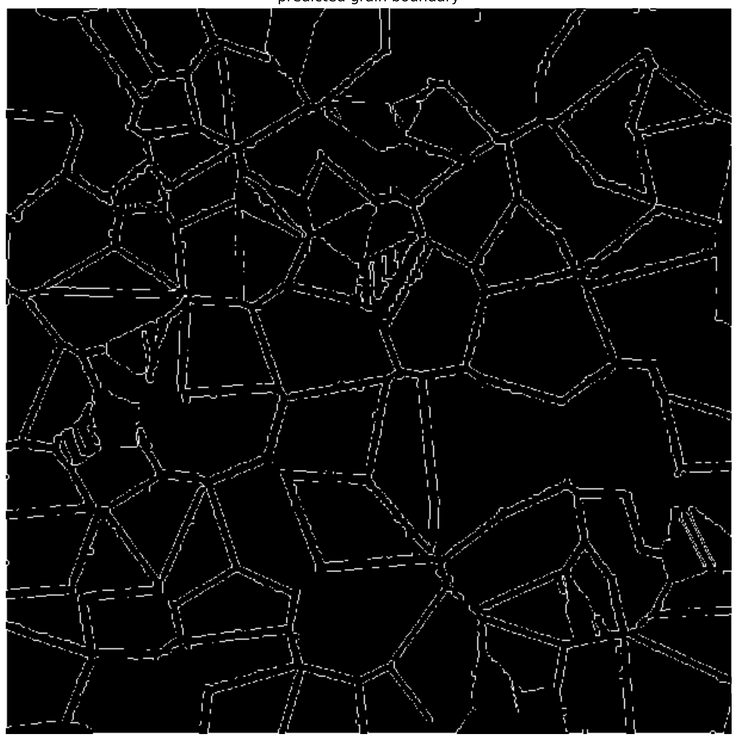
metrics

metric	correct	predicted	error
dark frac	0.334	0.326	0.827%
white frac	0.608	0.563	4.515%
line frac	0.058	0.034	2.326%
ave grain diameter	102.558	101.382	1.147%

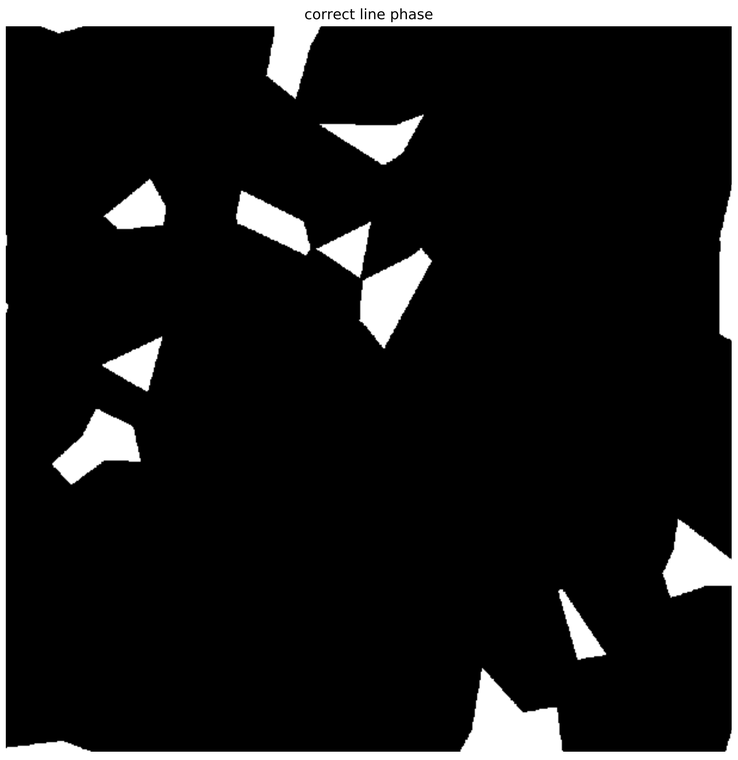
correct grain boundary



predicted grain boundary



correct line phase

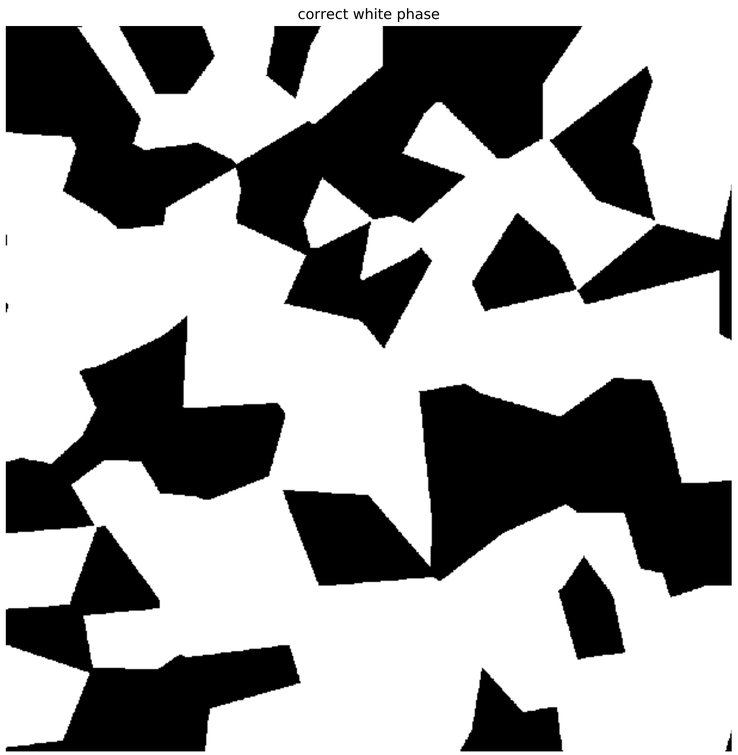


predicted line phase

correct dark phase

predicted dark phase

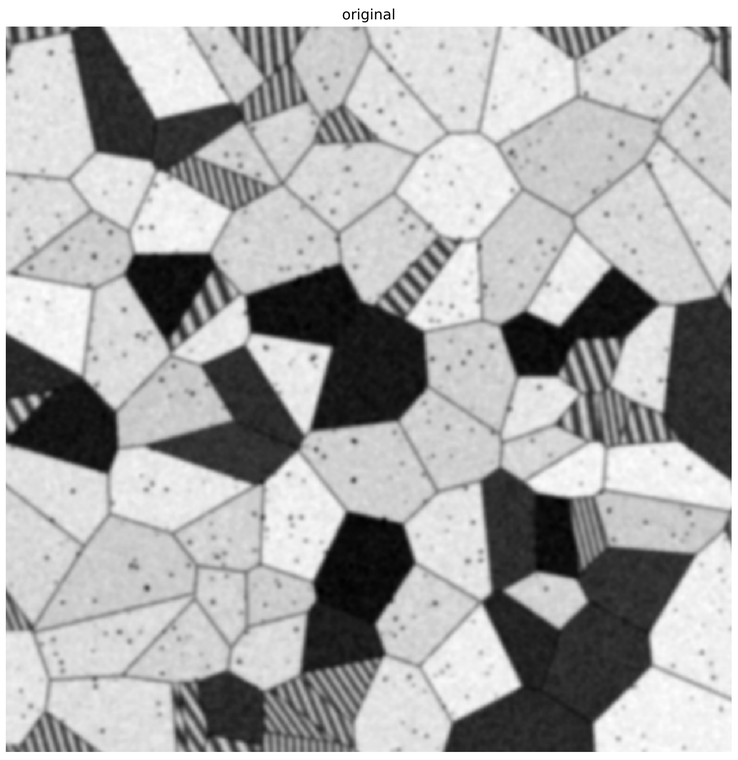
correct white phase



predicted white phase

data/base microstructure/image_165.png

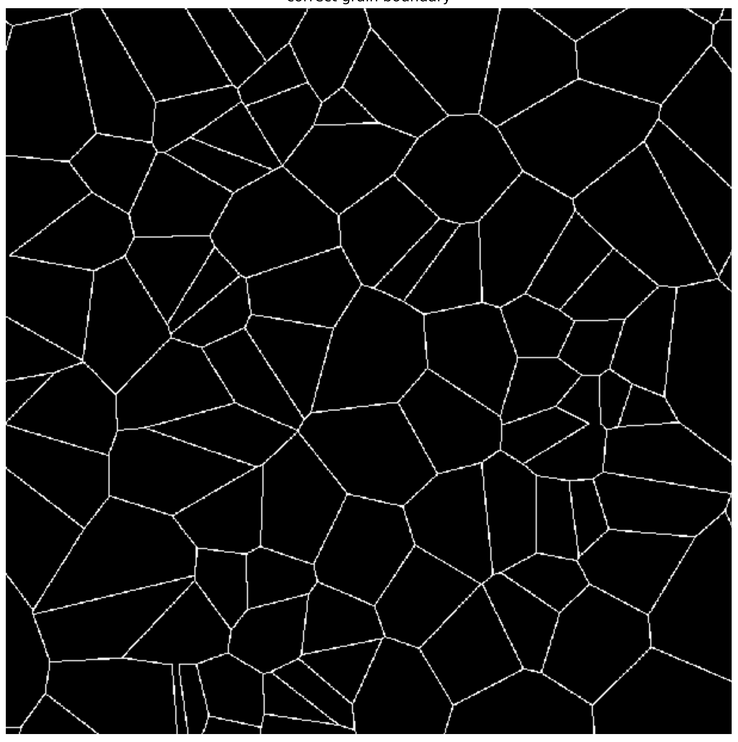
original



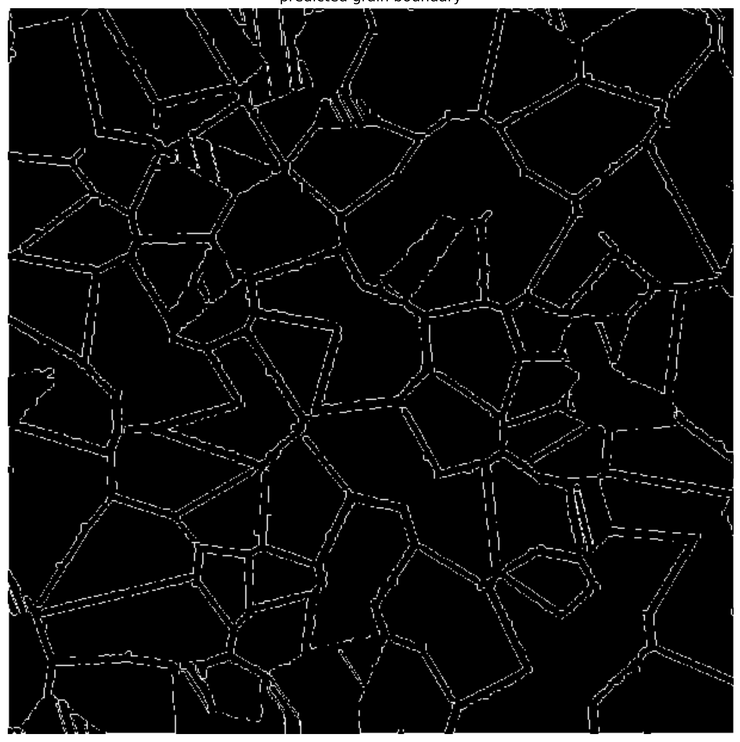
metrics

metric	correct	predicted	error
dark frac	0.217	0.210	0.658%
white frac	0.707	0.673	3.386%
line frac	0.076	0.052	2.481%
ave grain diameter	106.401	110.086	3.463%

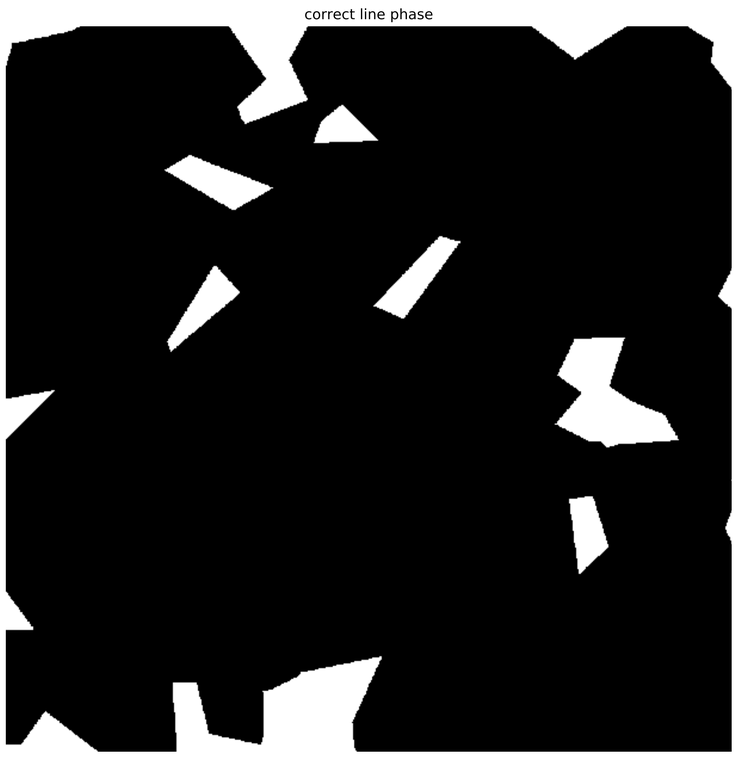
correct grain boundary



predicted grain boundary



correct line phase



predicted line phase

correct dark phase

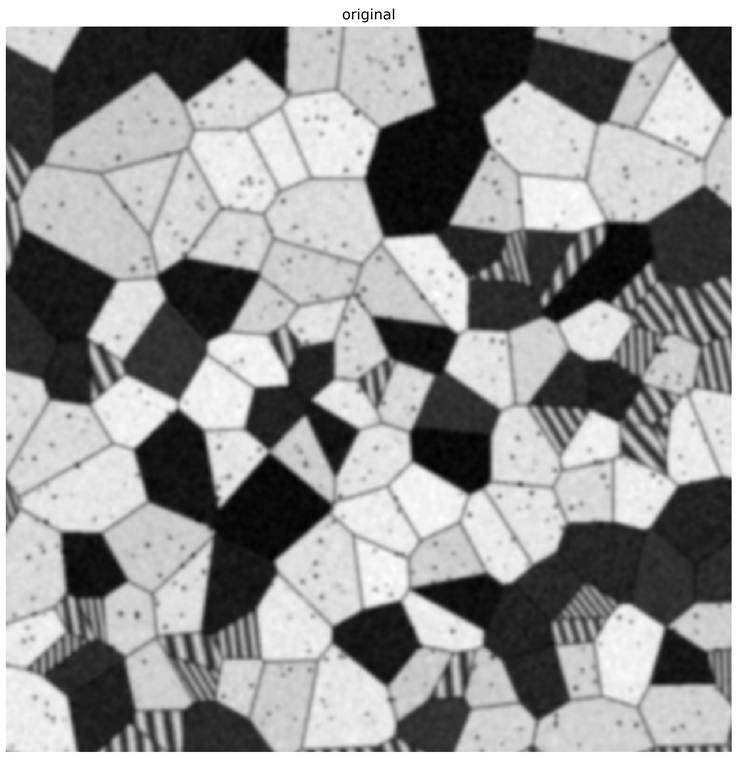
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_166.png

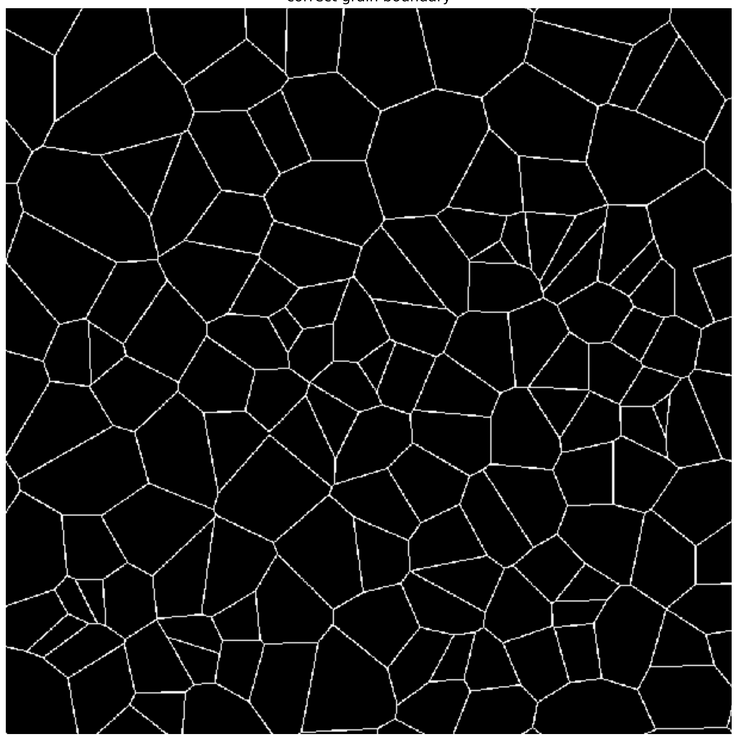
original



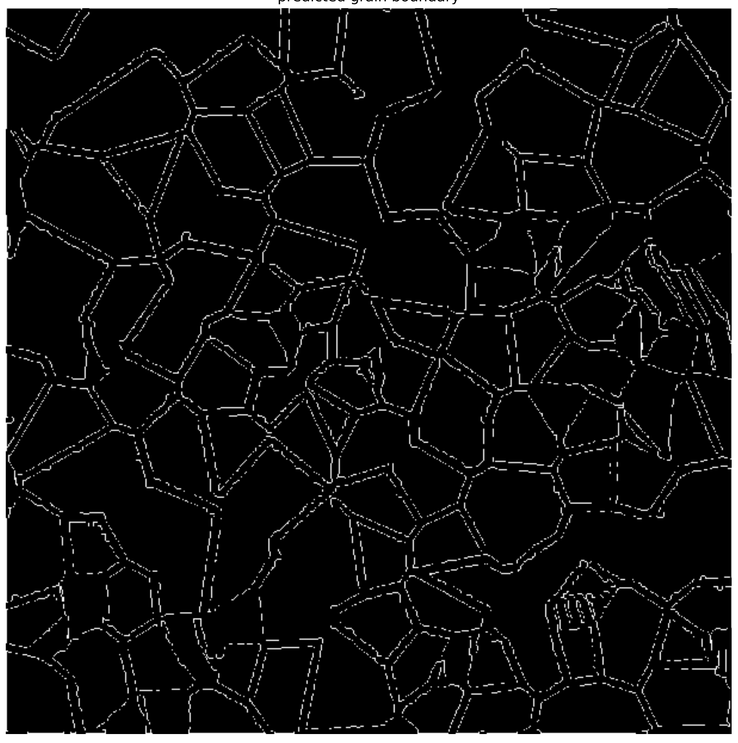
metrics

metric	correct	predicted	error
dark frac	0.336	0.325	1.153%
white frac	0.589	0.546	4.266%
line frac	0.075	0.041	3.338%
ave grain diameter	87.727	86.644	1.234%

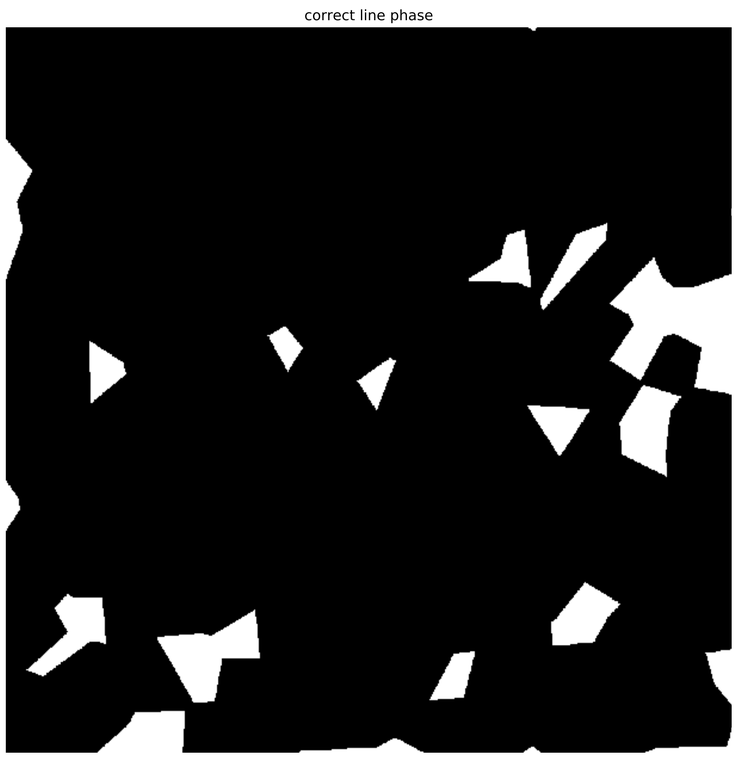
correct grain boundary



predicted grain boundary



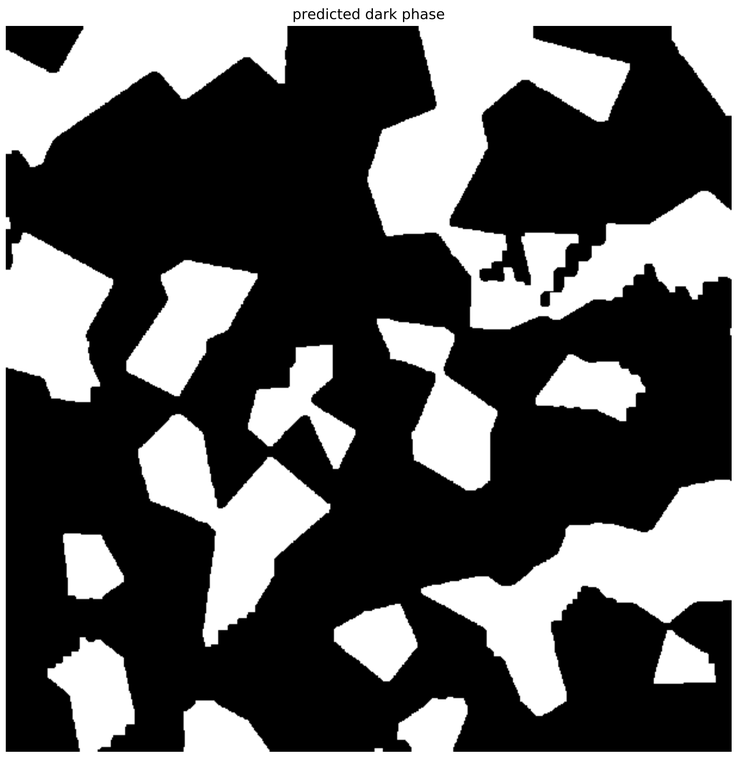
correct line phase



predicted line phase

correct dark phase

predicted dark phase

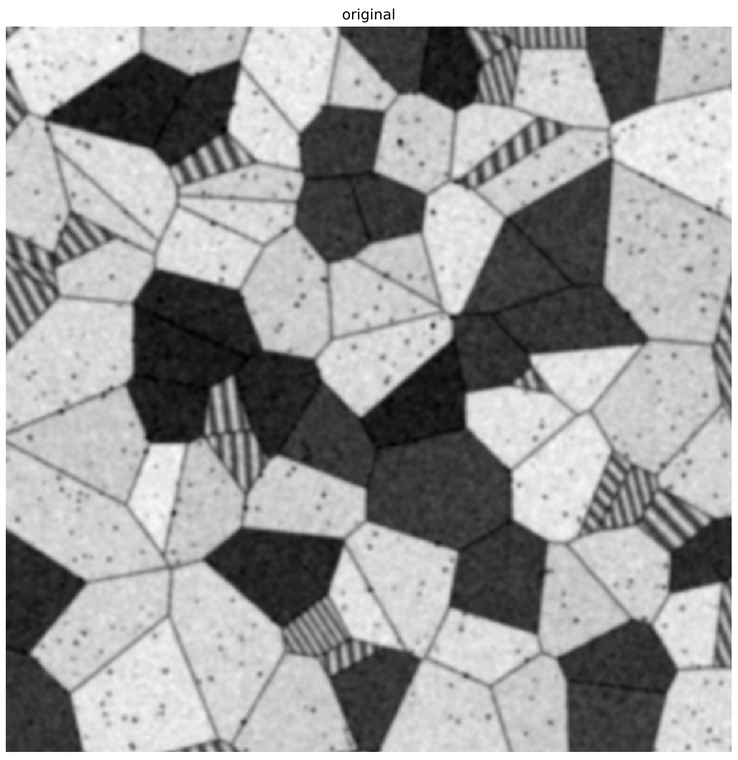


correct white phase

predicted white phase

data/base microstructure/image_167.png

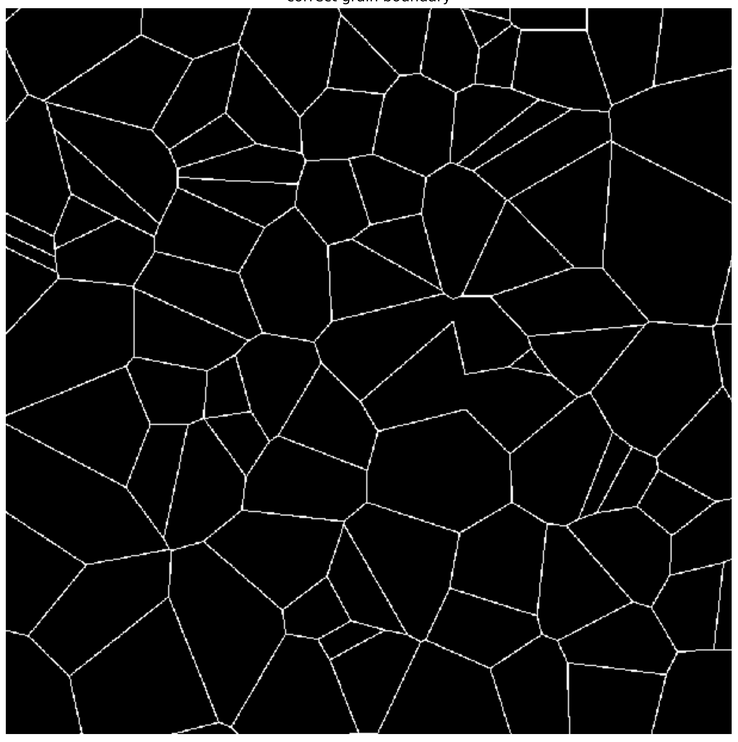
original



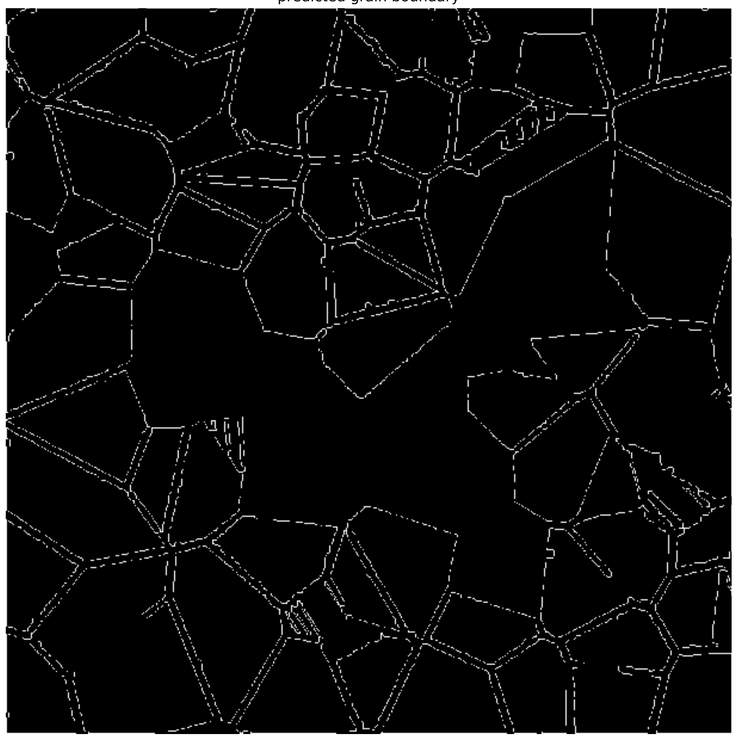
metrics

metric	correct	predicted	error
dark frac	0.296	0.291	0.502%
white frac	0.639	0.594	4.466%
line frac	0.065	0.046	1.920%
ave grain diameter	110.706	101.241	8.549%

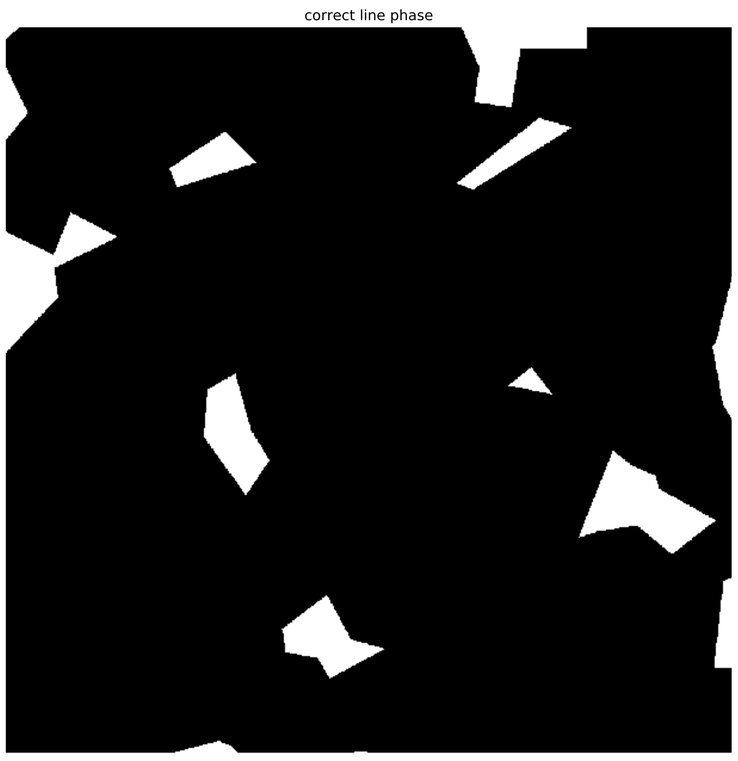
correct grain boundary



predicted grain boundary



correct line phase

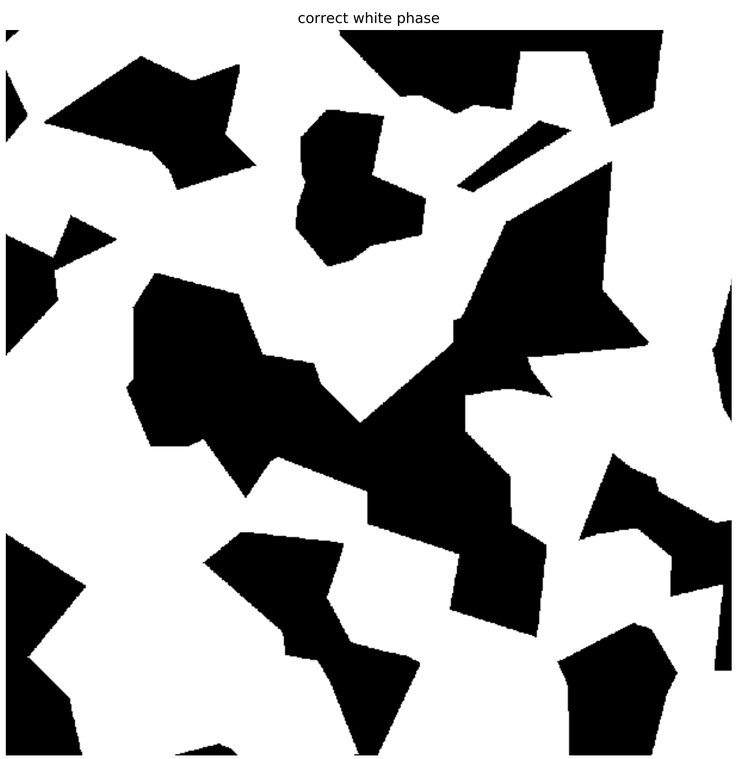


predicted line phase

correct dark phase

predicted dark phase

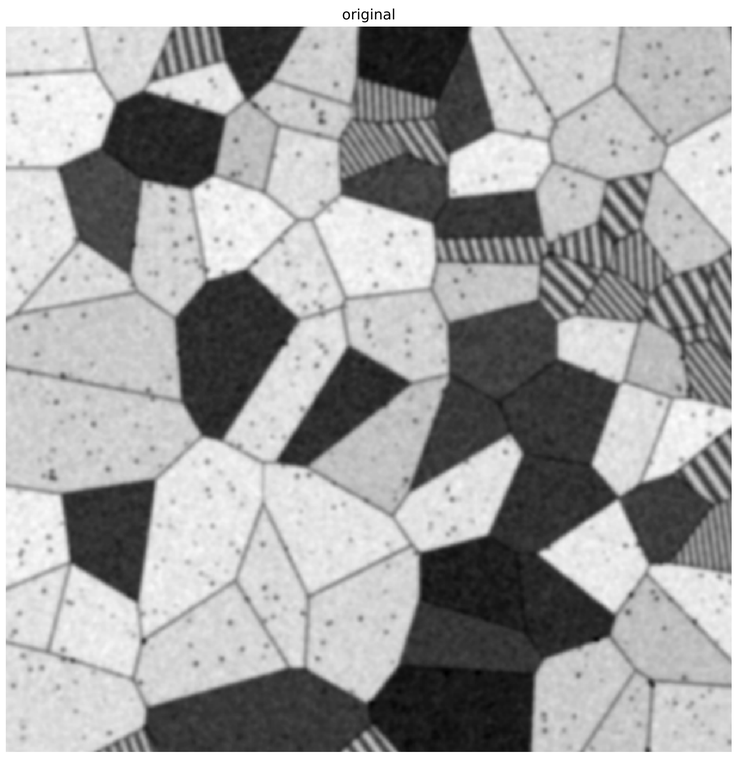
correct white phase



predicted white phase

data/base microstructure/image_168.png

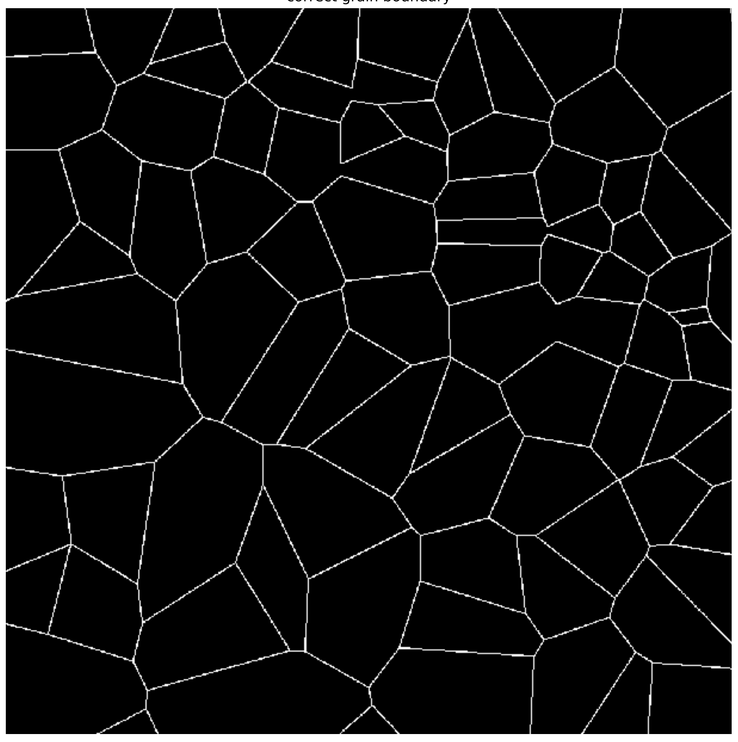
original



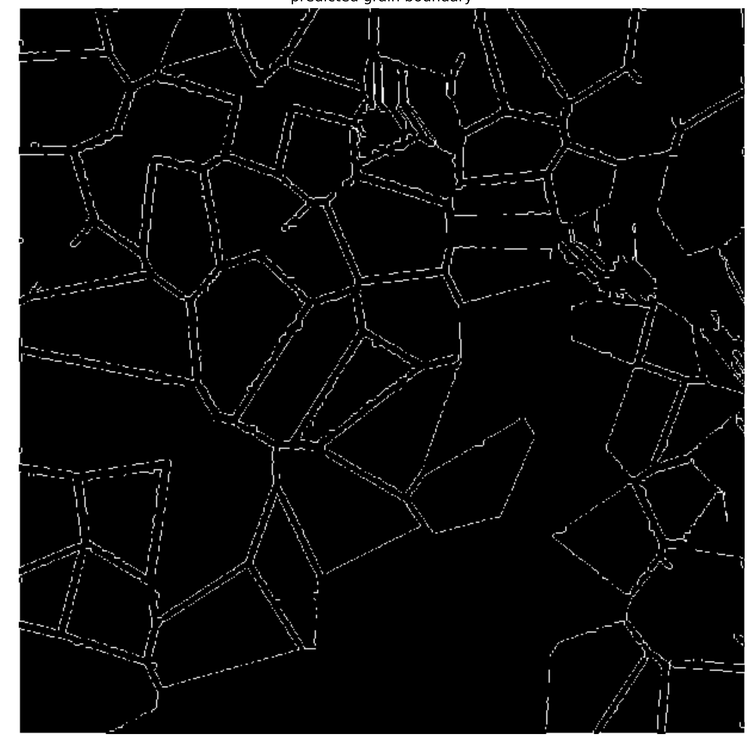
metrics

metric	correct	predicted	error
dark frac	0.274	0.268	0.559%
white frac	0.650	0.615	3.533%
line frac	0.076	0.060	1.543%
ave grain diameter	117.305	98.238	16.254%

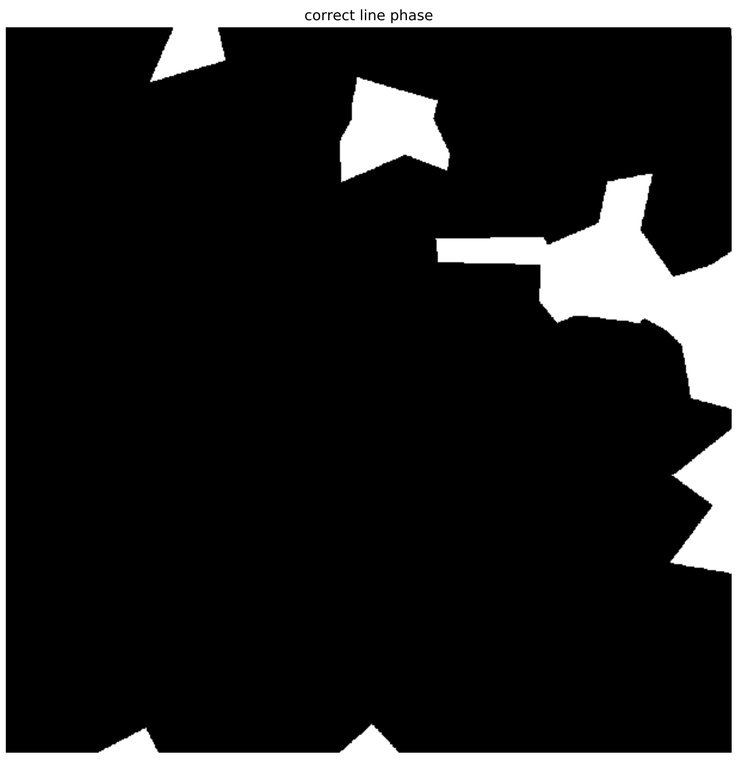
correct grain boundary



predicted grain boundary

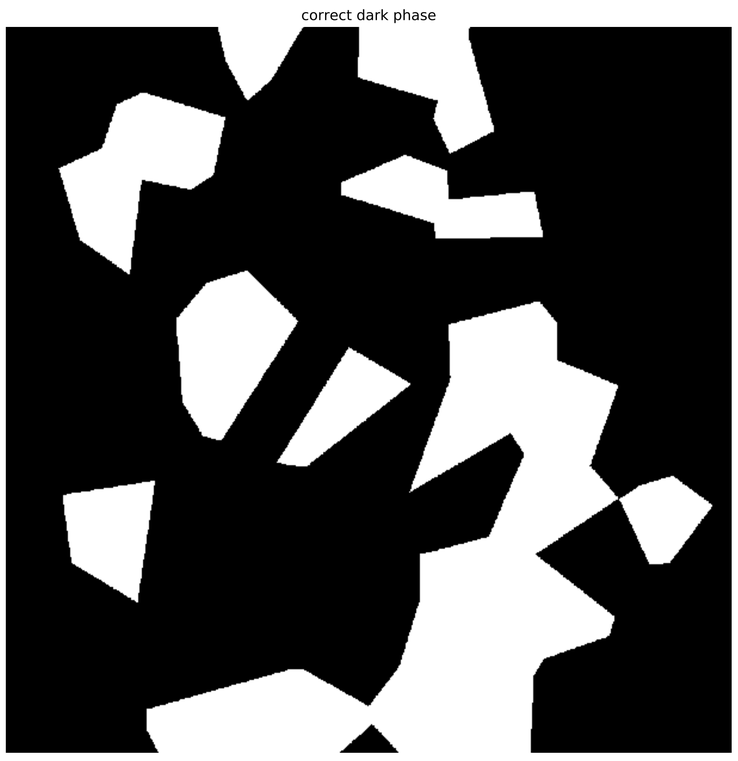


correct line phase

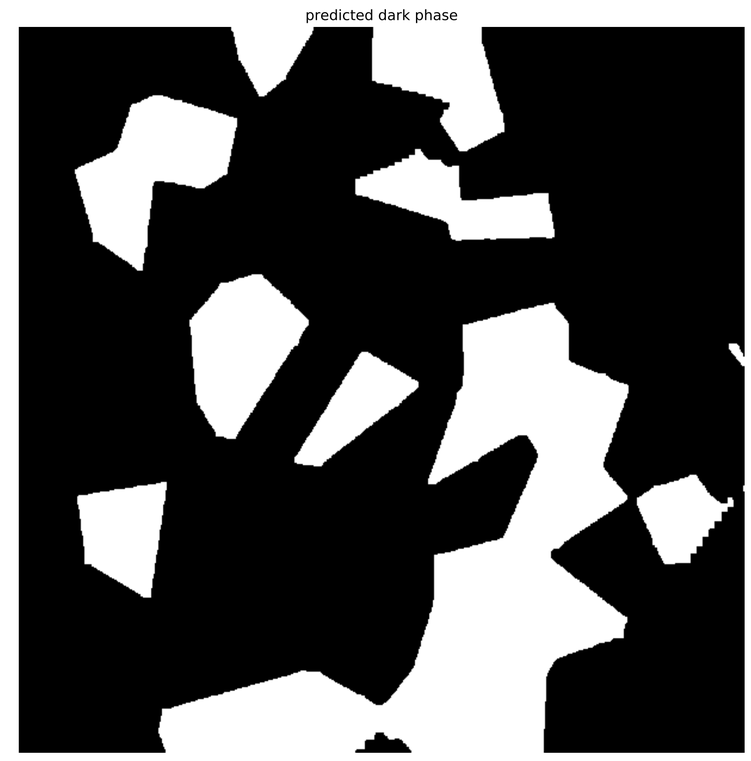


predicted line phase

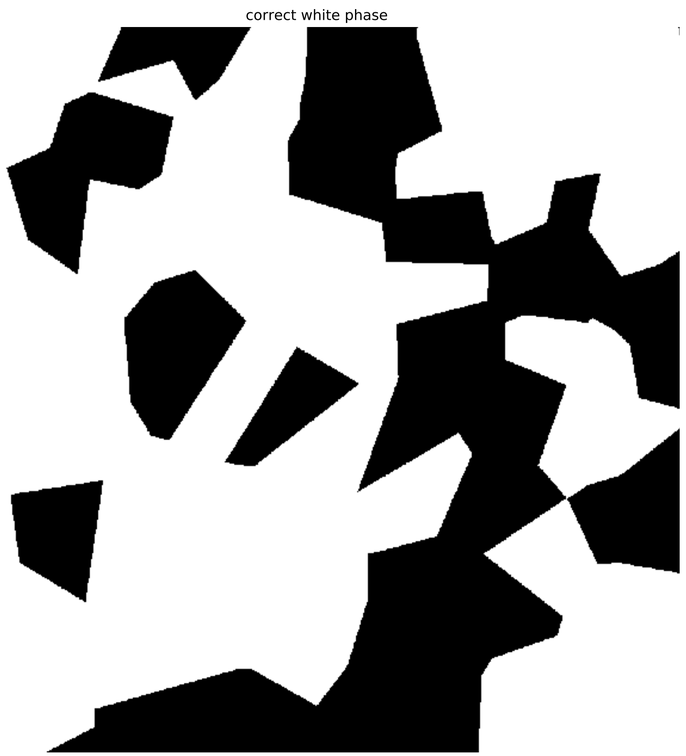
correct dark phase



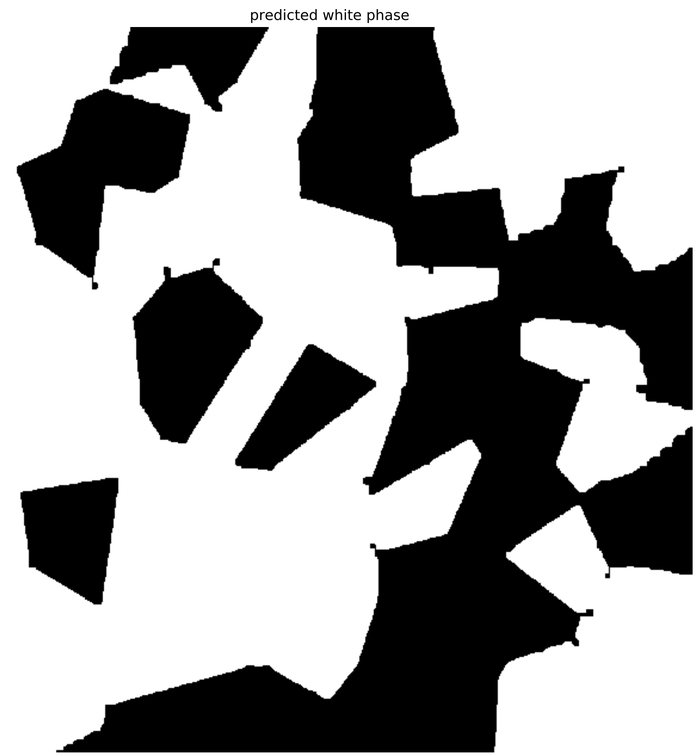
predicted dark phase



correct white phase

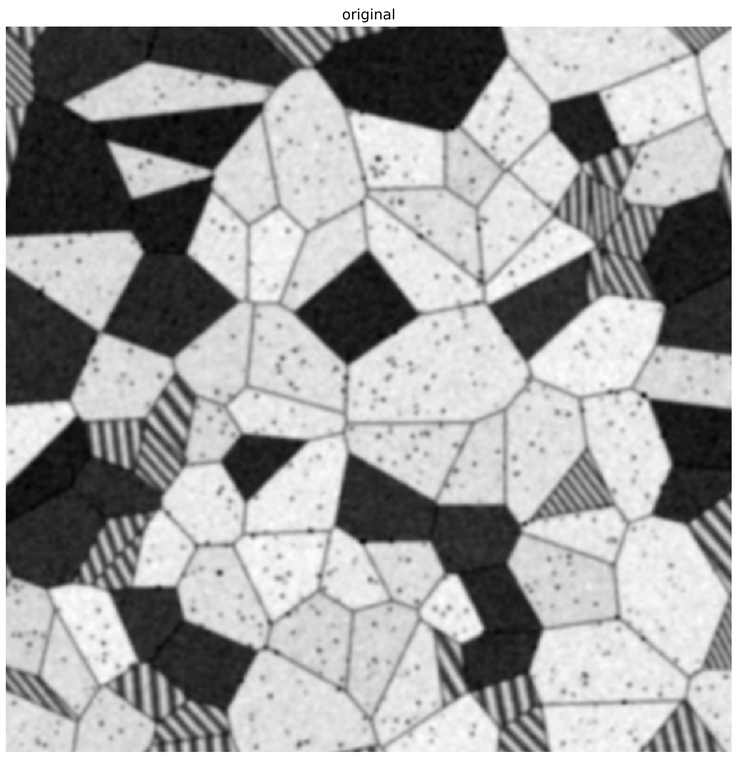


predicted white phase



data/base microstructure/image_169.png

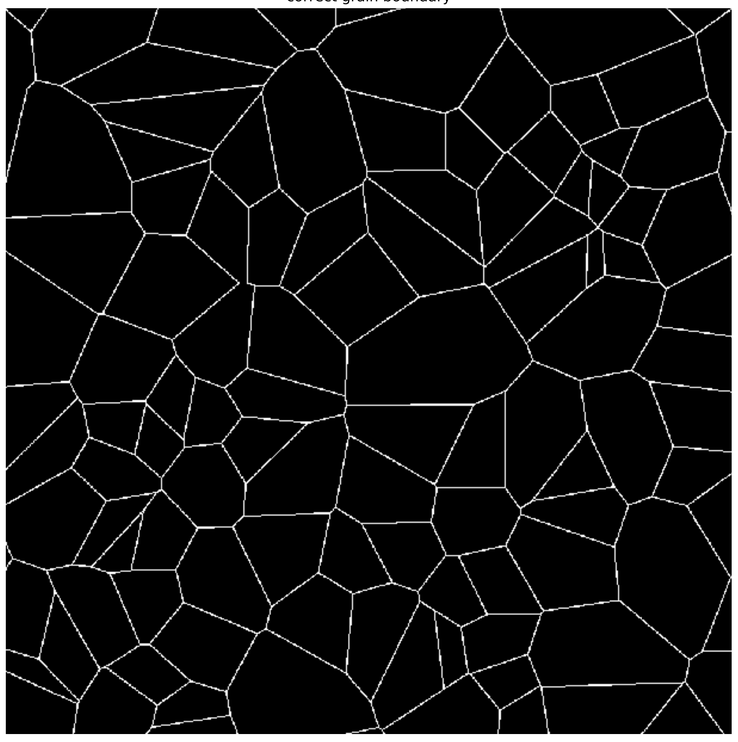
original



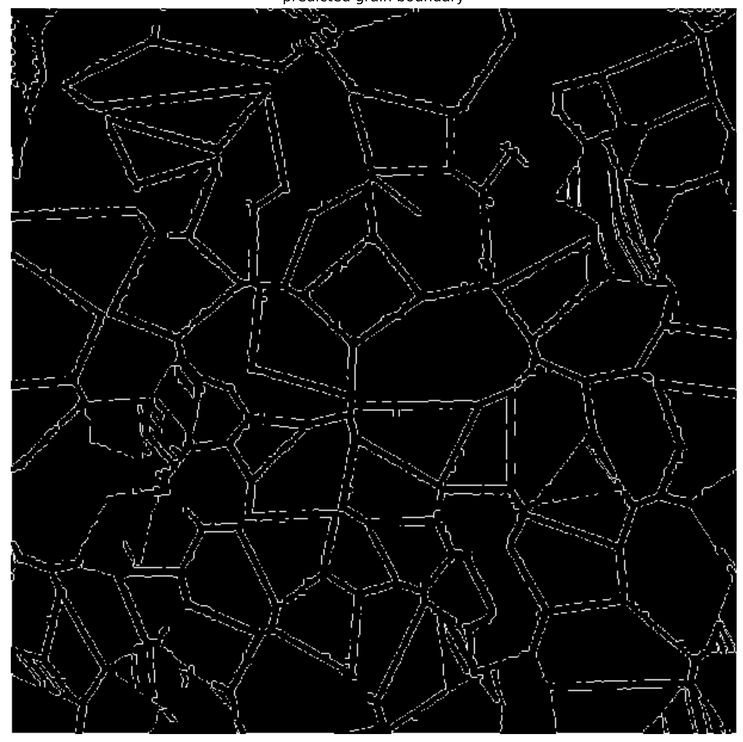
metrics

metric	correct	predicted	error
dark frac	0.277	0.272	0.463%
white frac	0.630	0.591	3.897%
line frac	0.093	0.064	2.951%
ave grain diameter	101.696	100.933	0.750%

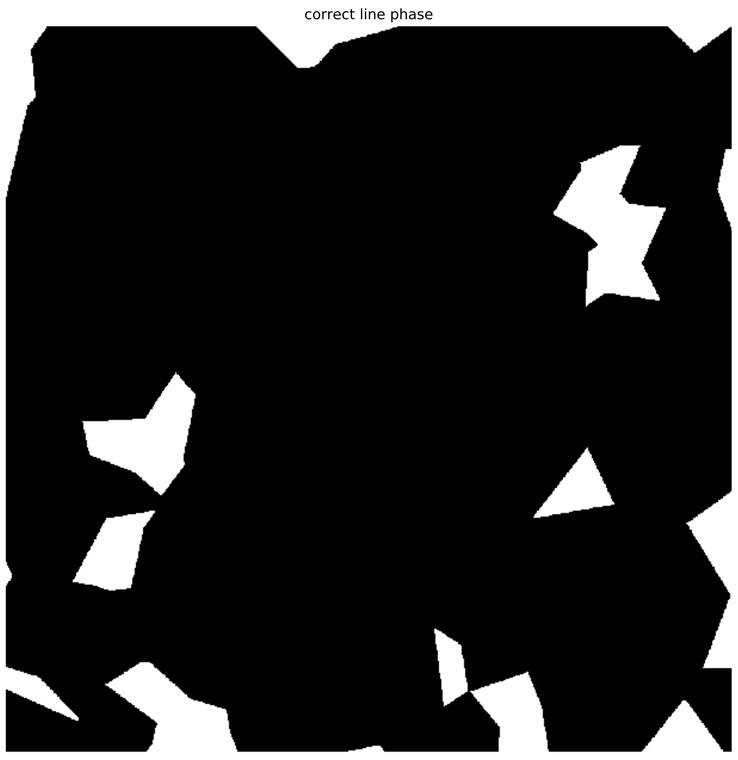
correct grain boundary



predicted grain boundary

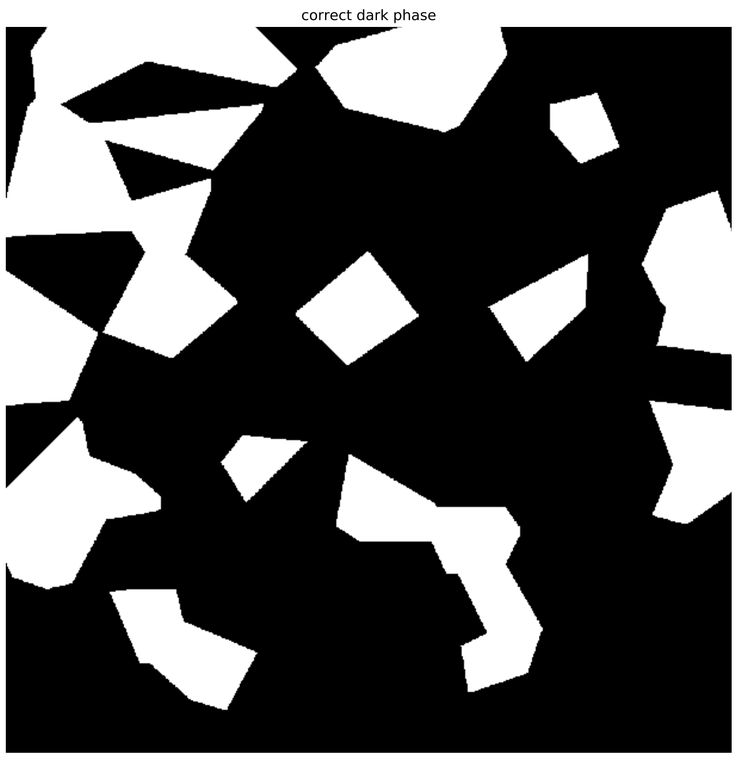


correct line phase



predicted line phase

correct dark phase



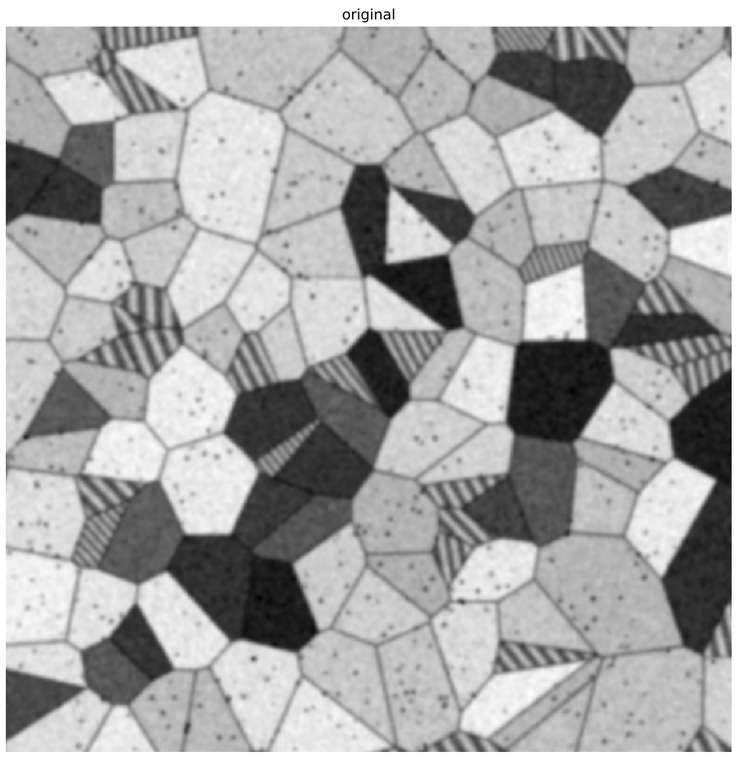
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_17.png

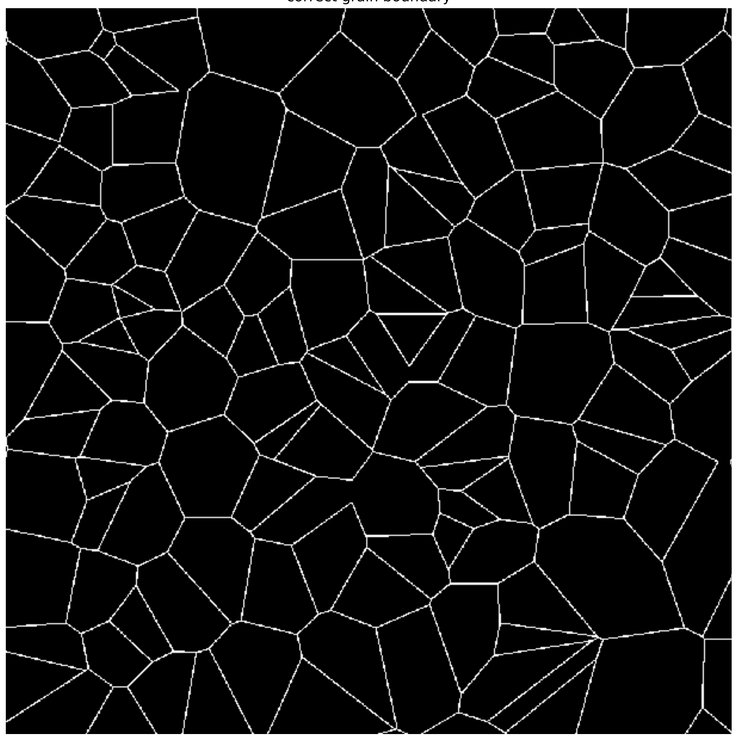
original



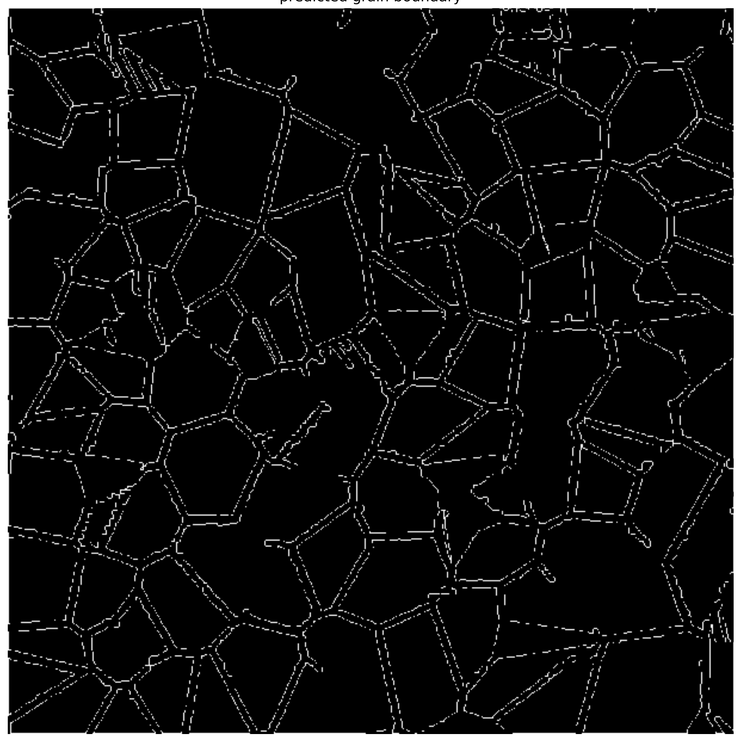
metrics

metric	correct	predicted	error
dark frac	0.213	0.209	0.375%
white frac	0.713	0.666	4.689%
line frac	0.074	0.047	2.694%
ave grain diameter	91.909	90.809	1.196%

correct grain boundary



predicted grain boundary



correct line phase

predicted line phase

correct dark phase

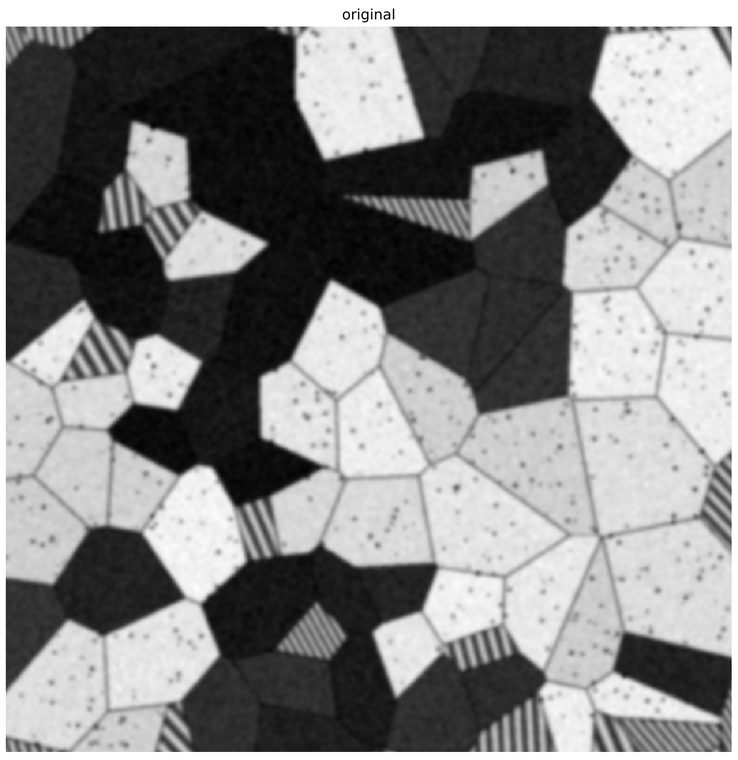
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_170.png

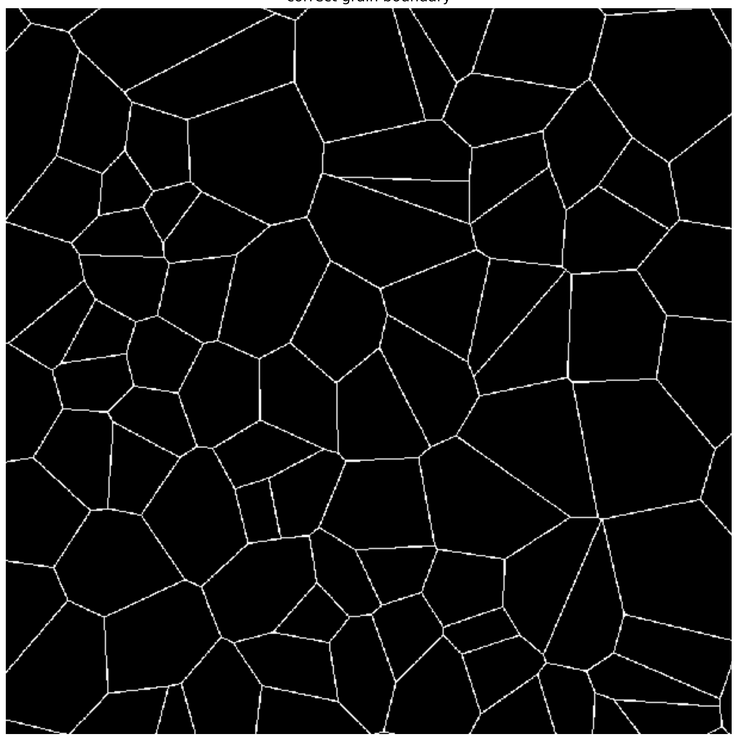
original



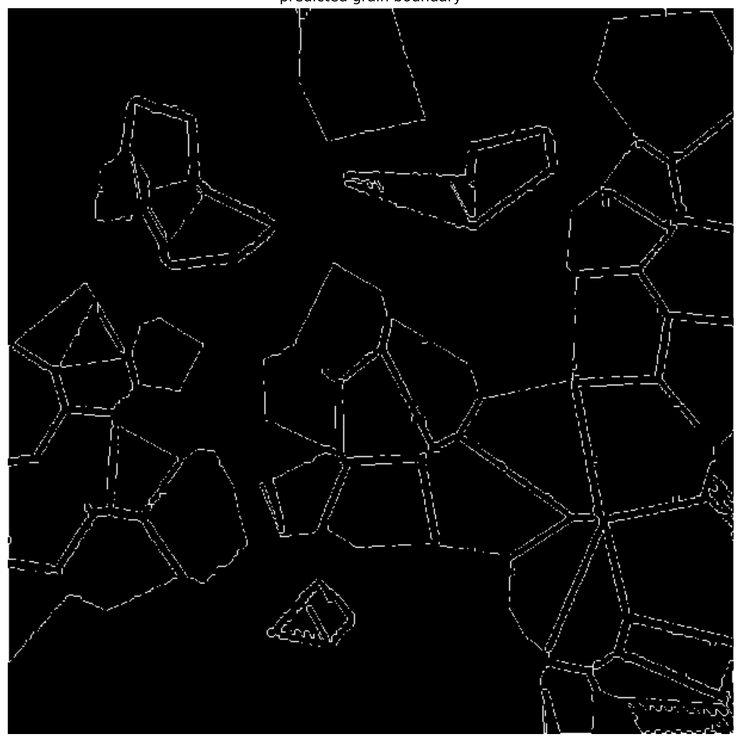
metrics

metric	correct	predicted	error
dark frac	0.438	0.431	0.749%
white frac	0.504	0.477	2.671%
line frac	0.058	0.036	2.212%
ave grain diameter	114.409	108.150	5.470%

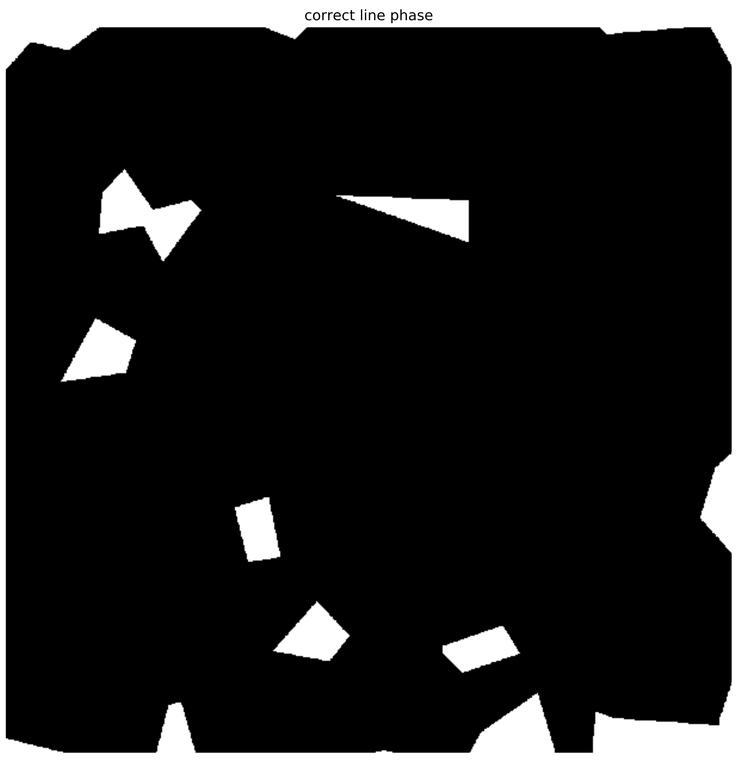
correct grain boundary



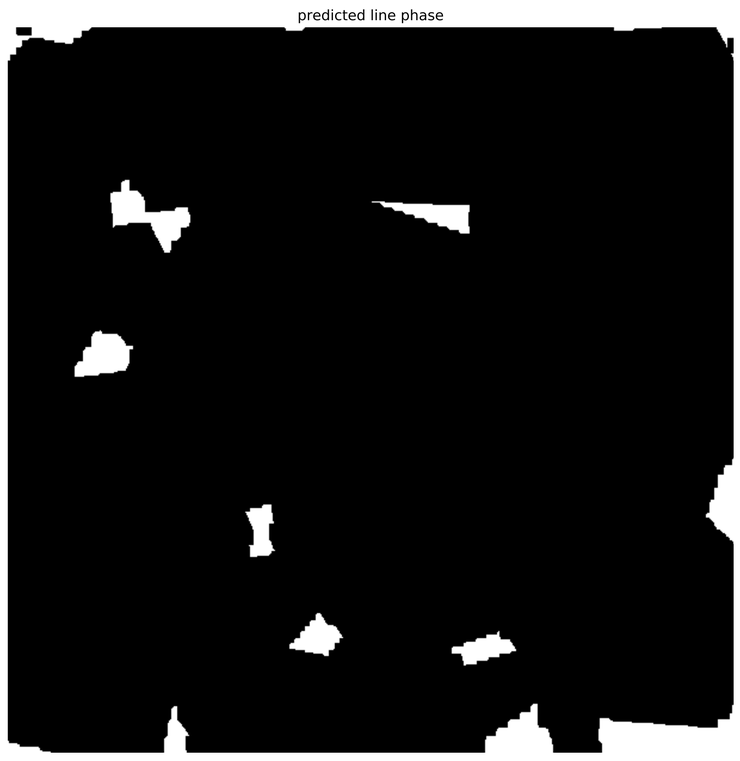
predicted grain boundary



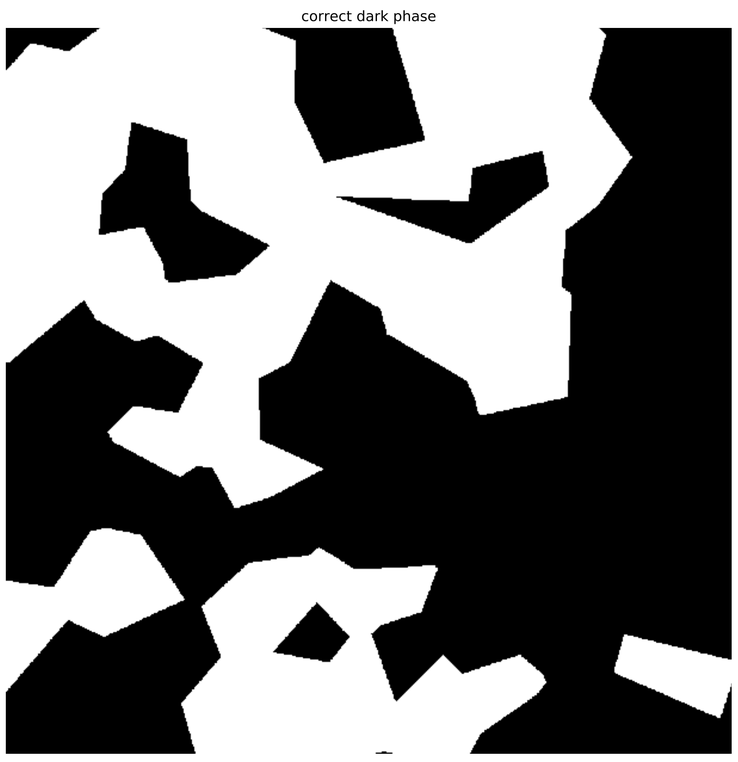
correct line phase



predicted line phase



correct dark phase



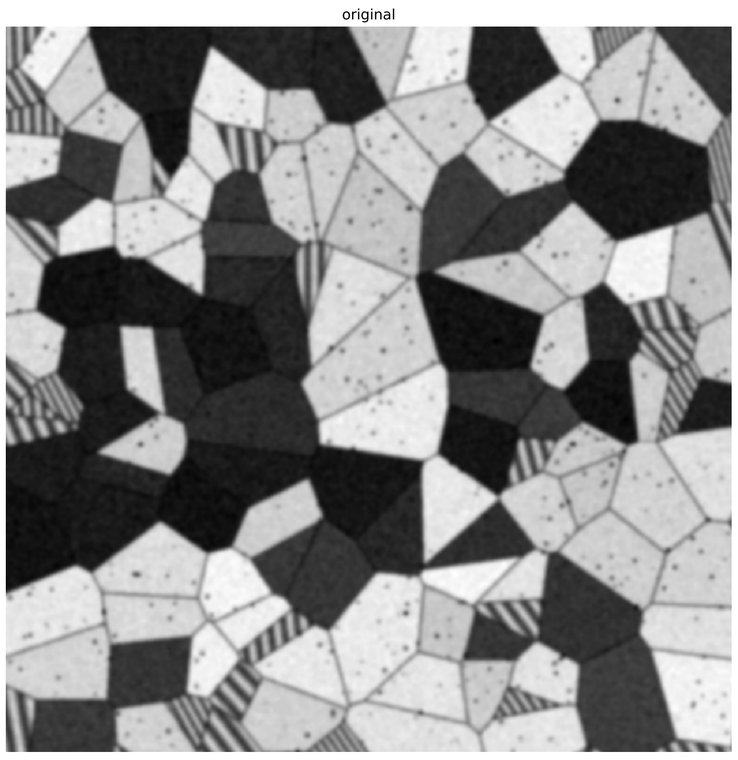
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_171.png

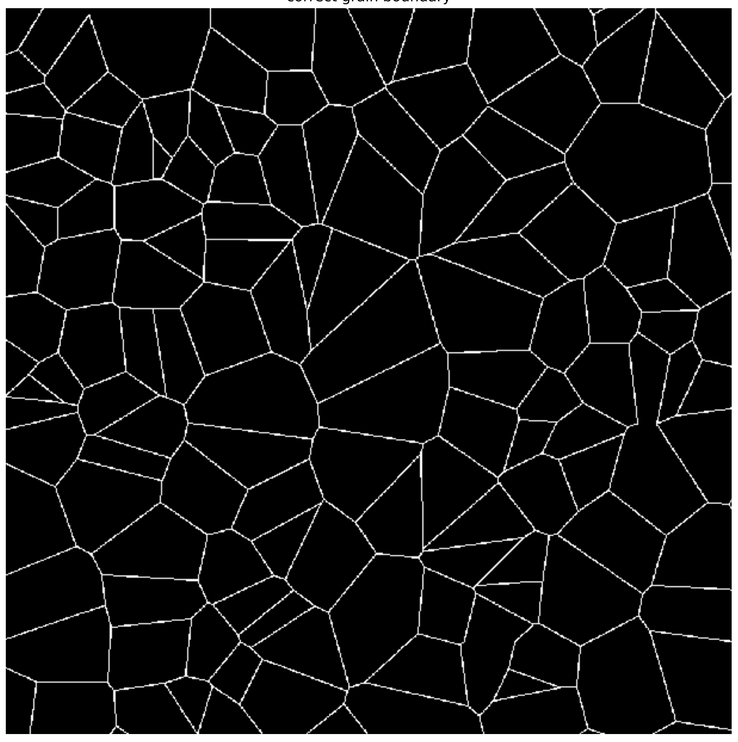
original



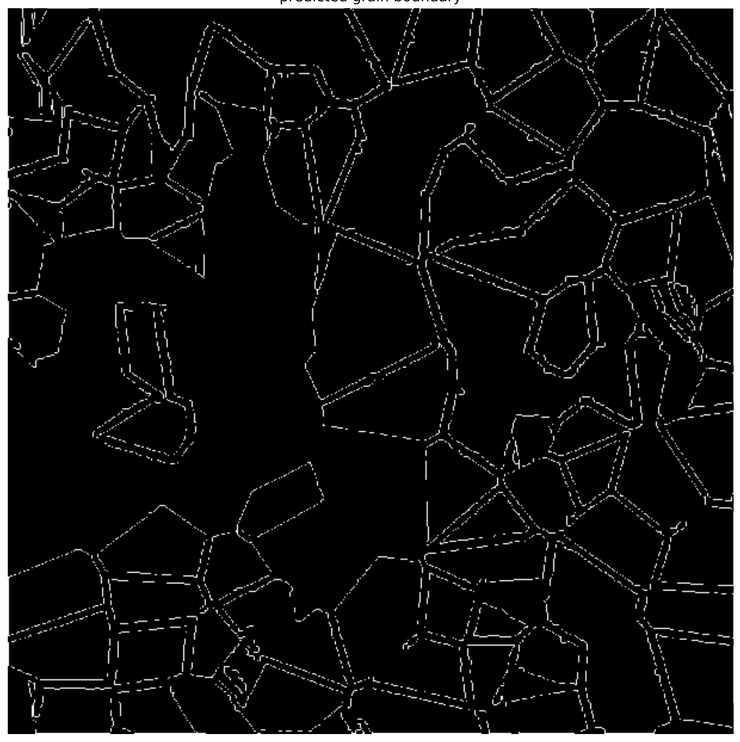
metrics

metric	correct	predicted	error
dark frac	0.401	0.389	1.163%
white frac	0.529	0.485	4.395%
line frac	0.071	0.043	2.811%
ave grain diameter	91.594	90.260	1.457%

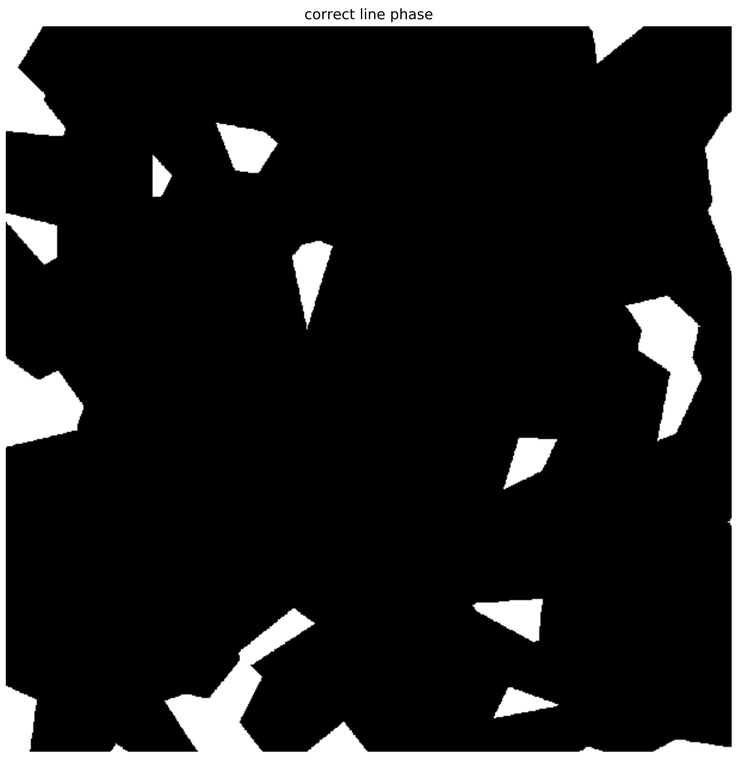
correct grain boundary



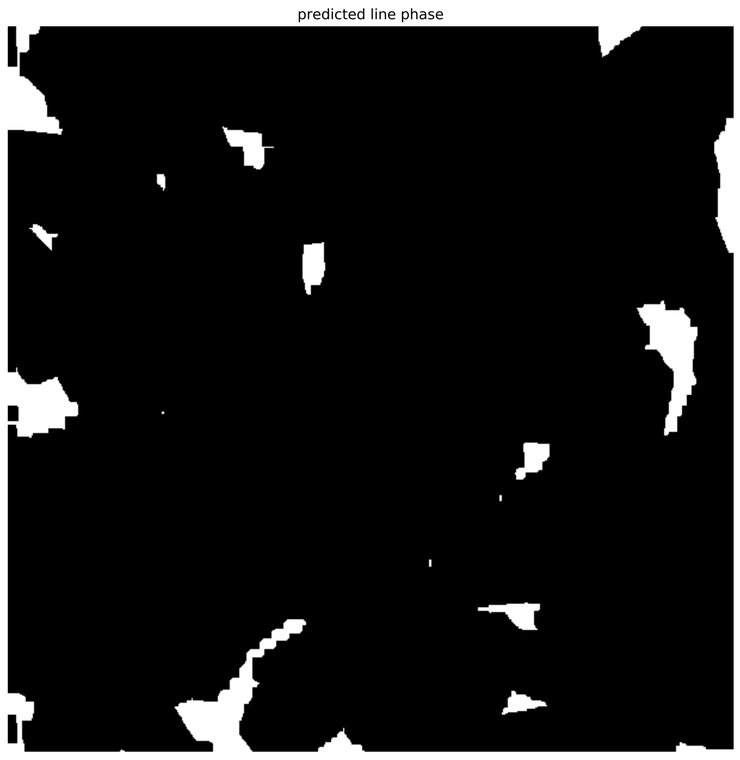
predicted grain boundary



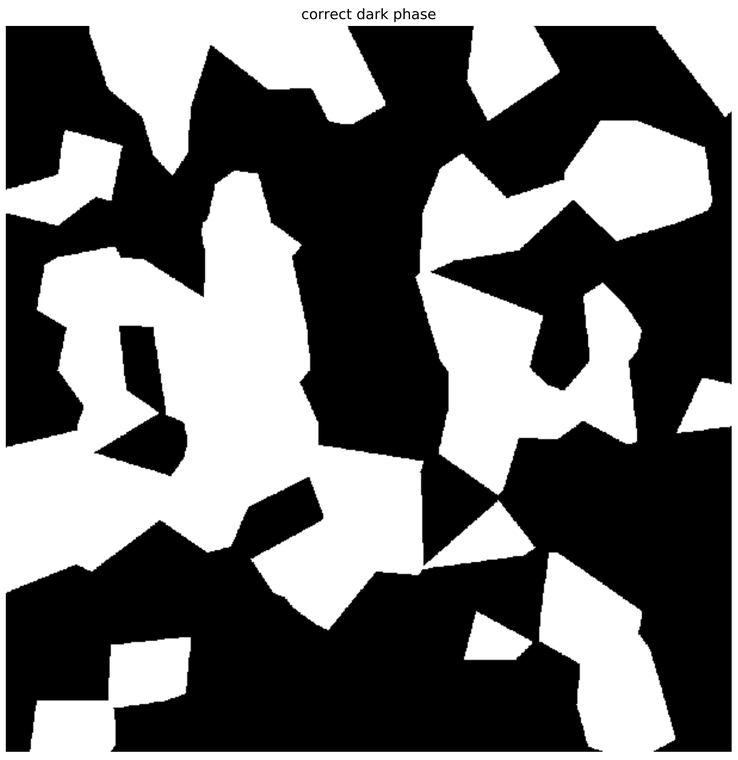
correct line phase



predicted line phase



correct dark phase



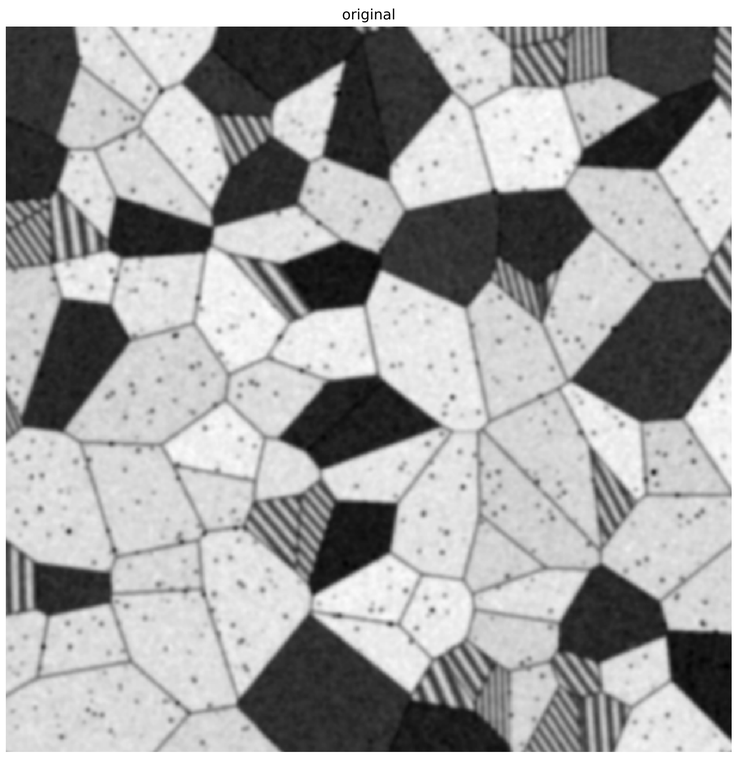
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_172.png

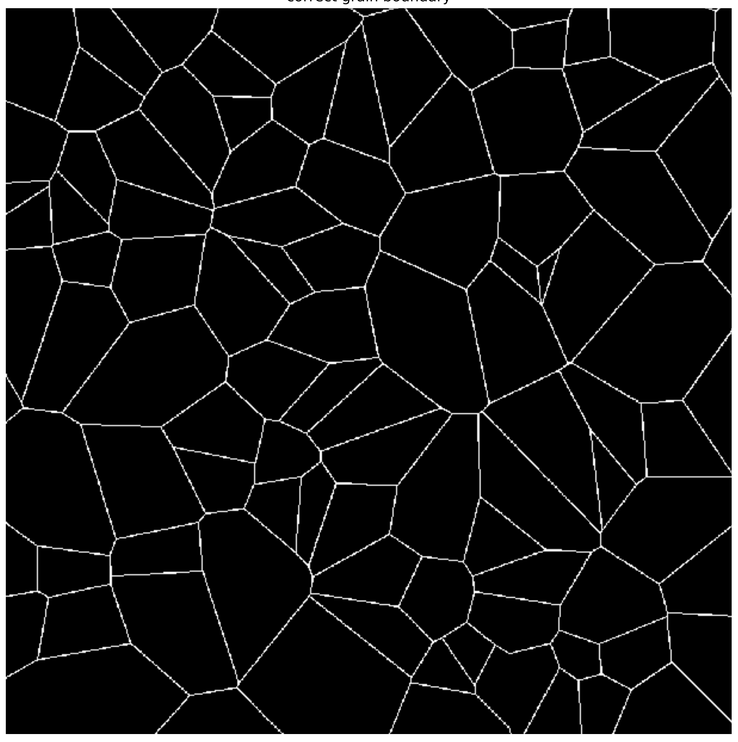
original



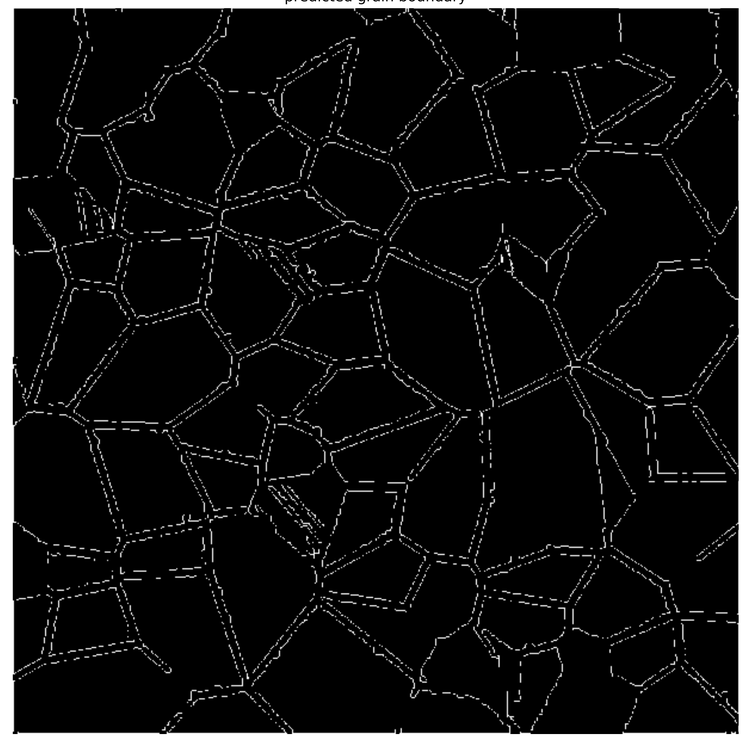
metrics

metric	correct	predicted	error
dark frac	0.274	0.268	0.571%
white frac	0.647	0.609	3.799%
line frac	0.079	0.054	2.541%
ave grain diameter	107.979	100.157	7.244%

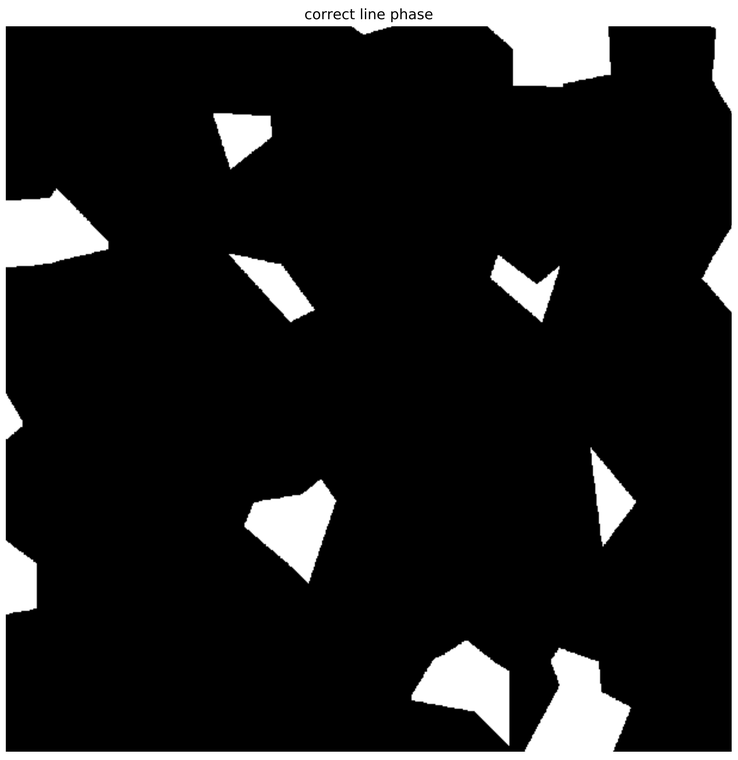
correct grain boundary



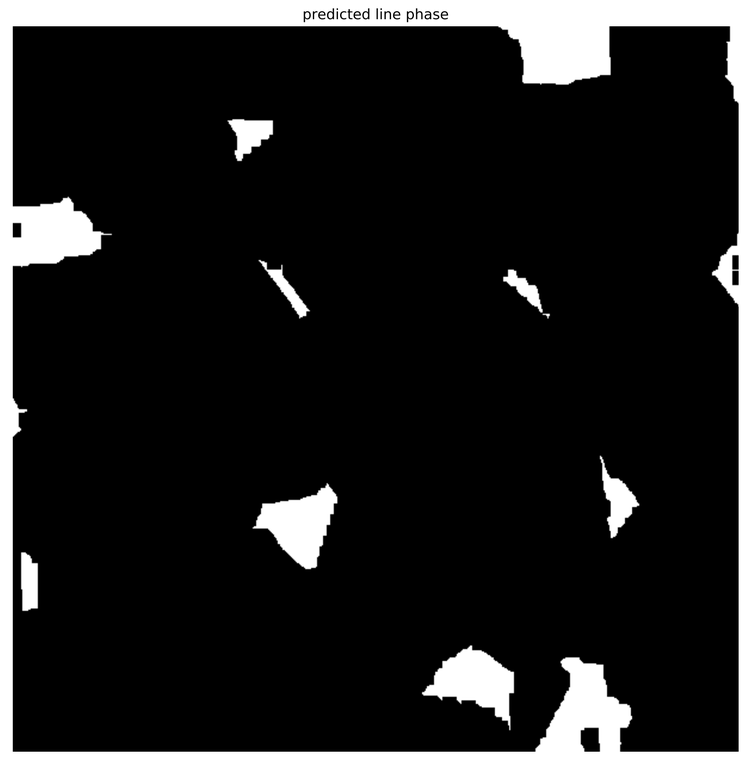
predicted grain boundary



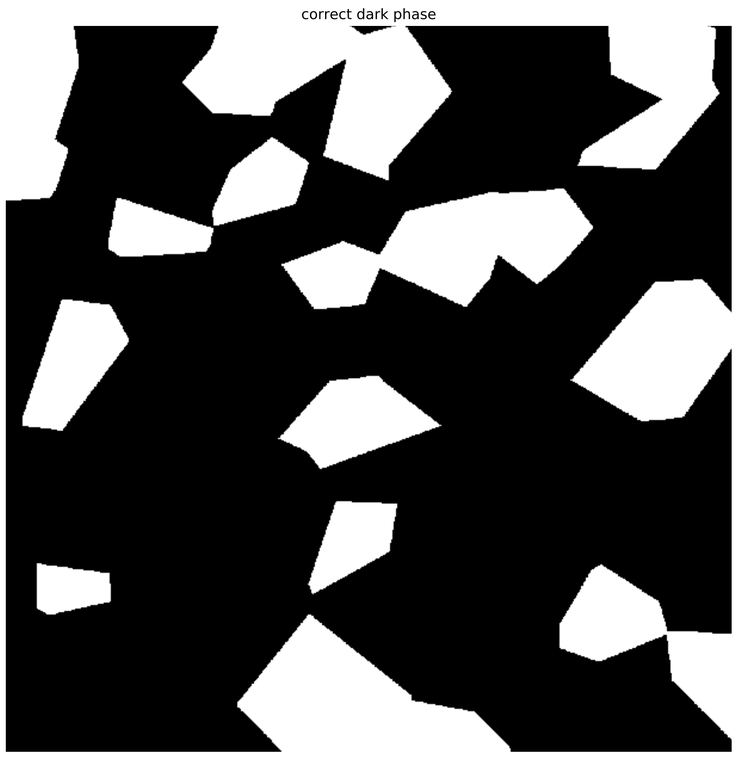
correct line phase



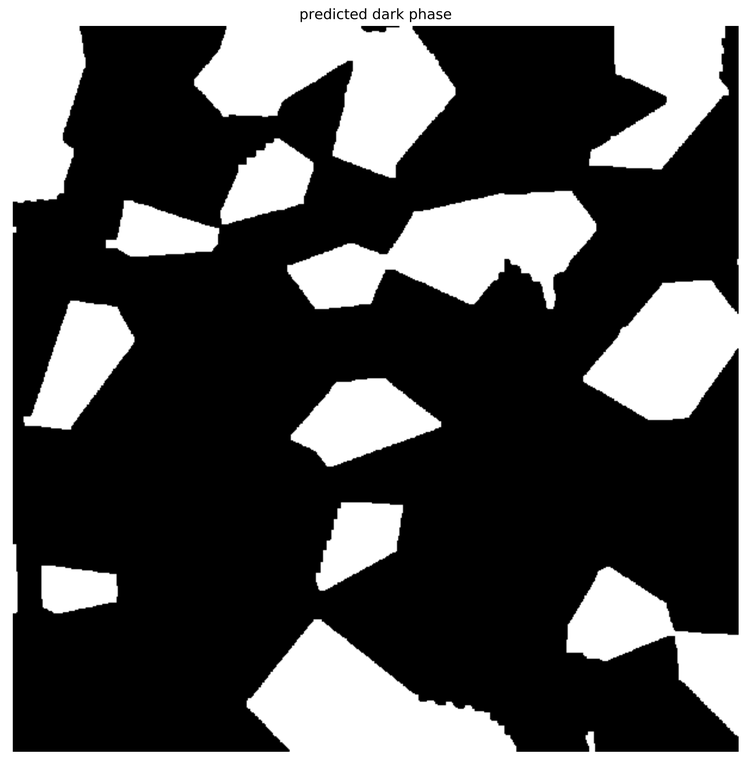
predicted line phase



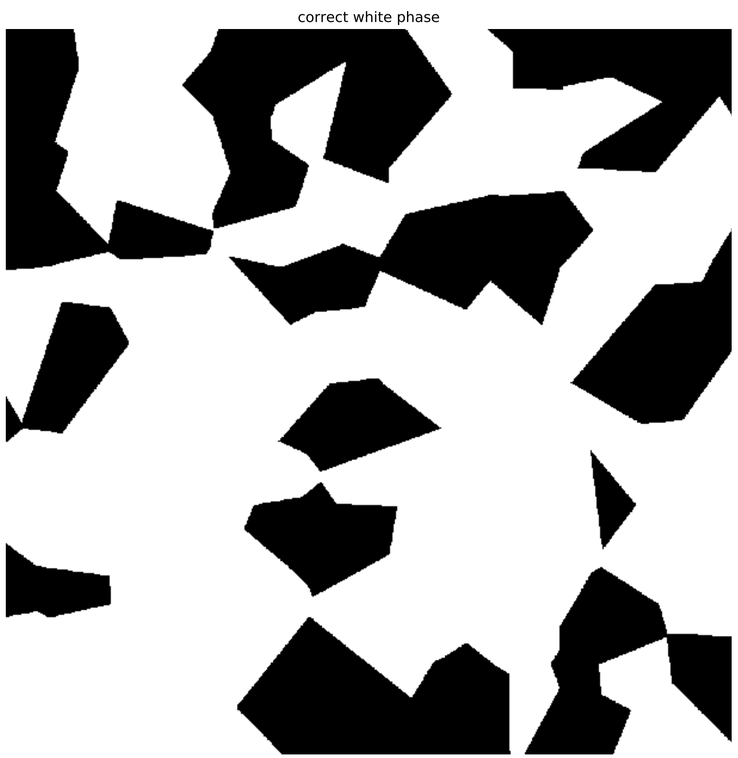
correct dark phase



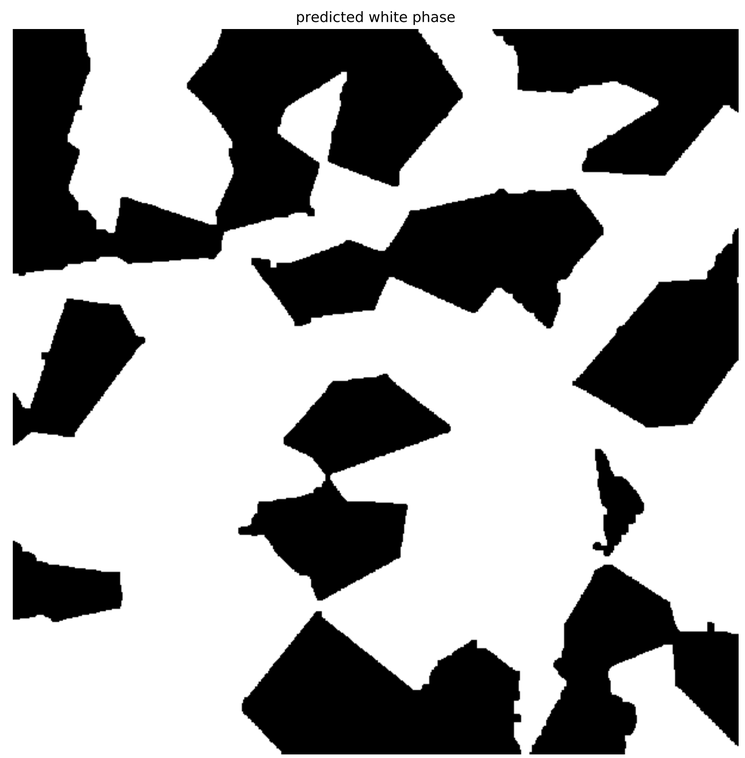
predicted dark phase



correct white phase

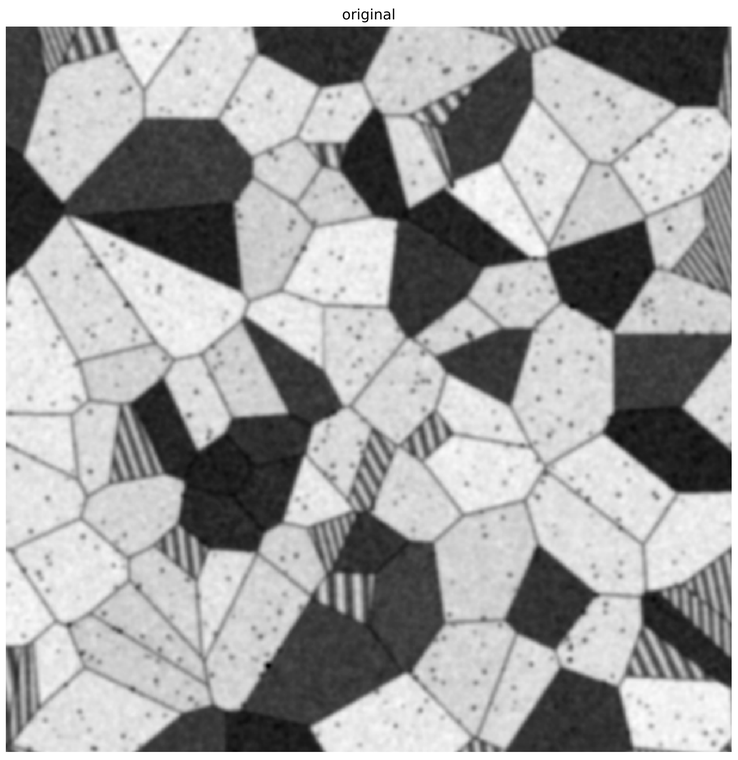


predicted white phase



data/base microstructure/image_173.png

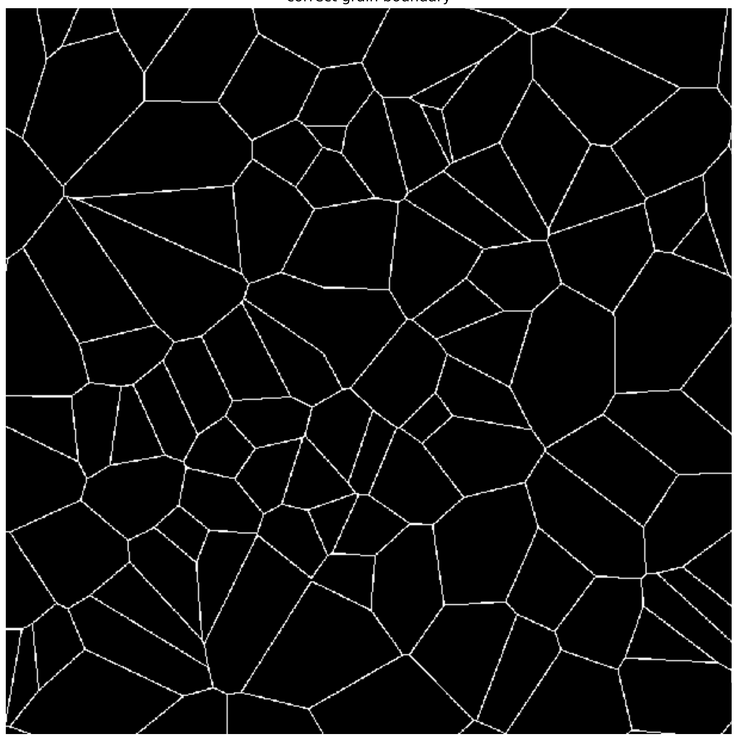
original



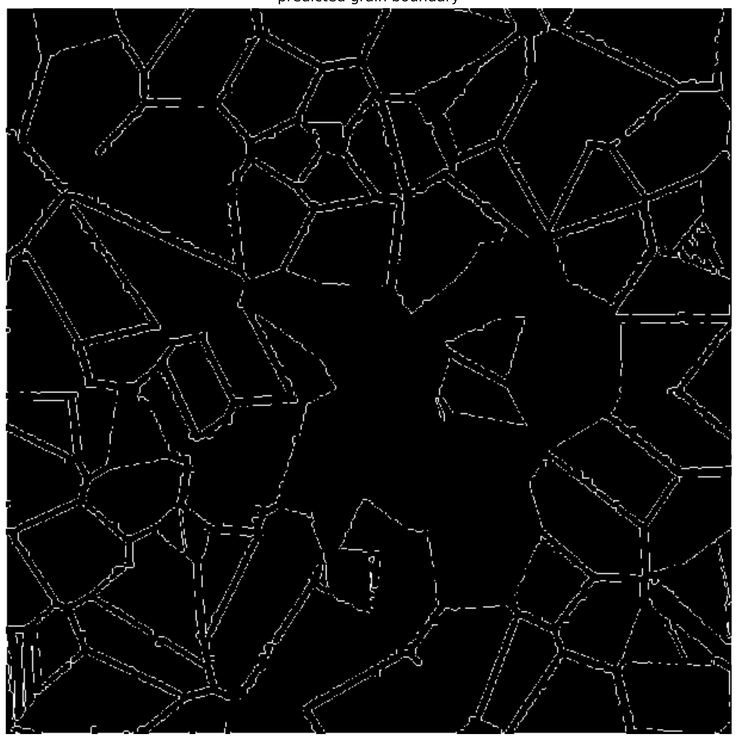
metrics

metric	correct	predicted	error
dark frac	0.289	0.282	0.691%
white frac	0.649	0.605	4.408%
line frac	0.061	0.038	2.376%
ave grain diameter	103.572	100.888	2.592%

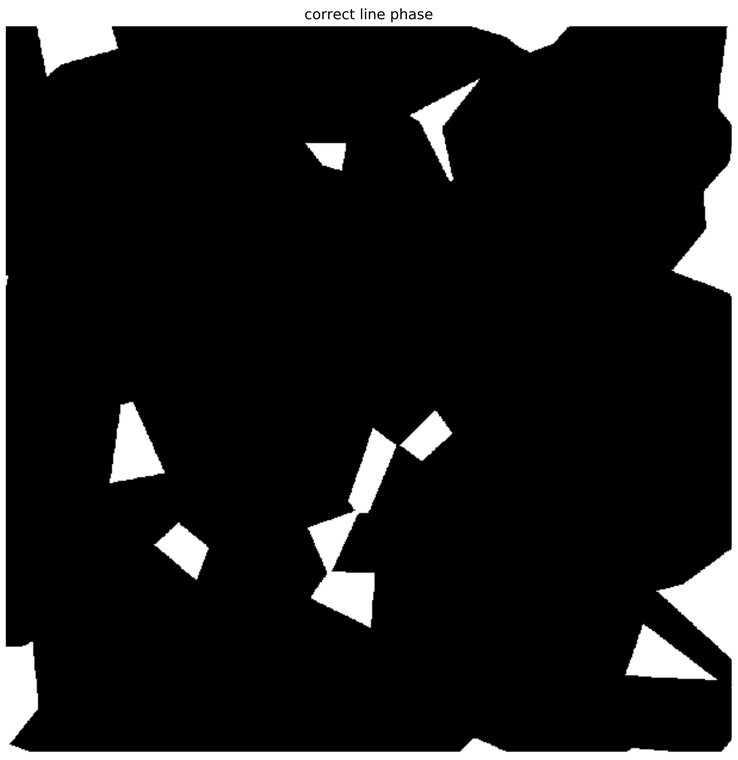
correct grain boundary



predicted grain boundary



correct line phase

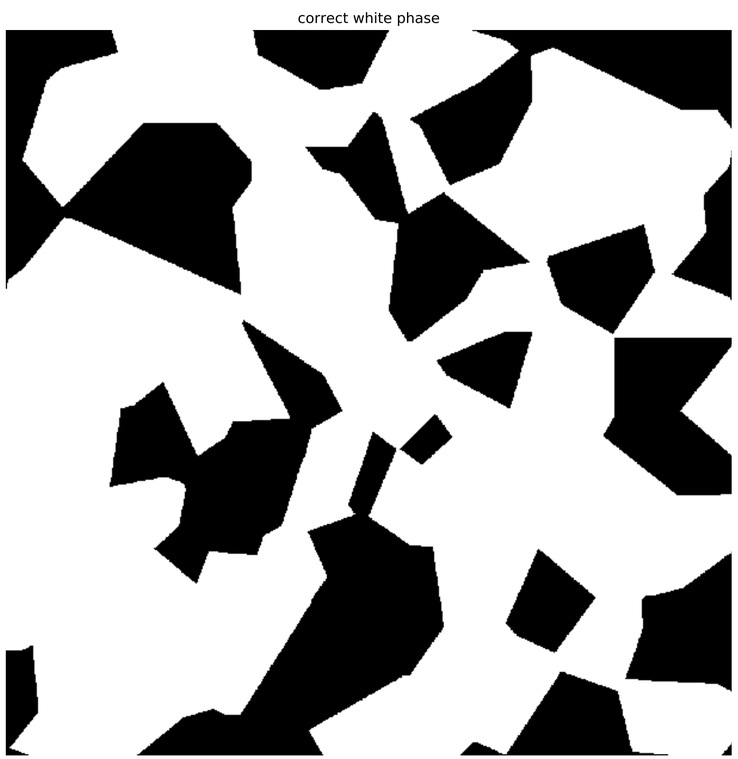


predicted line phase

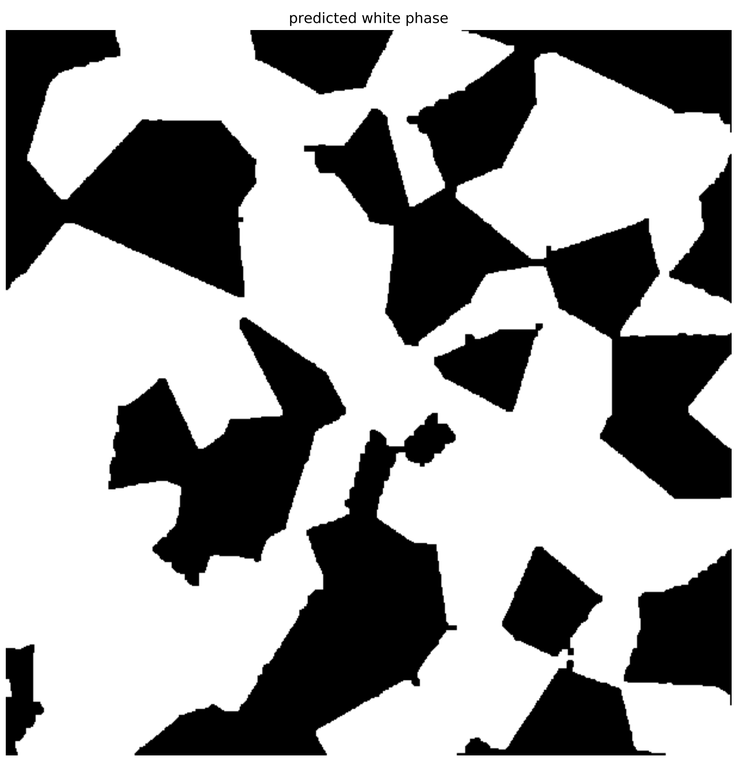
correct dark phase

predicted dark phase

correct white phase

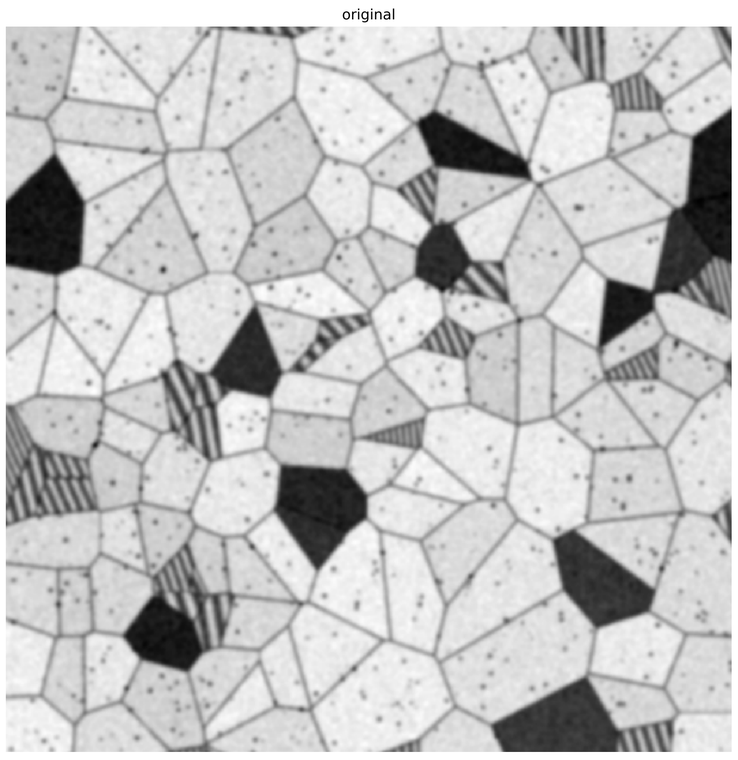


predicted white phase



data/base microstructure/image_174.png

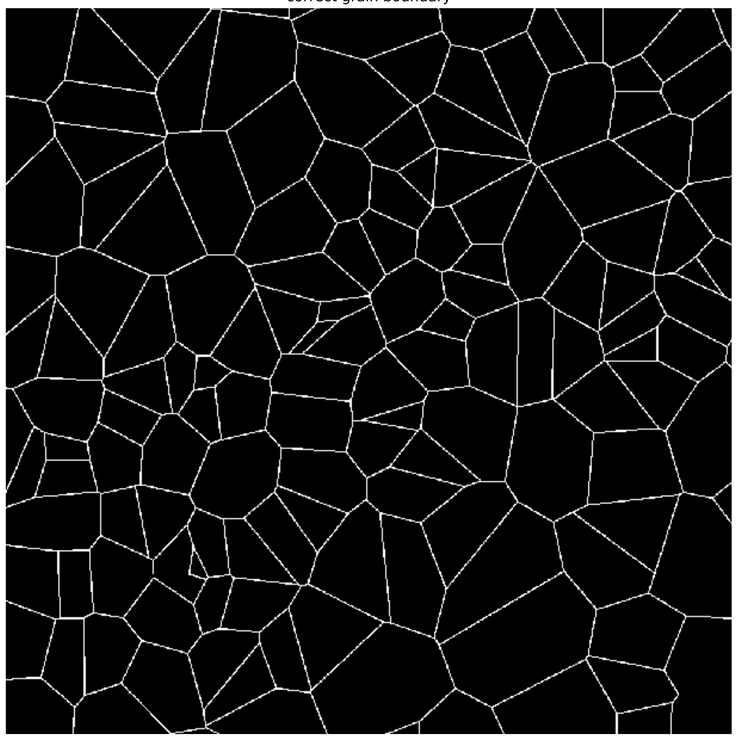
original



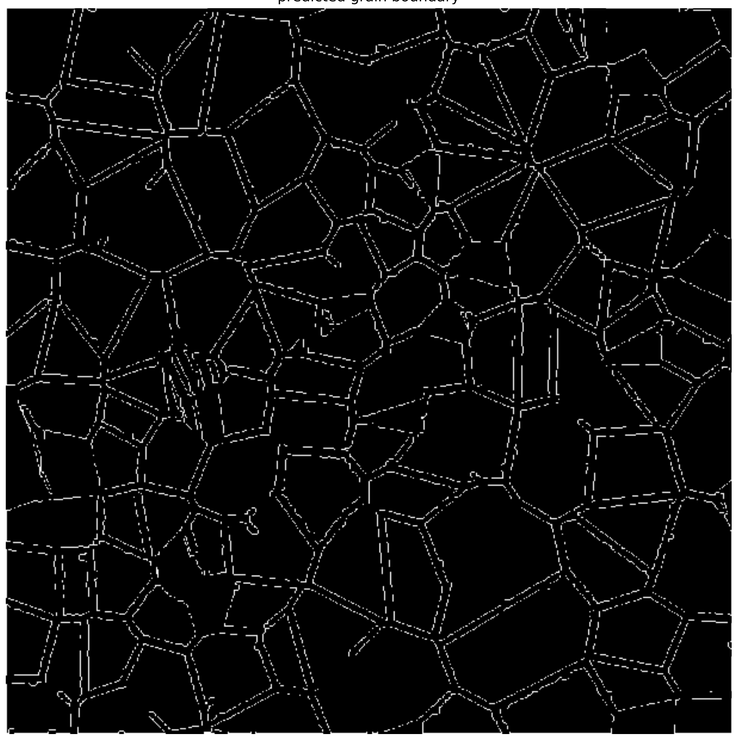
metrics

metric	correct	predicted	error
dark frac	0.091	0.089	0.264%
white frac	0.851	0.821	3.012%
line frac	0.057	0.041	1.655%
ave grain diameter	90.166	79.442	11.893%

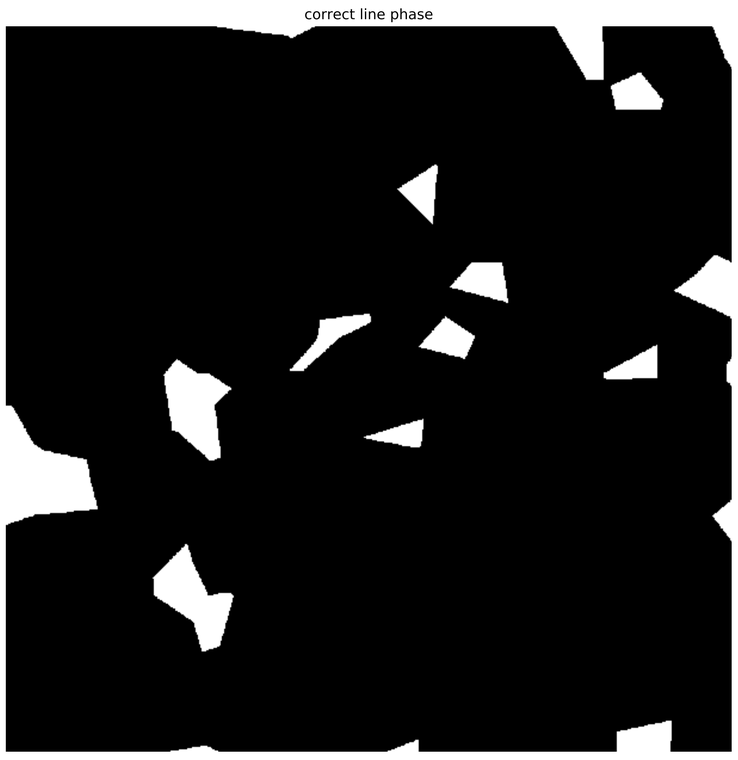
correct grain boundary



predicted grain boundary

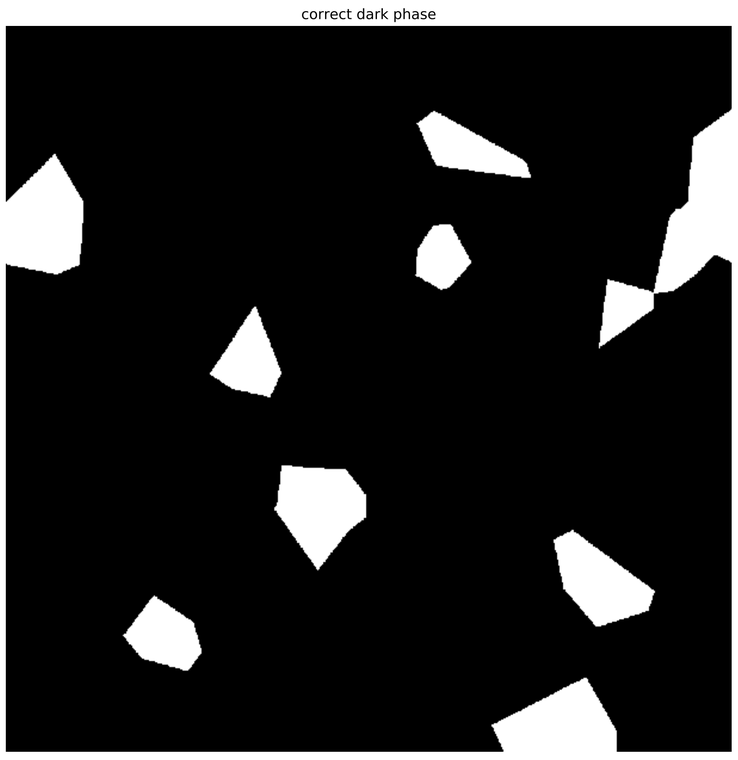


correct line phase

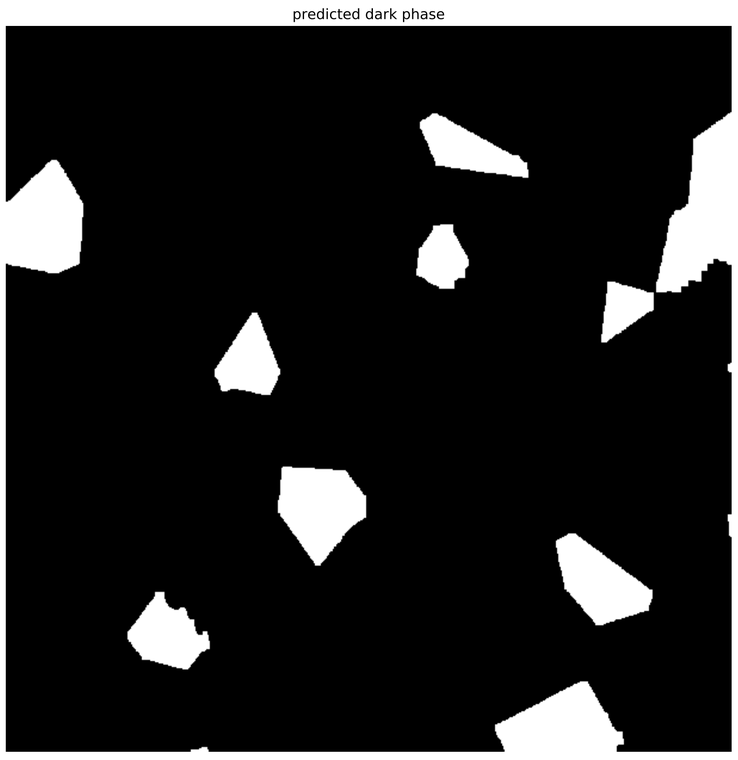


predicted line phase

correct dark phase



predicted dark phase

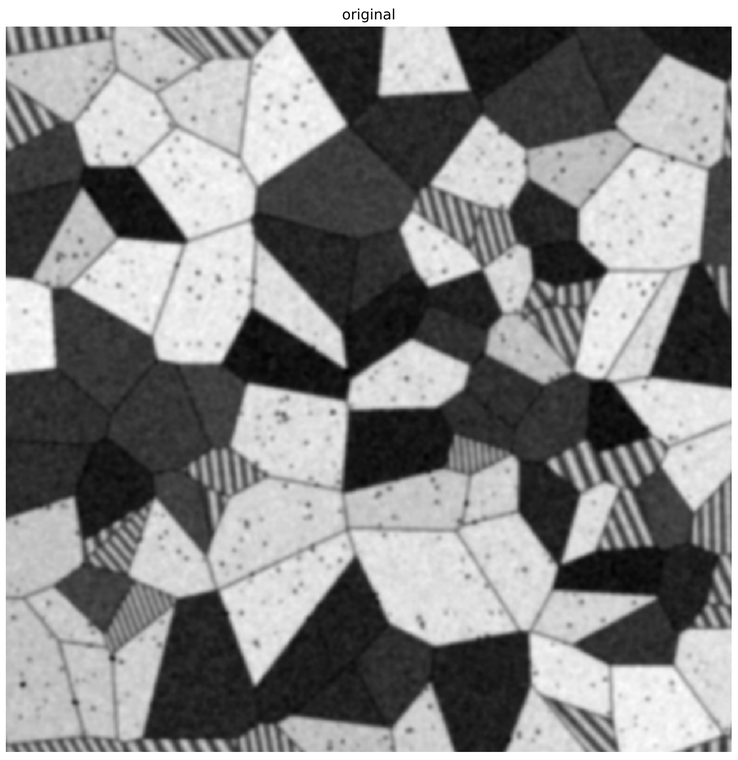


correct white phase

predicted white phase

data/base microstructure/image_175.png

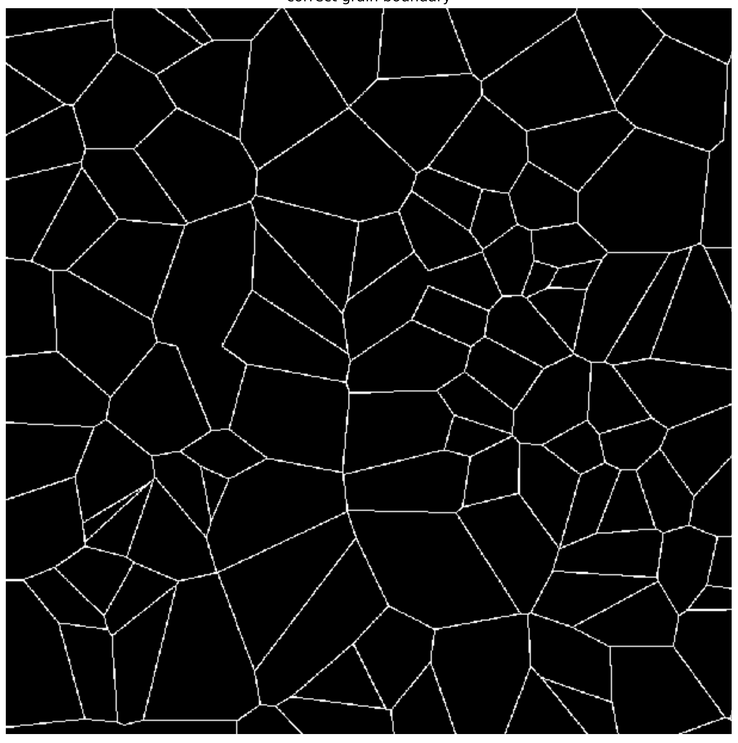
original



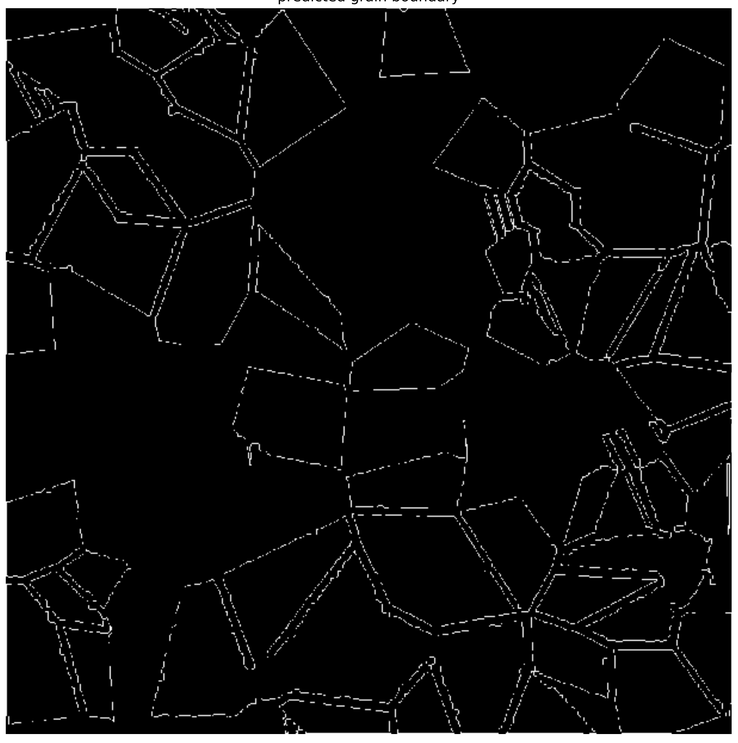
metrics

metric	correct	predicted	error
dark frac	0.415	0.407	0.872%
white frac	0.501	0.457	4.438%
line frac	0.083	0.053	3.049%
ave grain diameter	100.476	96.909	3.550%

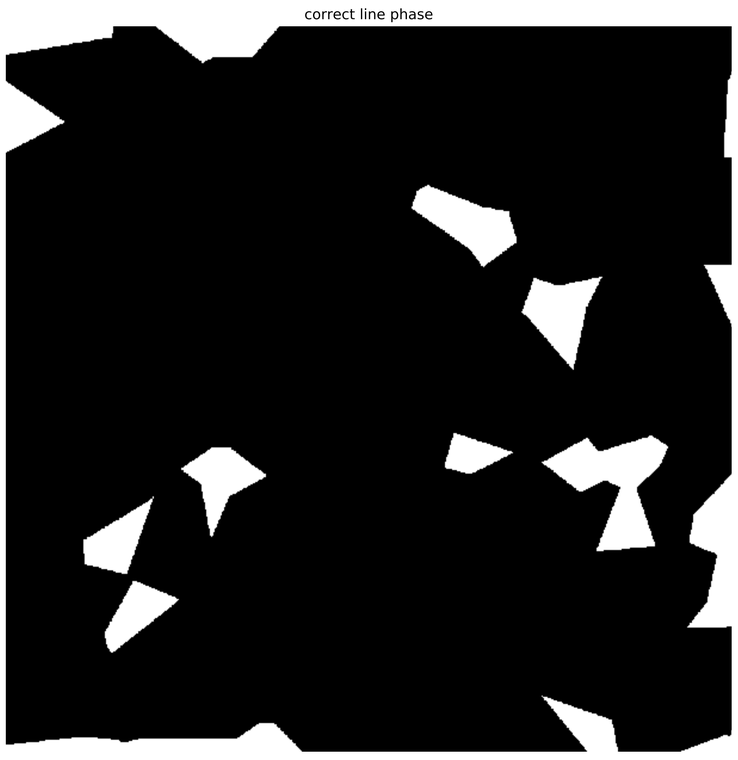
correct grain boundary



predicted grain boundary

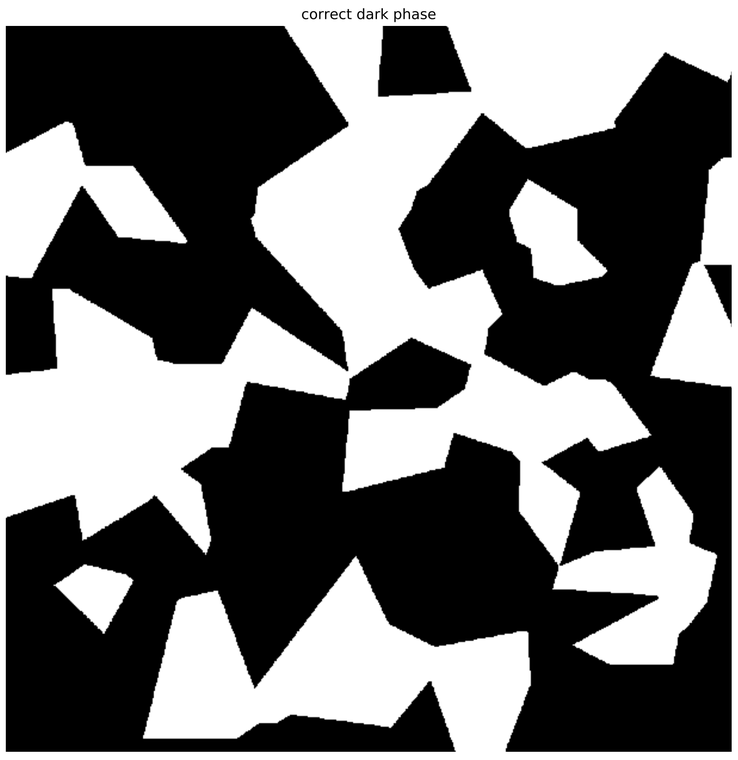


correct line phase

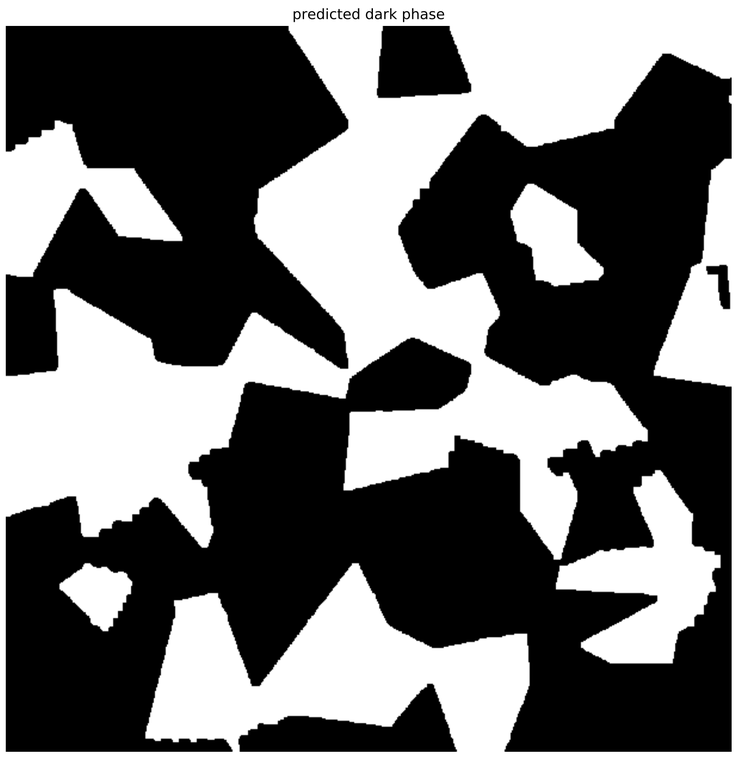


predicted line phase

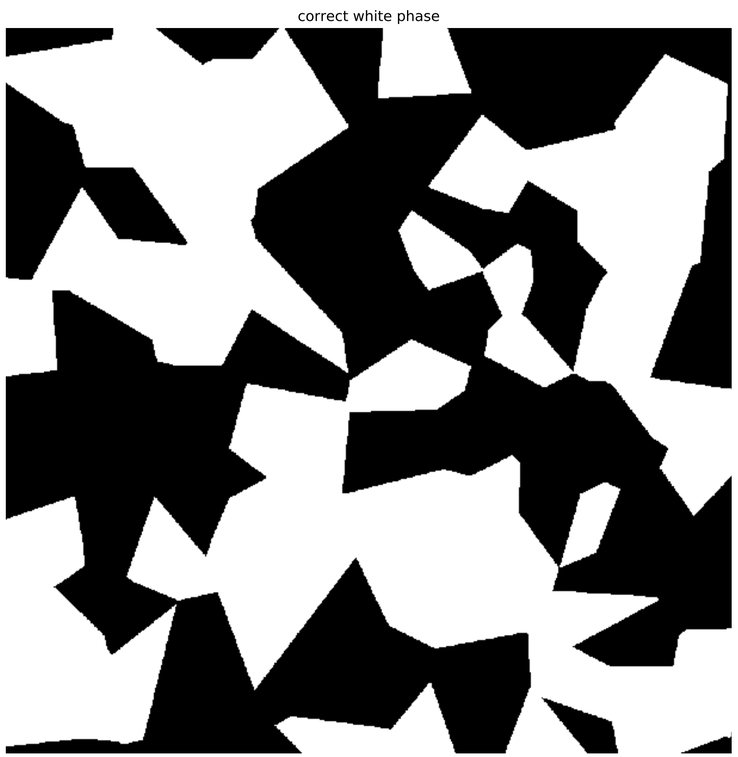
correct dark phase



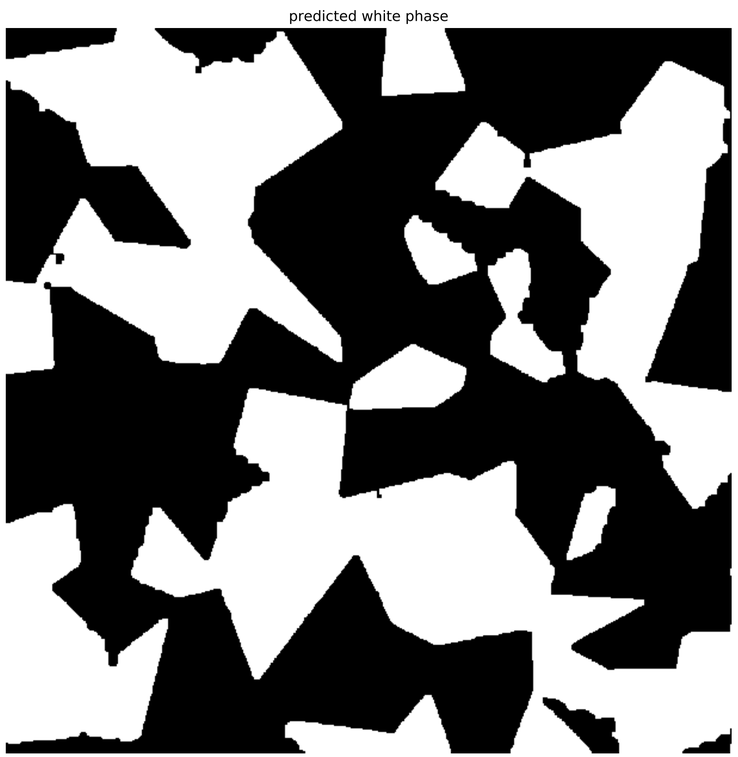
predicted dark phase



correct white phase

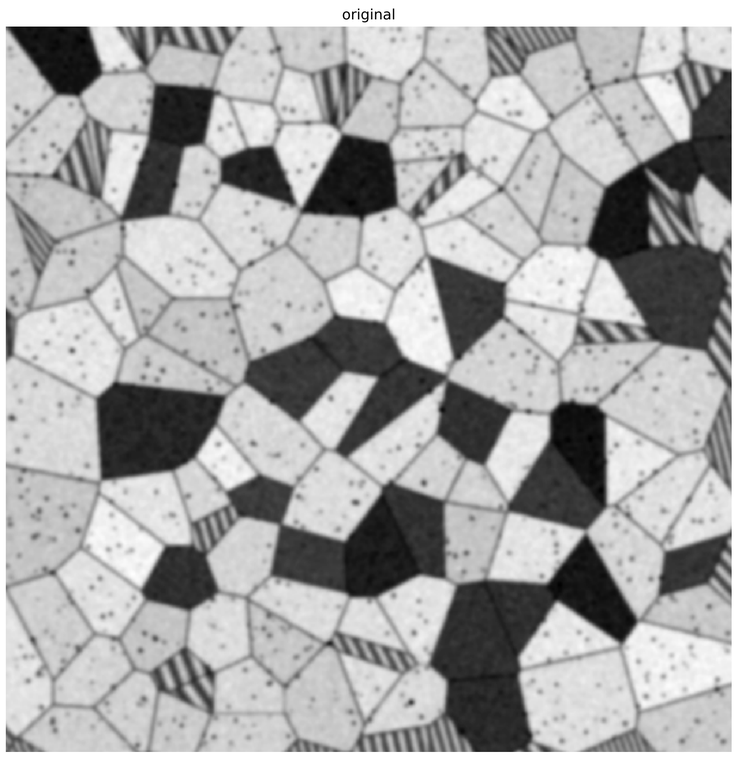


predicted white phase



data/base microstructure/image_176.png

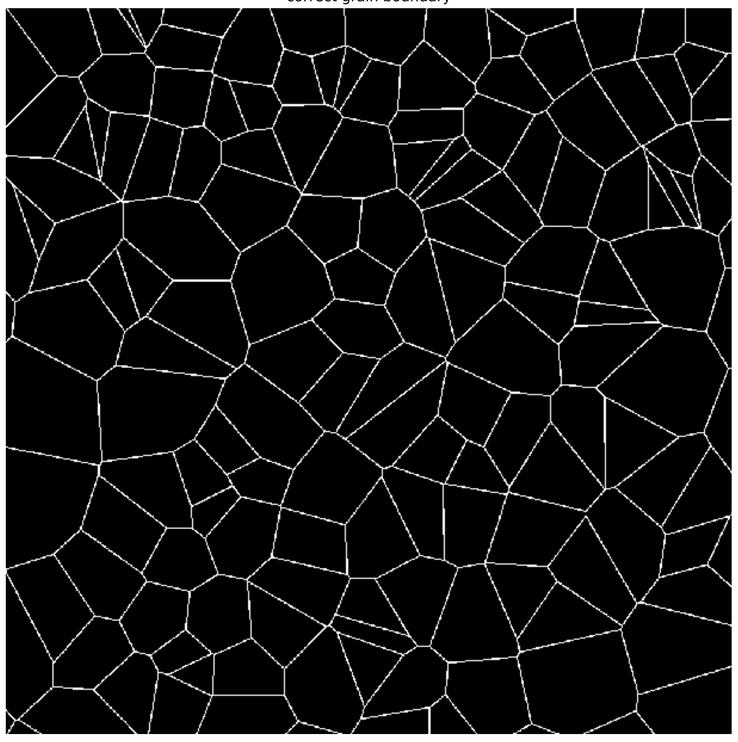
original



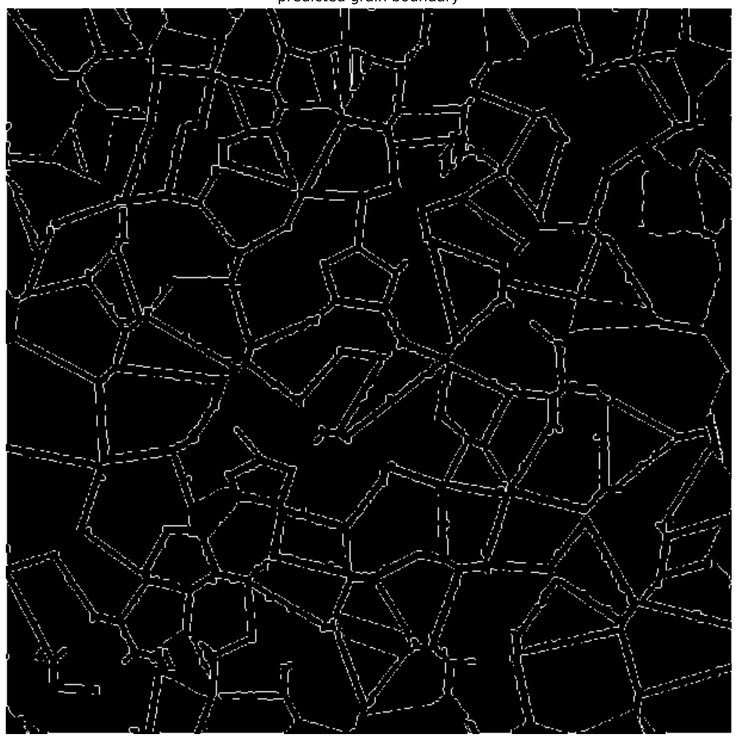
metrics

metric	correct	predicted	error
dark frac	0.211	0.203	0.810%
white frac	0.726	0.679	4.667%
line frac	0.063	0.037	2.586%
ave grain diameter	87.760	86.819	1.072%

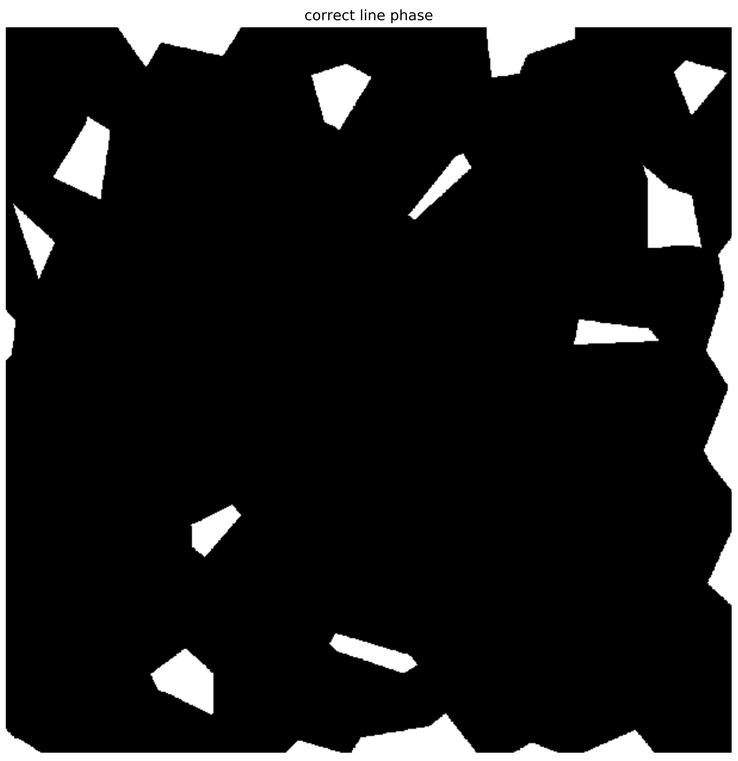
correct grain boundary



predicted grain boundary



correct line phase



predicted line phase

correct dark phase

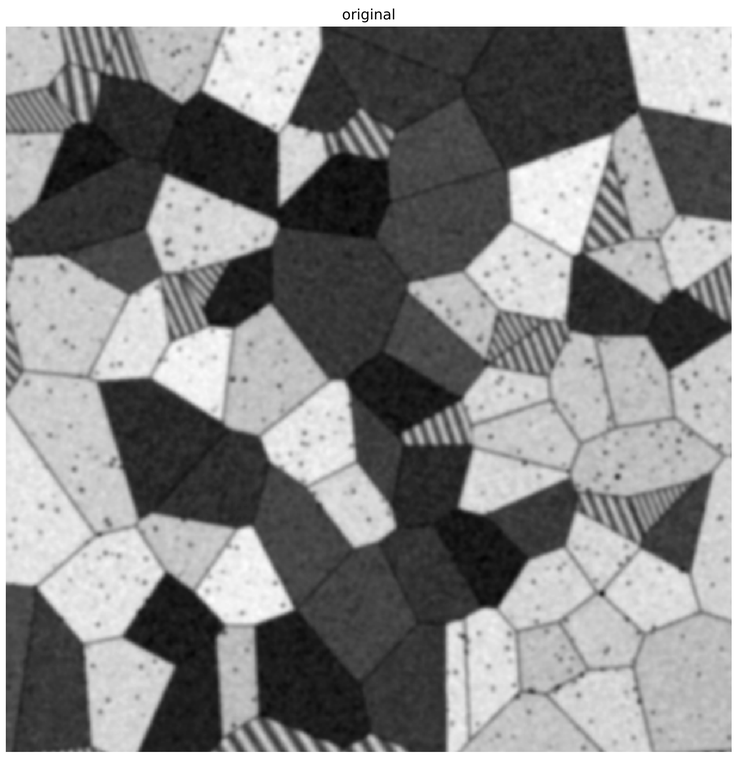
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_177.png

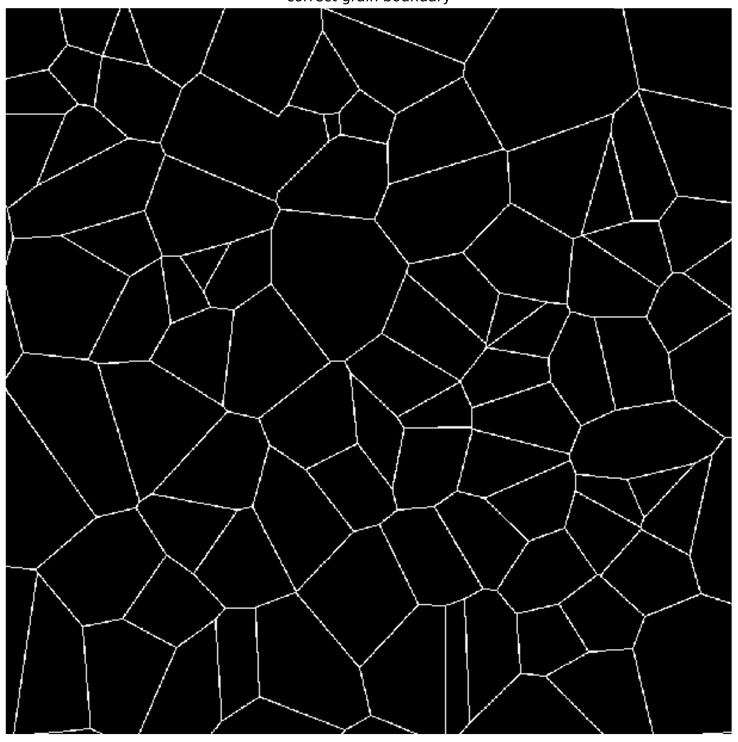
original



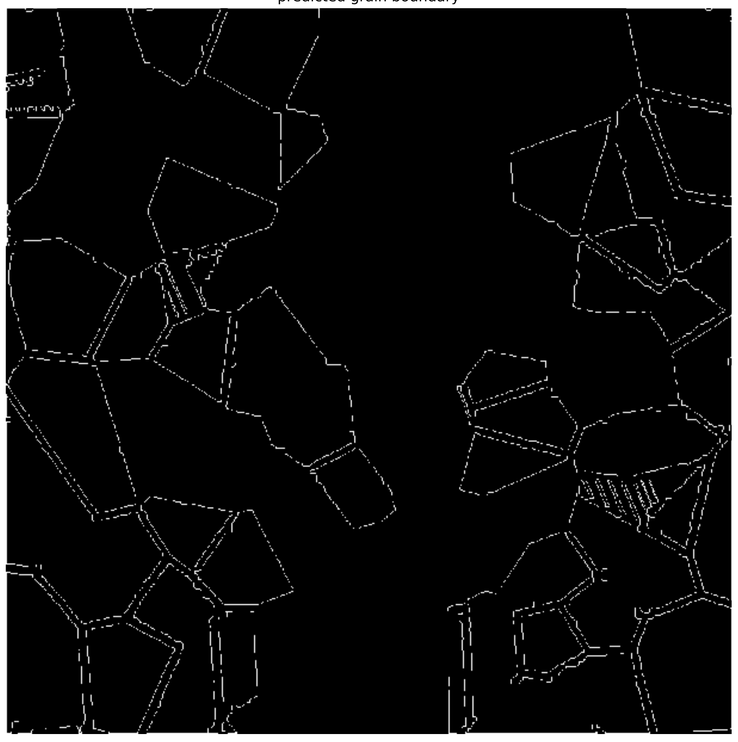
metrics

metric	correct	predicted	error
dark frac	0.445	0.438	0.778%
white frac	0.494	0.457	3.699%
line frac	0.060	0.041	1.960%
ave grain diameter	109.913	100.795	8.296%

correct grain boundary



predicted grain boundary



correct line phase

predicted line phase

correct dark phase

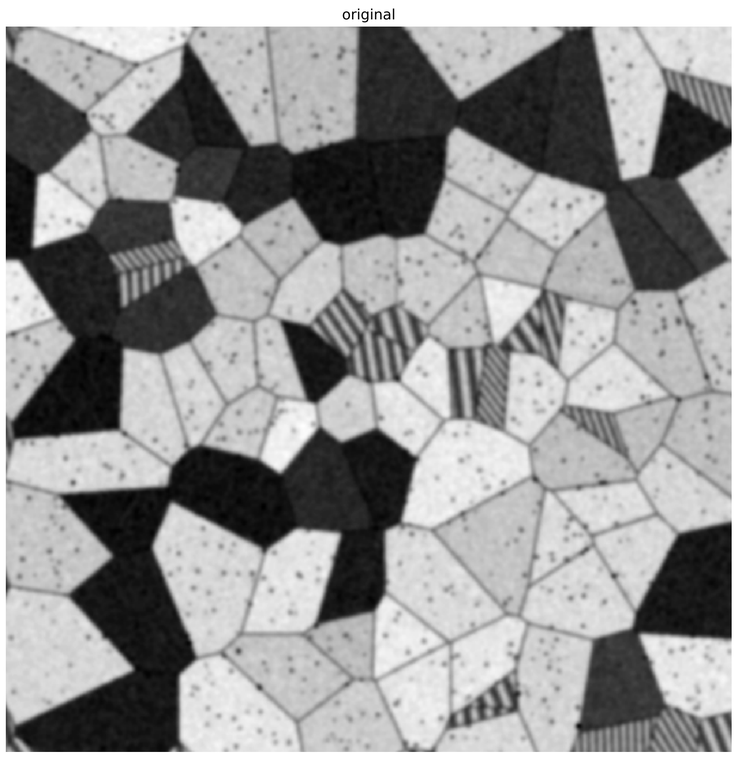
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_178.png

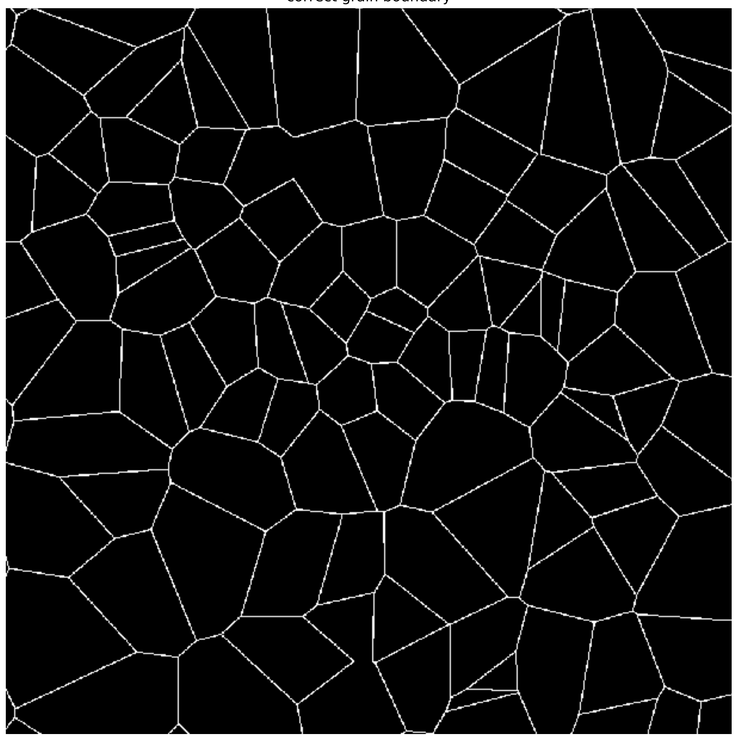
original



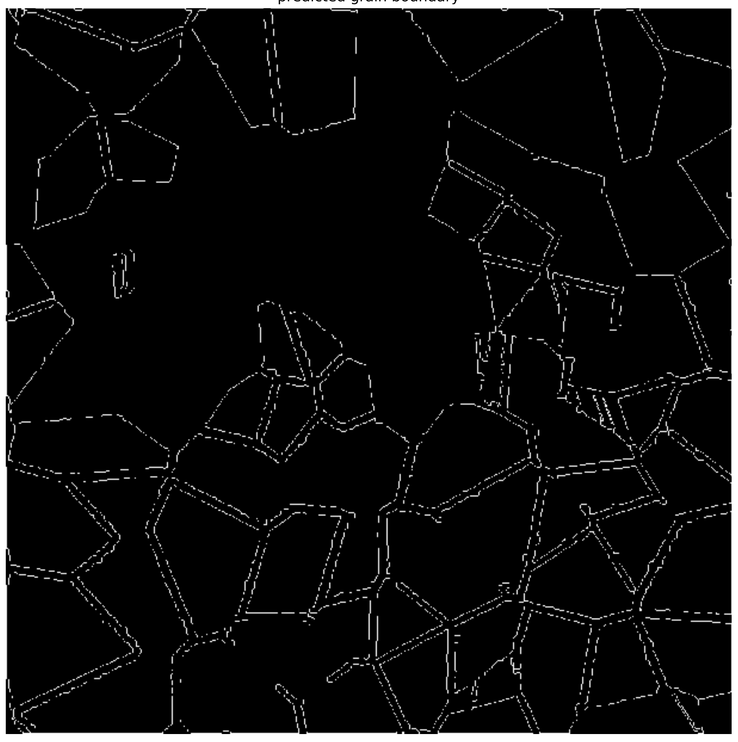
metrics

metric	correct	predicted	error
dark frac	0.304	0.294	0.998%
white frac	0.642	0.603	3.884%
line frac	0.053	0.036	1.760%
ave grain diameter	102.698	102.389	0.301%

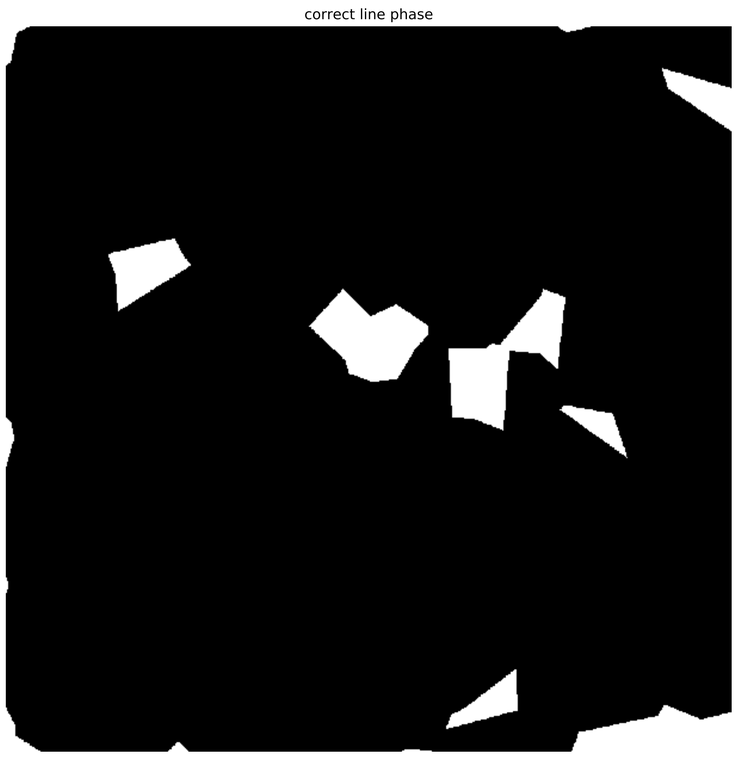
correct grain boundary



predicted grain boundary



correct line phase

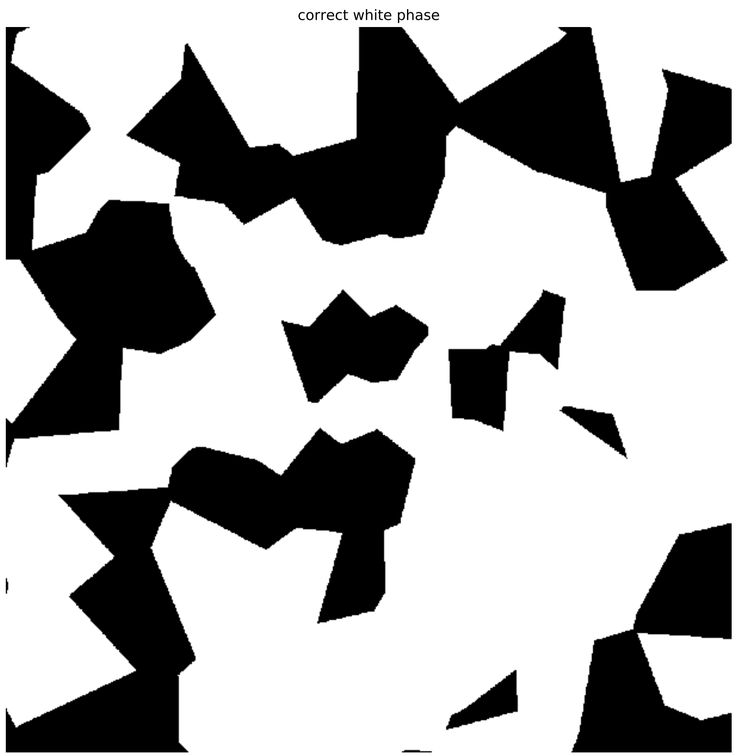


predicted line phase

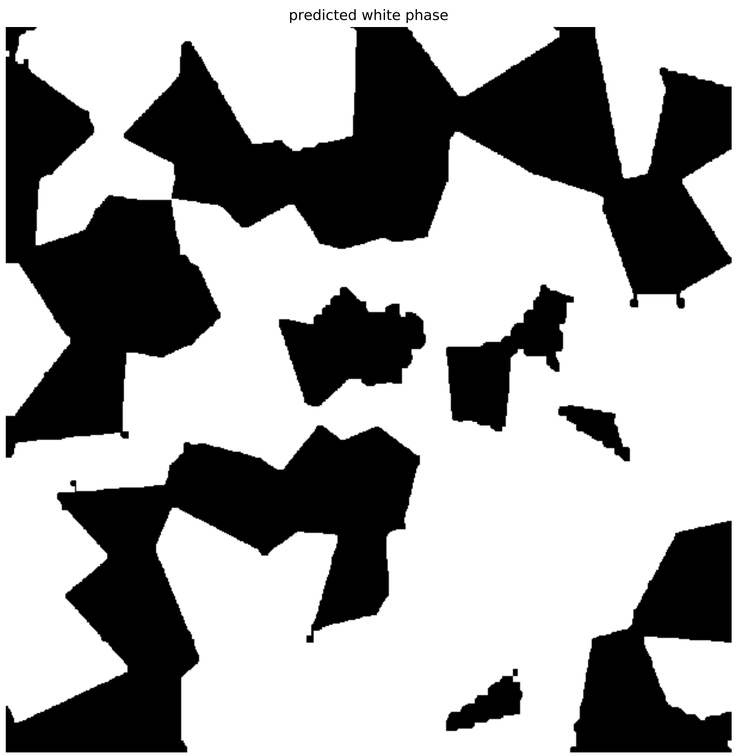
correct dark phase

predicted dark phase

correct white phase

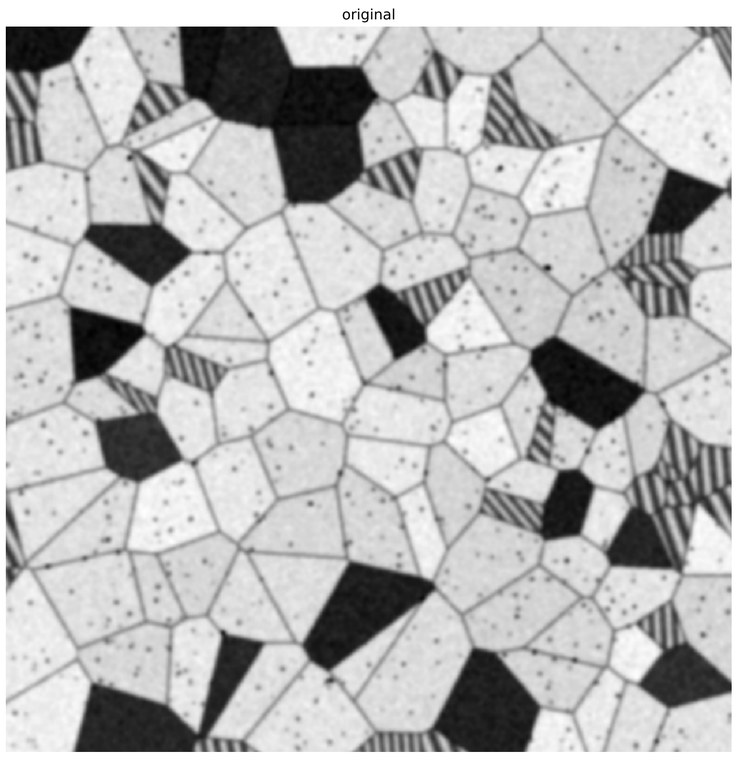


predicted white phase



data/base microstructure/image_179.png

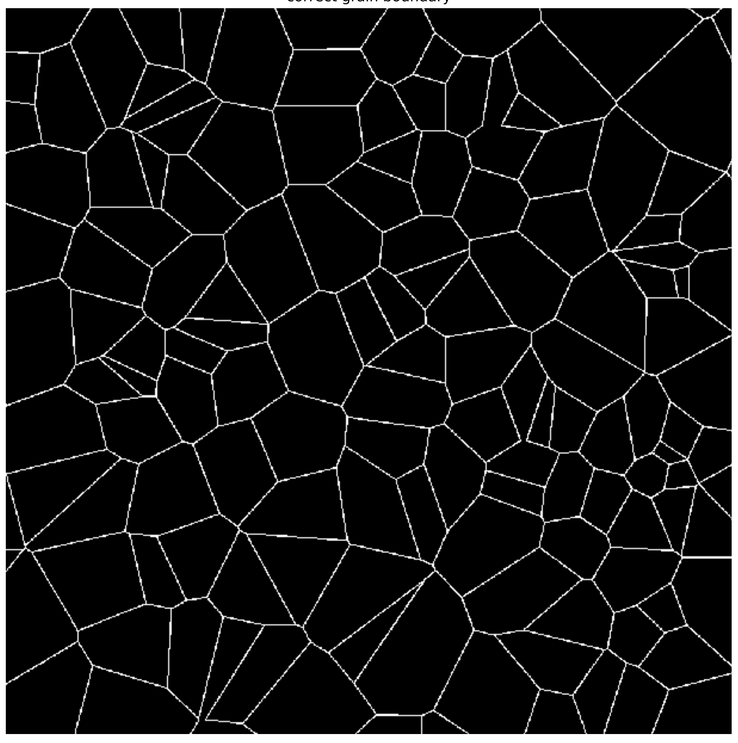
original



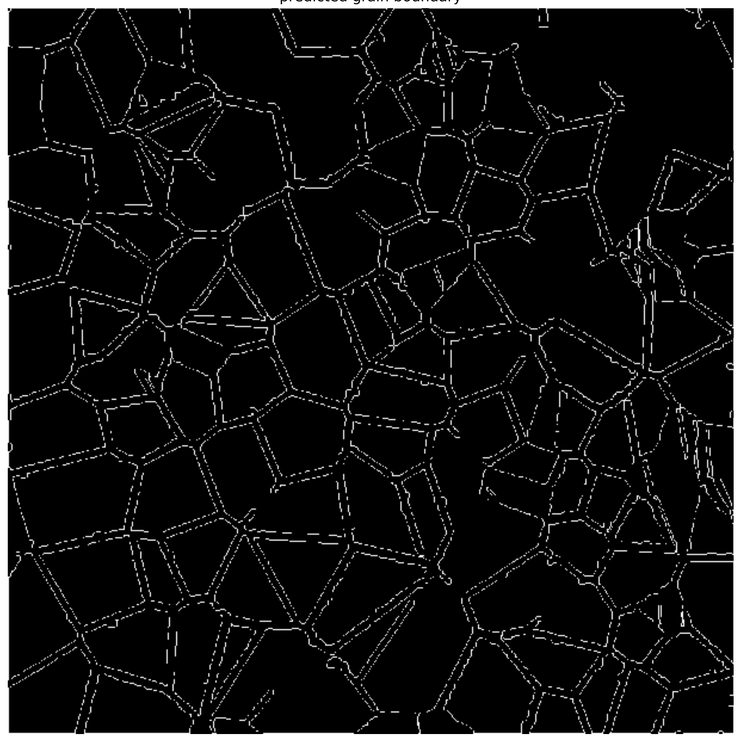
metrics

metric	correct	predicted	error
dark frac	0.144	0.139	0.524%
white frac	0.784	0.747	3.695%
line frac	0.072	0.048	2.427%
ave grain diameter	90.547	80.876	10.680%

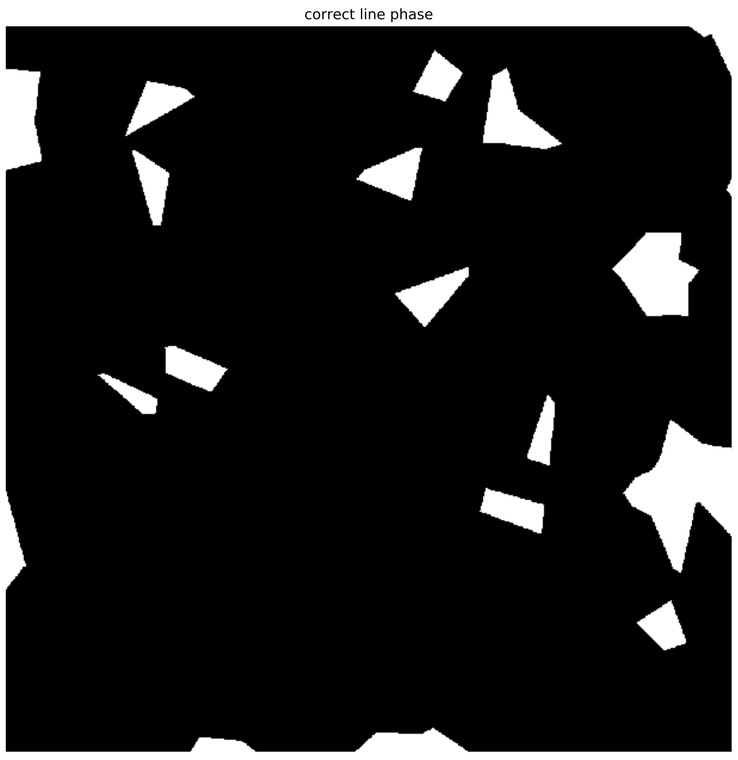
correct grain boundary



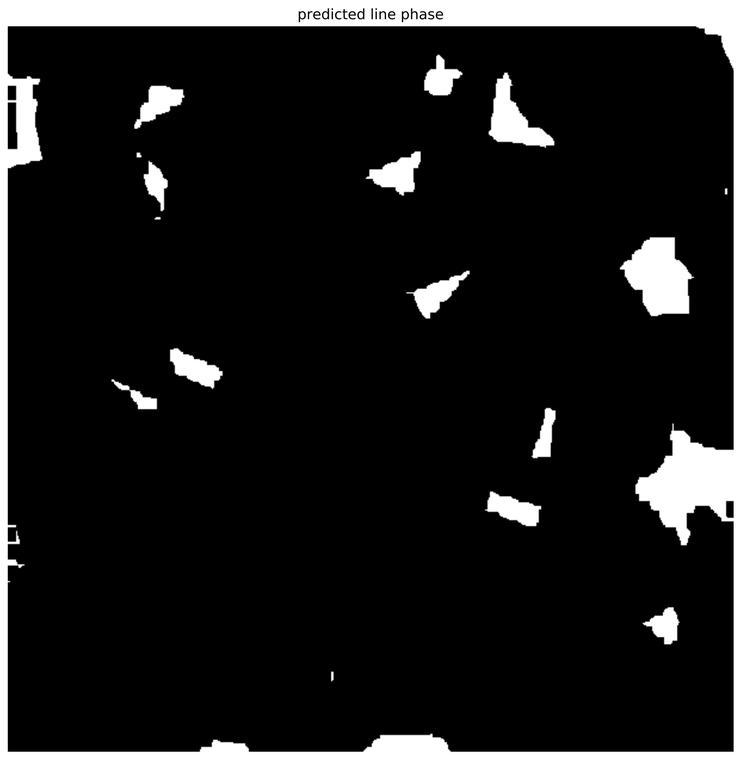
predicted grain boundary



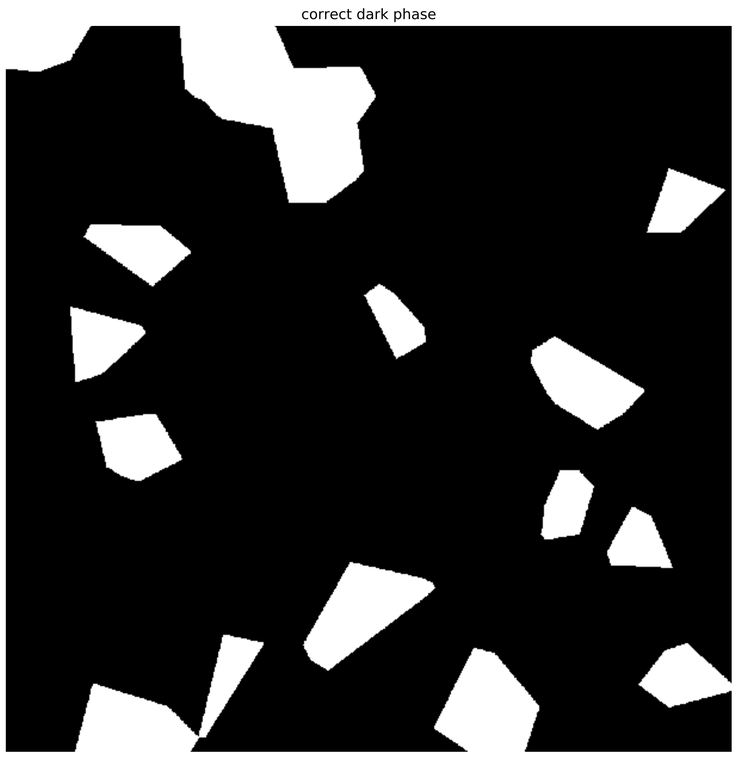
correct line phase



predicted line phase



correct dark phase



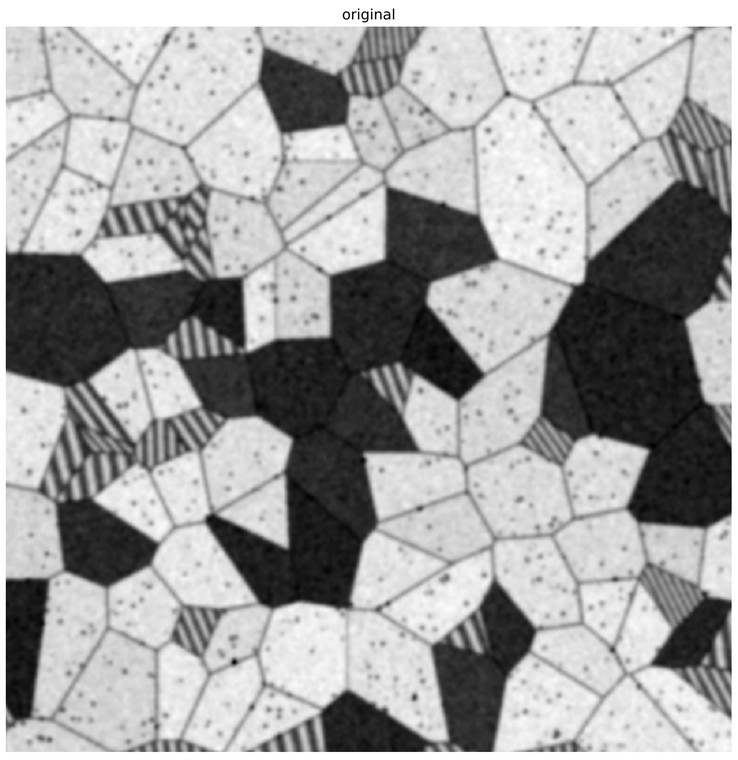
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_18.png

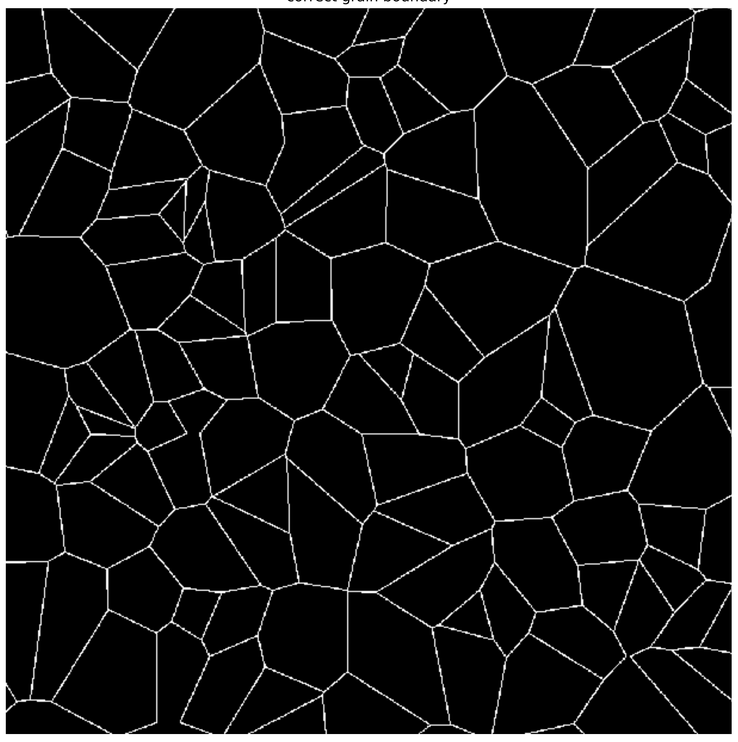
original



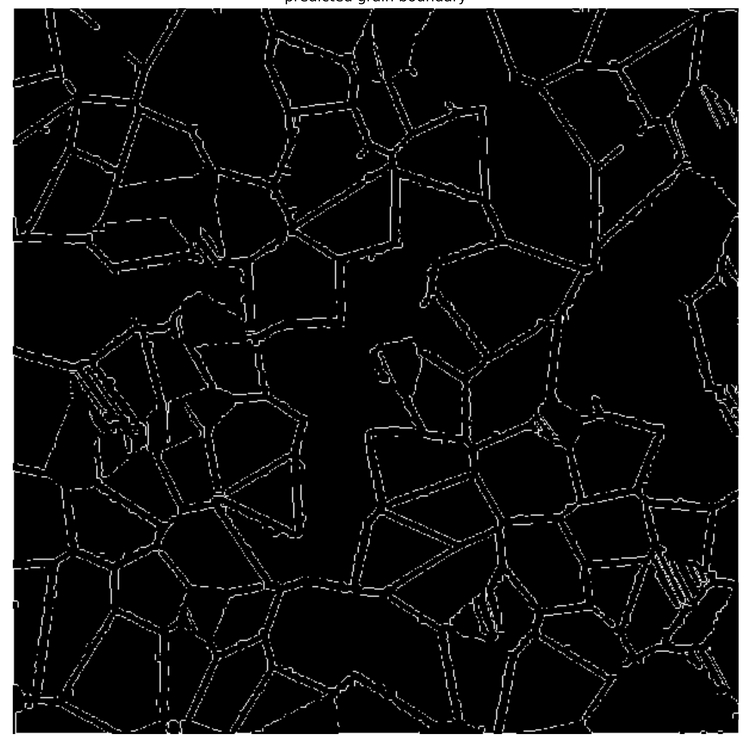
metrics

metric	correct	predicted	error
dark frac	0.270	0.266	0.394%
white frac	0.652	0.616	3.606%
line frac	0.078	0.053	2.569%
ave grain diameter	98.046	100.128	2.124%

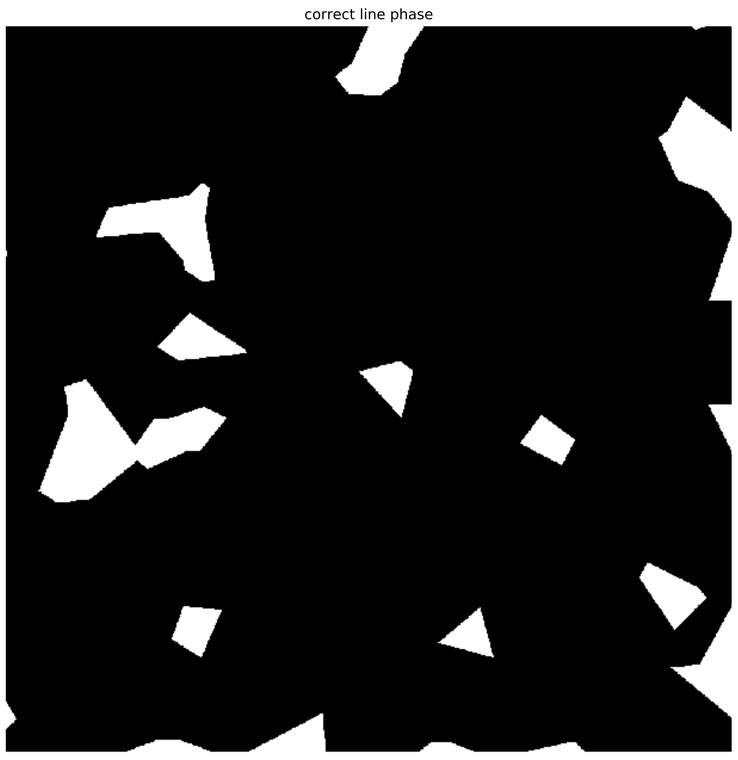
correct grain boundary



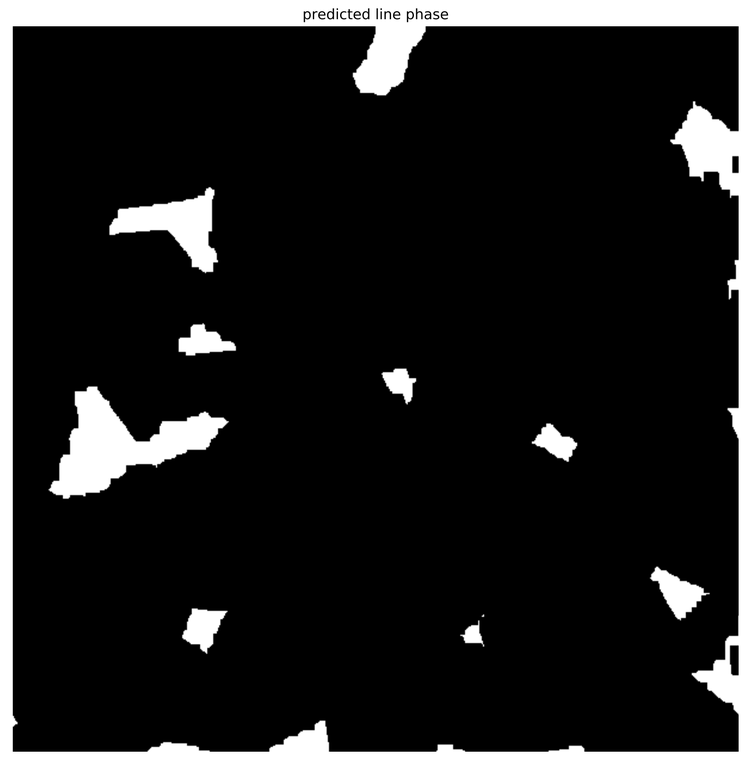
predicted grain boundary



correct line phase



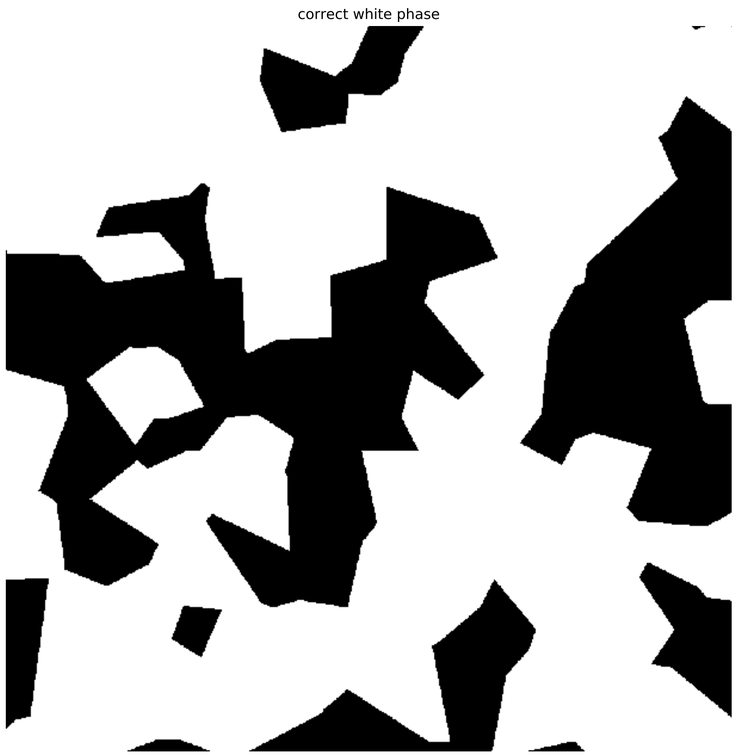
predicted line phase



correct dark phase

predicted dark phase

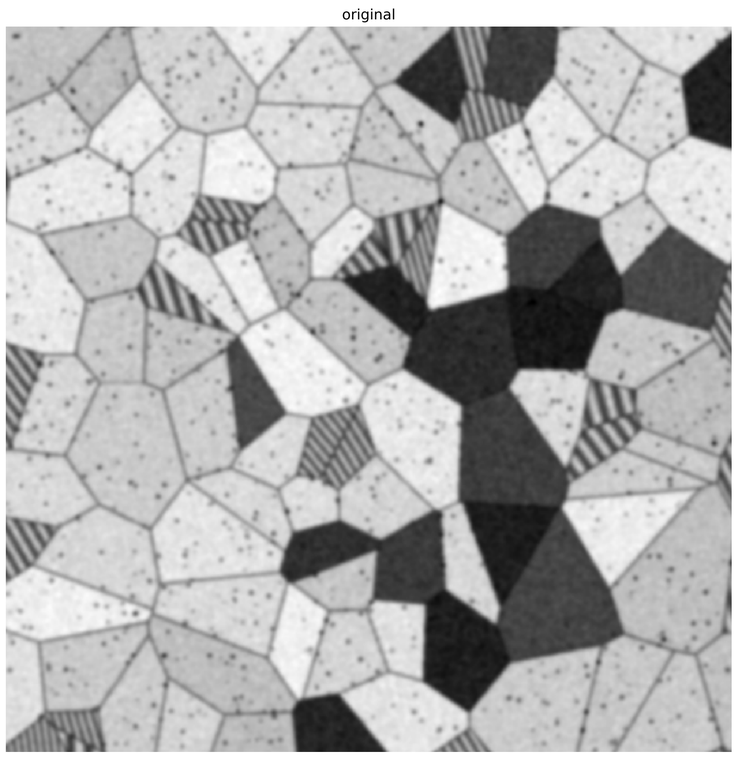
correct white phase



predicted white phase

data/base microstructure/image_180.png

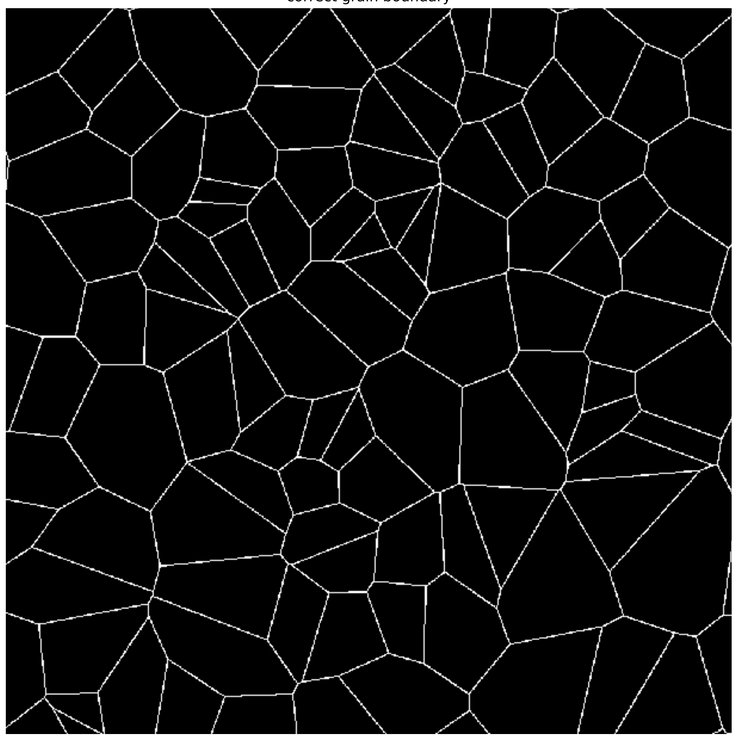
original



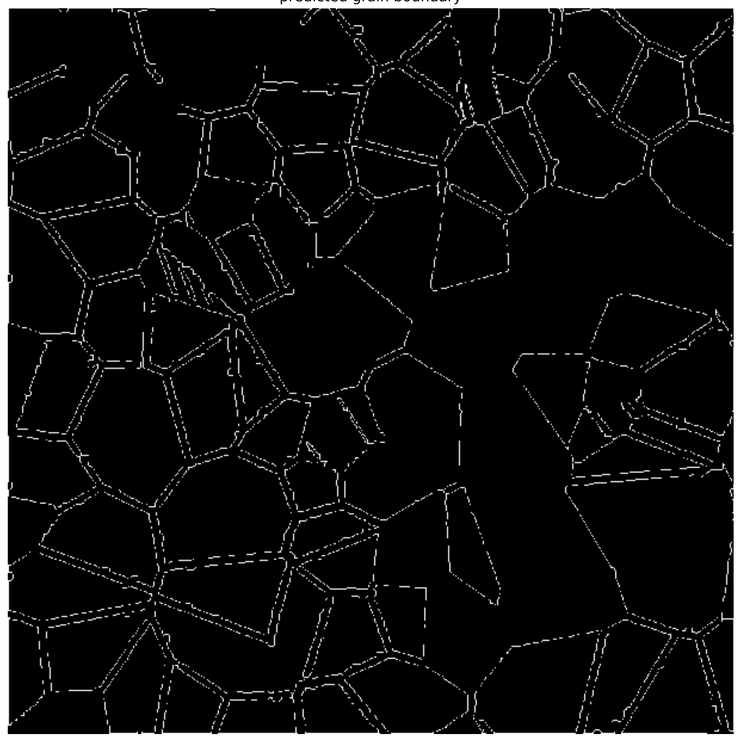
metrics

metric	correct	predicted	error
dark frac	0.179	0.174	0.483%
white frac	0.758	0.726	3.204%
line frac	0.063	0.045	1.809%
ave grain diameter	103.941	94.375	9.203%

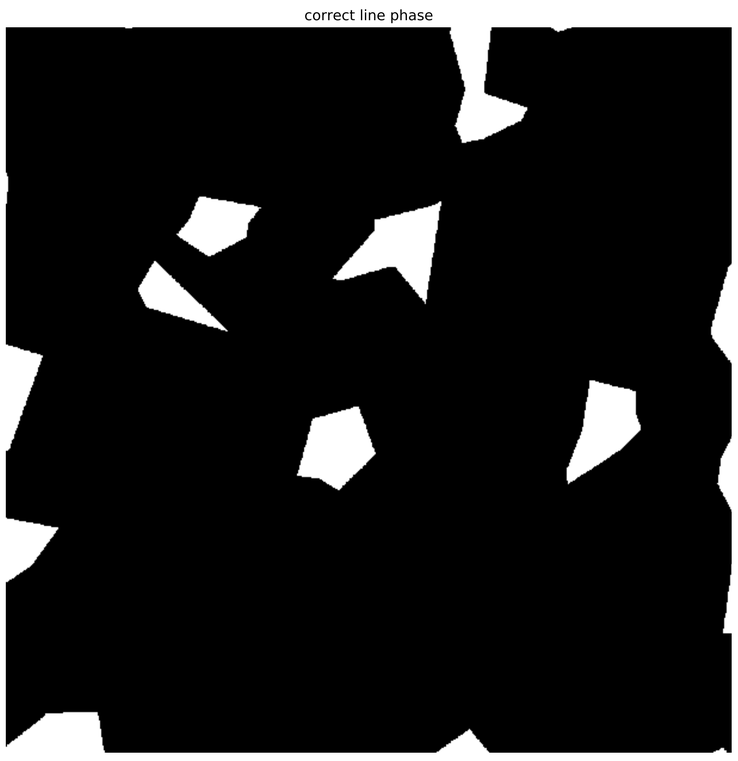
correct grain boundary



predicted grain boundary

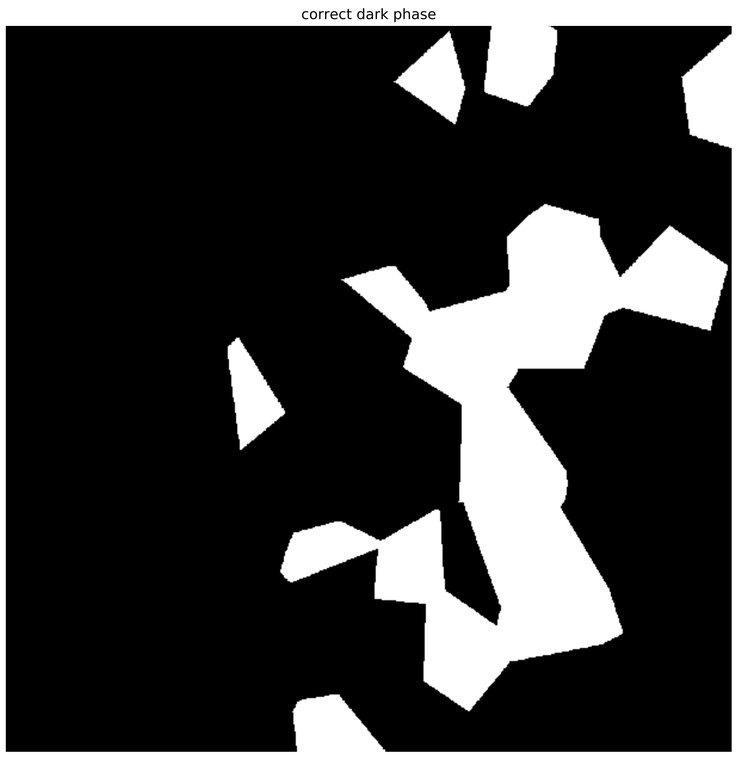


correct line phase



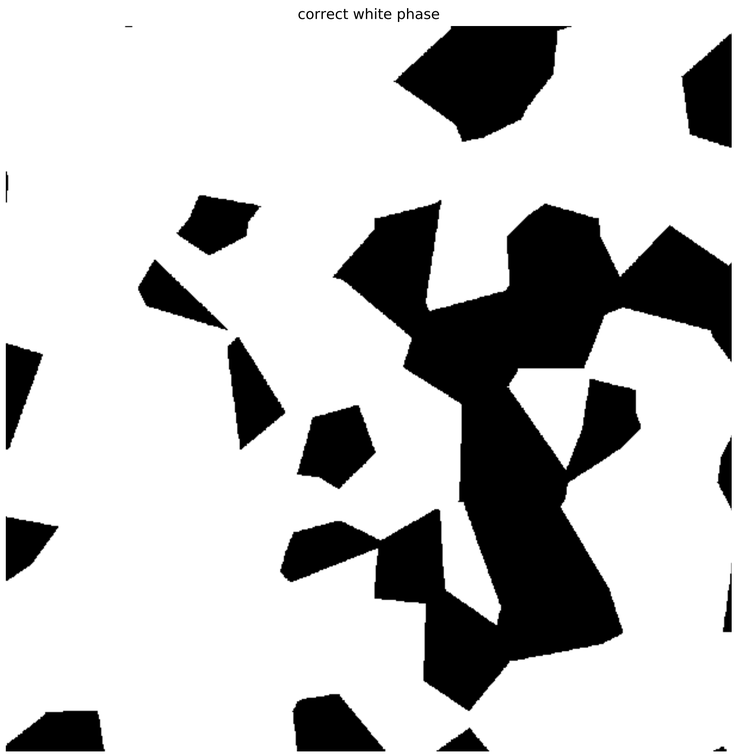
predicted line phase

correct dark phase

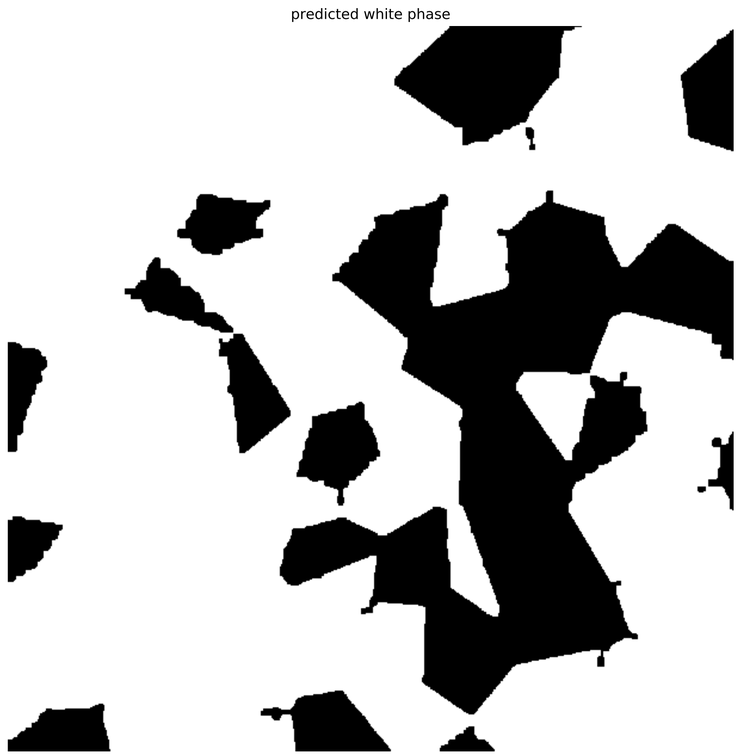


predicted dark phase

correct white phase

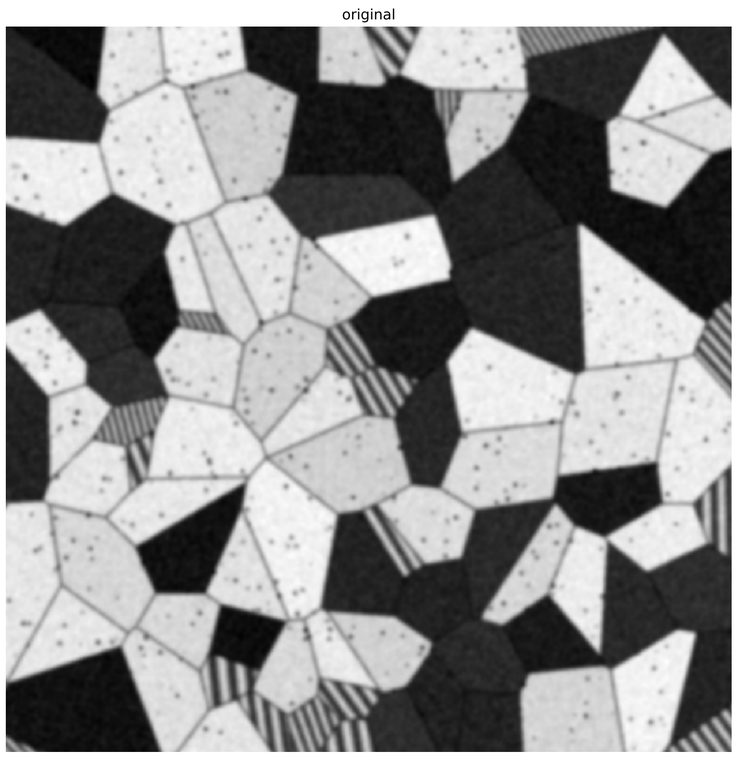


predicted white phase



data/base microstructure/image_181.png

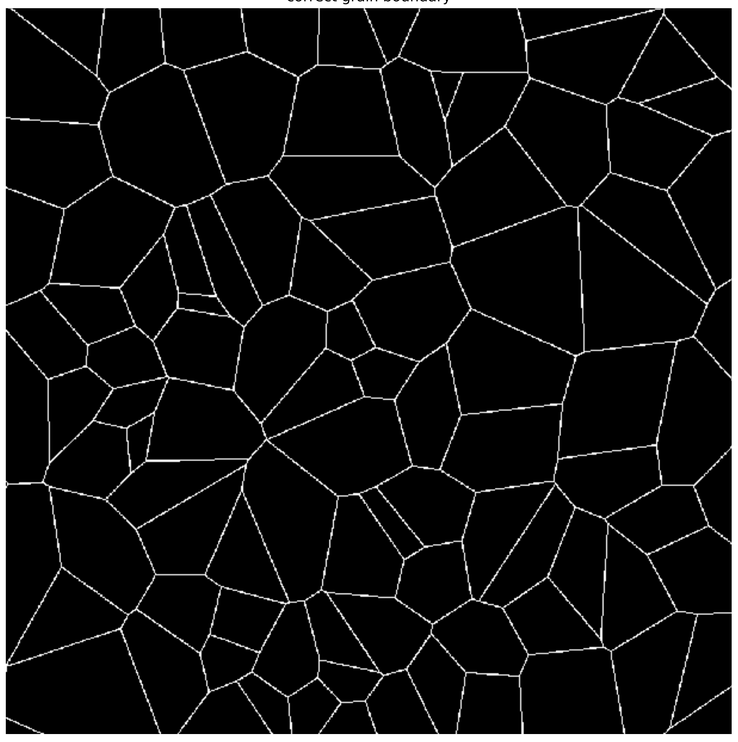
original



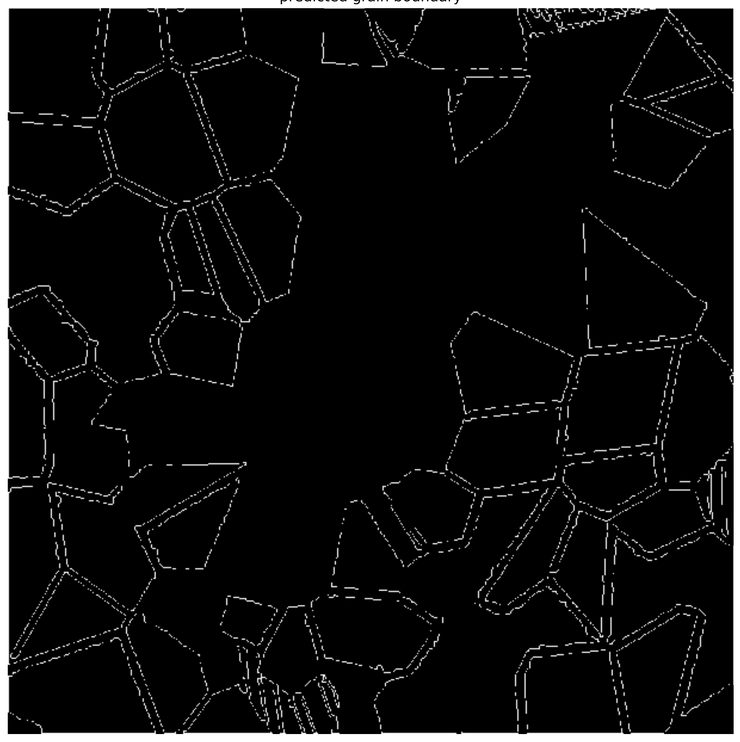
metrics

metric	correct	predicted	error
dark frac	0.402	0.392	1.029%
white frac	0.540	0.504	3.610%
line frac	0.058	0.035	2.251%
ave grain diameter	108.321	100.804	6.939%

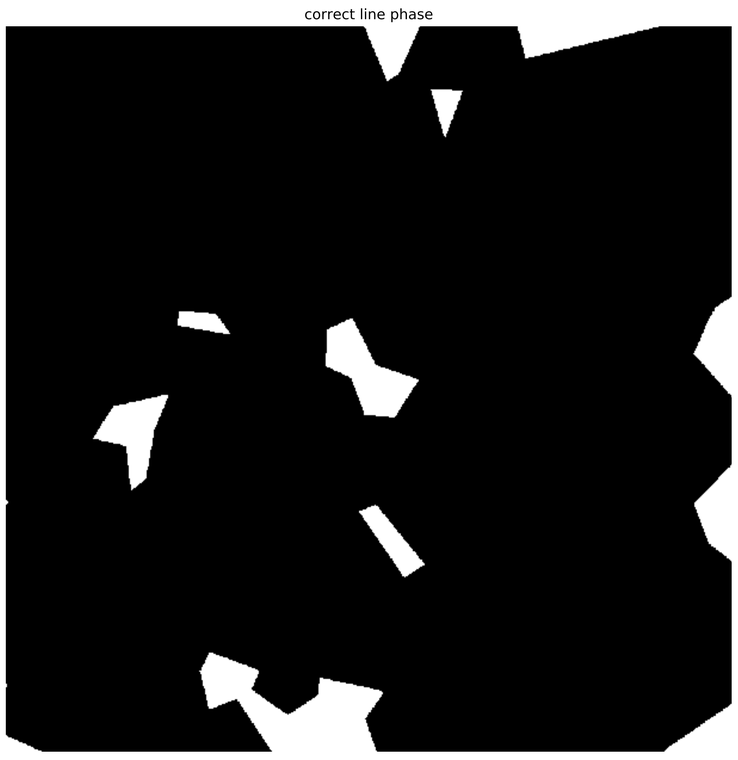
correct grain boundary



predicted grain boundary

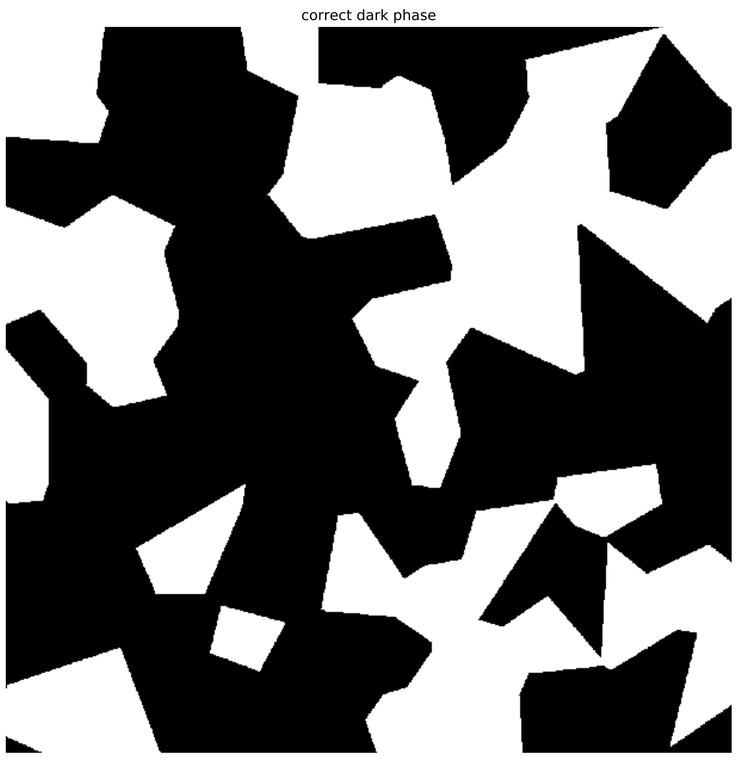


correct line phase



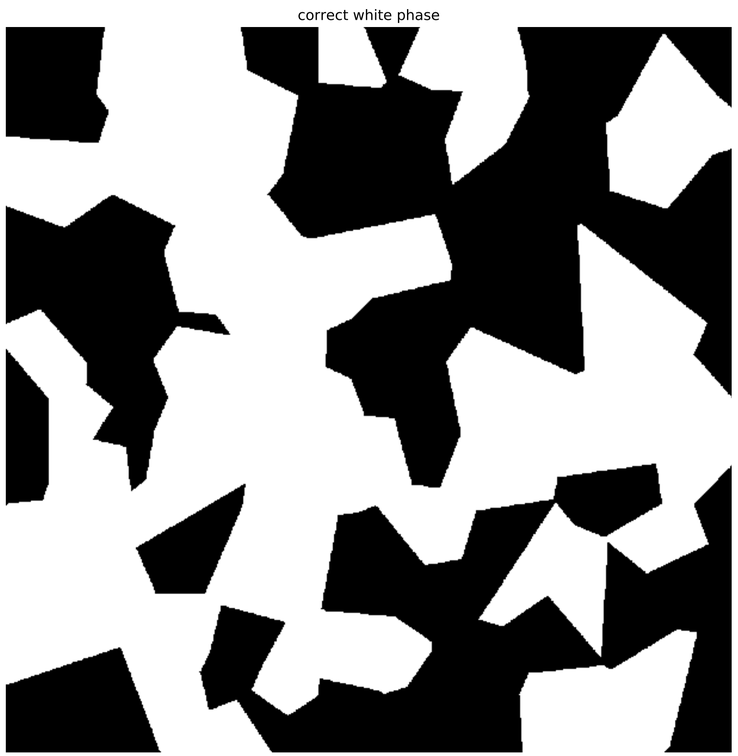
predicted line phase

correct dark phase

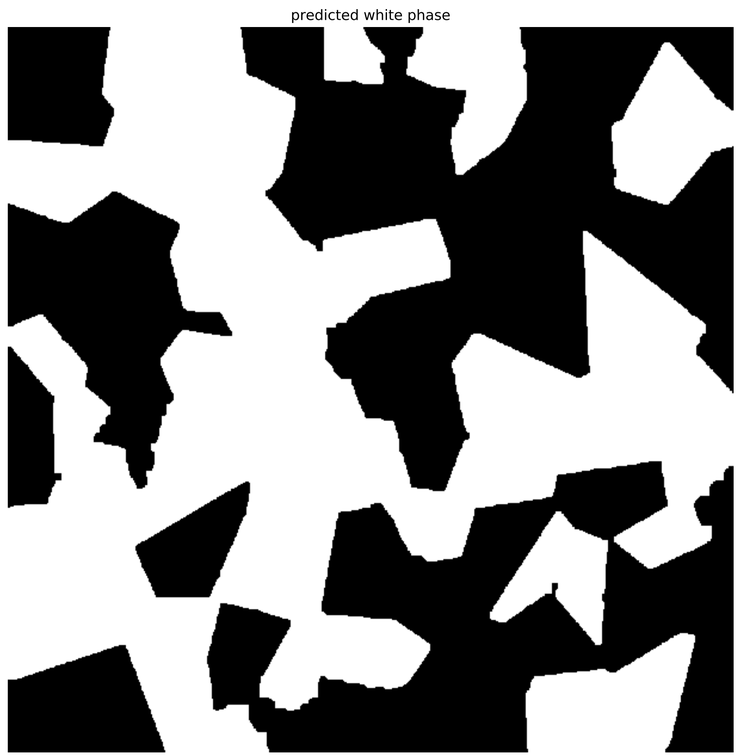


predicted dark phase

correct white phase



predicted white phase



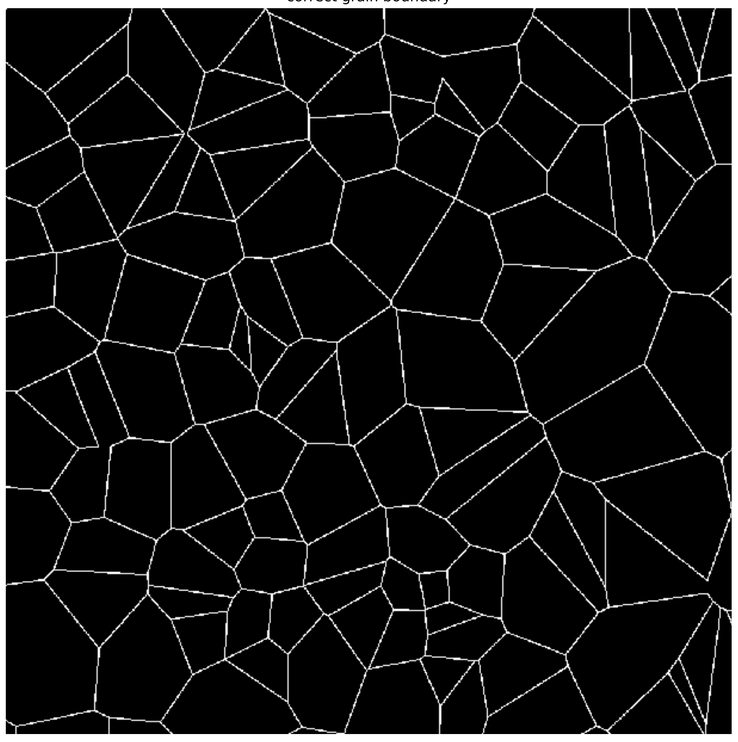
data/base microstructure/image_182.png

original

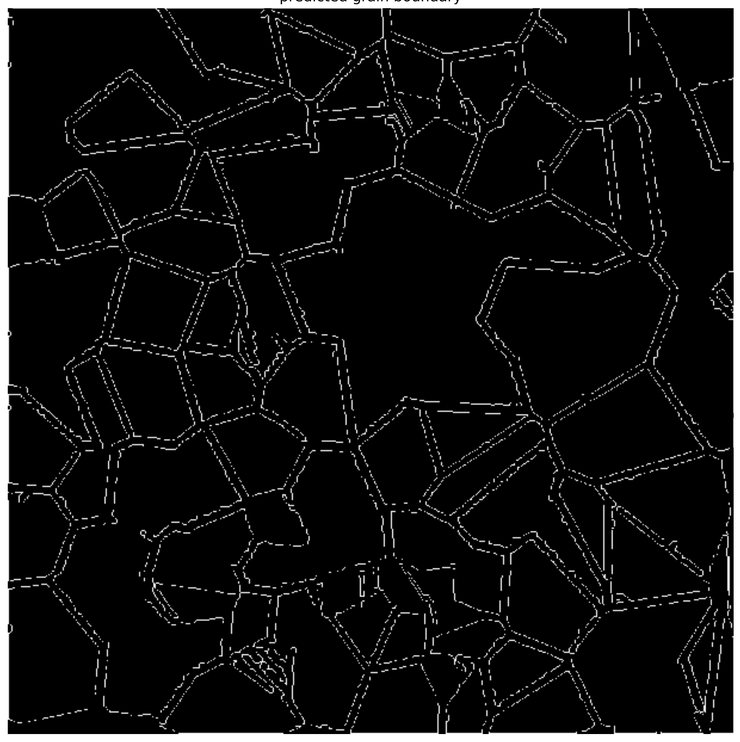
metrics

metric	correct	predicted	error
dark frac	0.383	0.372	1.101%
white frac	0.559	0.517	4.231%
line frac	0.058	0.036	2.269%
ave grain diameter	97.907	99.281	1.404%

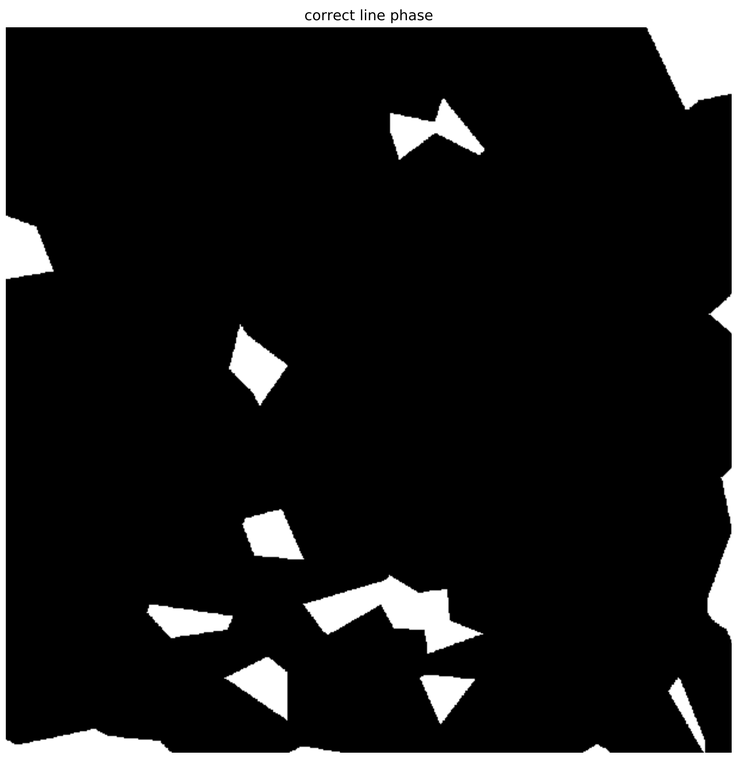
correct grain boundary



predicted grain boundary



correct line phase

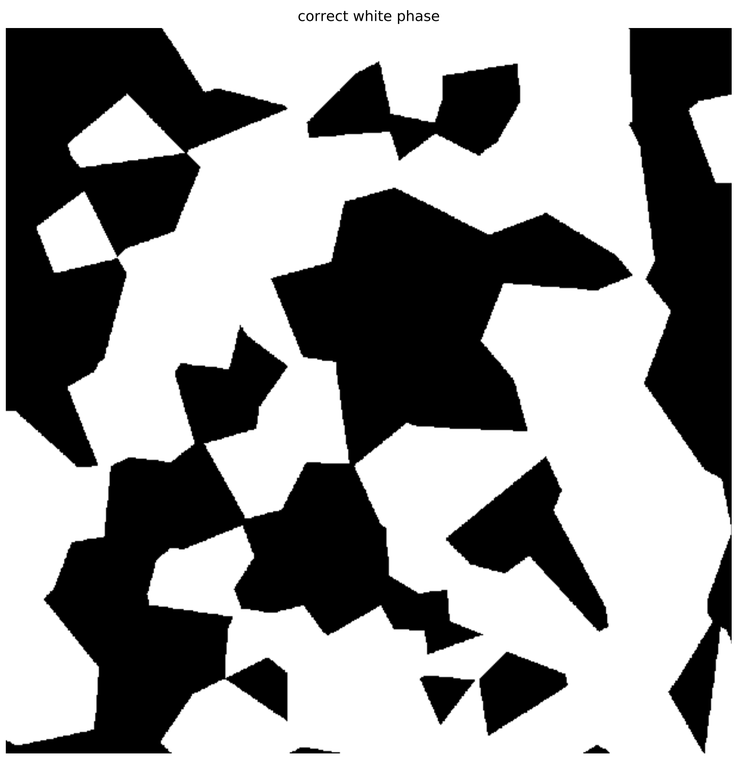


predicted line phase

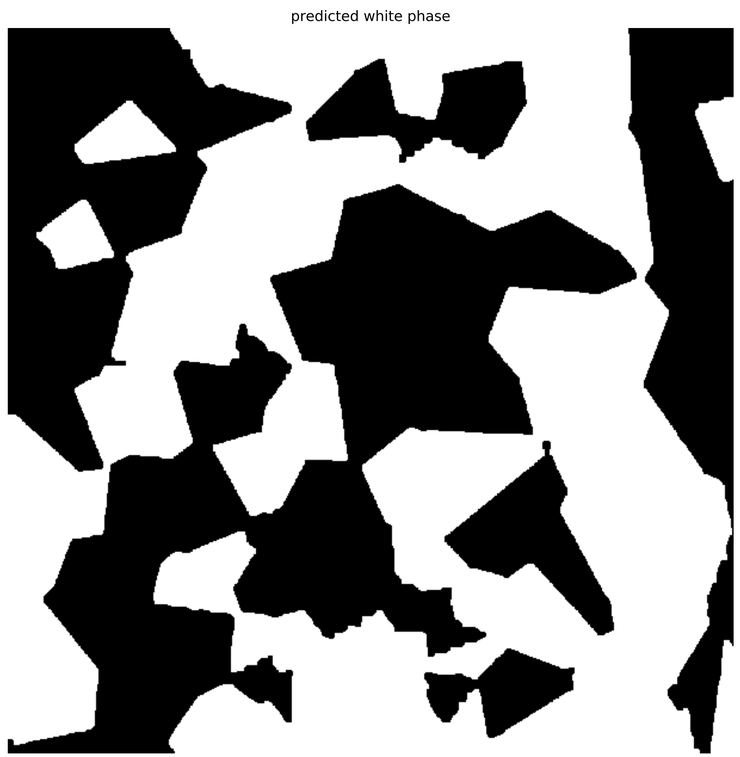
correct dark phase

predicted dark phase

correct white phase

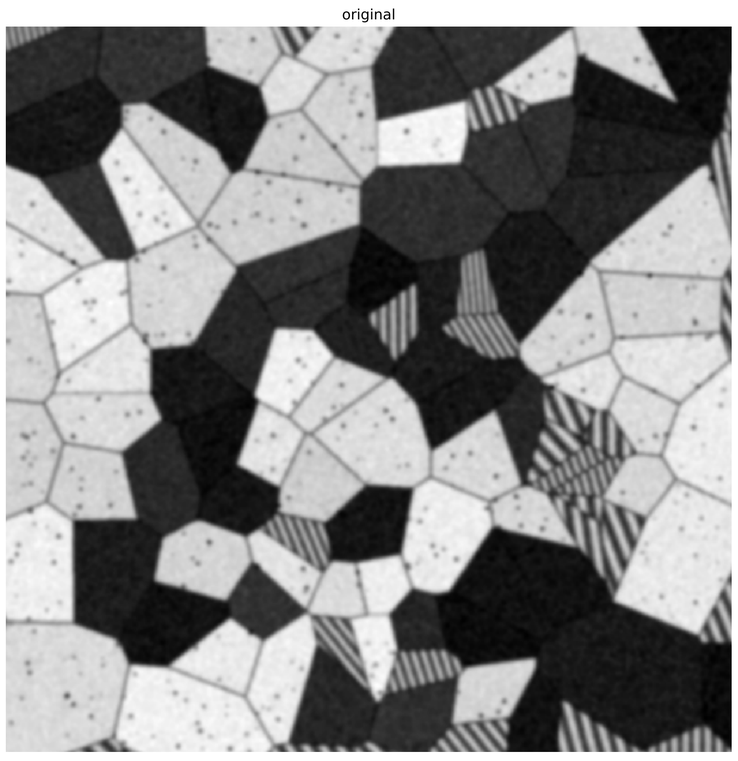


predicted white phase



data/base microstructure/image_183.png

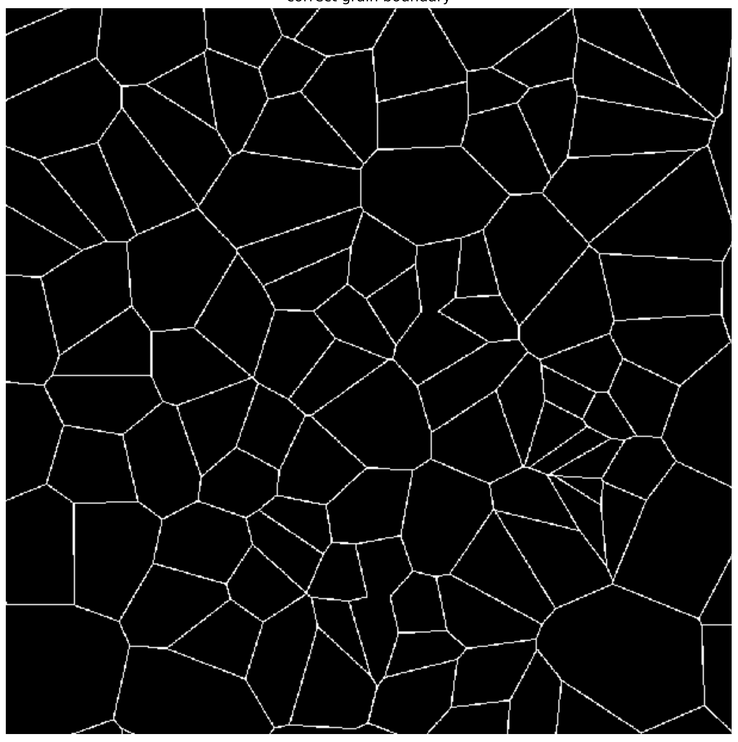
original



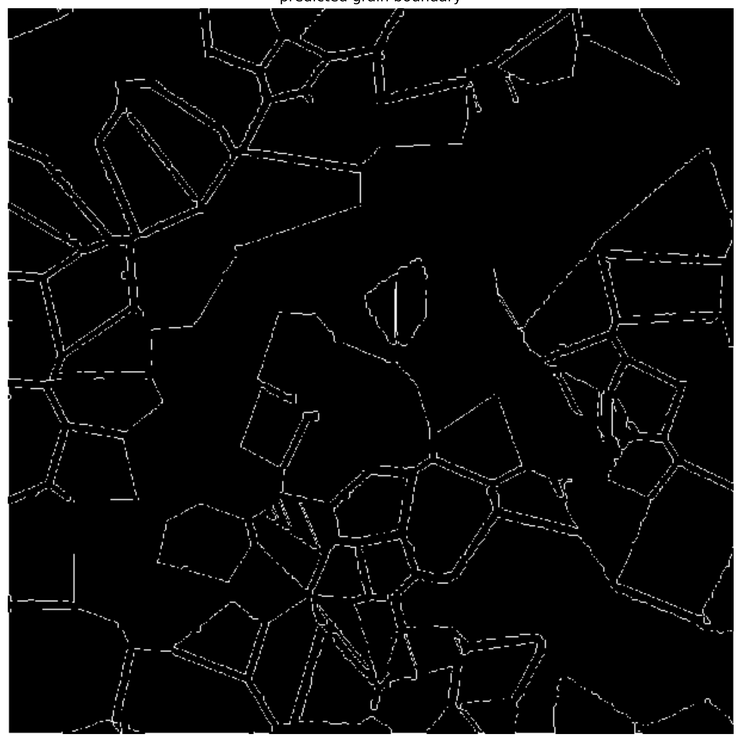
metrics

metric	correct	predicted	error
dark frac	0.423	0.417	0.627%
white frac	0.499	0.467	3.168%
line frac	0.078	0.048	3.024%
ave grain diameter	100.901	98.522	2.357%

correct grain boundary



predicted grain boundary



correct line phase

predicted line phase

correct dark phase

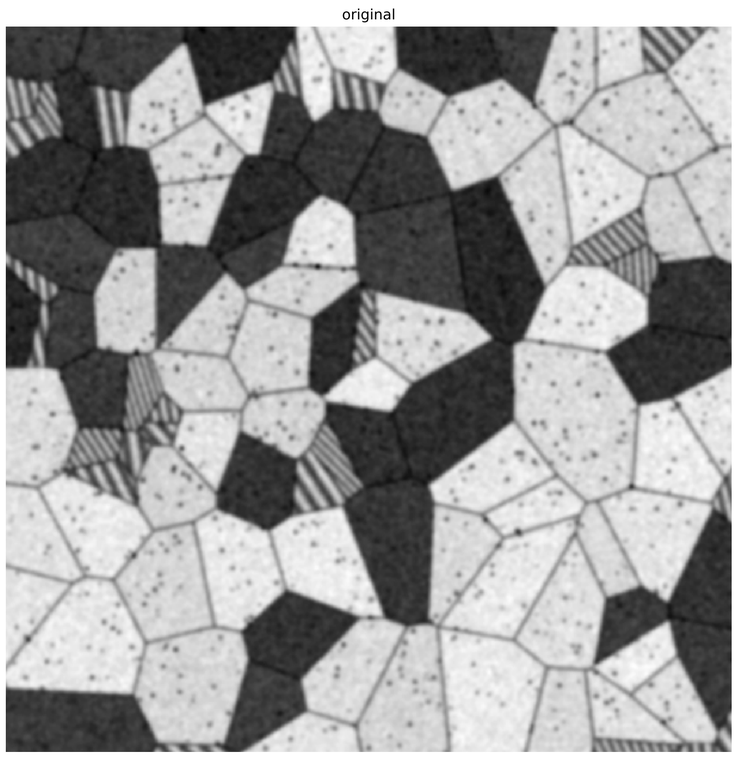
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_184.png

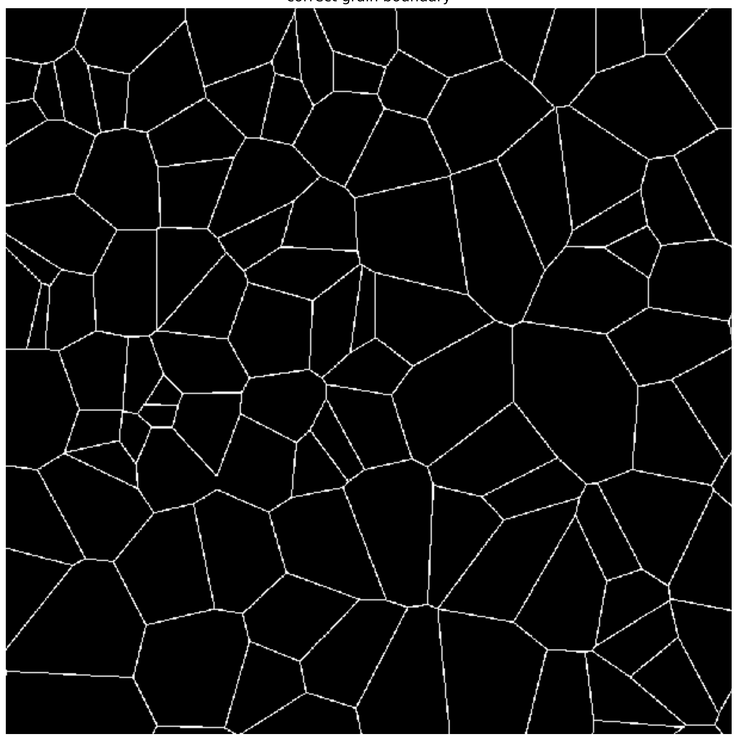
original



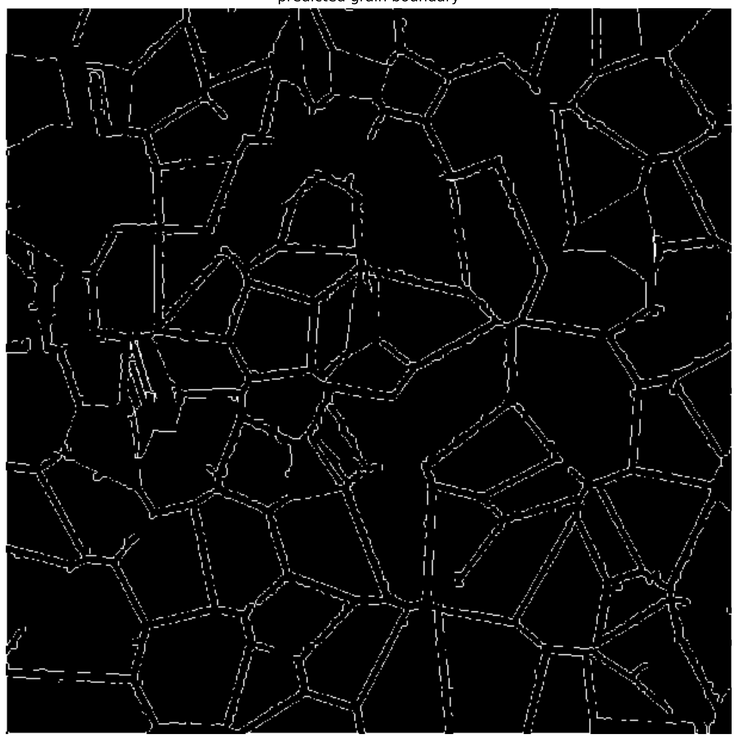
metrics

metric	correct	predicted	error
dark frac	0.337	0.334	0.317%
white frac	0.601	0.559	4.228%
line frac	0.062	0.038	2.400%
ave grain diameter	101.944	98.734	3.149%

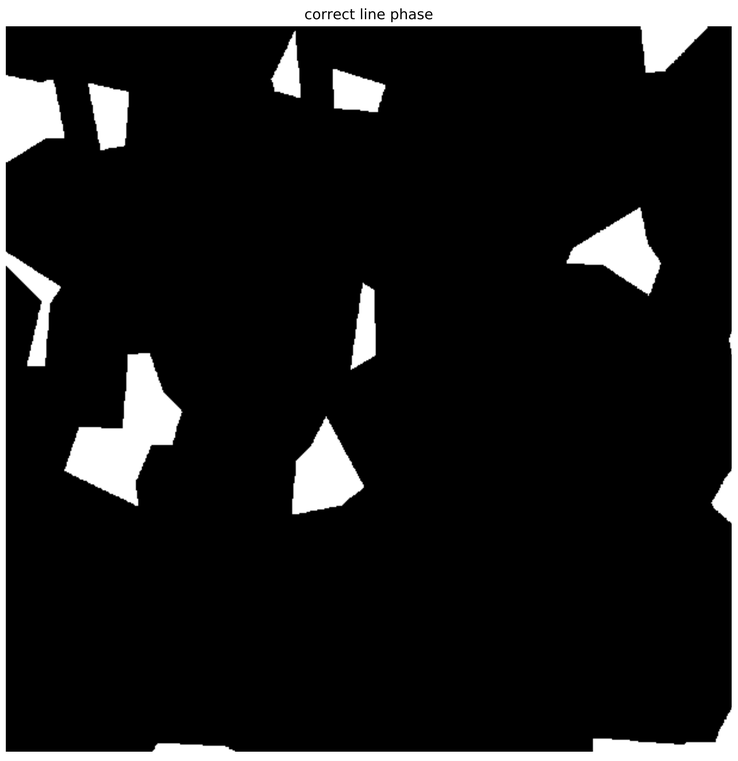
correct grain boundary



predicted grain boundary

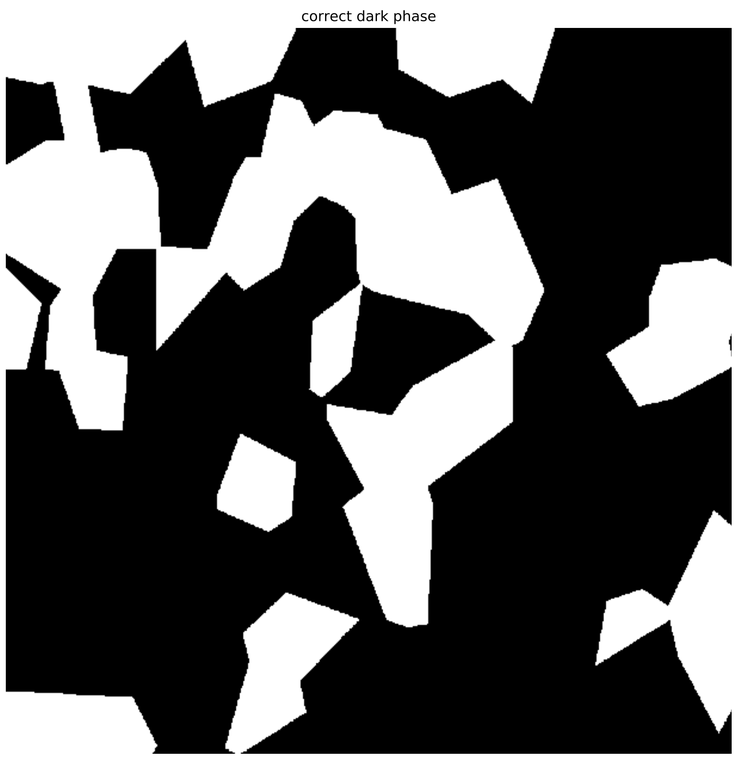


correct line phase



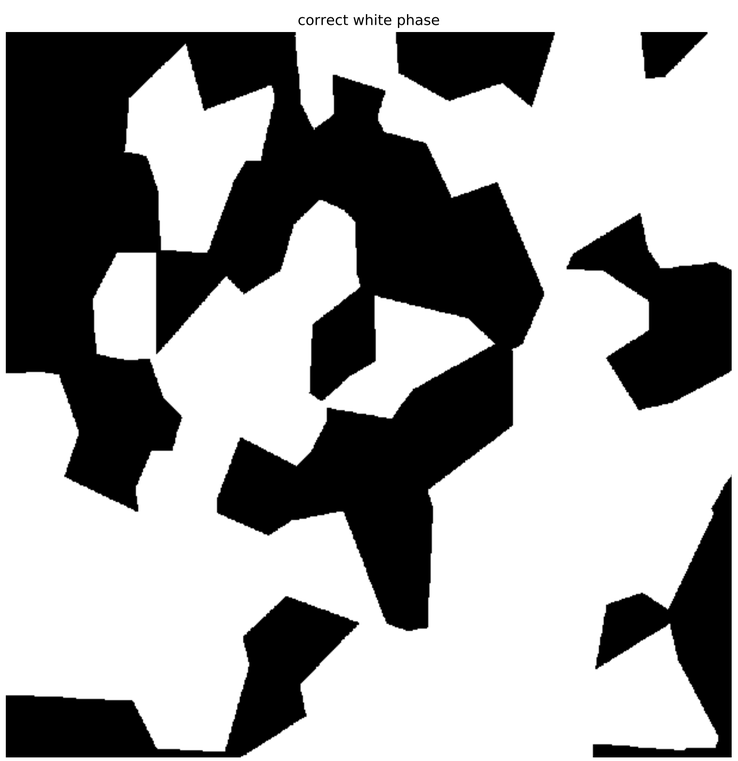
predicted line phase

correct dark phase

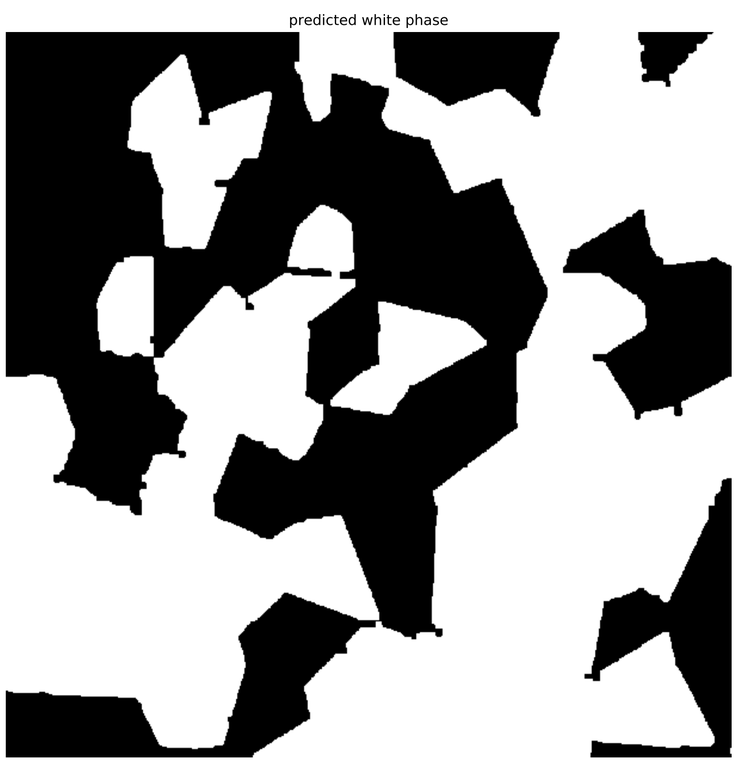


predicted dark phase

correct white phase

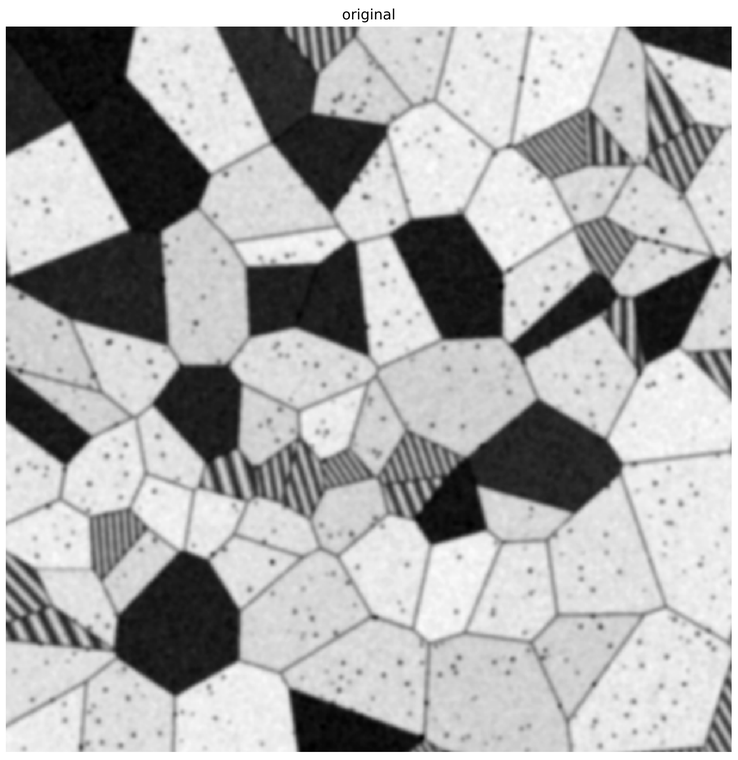


predicted white phase



data/base microstructure/image_185.png

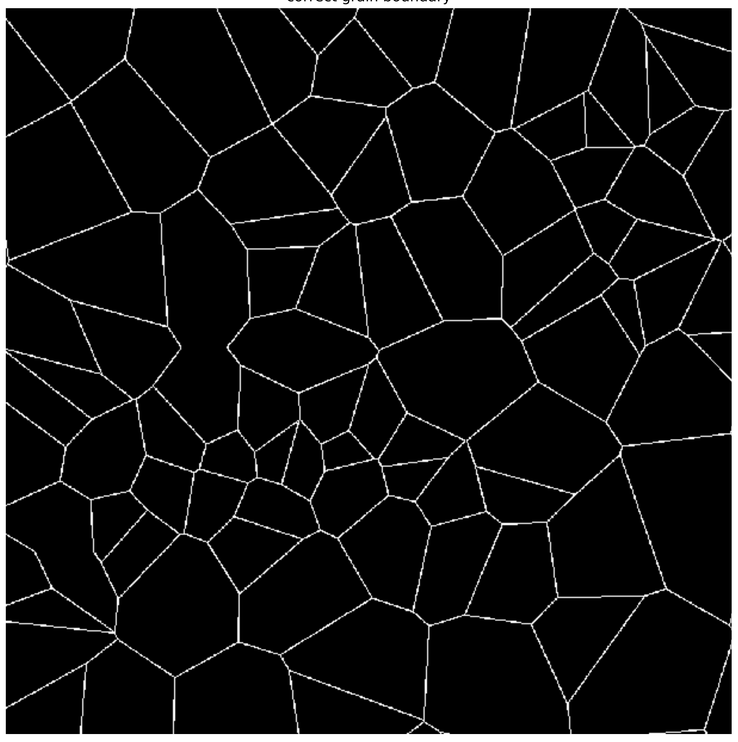
original



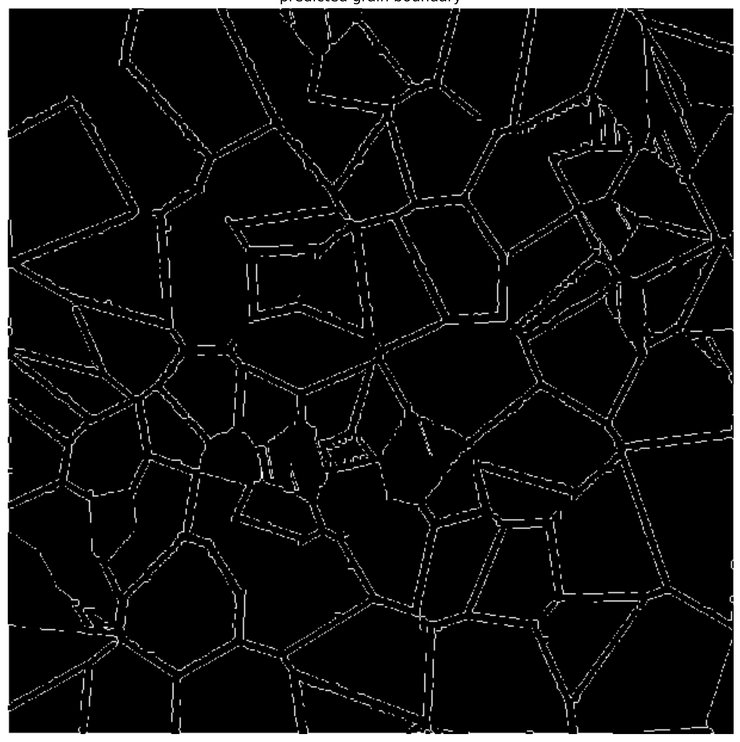
metrics

metric	correct	predicted	error
dark frac	0.219	0.212	0.777%
white frac	0.712	0.671	4.068%
line frac	0.069	0.050	1.879%
ave grain diameter	111.032	105.509	4.974%

correct grain boundary



predicted grain boundary

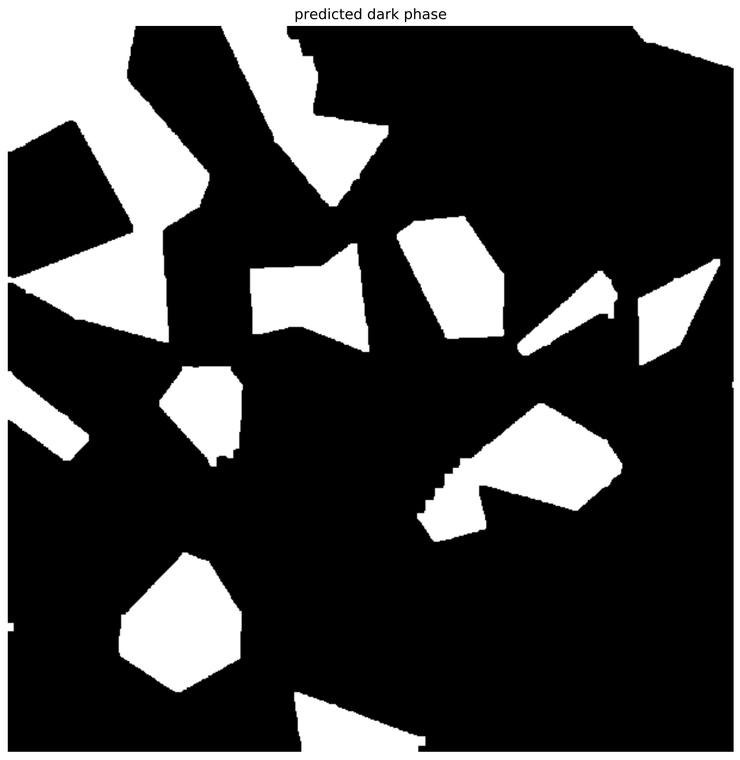


correct line phase

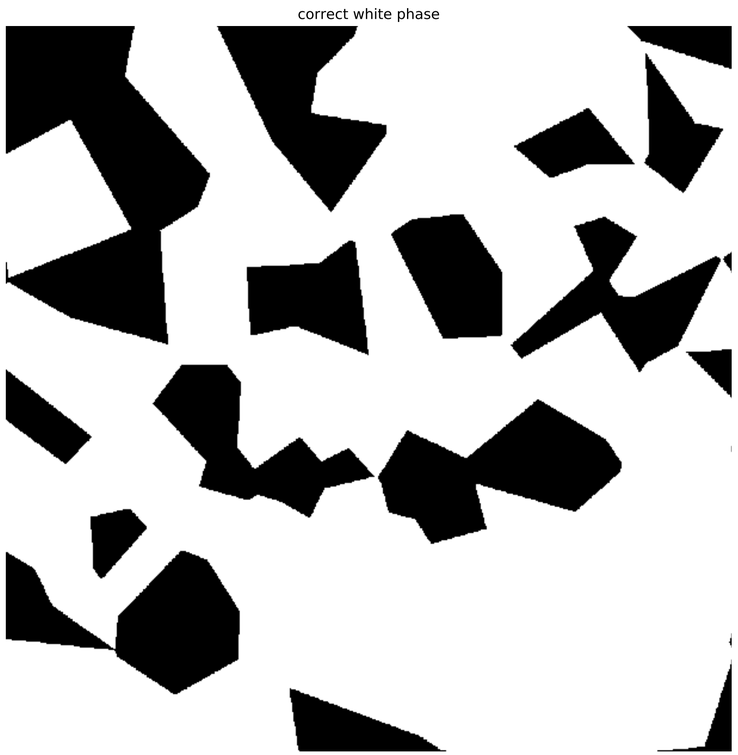
predicted line phase

correct dark phase

predicted dark phase



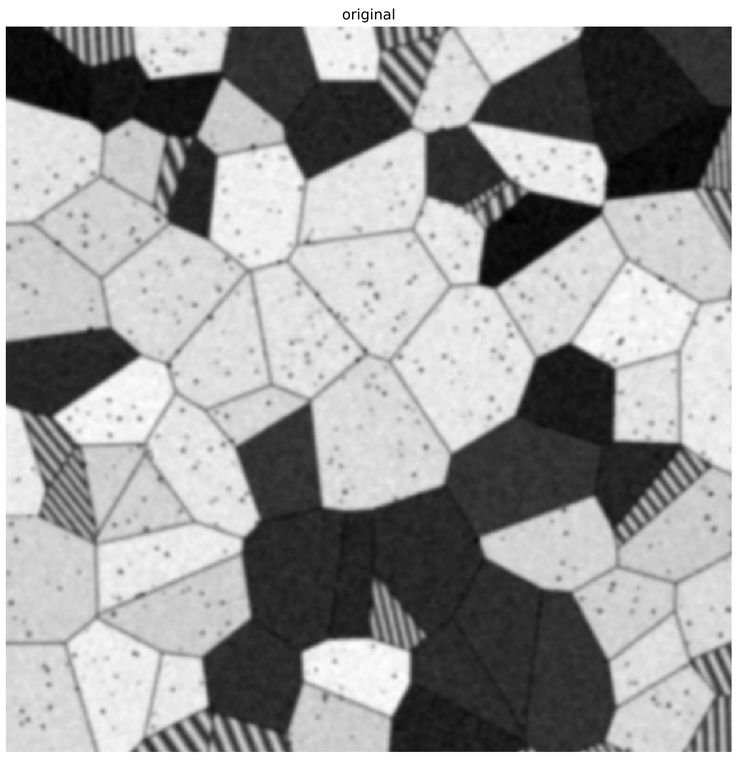
correct white phase



predicted white phase

data/base microstructure/image_186.png

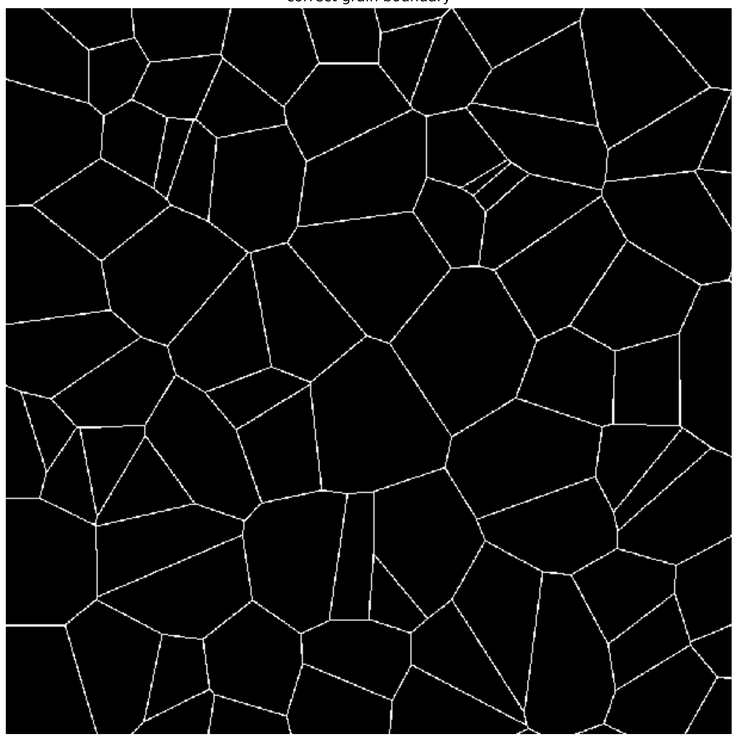
original



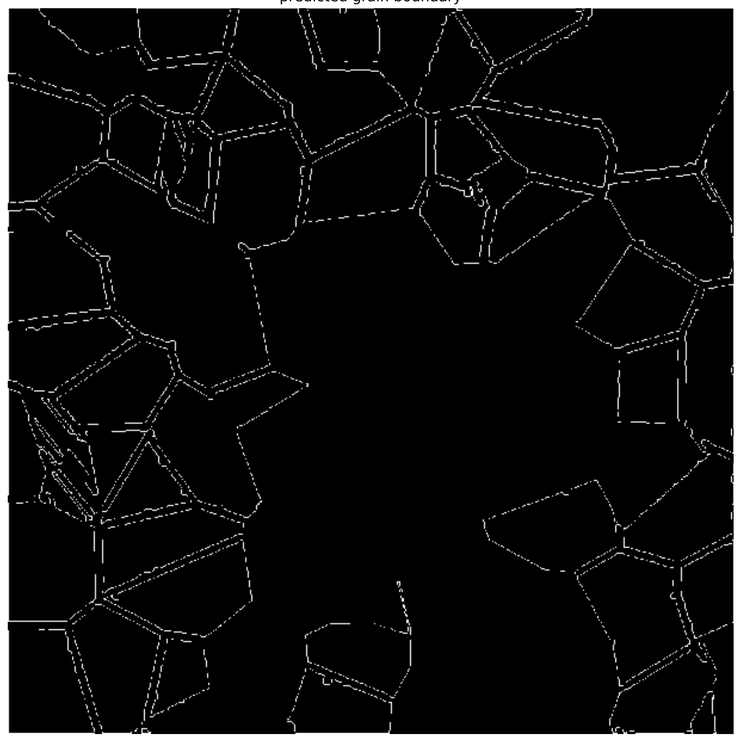
metrics

metric	correct	predicted	error
dark frac	0.329	0.323	0.625%
white frac	0.613	0.585	2.765%
line frac	0.058	0.038	2.027%
ave grain diameter	117.973	102.001	13.539%

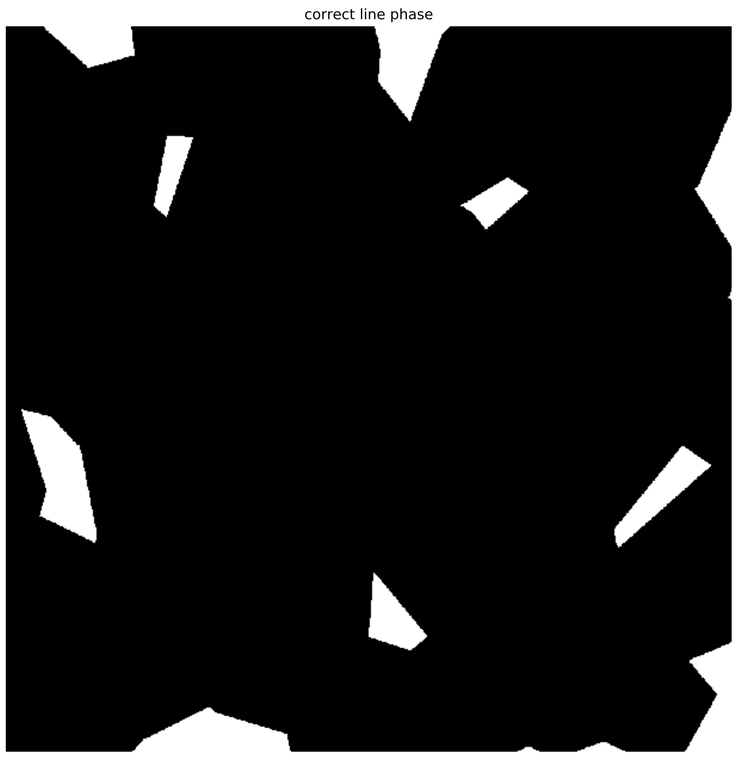
correct grain boundary



predicted grain boundary



correct line phase

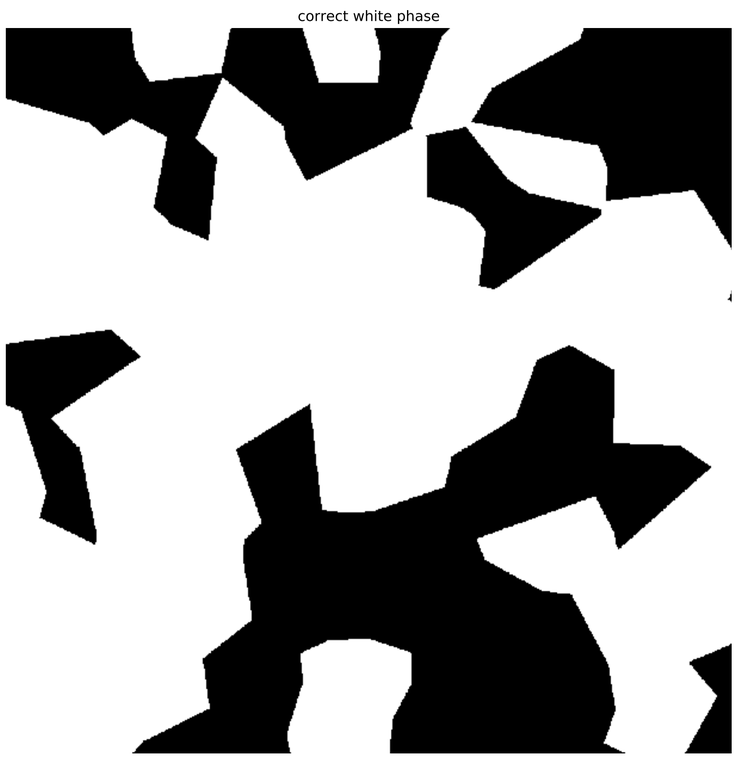


predicted line phase

correct dark phase

predicted dark phase

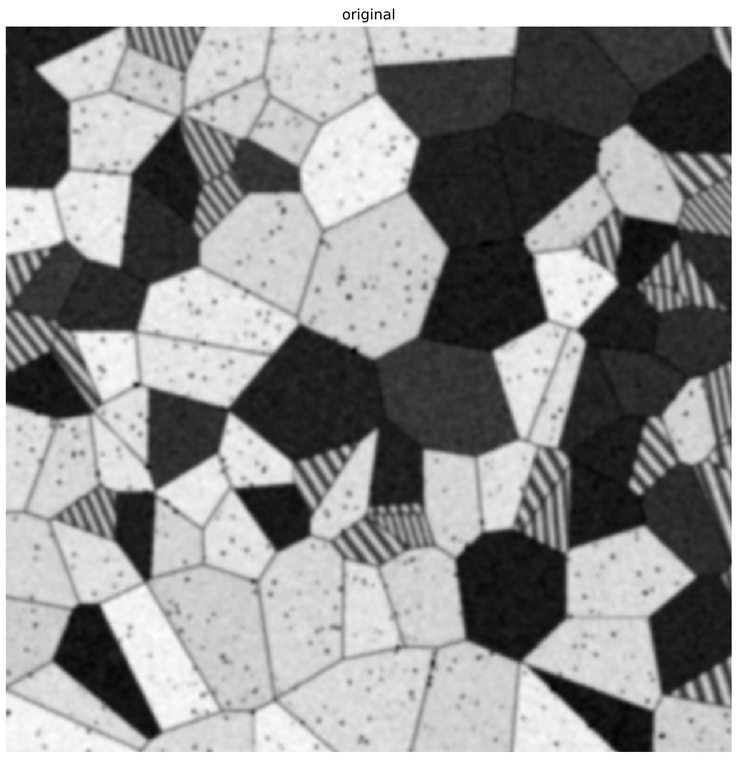
correct white phase



predicted white phase

data/base microstructure/image_187.png

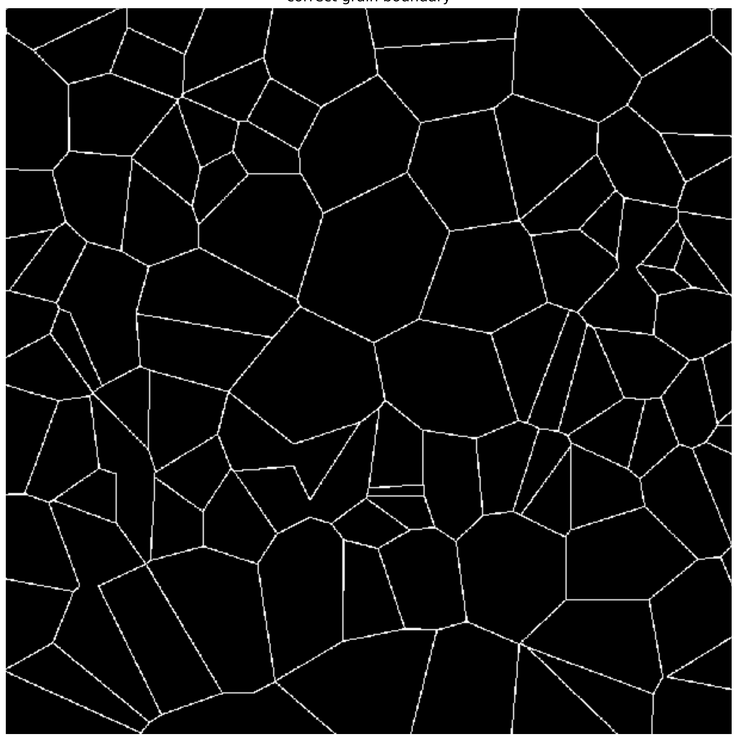
original



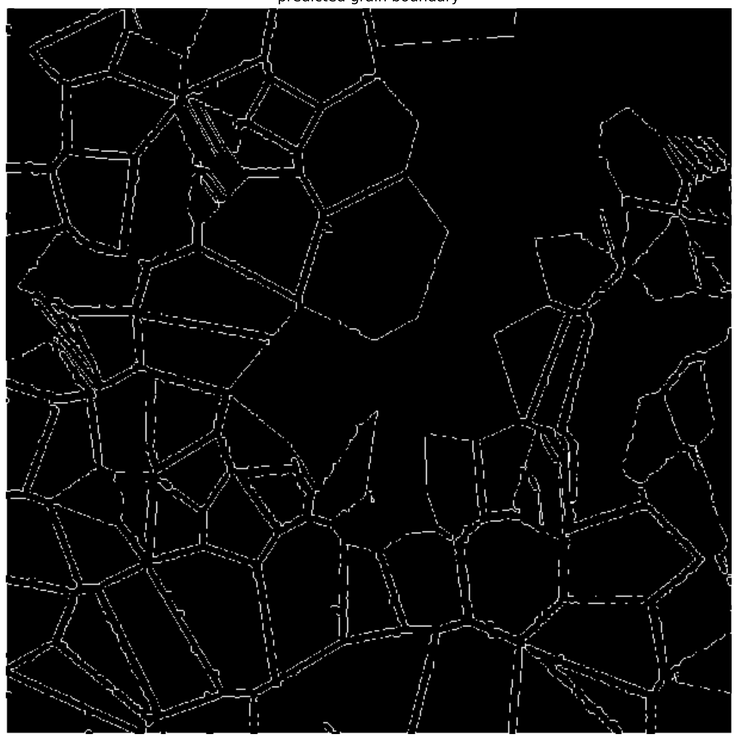
metrics

metric	correct	predicted	error
dark frac	0.370	0.365	0.532%
white frac	0.547	0.511	3.560%
line frac	0.083	0.049	3.395%
ave grain diameter	102.743	92.152	10.308%

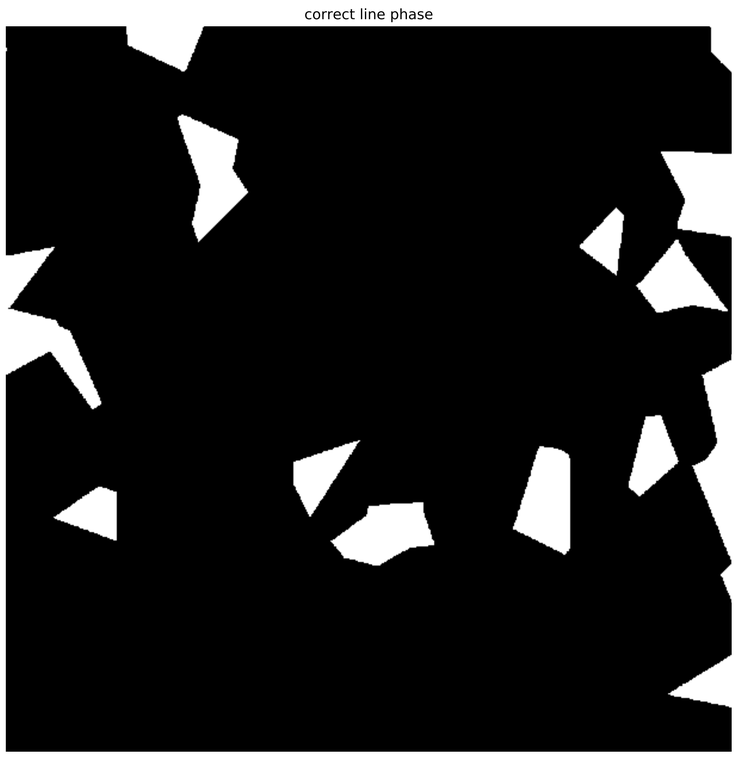
correct grain boundary



predicted grain boundary



correct line phase



predicted line phase

correct dark phase

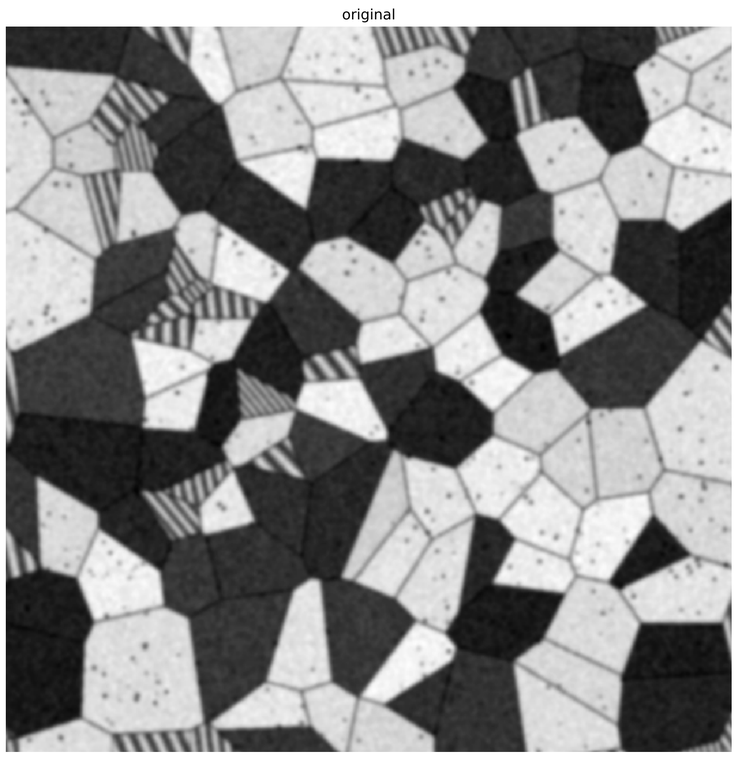
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_188.png

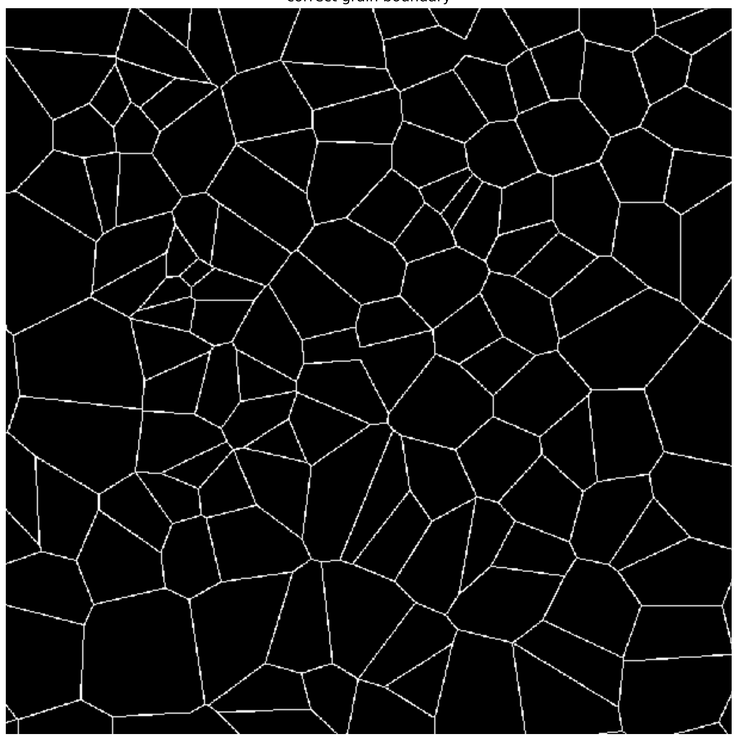
original



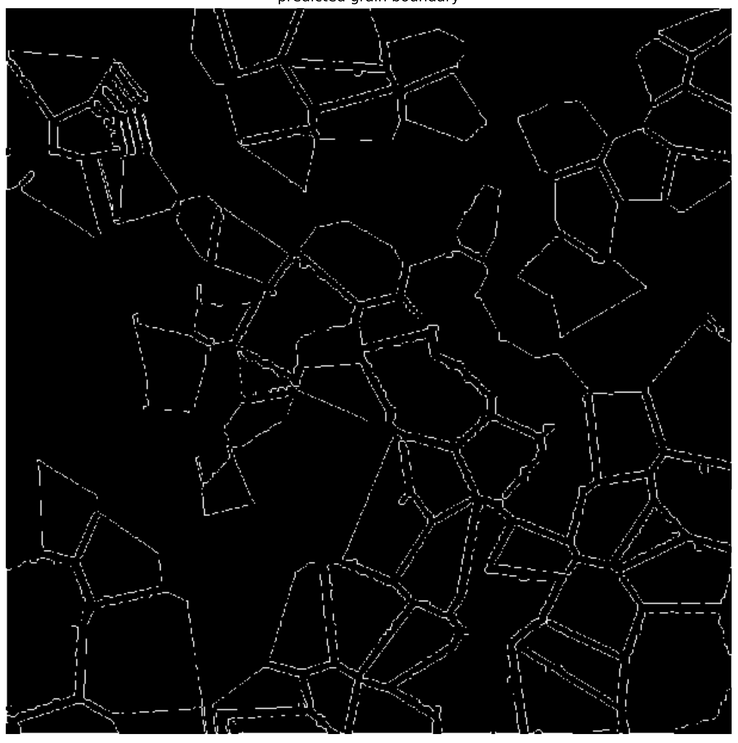
metrics

metric	correct	predicted	error
dark frac	0.427	0.417	0.943%
white frac	0.508	0.464	4.434%
line frac	0.065	0.036	2.920%
ave grain diameter	90.223	82.619	8.428%

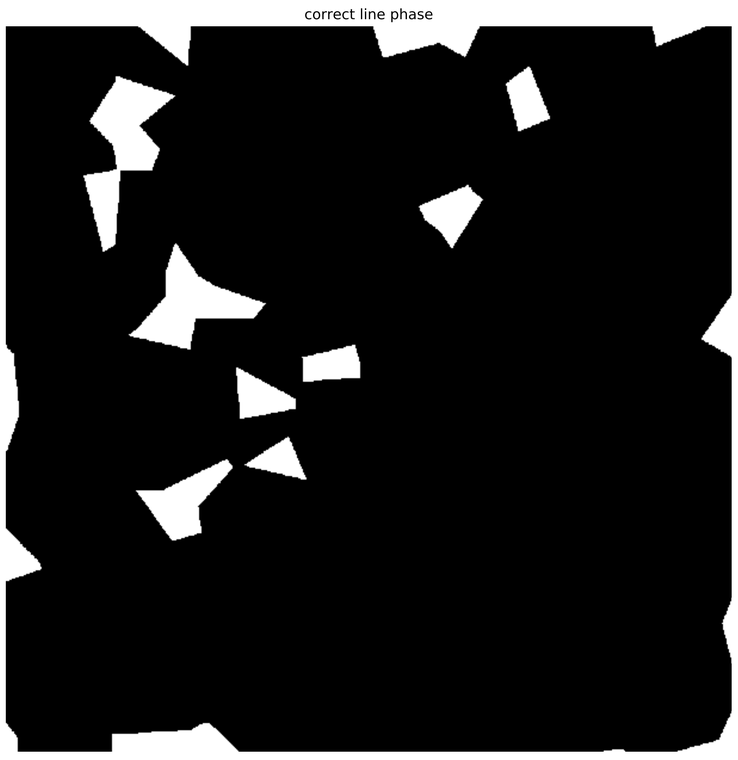
correct grain boundary



predicted grain boundary



correct line phase

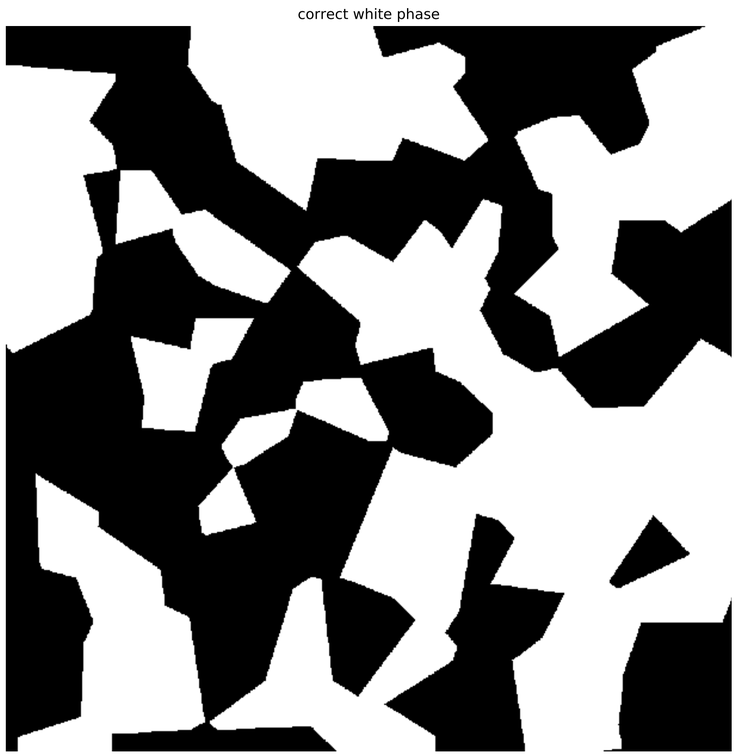


predicted line phase

correct dark phase

predicted dark phase

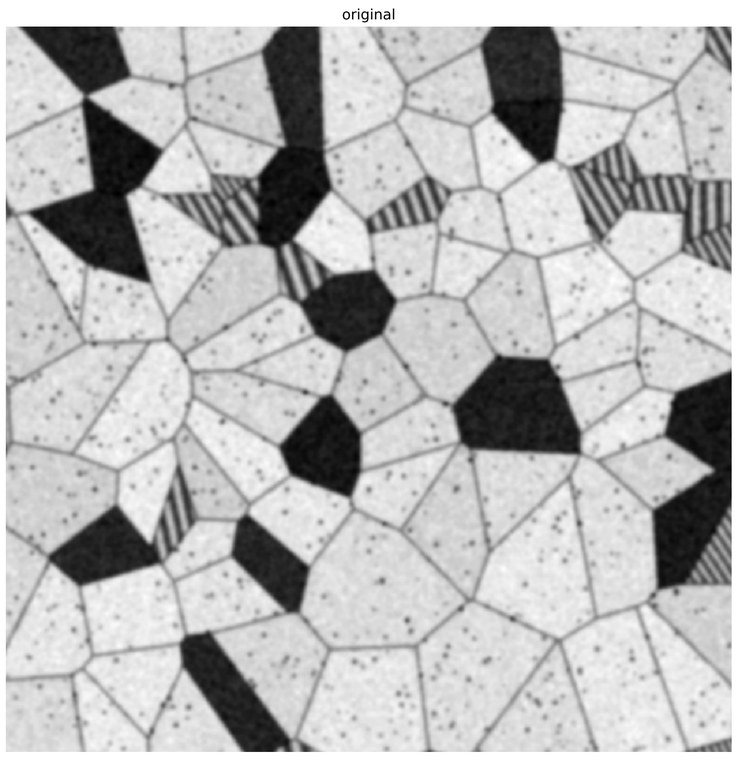
correct white phase



predicted white phase

data/base microstructure/image_189.png

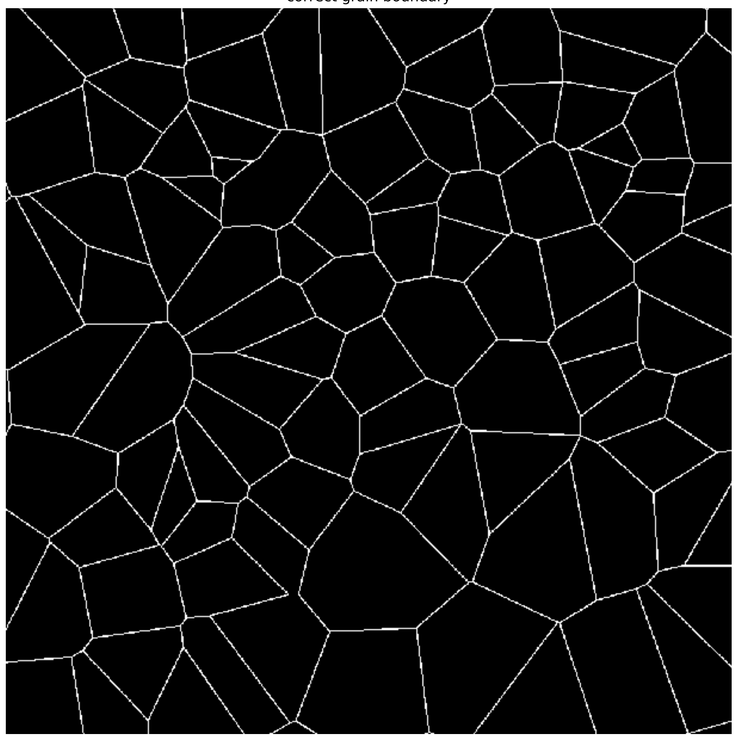
original



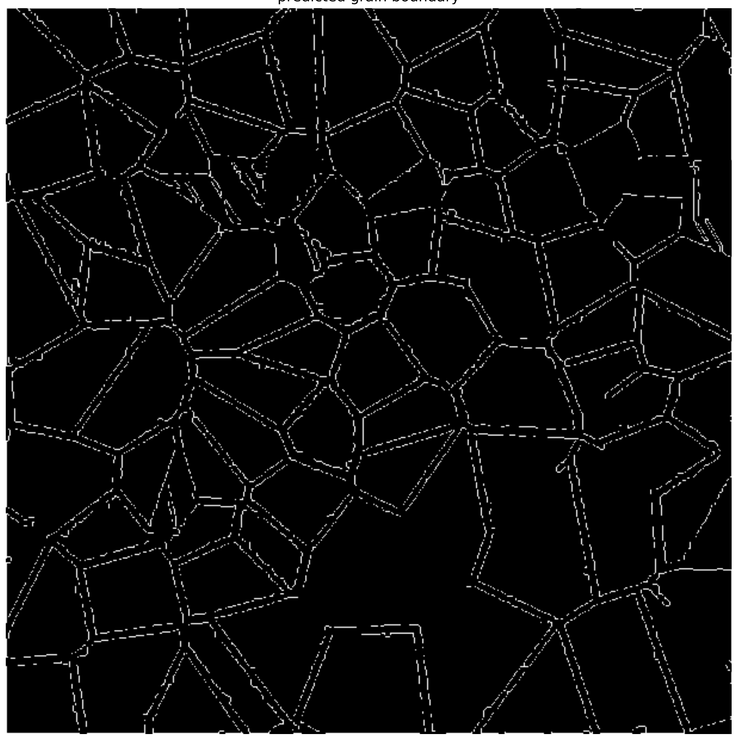
metrics

metric	correct	predicted	error
dark frac	0.148	0.141	0.664%
white frac	0.806	0.776	3.027%
line frac	0.046	0.033	1.286%
ave grain diameter	108.205	92.615	14.408%

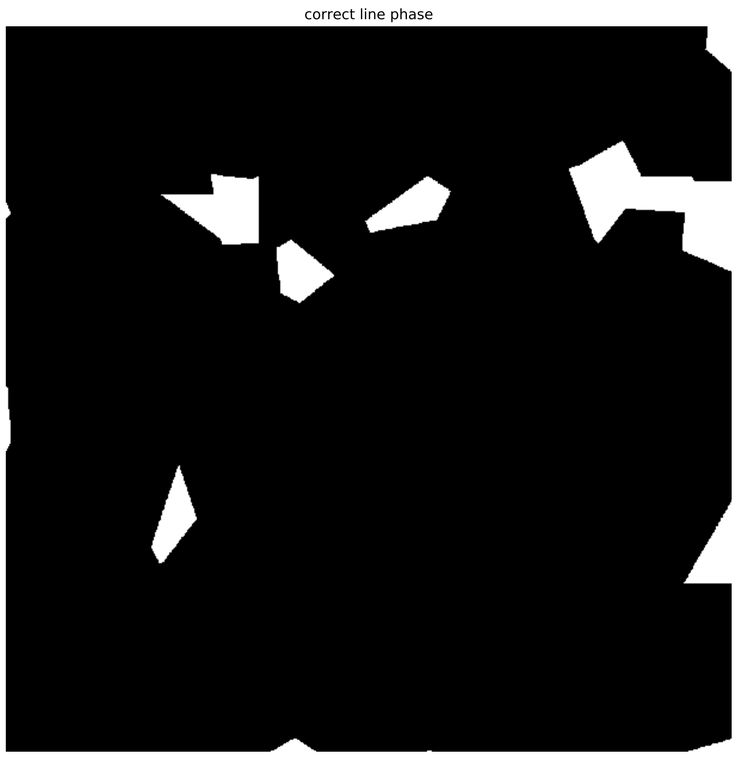
correct grain boundary



predicted grain boundary

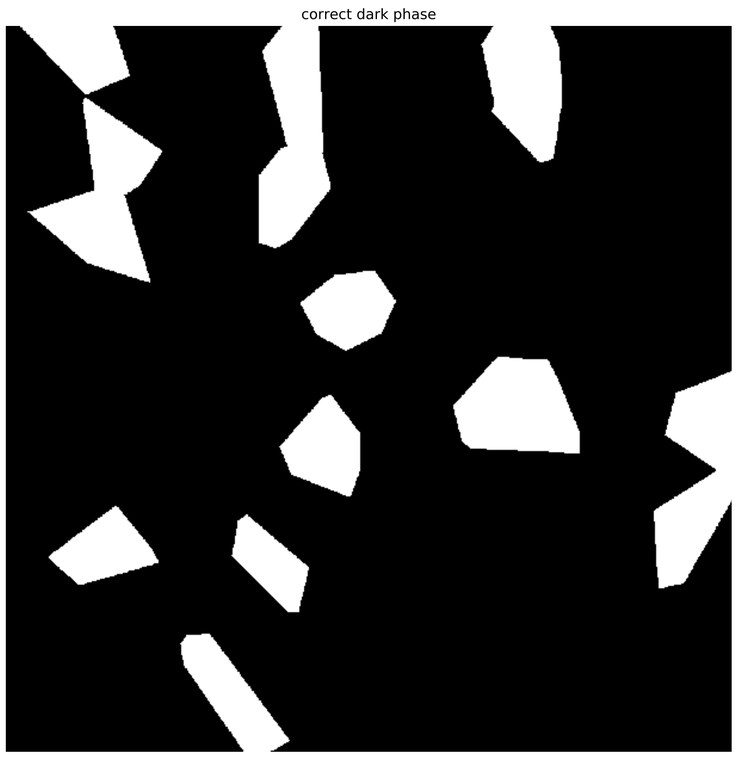


correct line phase

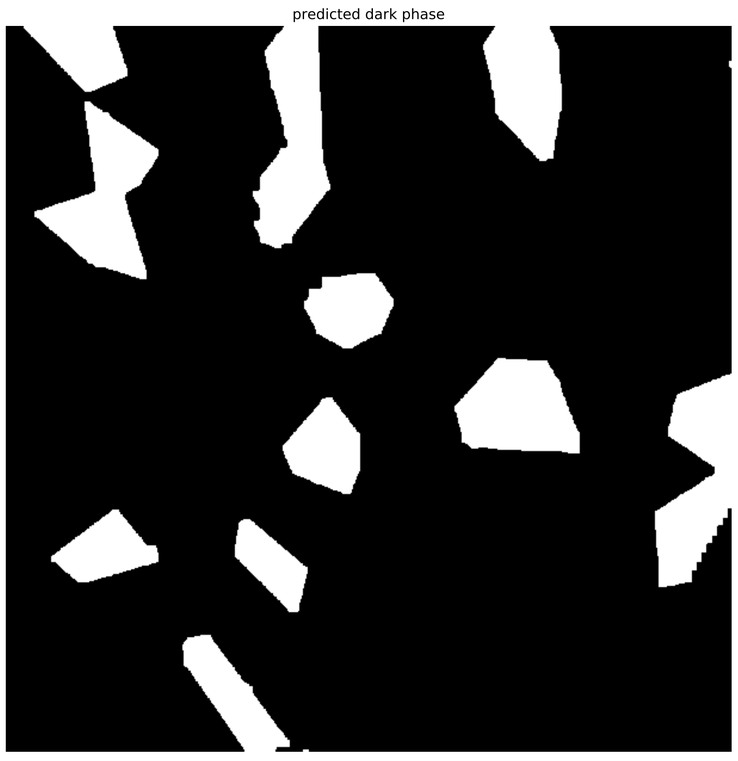


predicted line phase

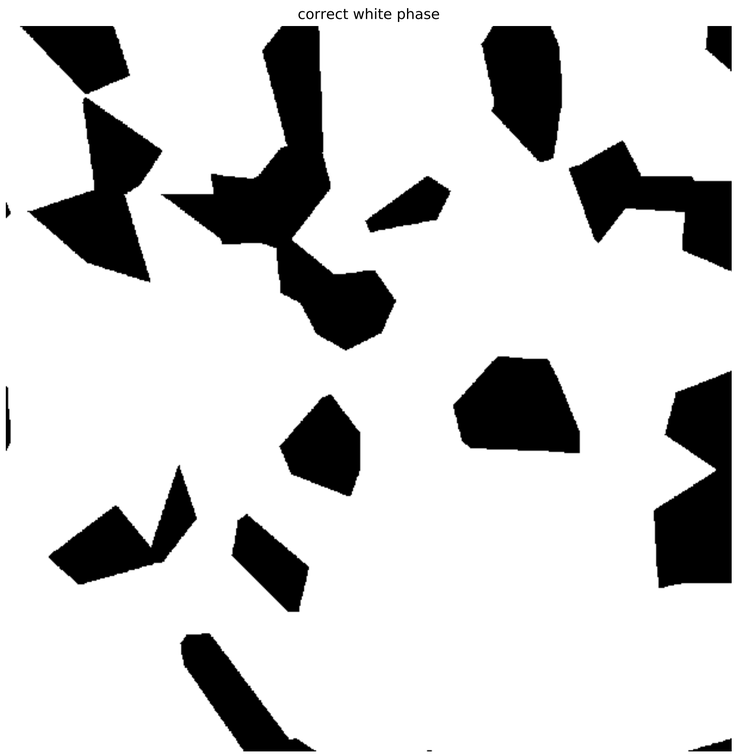
correct dark phase



predicted dark phase



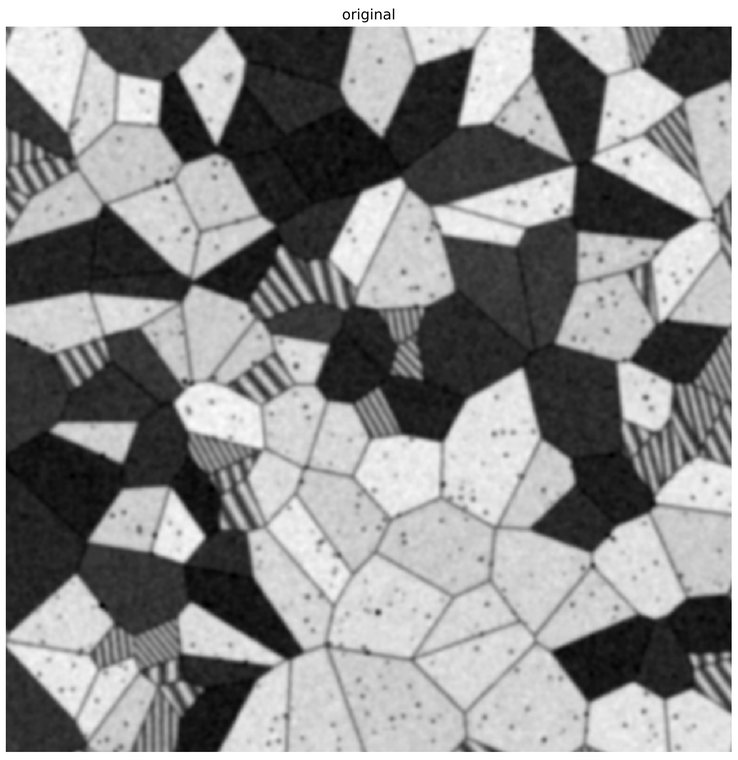
correct white phase



predicted white phase

data/base microstructure/image_19.png

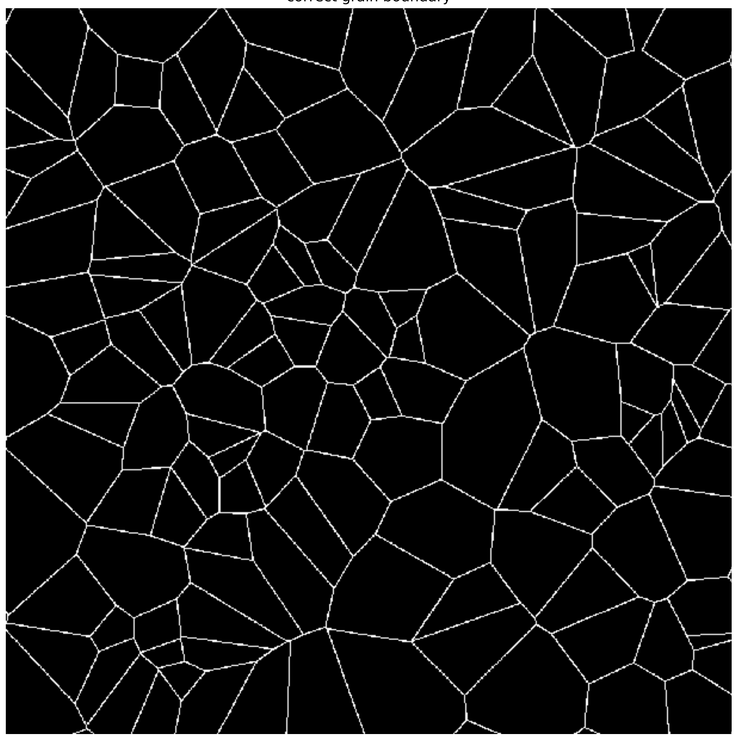
original



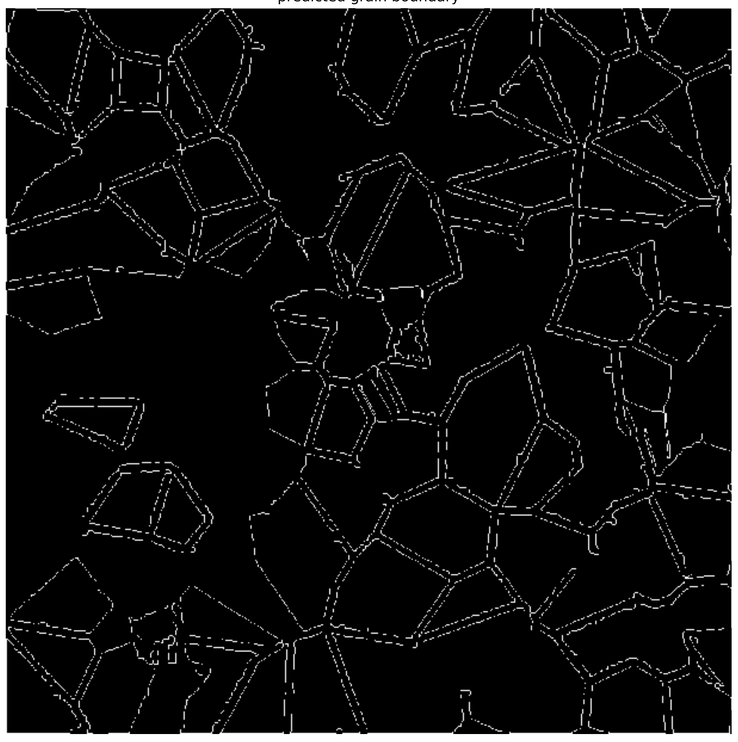
metrics

metric	correct	predicted	error
dark frac	0.375	0.367	0.782%
white frac	0.546	0.500	4.601%
line frac	0.079	0.048	3.116%
ave grain diameter	90.315	89.571	0.824%

correct grain boundary



predicted grain boundary



correct line phase

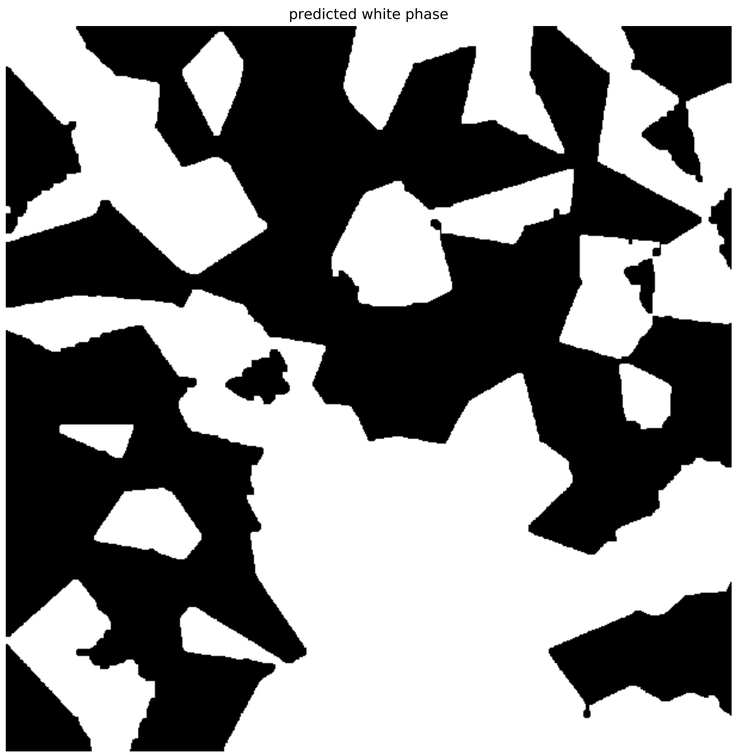
predicted line phase

correct dark phase

predicted dark phase

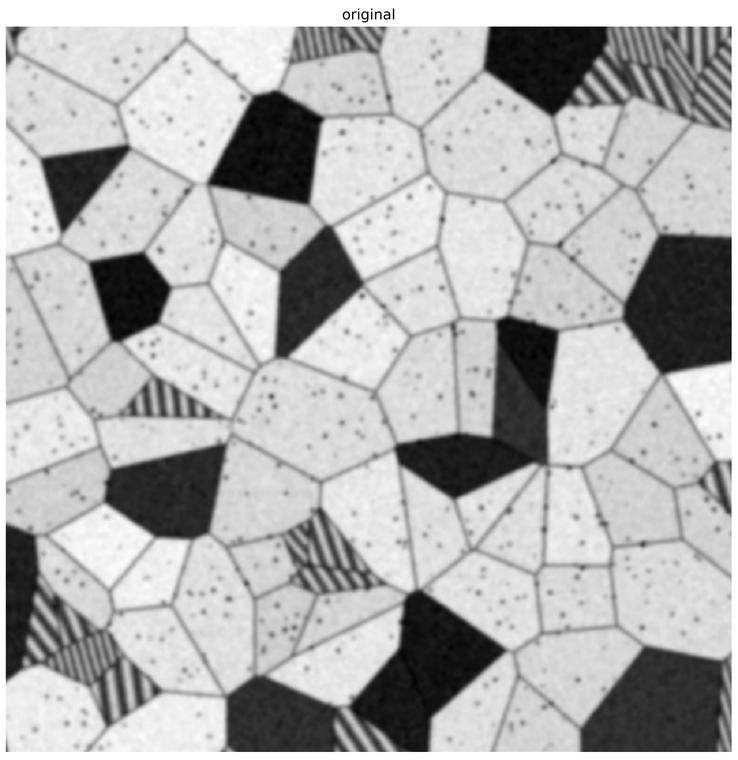
correct white phase

predicted white phase



data/base microstructure/image_190.png

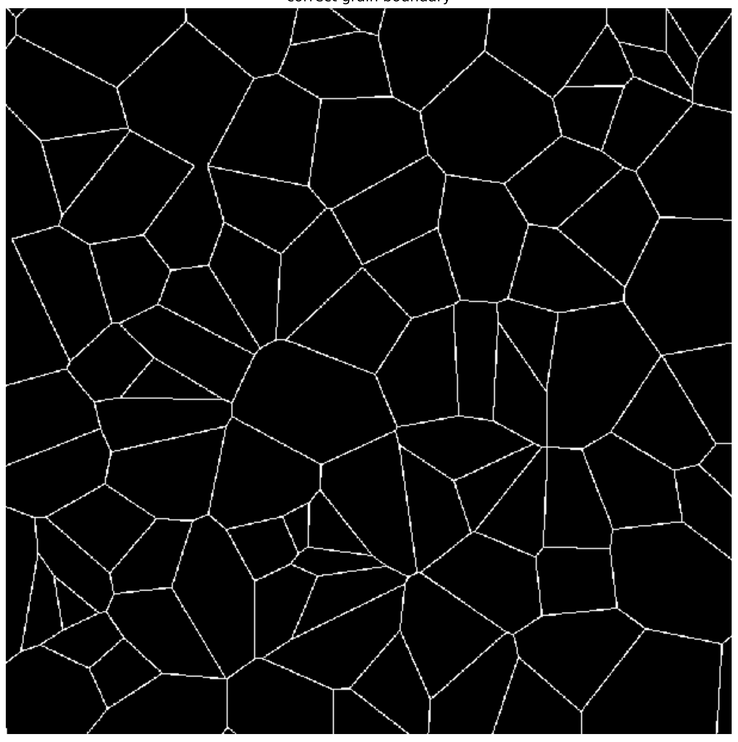
original



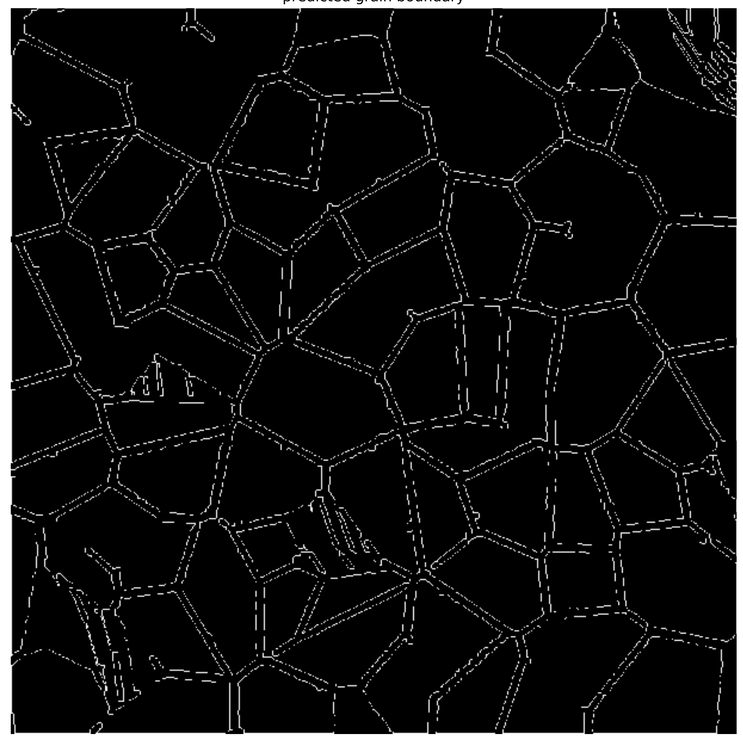
metrics

metric	correct	predicted	error
dark frac	0.182	0.176	0.579%
white frac	0.752	0.723	2.891%
line frac	0.066	0.051	1.495%
ave grain diameter	110.306	107.138	2.872%

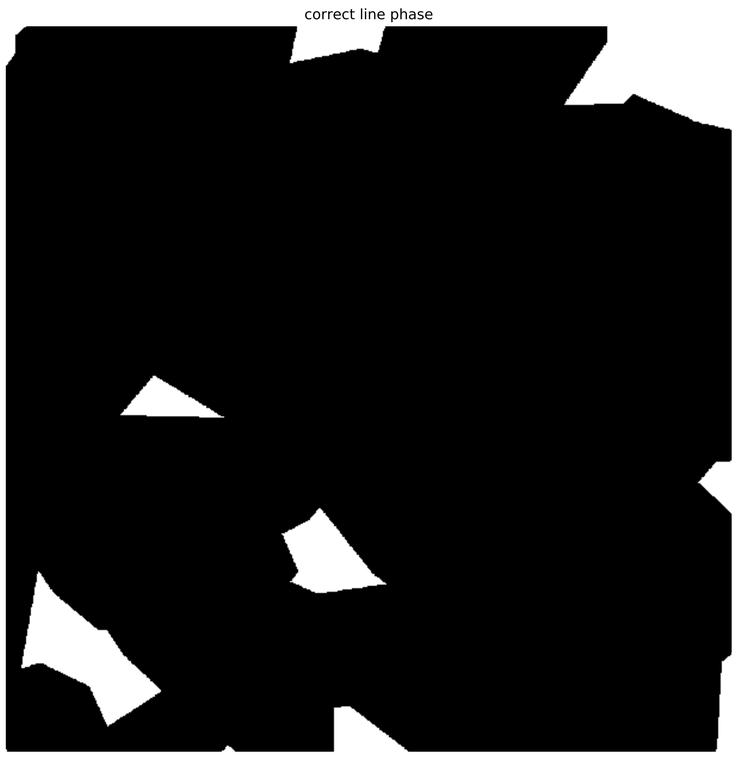
correct grain boundary



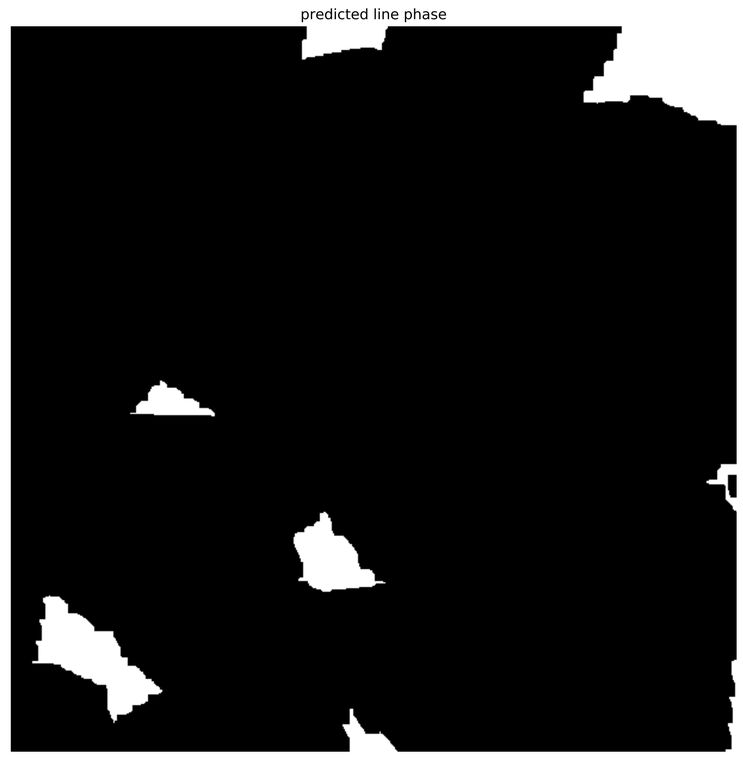
predicted grain boundary



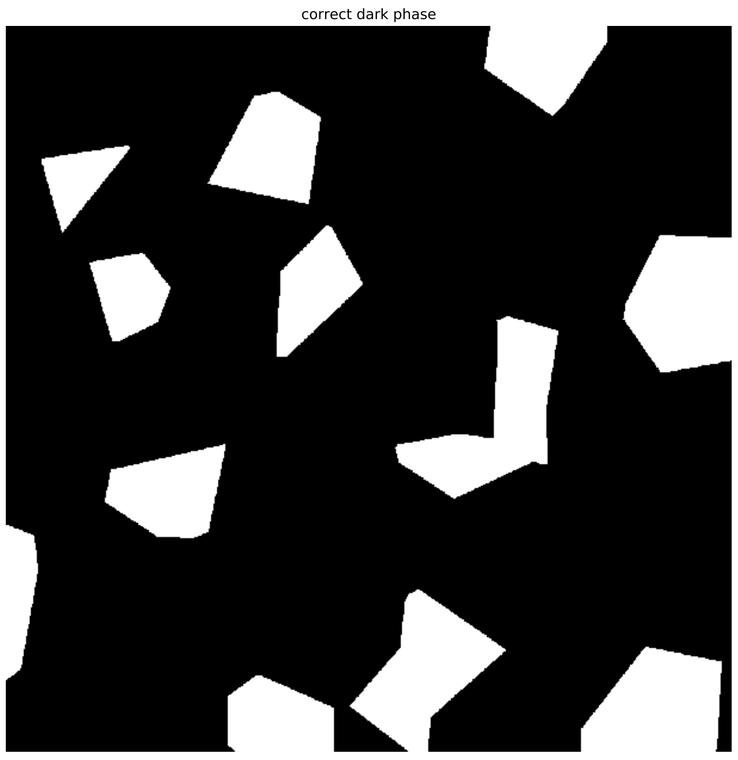
correct line phase



predicted line phase

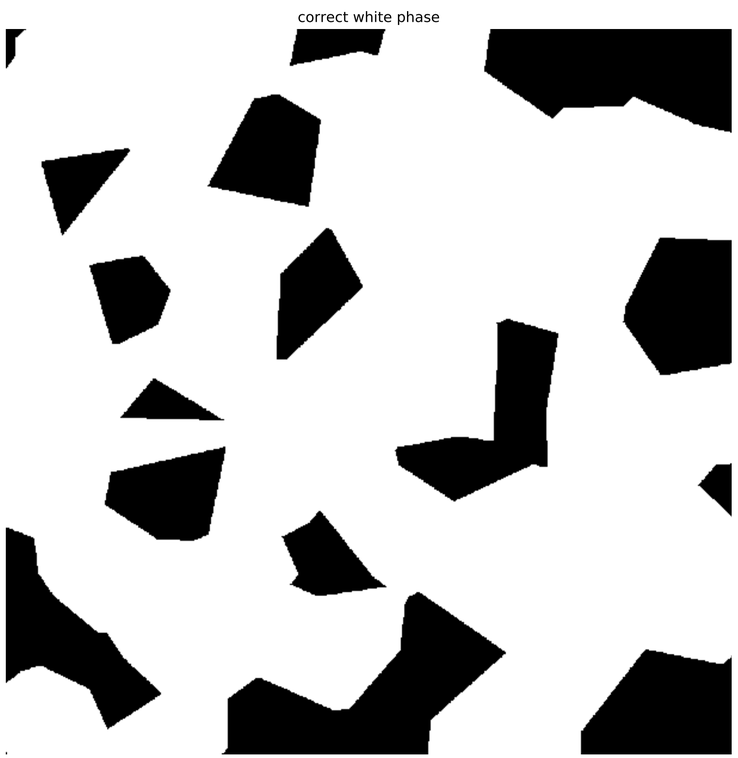


correct dark phase



predicted dark phase

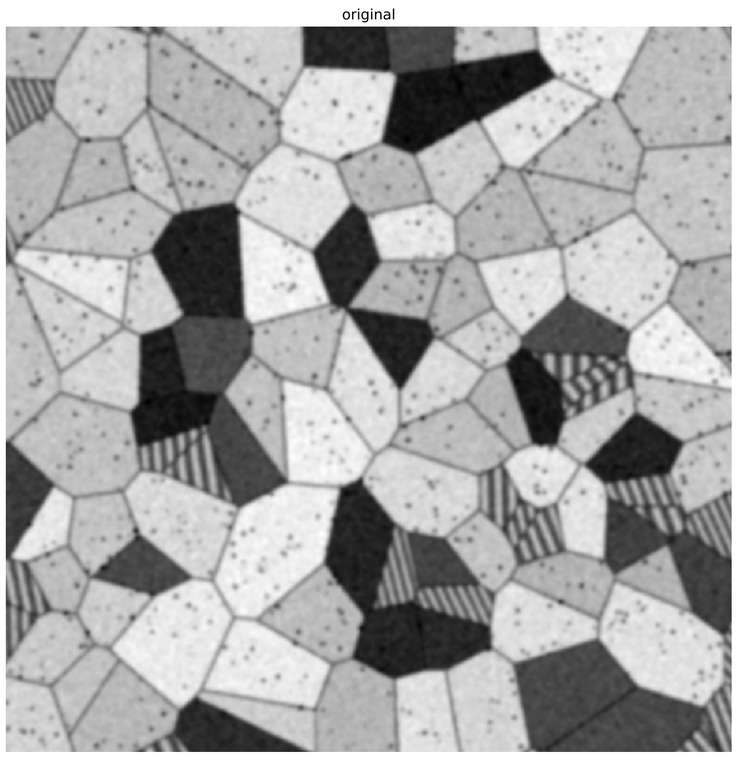
correct white phase



predicted white phase

data/base microstructure/image_191.png

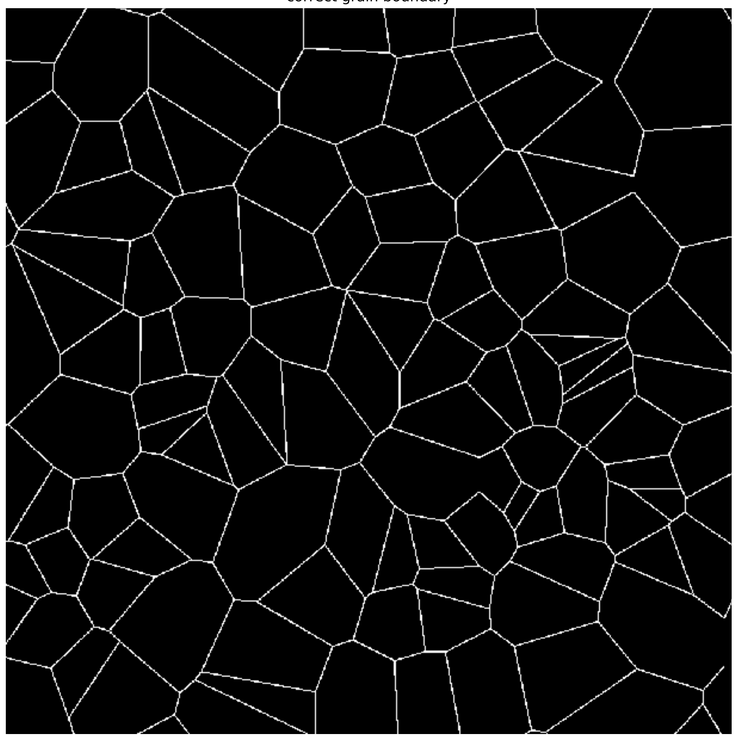
original



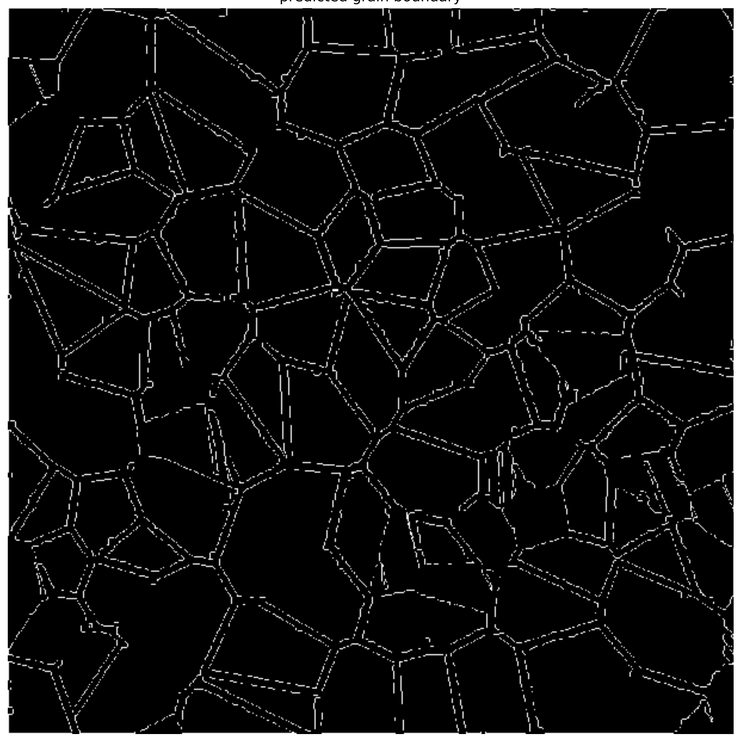
metrics

metric	correct	predicted	error
dark frac	0.197	0.194	0.244%
white frac	0.746	0.707	3.873%
line frac	0.057	0.035	2.205%
ave grain diameter	101.127	94.726	6.330%

correct grain boundary



predicted grain boundary



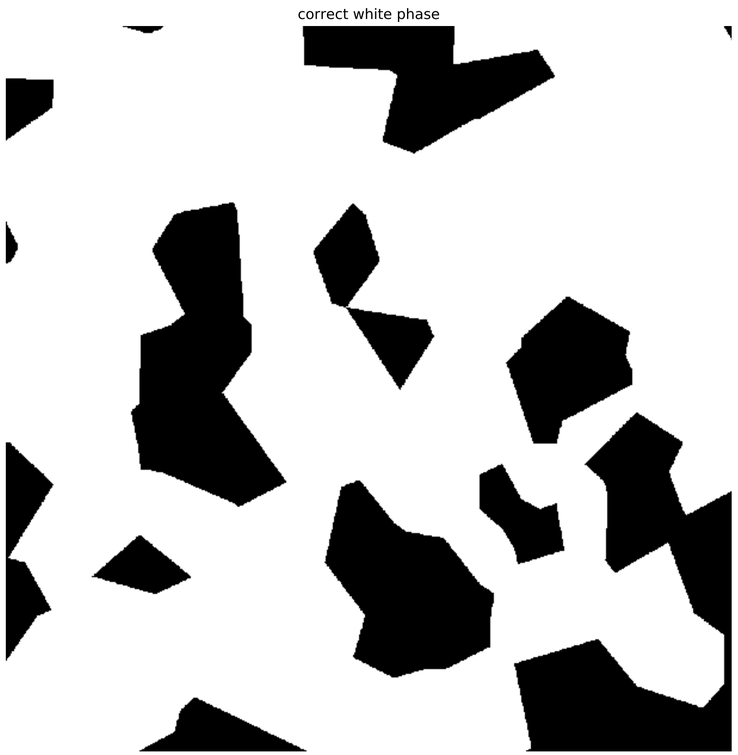
correct line phase

predicted line phase

correct dark phase

predicted dark phase

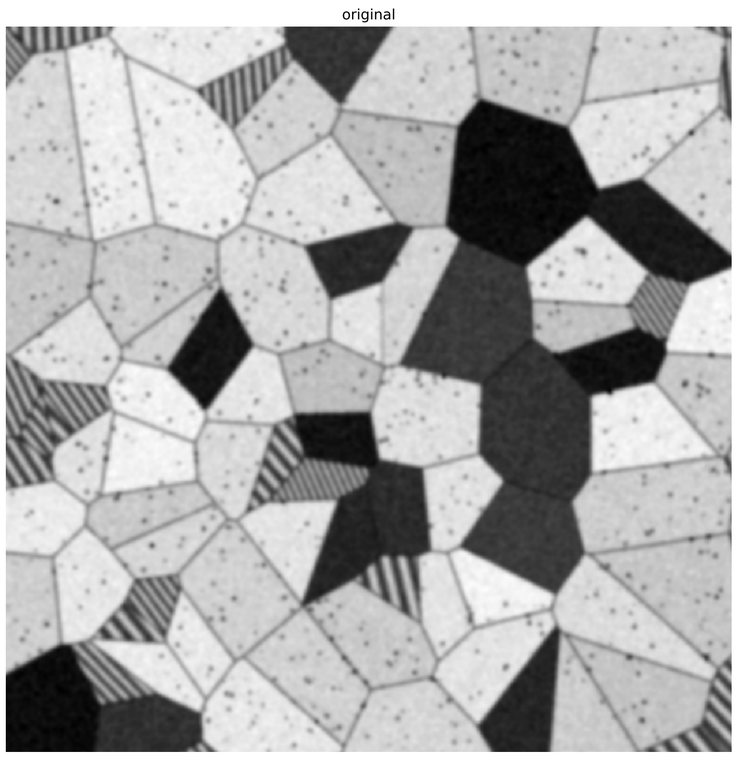
correct white phase



predicted white phase

data/base microstructure/image_192.png

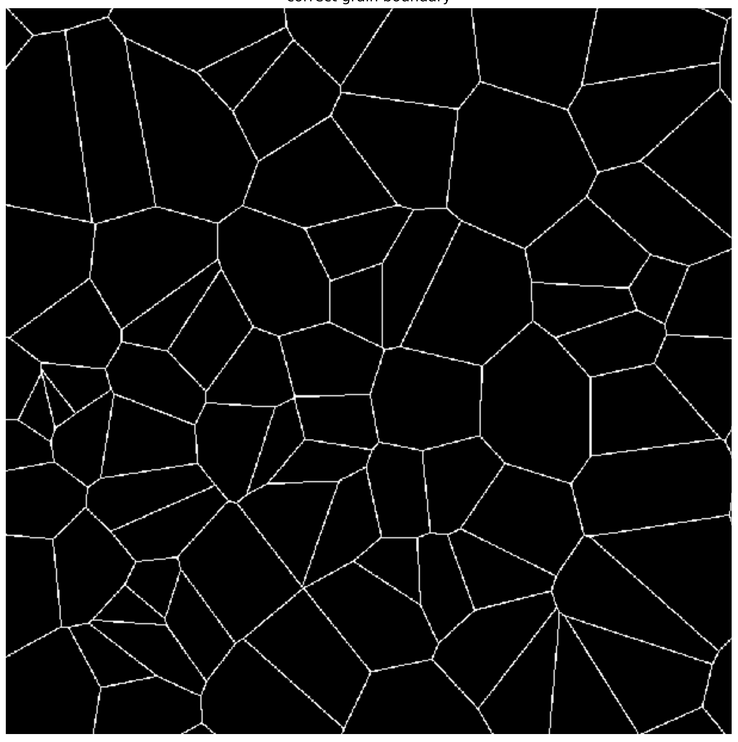
original



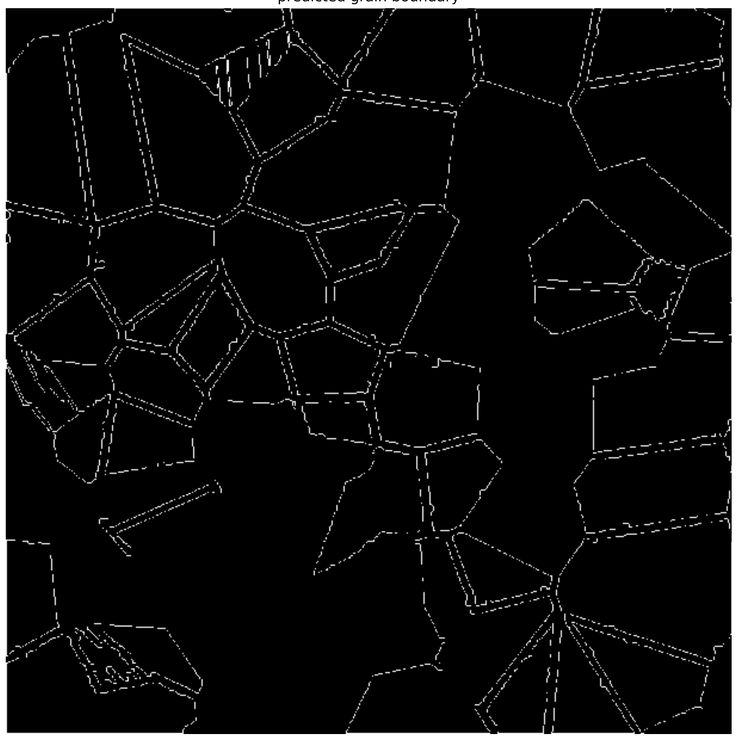
metrics

metric	correct	predicted	error
dark frac	0.210	0.204	0.574%
white frac	0.724	0.697	2.740%
line frac	0.066	0.047	1.945%
ave grain diameter	115.941	106.182	8.418%

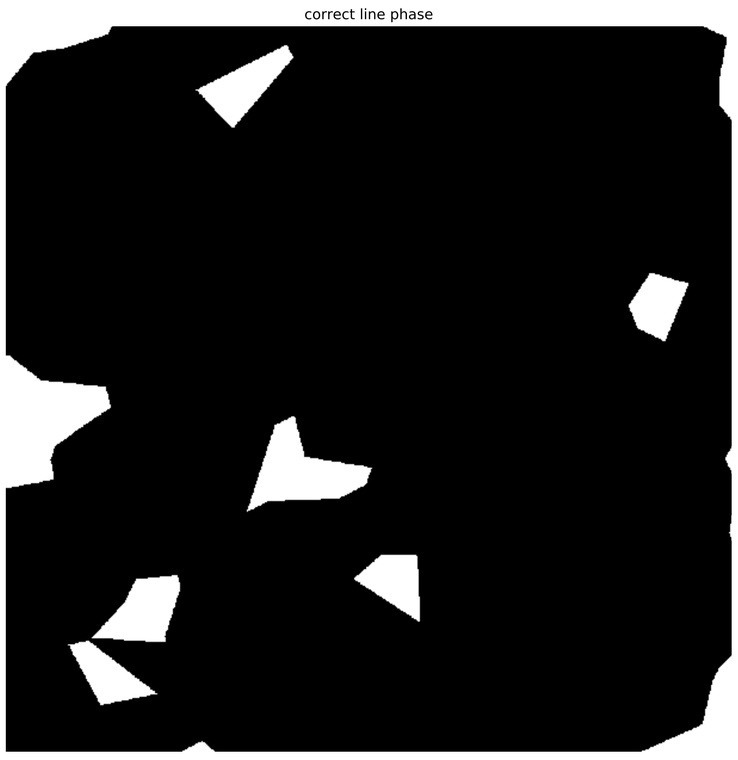
correct grain boundary



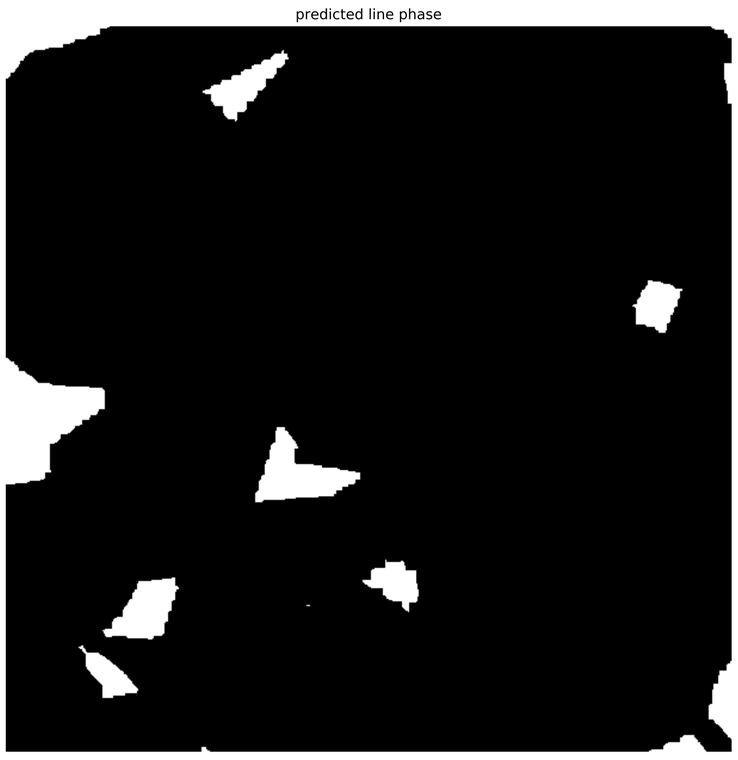
predicted grain boundary



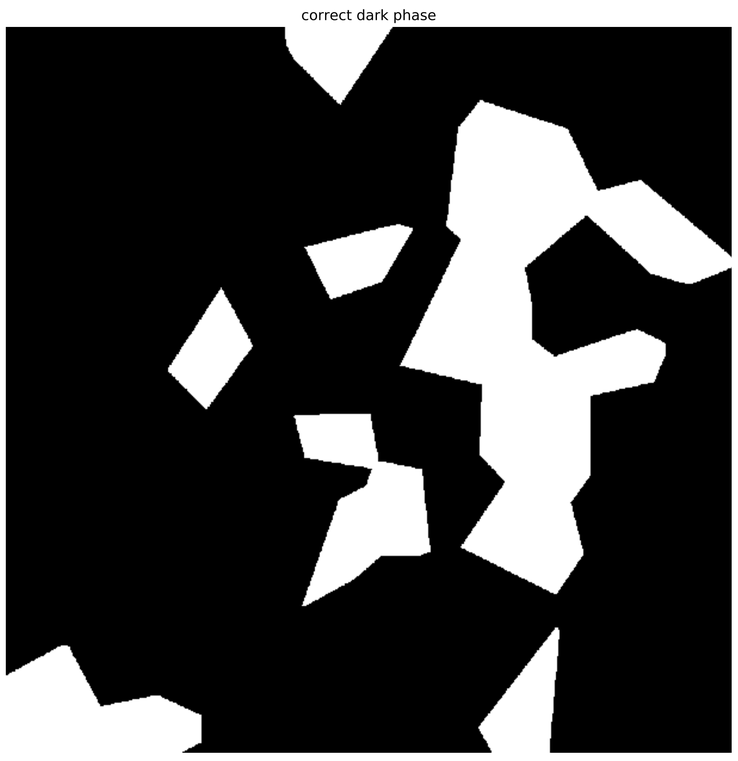
correct line phase



predicted line phase

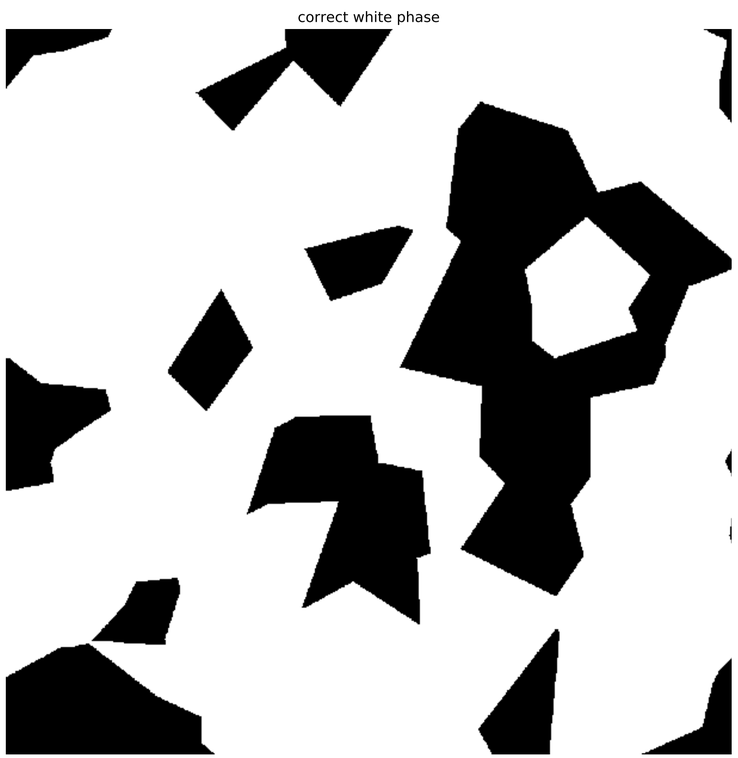


correct dark phase



predicted dark phase

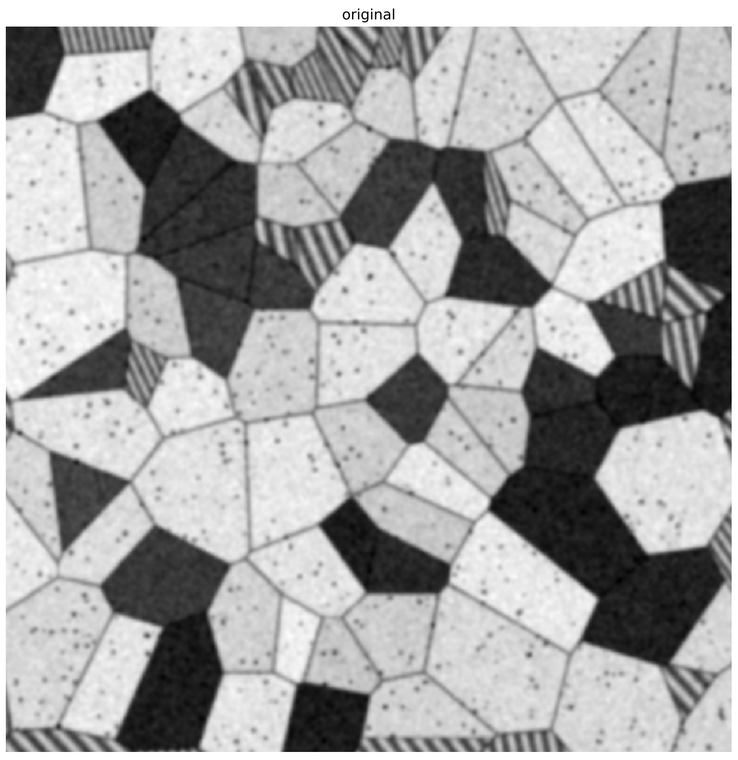
correct white phase



predicted white phase

data/base microstructure/image_193.png

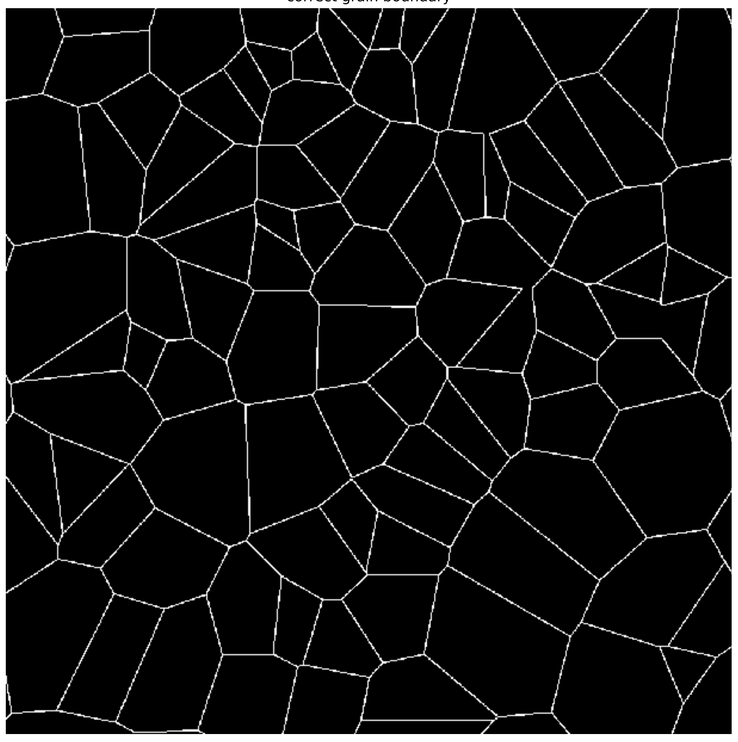
original



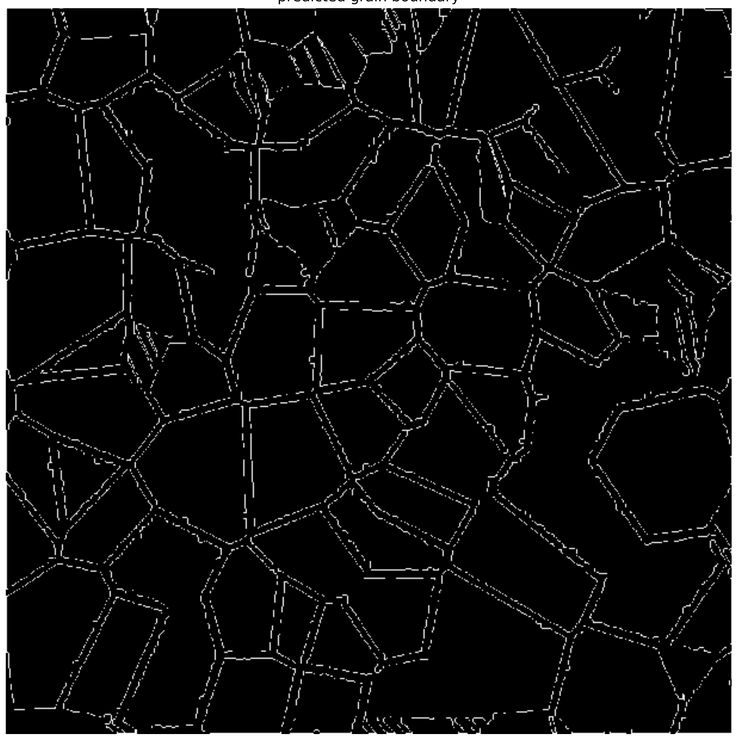
metrics

metric	correct	predicted	error
dark frac	0.252	0.247	0.533%
white frac	0.679	0.641	3.860%
line frac	0.069	0.046	2.257%
ave grain diameter	106.298	102.592	3.486%

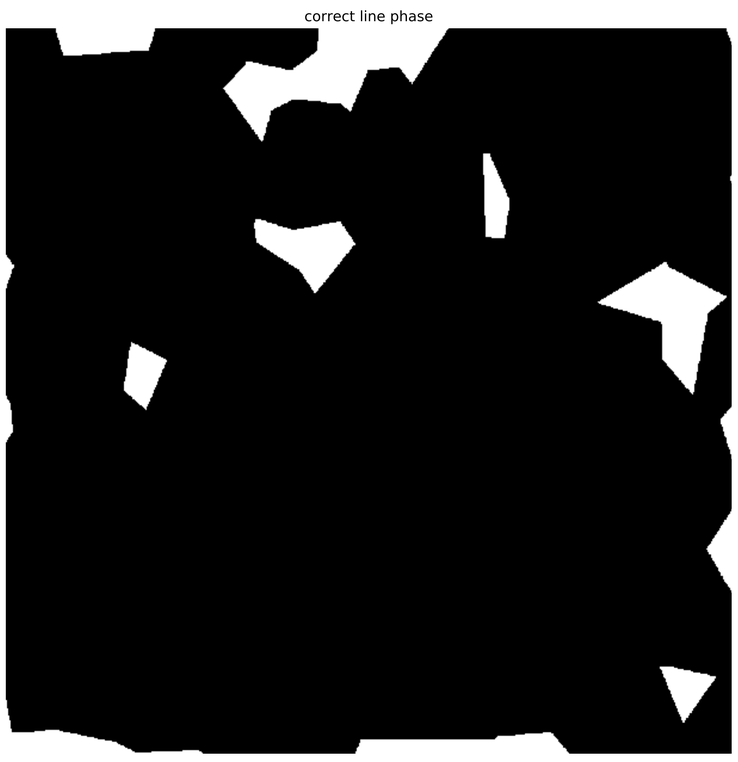
correct grain boundary



predicted grain boundary

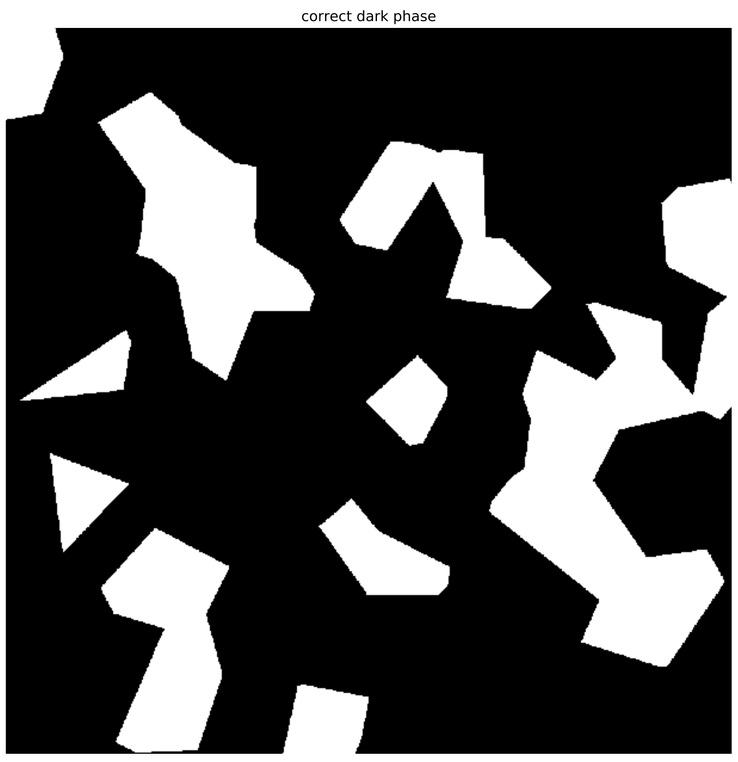


correct line phase



predicted line phase

correct dark phase



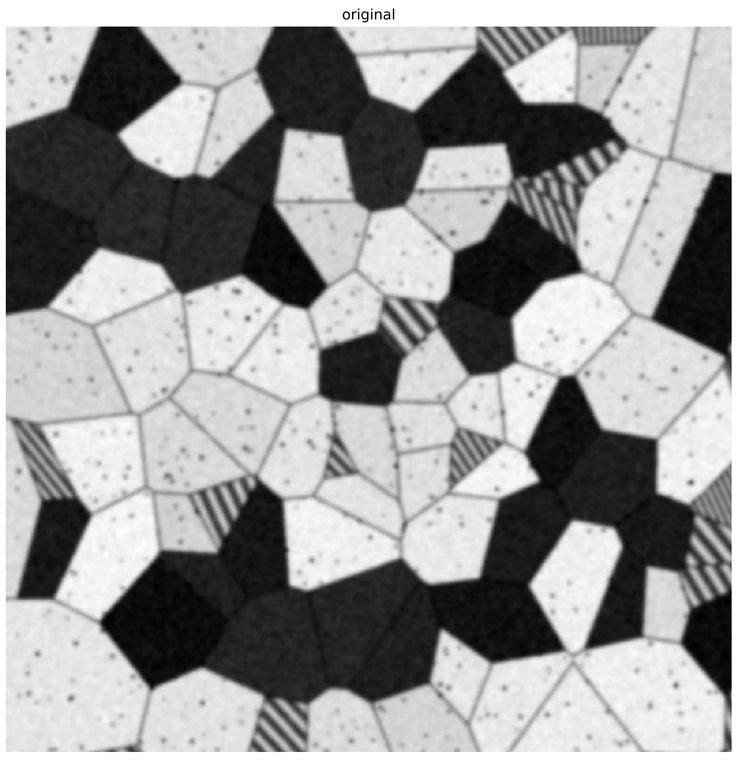
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_194.png

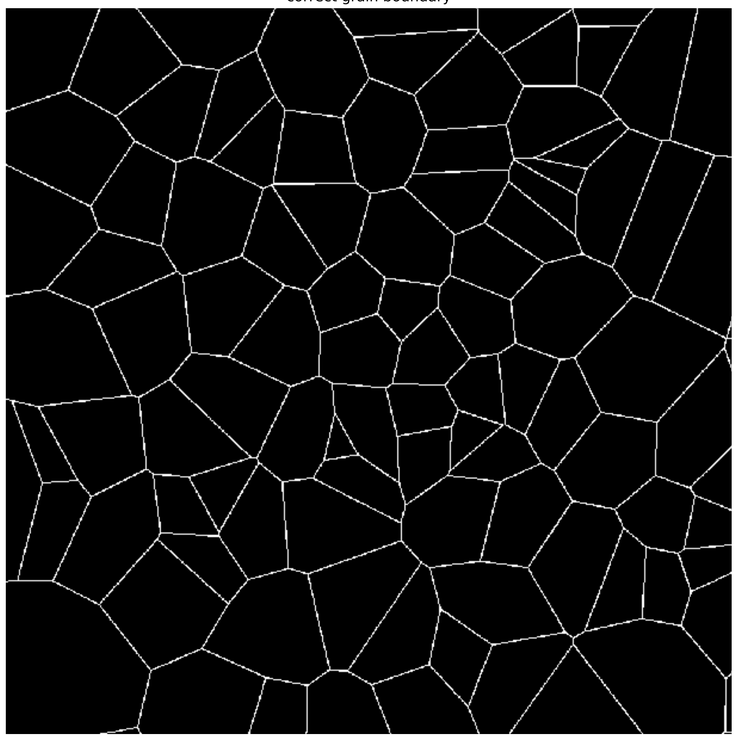
original



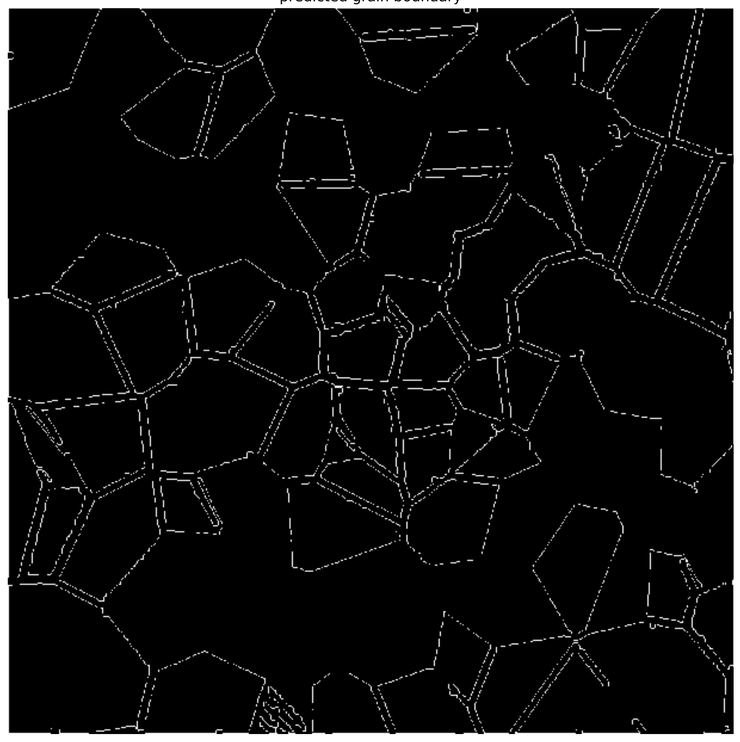
metrics

metric	correct	predicted	error
dark frac	0.348	0.338	1.041%
white frac	0.600	0.564	3.560%
line frac	0.052	0.034	1.830%
ave grain diameter	110.212	94.004	14.706%

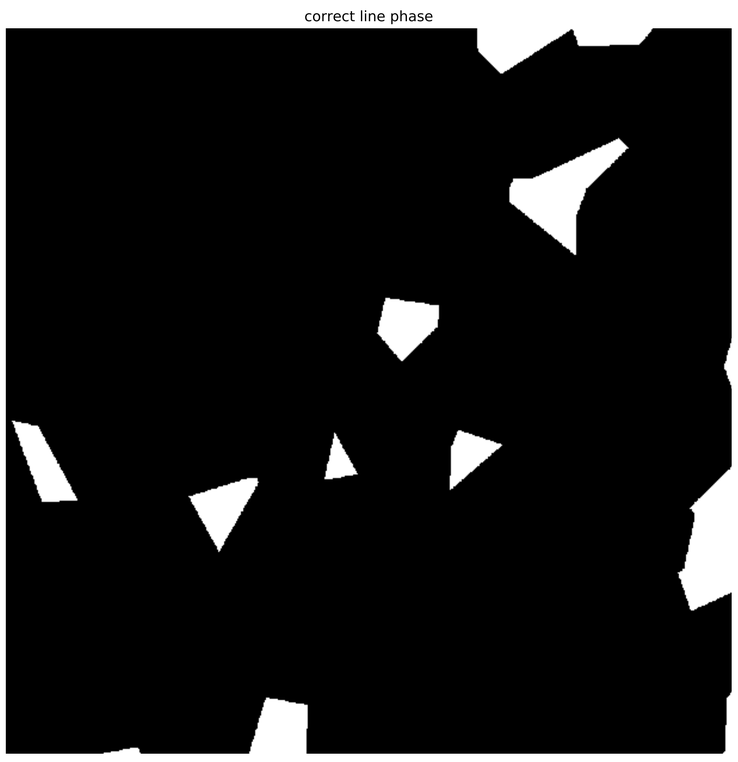
correct grain boundary



predicted grain boundary

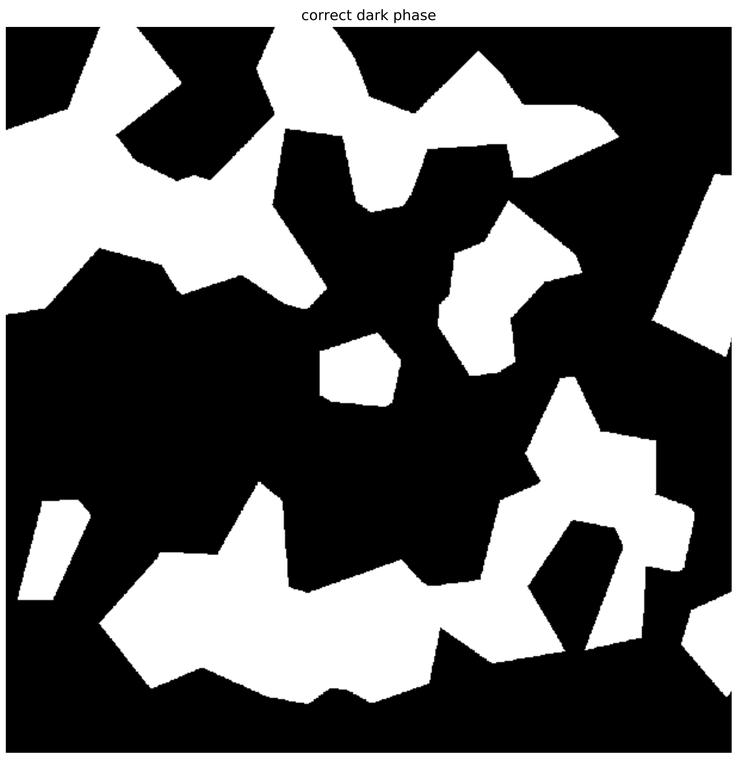


correct line phase



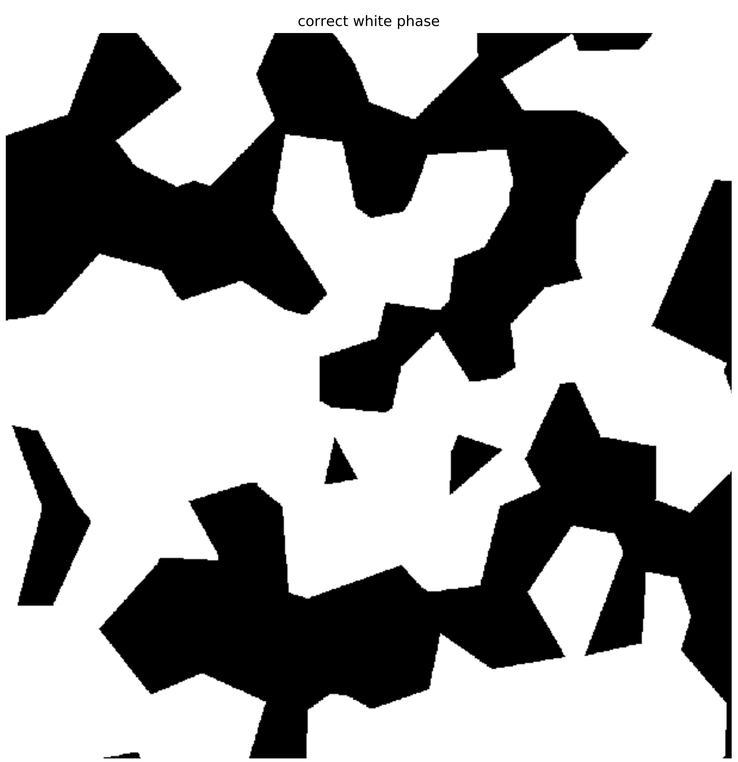
predicted line phase

correct dark phase

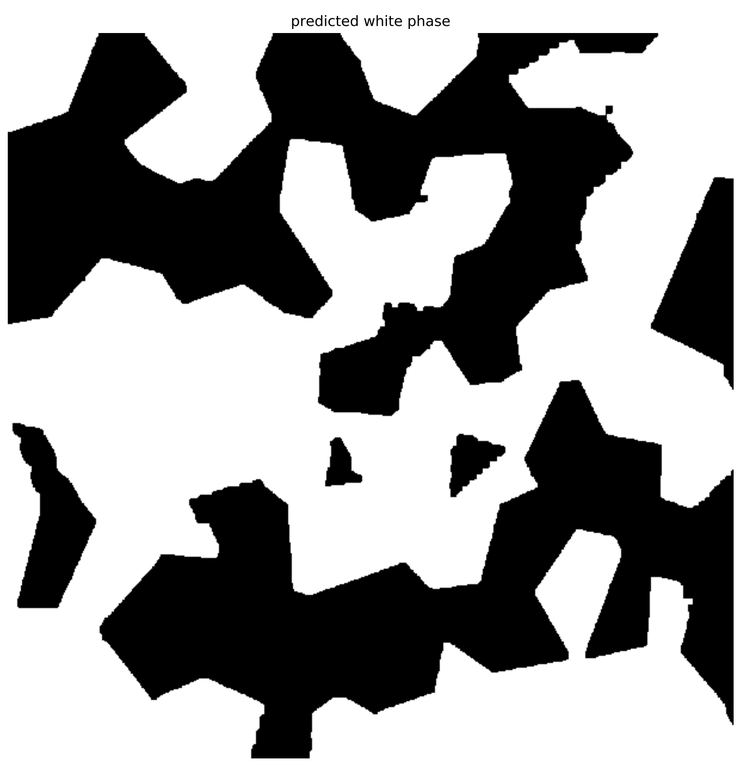


predicted dark phase

correct white phase

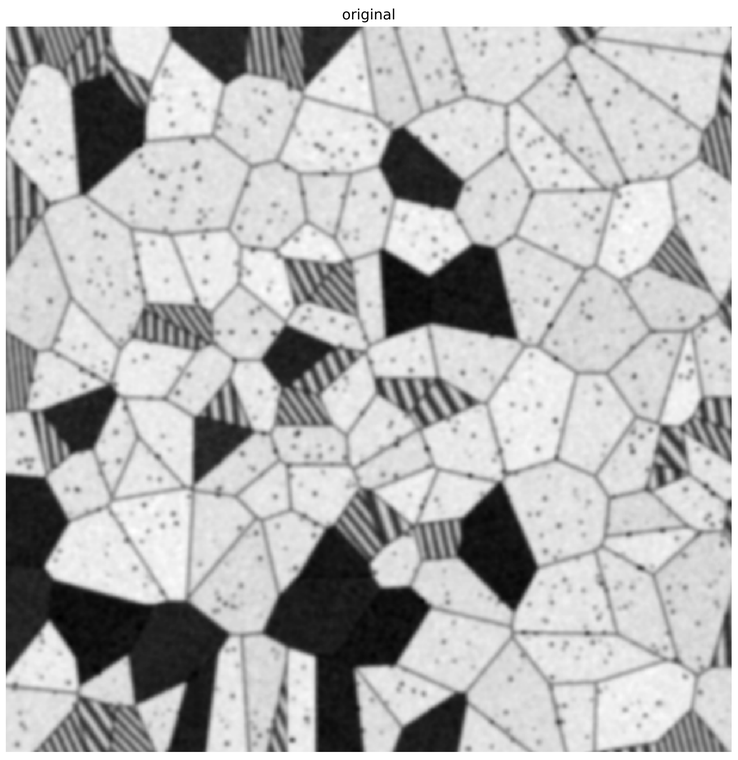


predicted white phase



data/base microstructure/image_195.png

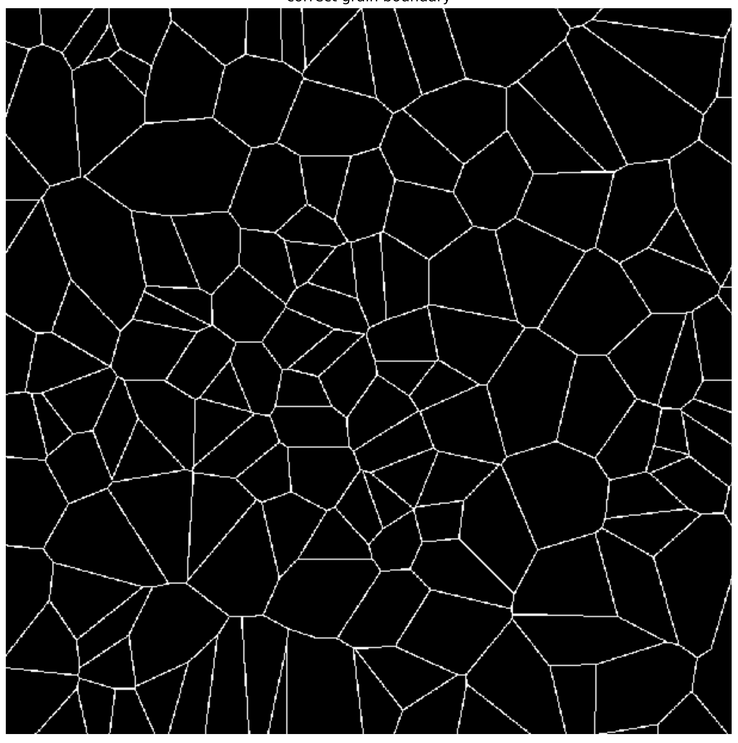
original



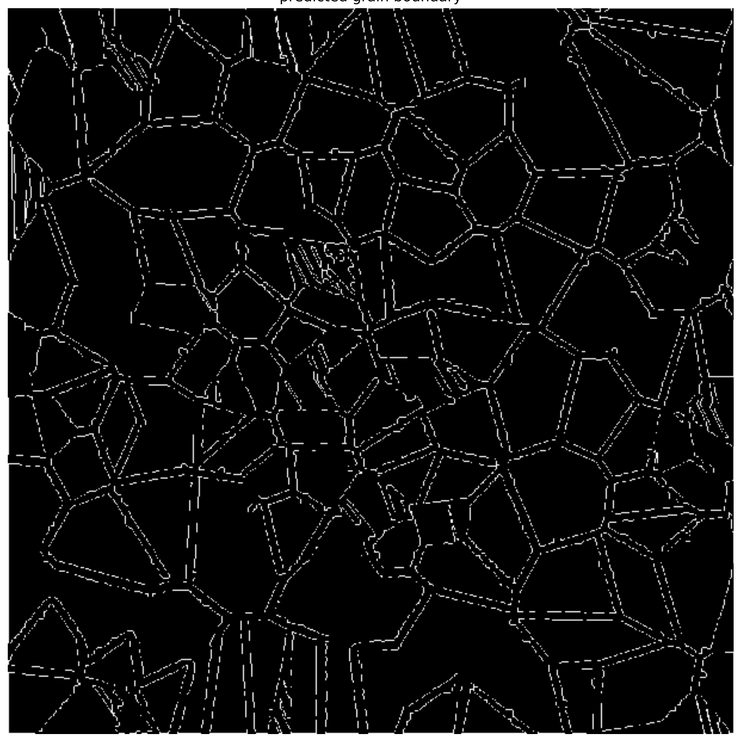
metrics

metric	correct	predicted	error
dark frac	0.150	0.145	0.495%
white frac	0.756	0.721	3.482%
line frac	0.094	0.065	2.976%
ave grain diameter	86.338	81.970	5.058%

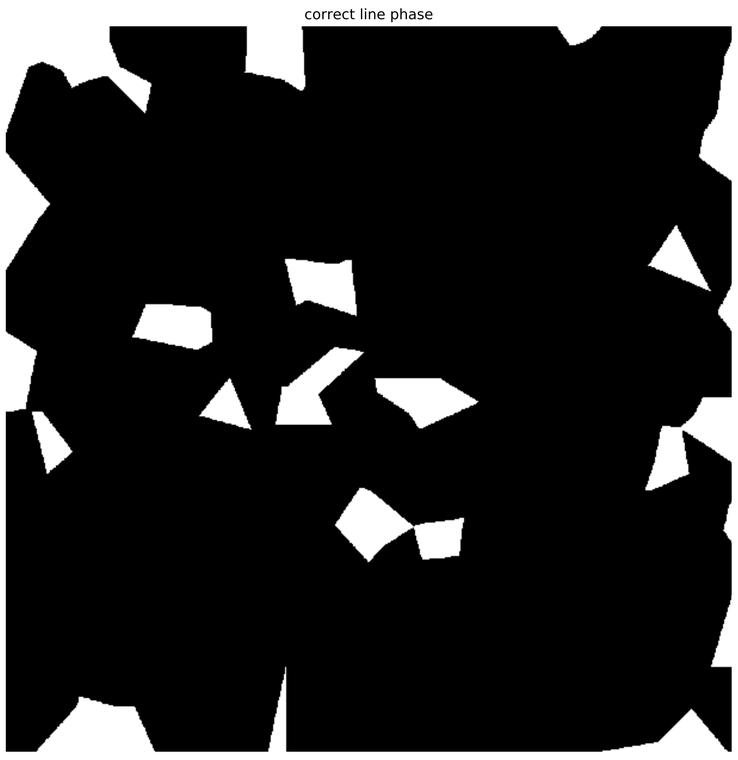
correct grain boundary



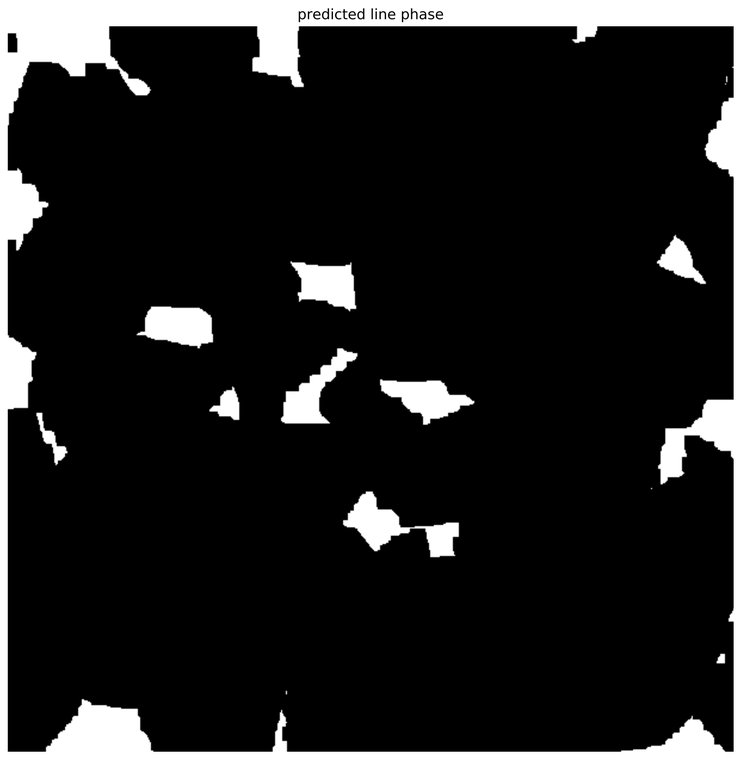
predicted grain boundary



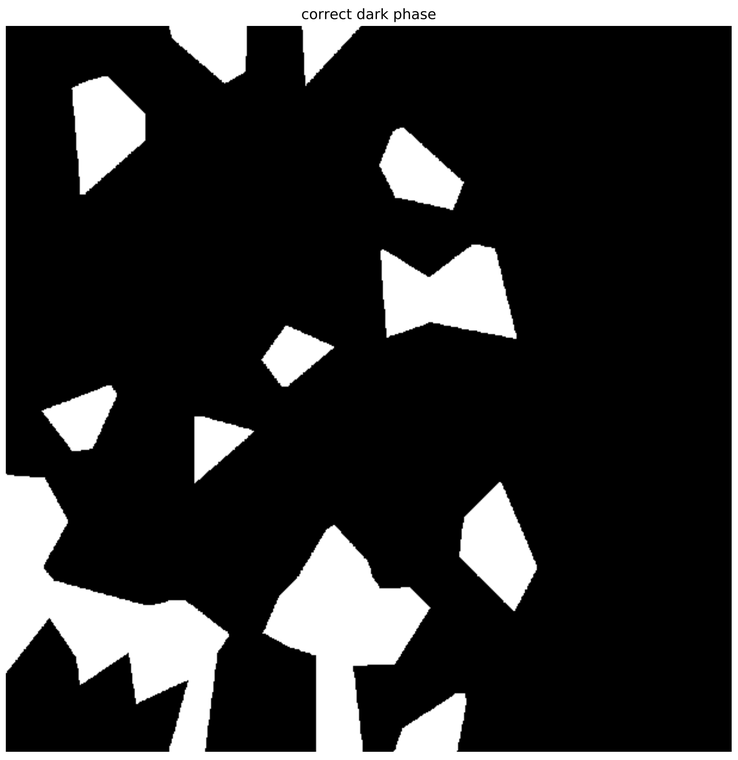
correct line phase



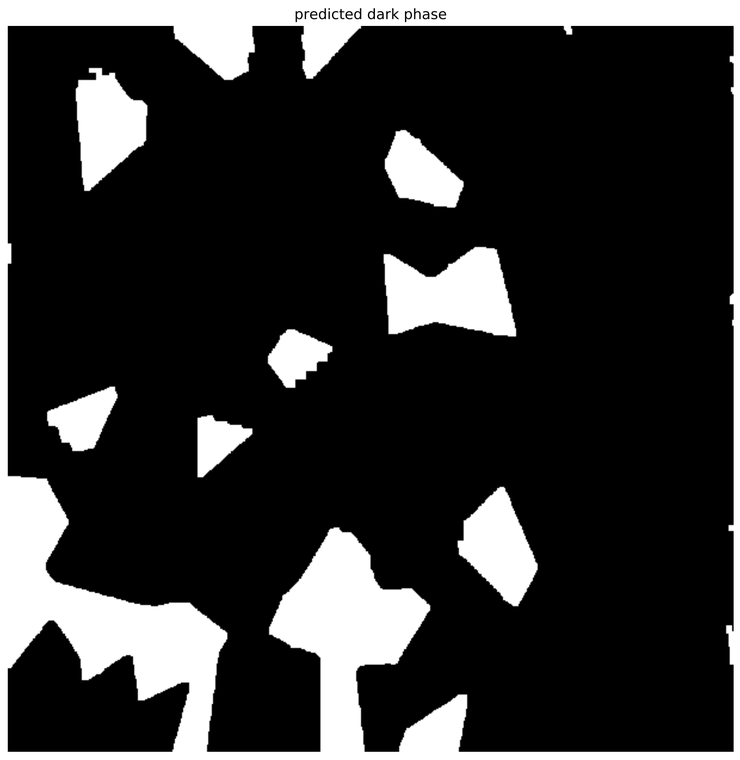
predicted line phase



correct dark phase



predicted dark phase

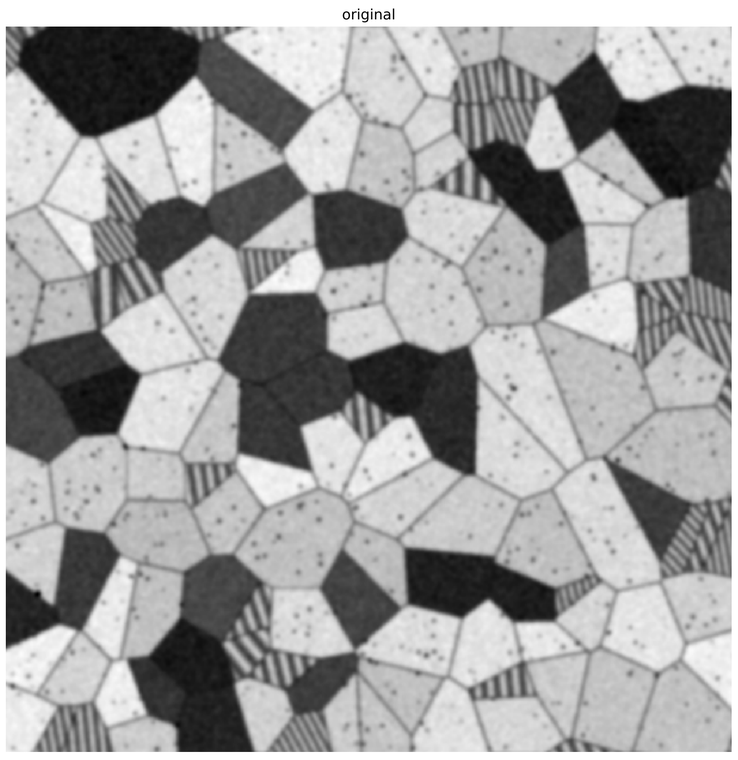


correct white phase

predicted white phase

data/base microstructure/image_196.png

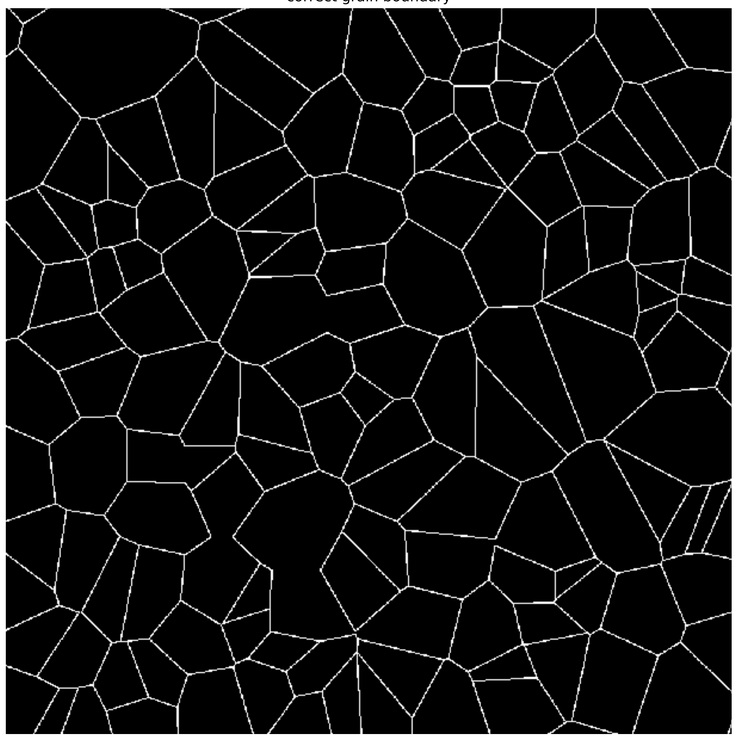
original



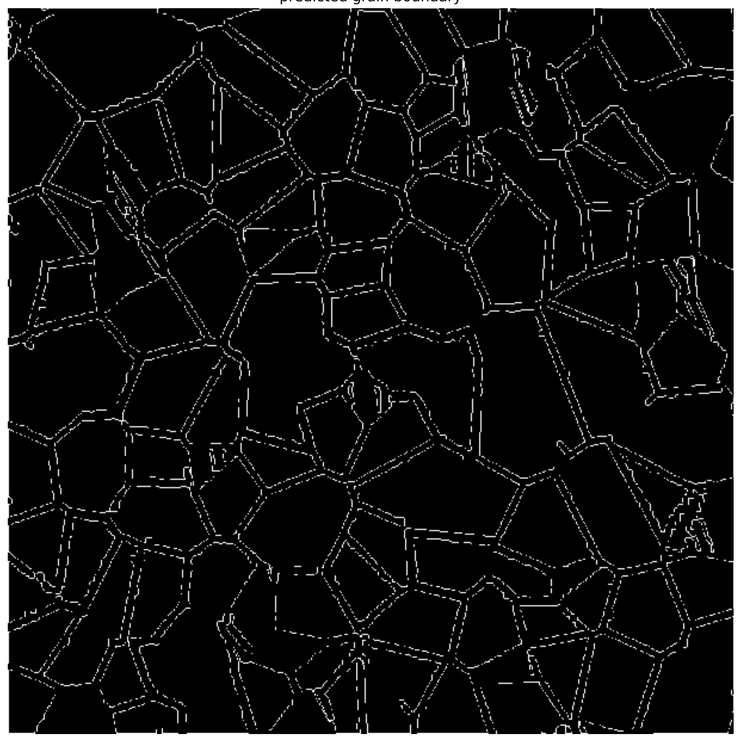
metrics

metric	correct	predicted	error
dark frac	0.260	0.251	0.906%
white frac	0.656	0.614	4.224%
line frac	0.084	0.057	2.676%
ave grain diameter	90.720	85.574	5.672%

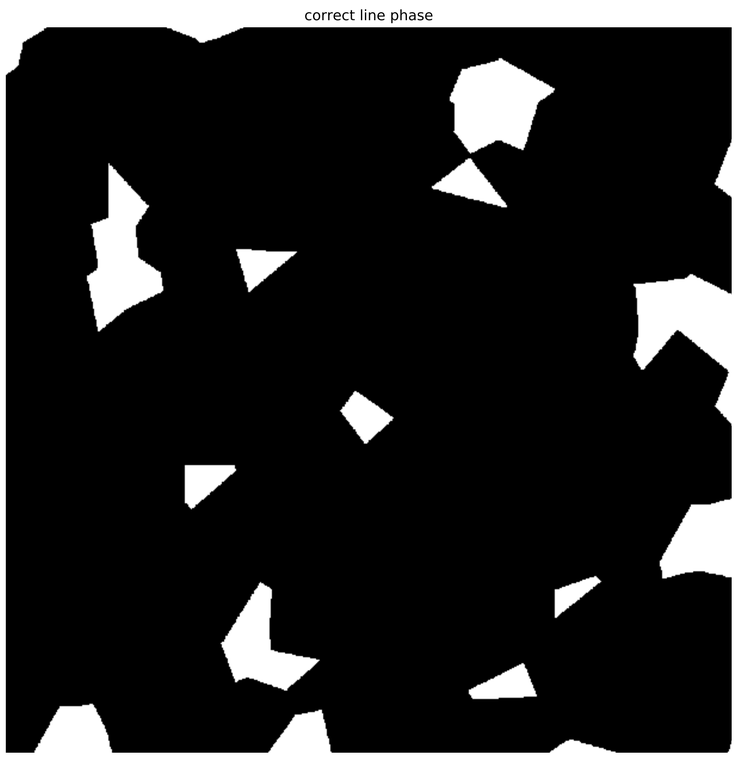
correct grain boundary



predicted grain boundary

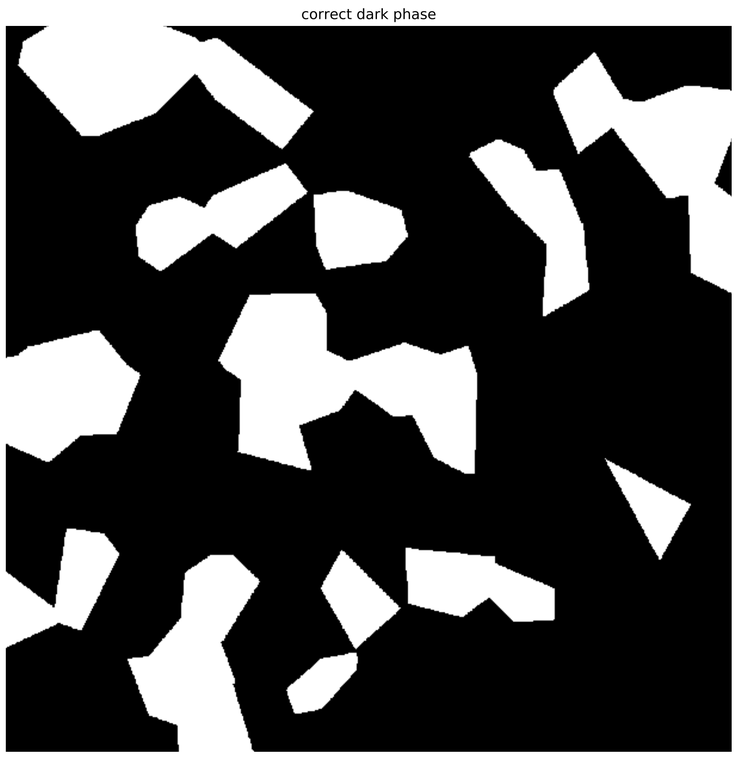


correct line phase



predicted line phase

correct dark phase



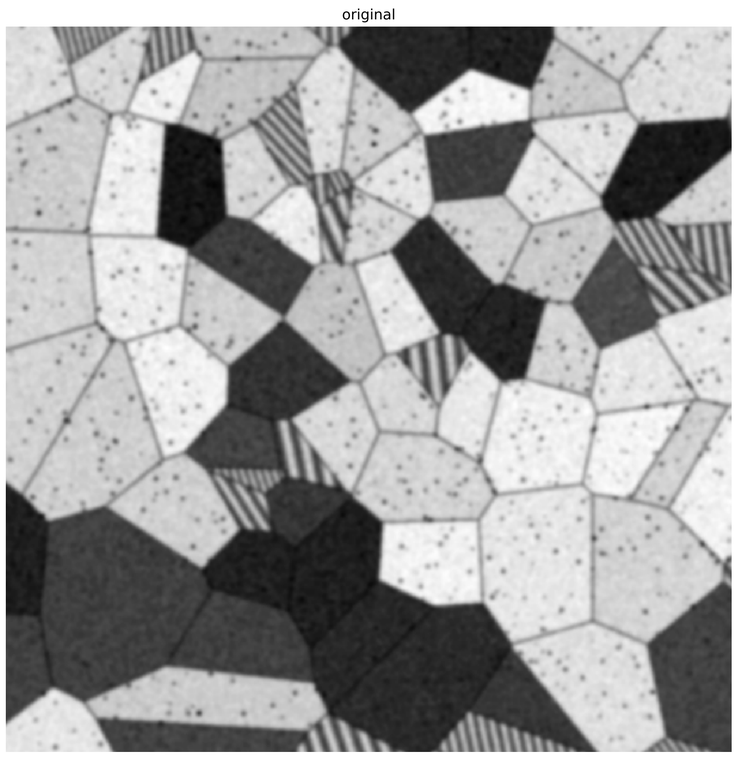
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_197.png

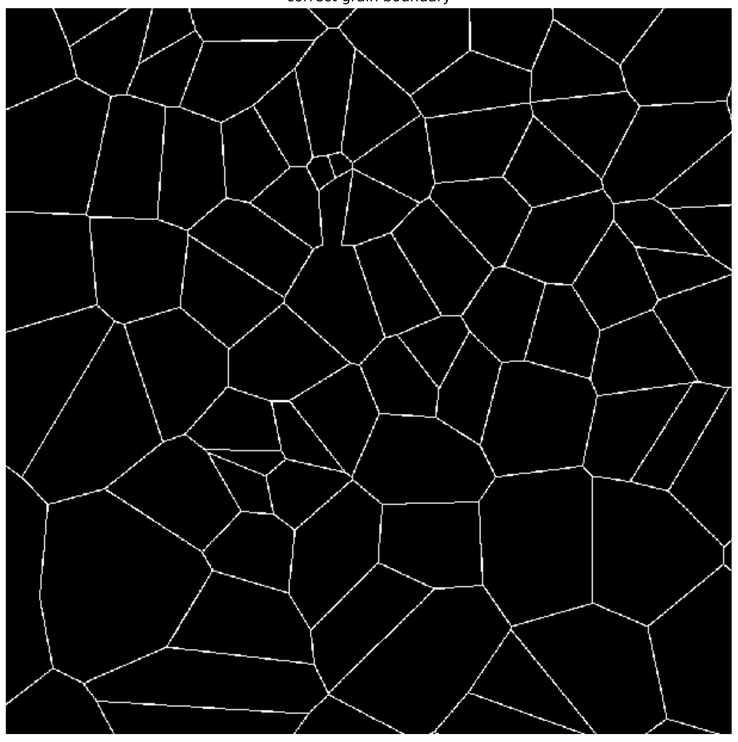
original



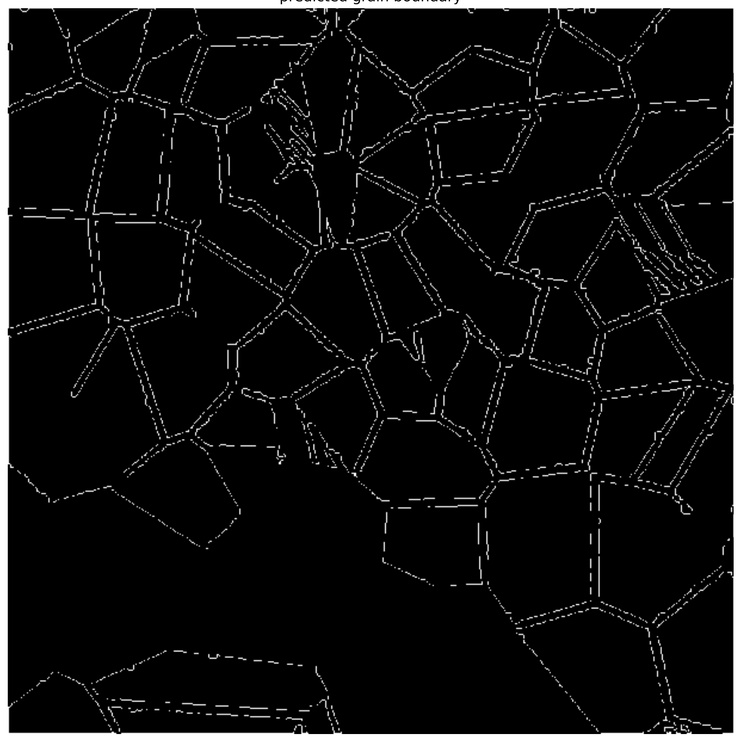
metrics

metric	correct	predicted	error
dark frac	0.319	0.313	0.576%
white frac	0.619	0.584	3.505%
line frac	0.062	0.042	1.986%
ave grain diameter	116.085	106.862	7.945%

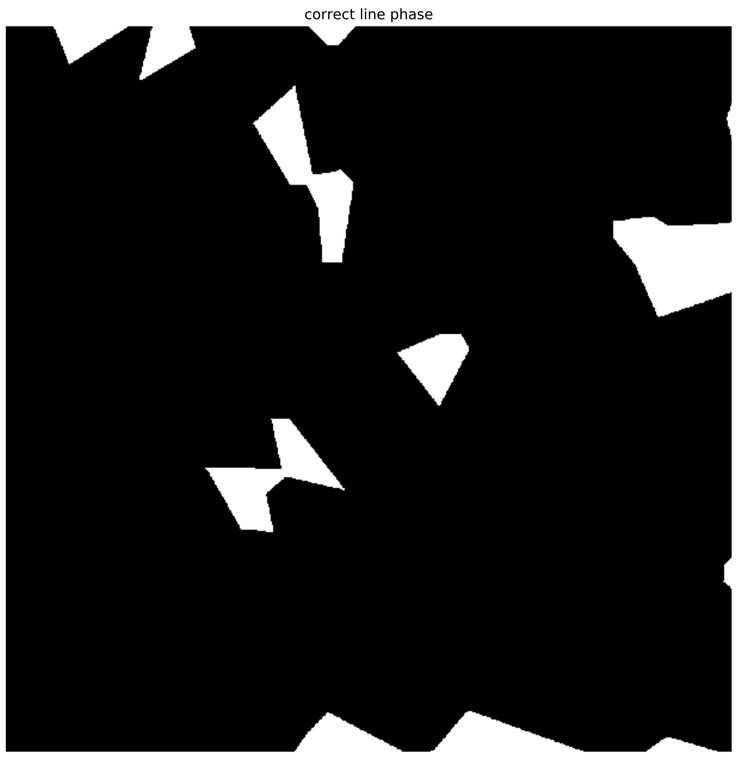
correct grain boundary



predicted grain boundary



correct line phase



predicted line phase

correct dark phase

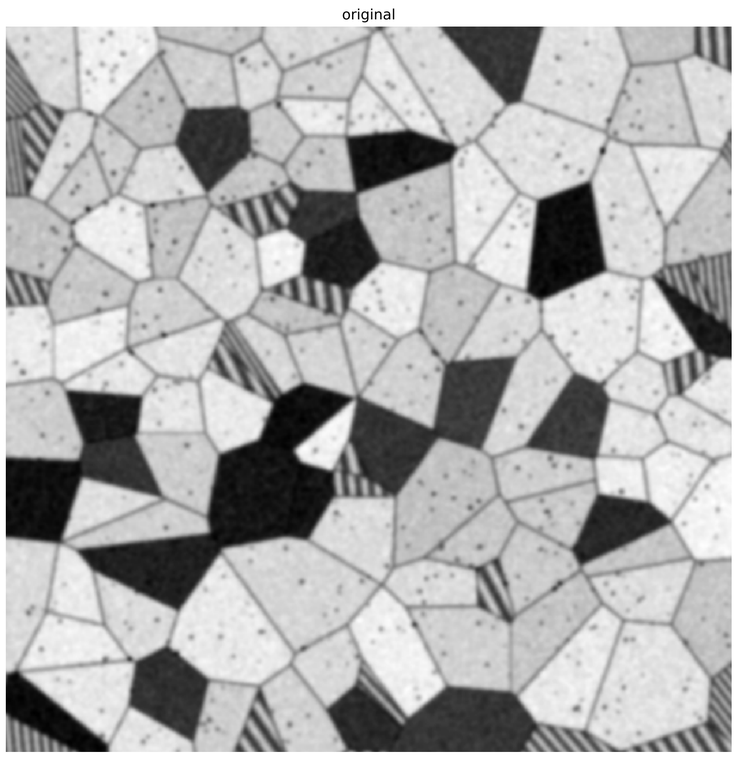
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_198.png

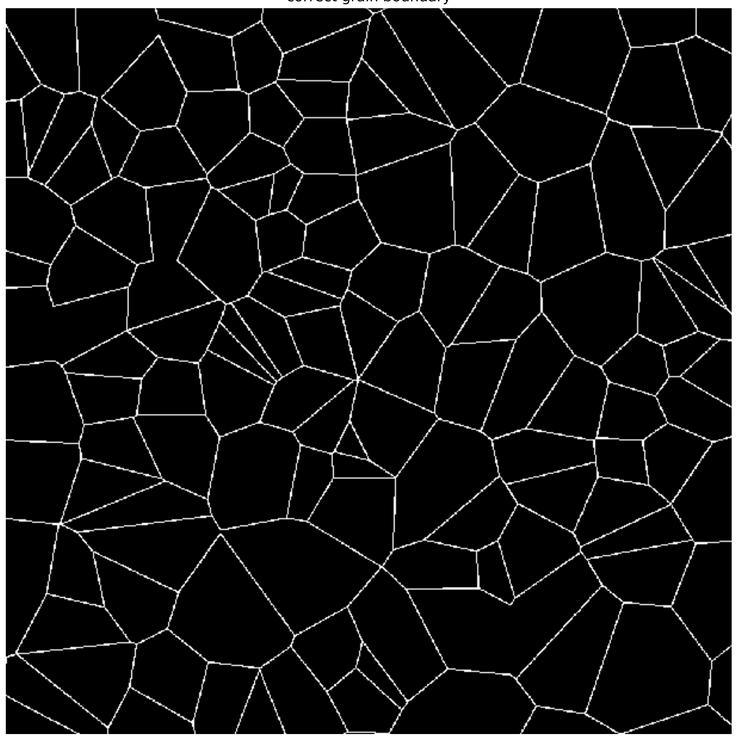
original



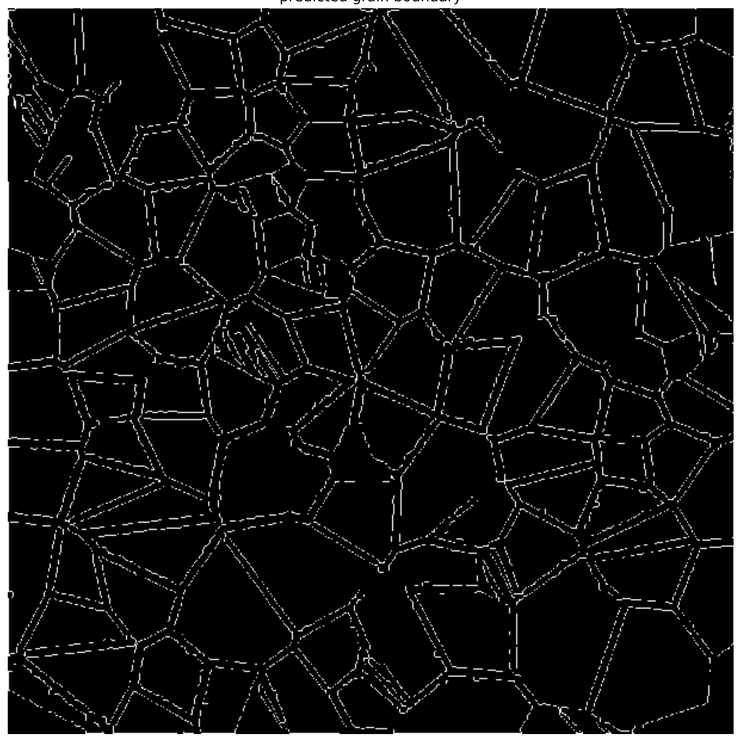
metrics

metric	correct	predicted	error
dark frac	0.178	0.170	0.776%
white frac	0.762	0.725	3.728%
line frac	0.060	0.040	2.010%
ave grain diameter	92.930	79.906	14.014%

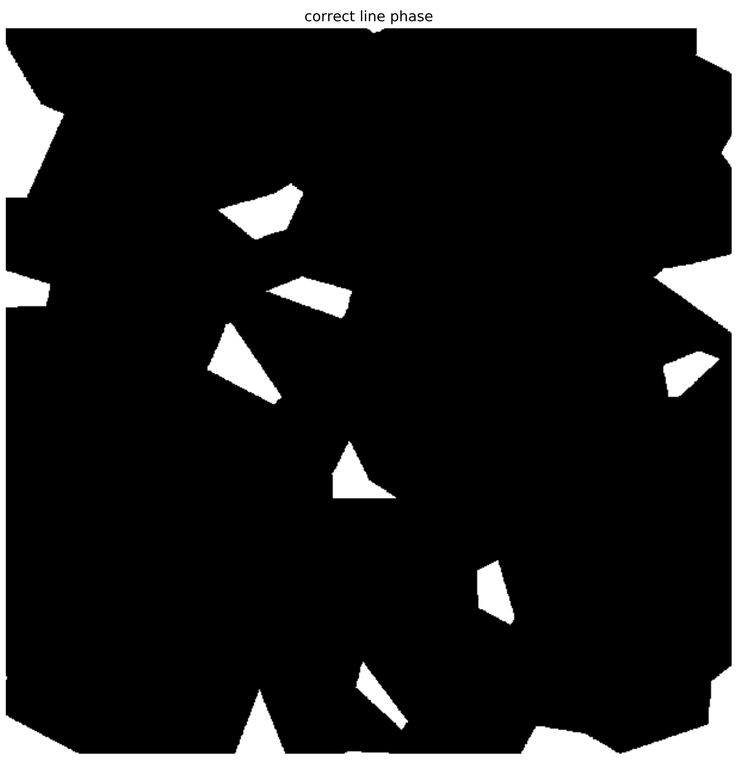
correct grain boundary



predicted grain boundary



correct line phase



predicted line phase

correct dark phase

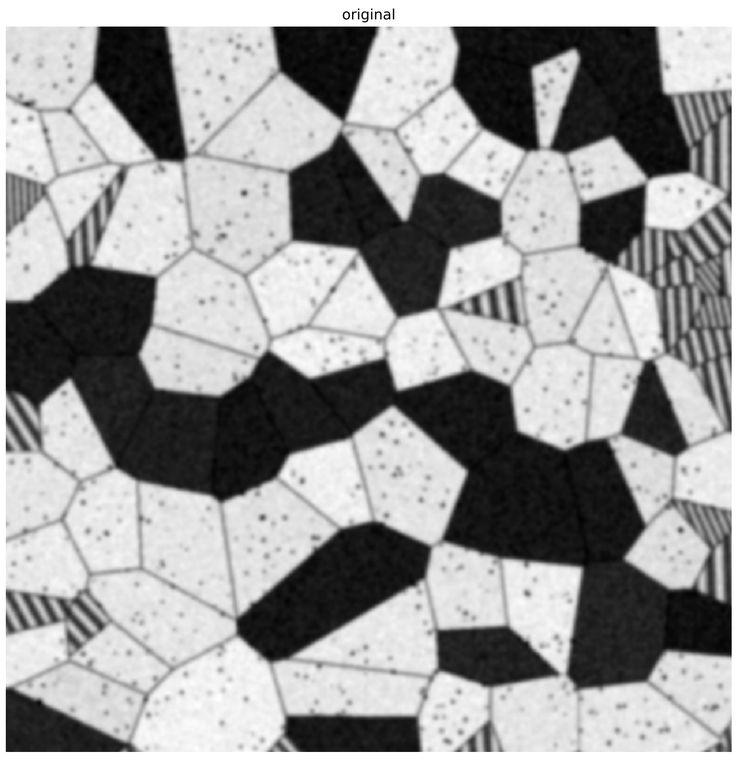
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_199.png

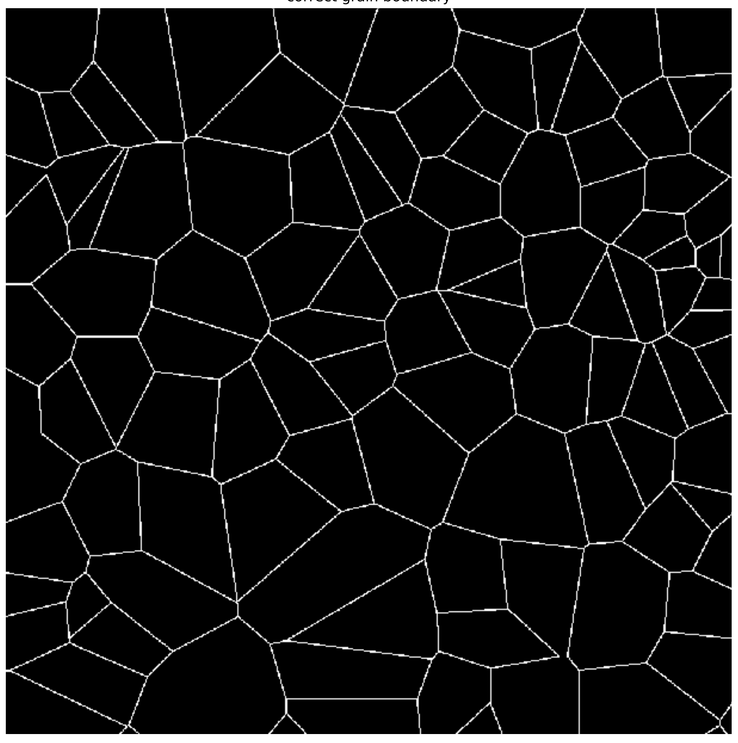
original



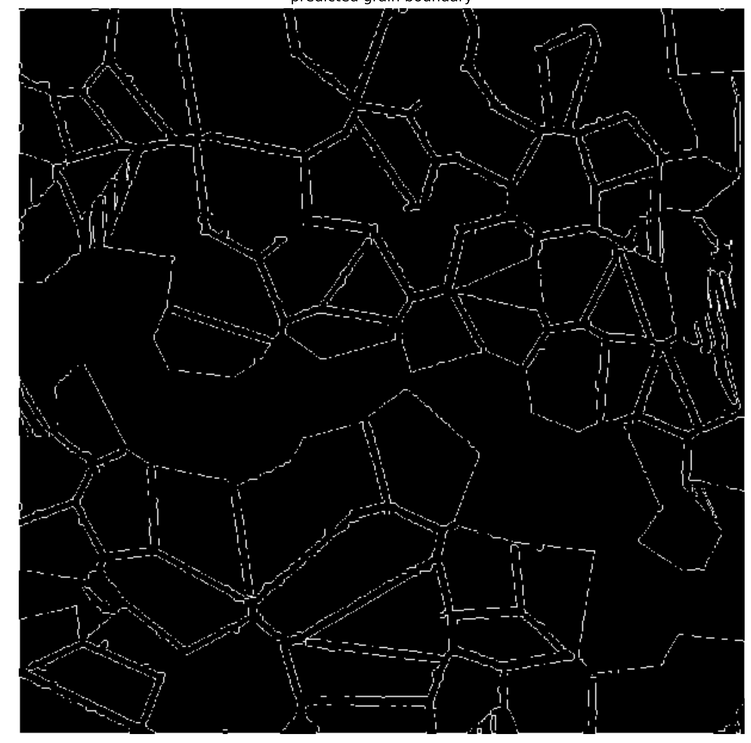
metrics

metric	correct	predicted	error
dark frac	0.327	0.315	1.150%
white frac	0.610	0.570	3.920%
line frac	0.064	0.045	1.880%
ave grain diameter	105.243	95.313	9.435%

correct grain boundary

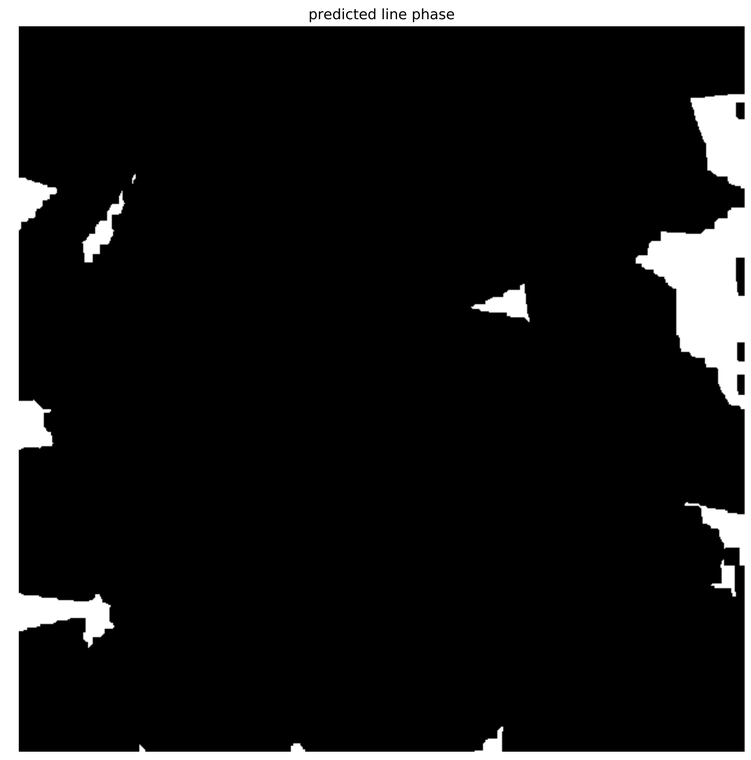


predicted grain boundary

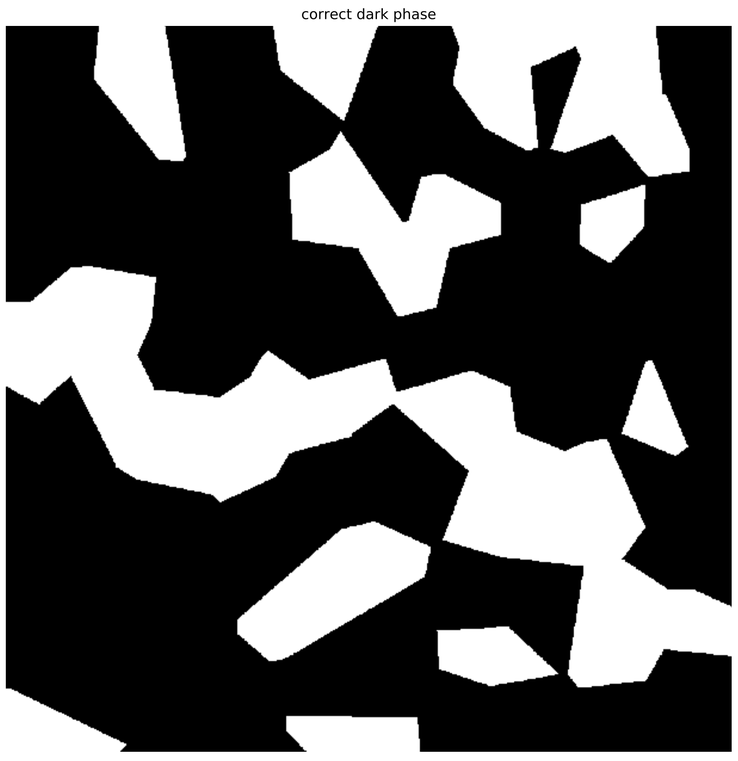


correct line phase

predicted line phase



correct dark phase



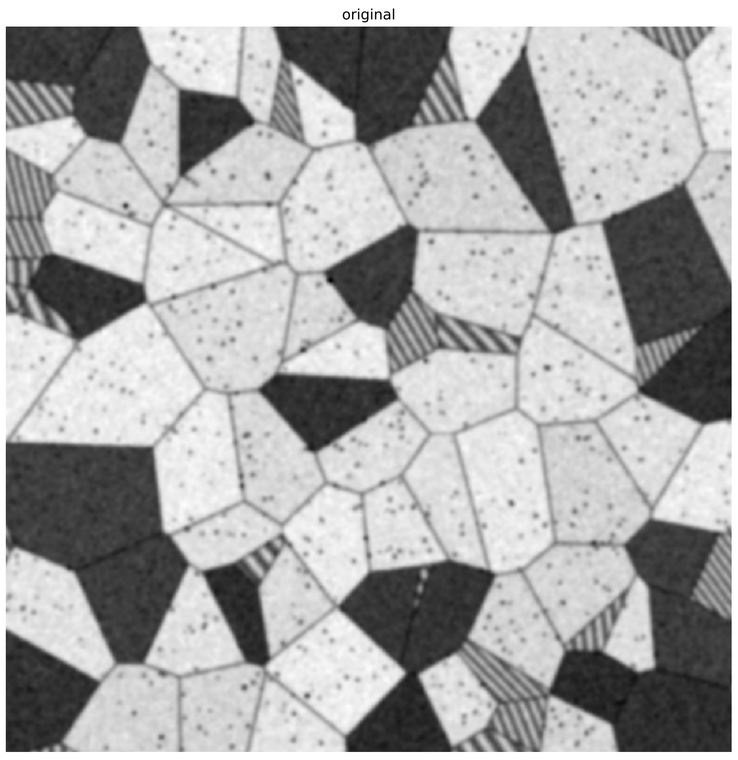
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_2.png

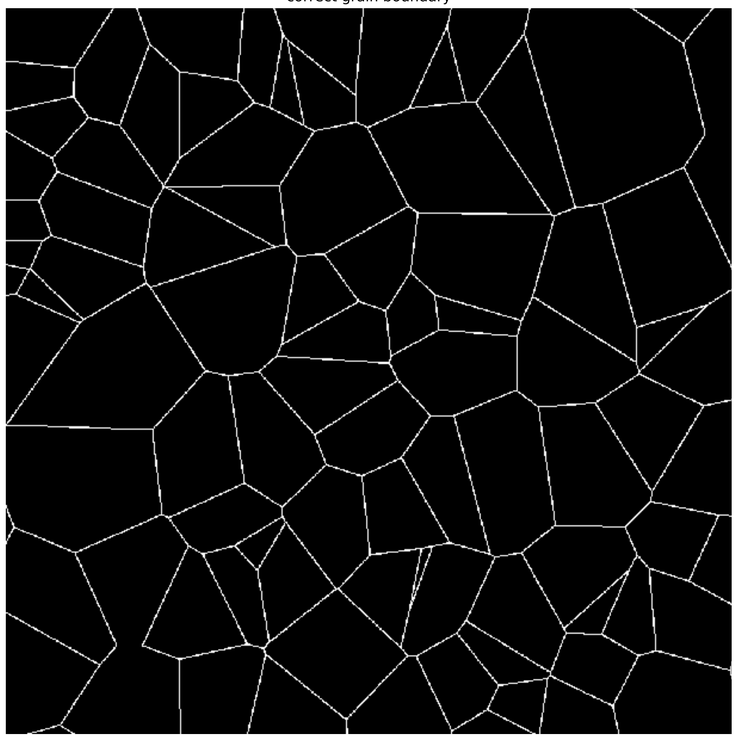
original



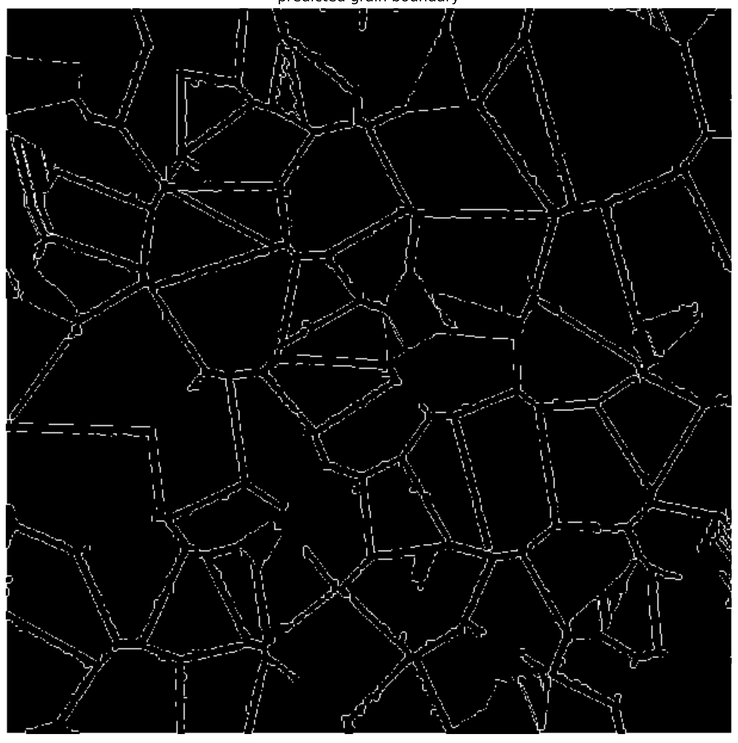
metrics

metric	correct	predicted	error
dark frac	0.277	0.272	0.495%
white frac	0.662	0.622	3.986%
line frac	0.061	0.041	2.005%
ave grain diameter	114.659	108.428	5.434%

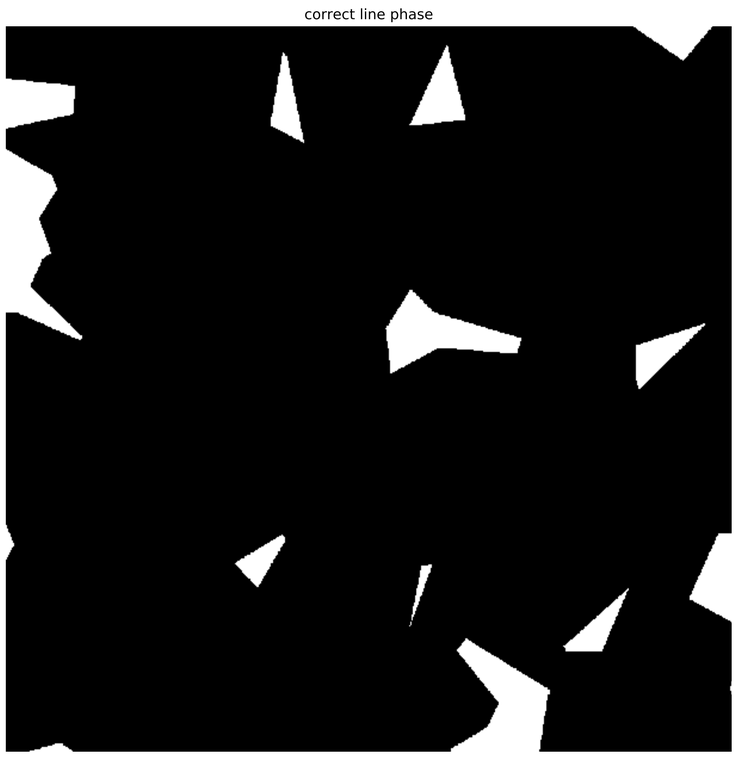
correct grain boundary



predicted grain boundary

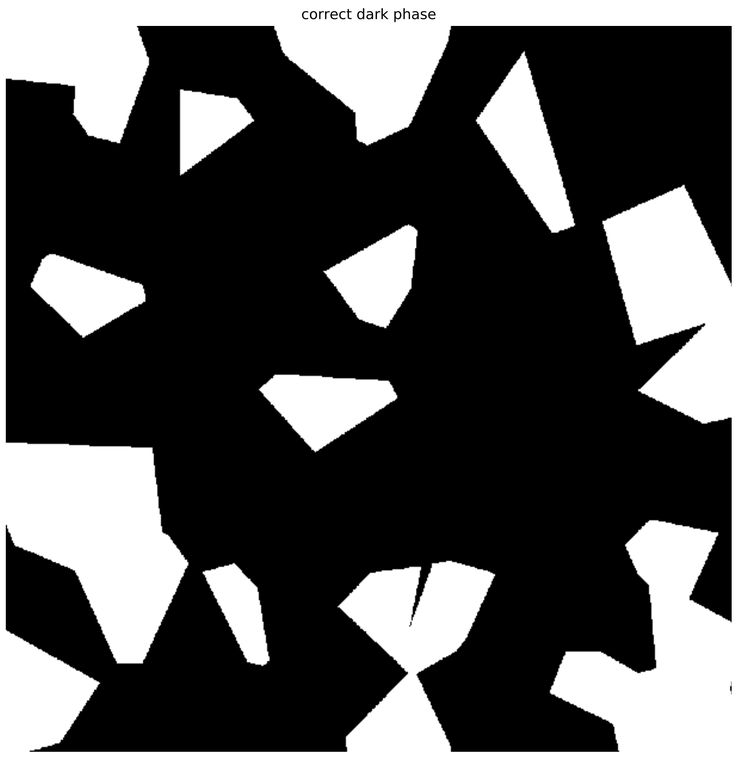


correct line phase

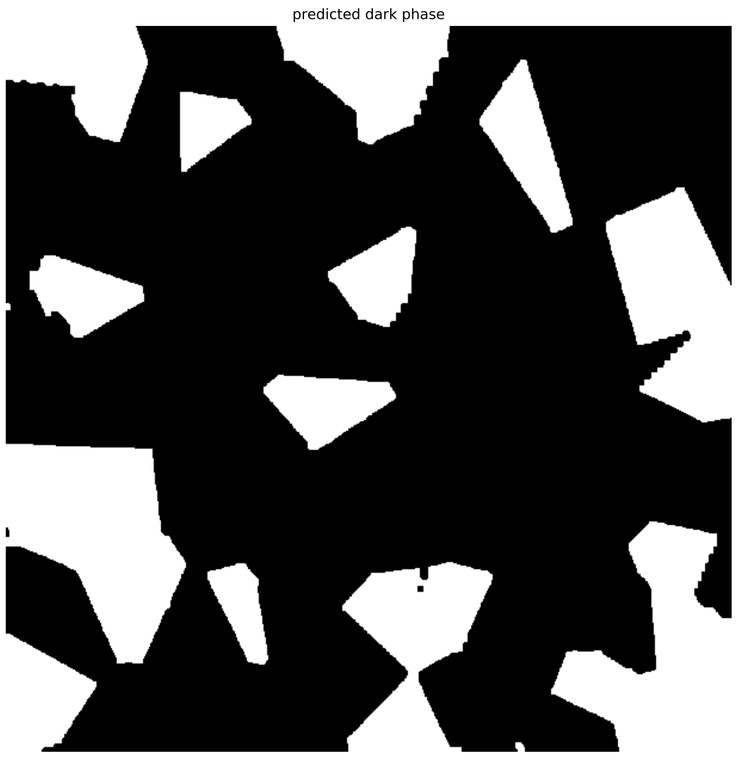


predicted line phase

correct dark phase



predicted dark phase

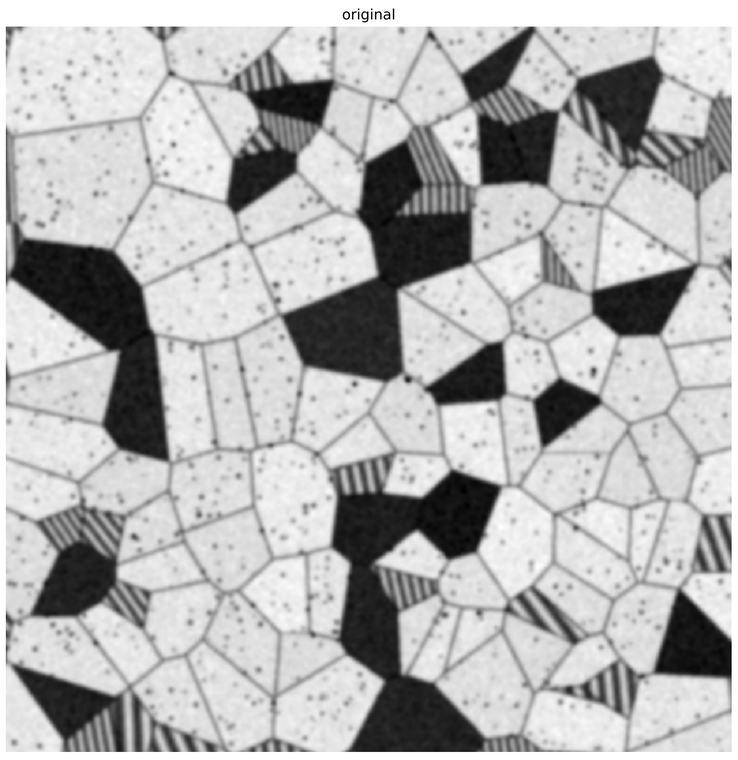


correct white phase

predicted white phase

data/base microstructure/image_20.png

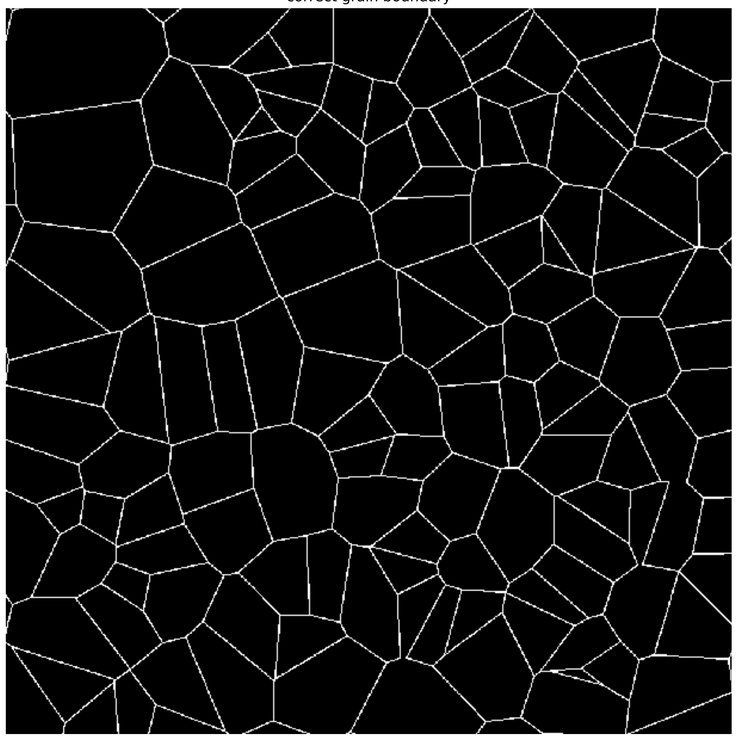
original



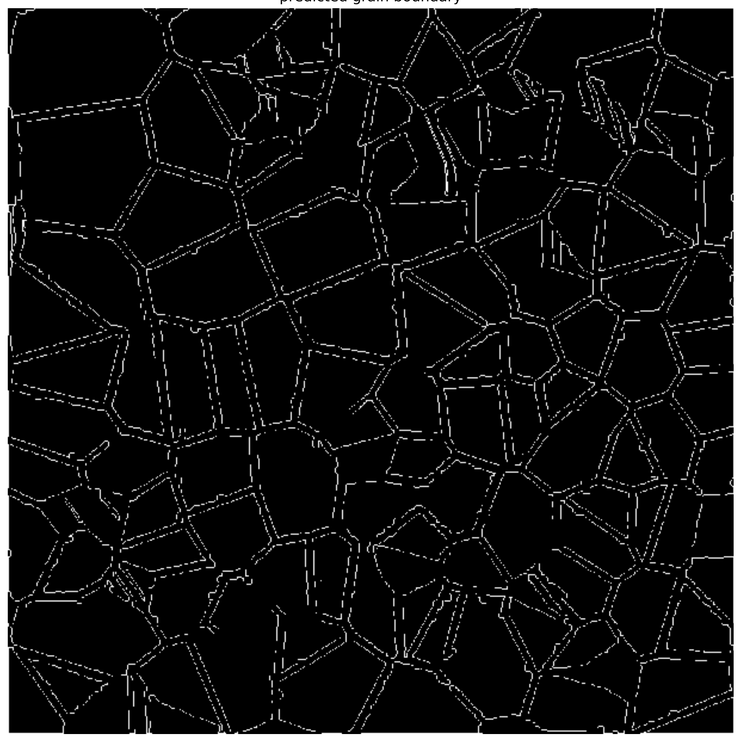
metrics

metric	correct	predicted	error
dark frac	0.172	0.167	0.457%
white frac	0.755	0.716	3.880%
line frac	0.073	0.042	3.084%
ave grain diameter	91.176	81.477	10.638%

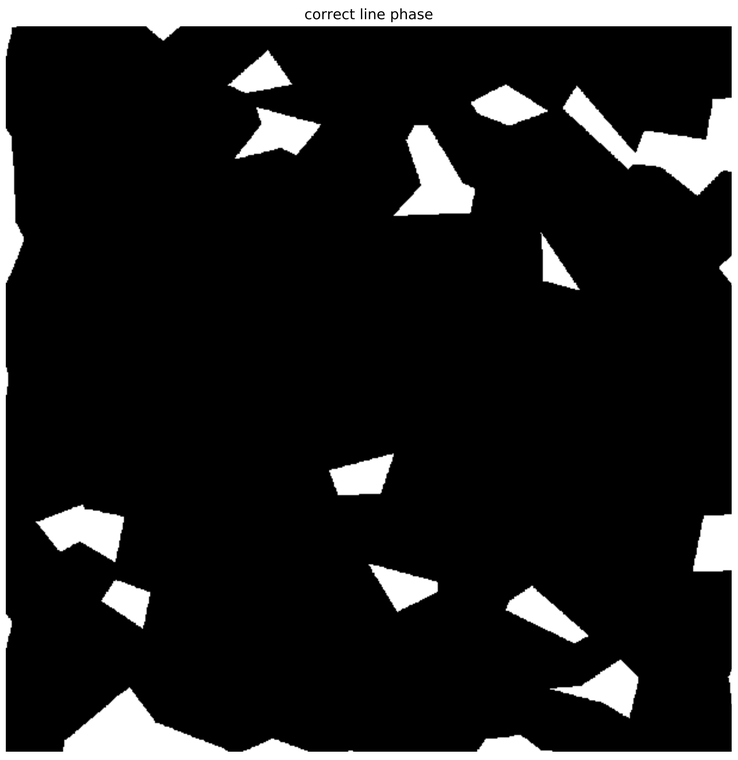
correct grain boundary



predicted grain boundary

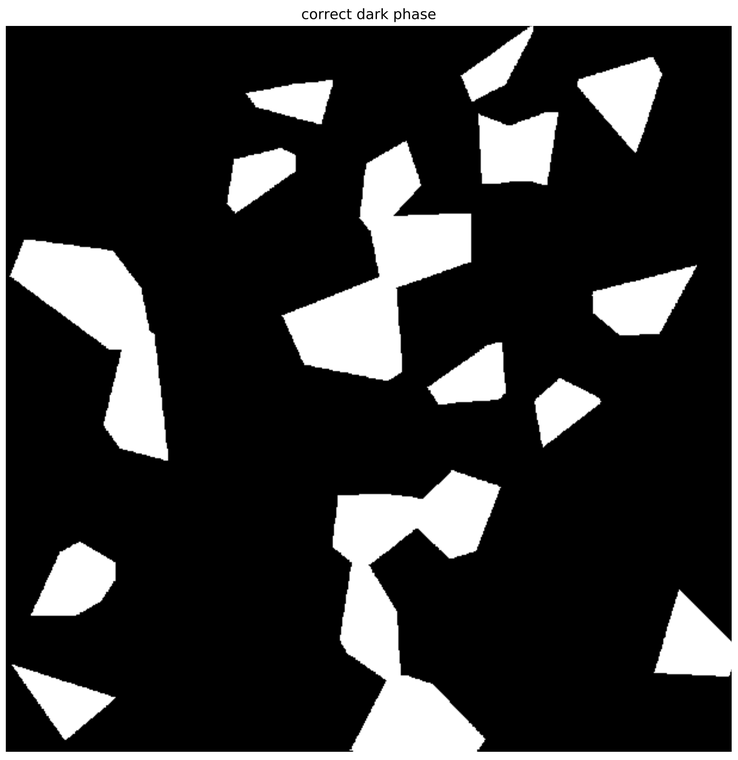


correct line phase



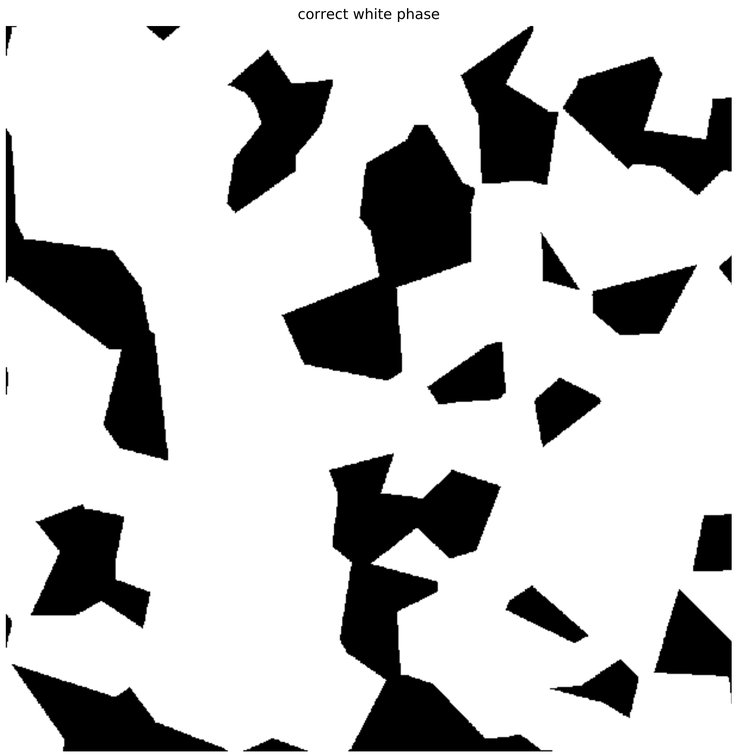
predicted line phase

correct dark phase



predicted dark phase

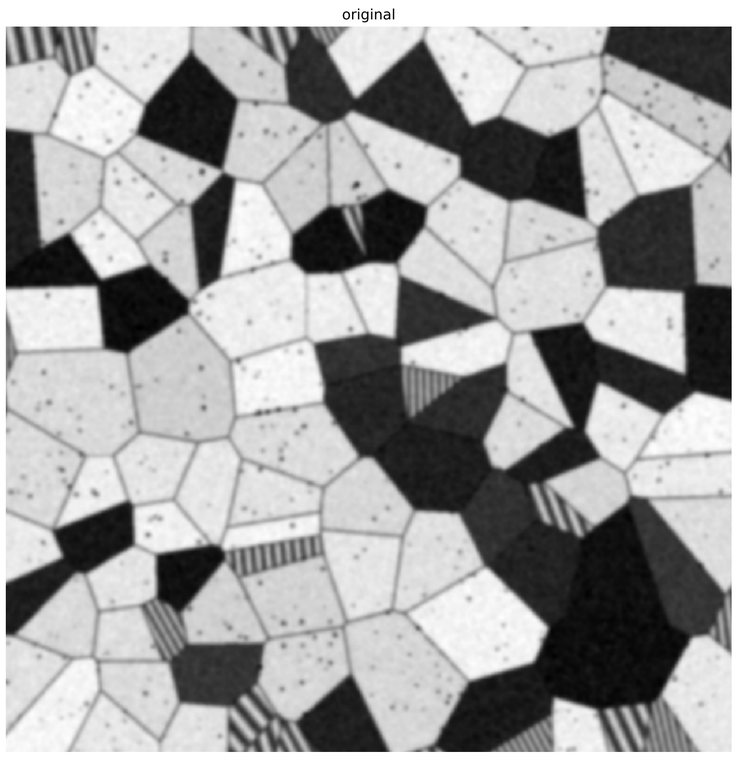
correct white phase



predicted white phase

data/base microstructure/image_21.png

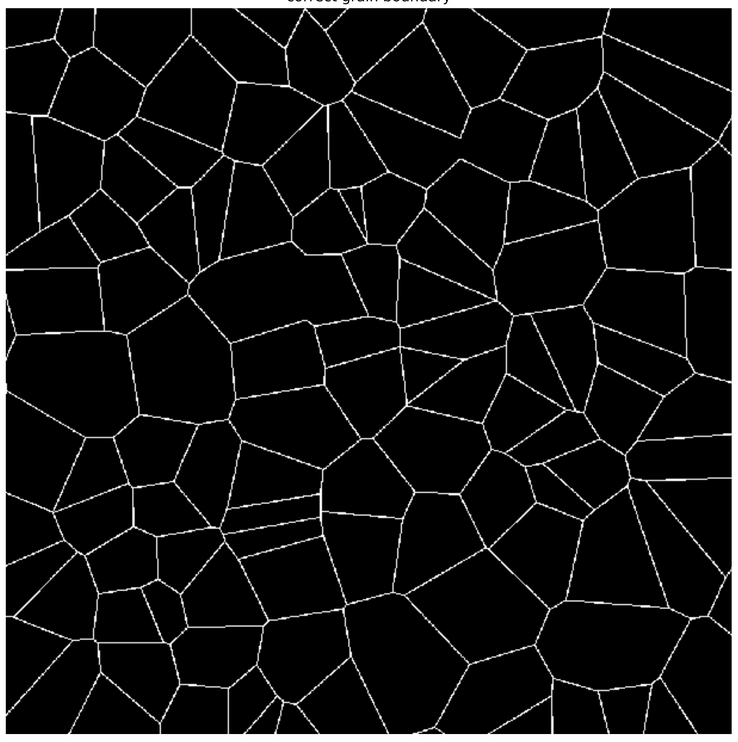
original



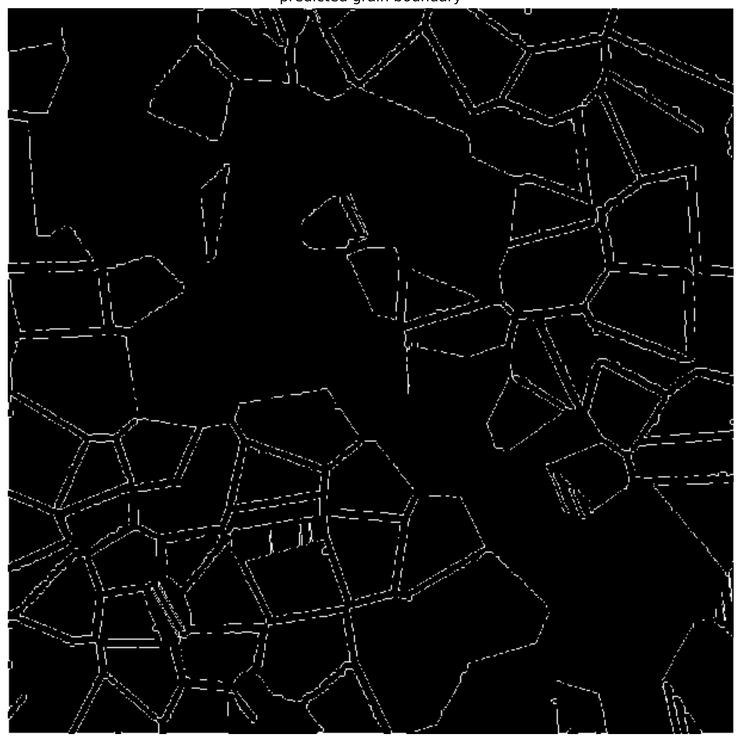
metrics

metric	correct	predicted	error
dark frac	0.305	0.292	1.270%
white frac	0.650	0.611	3.867%
line frac	0.046	0.028	1.783%
ave grain diameter	100.458	83.281	17.099%

correct grain boundary



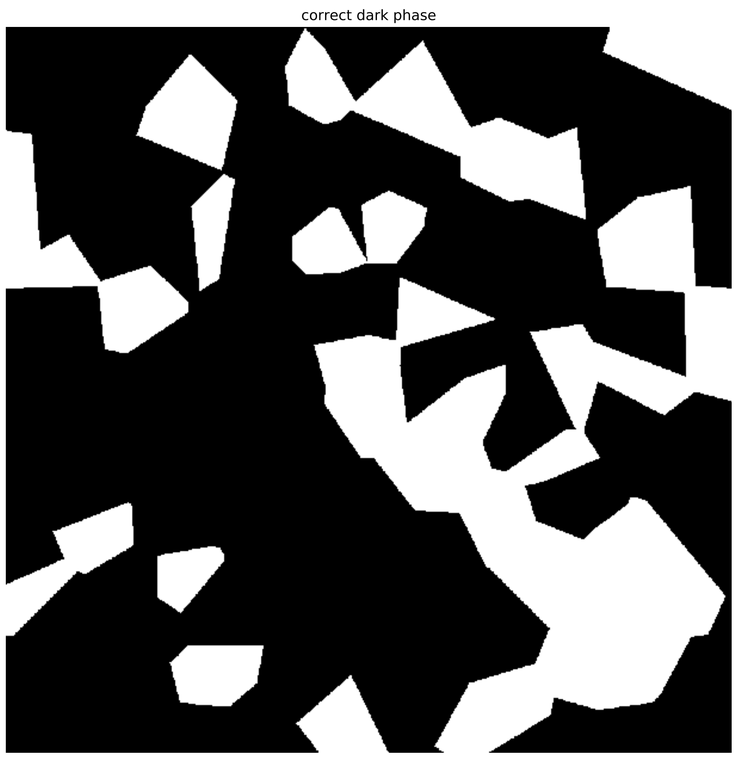
predicted grain boundary



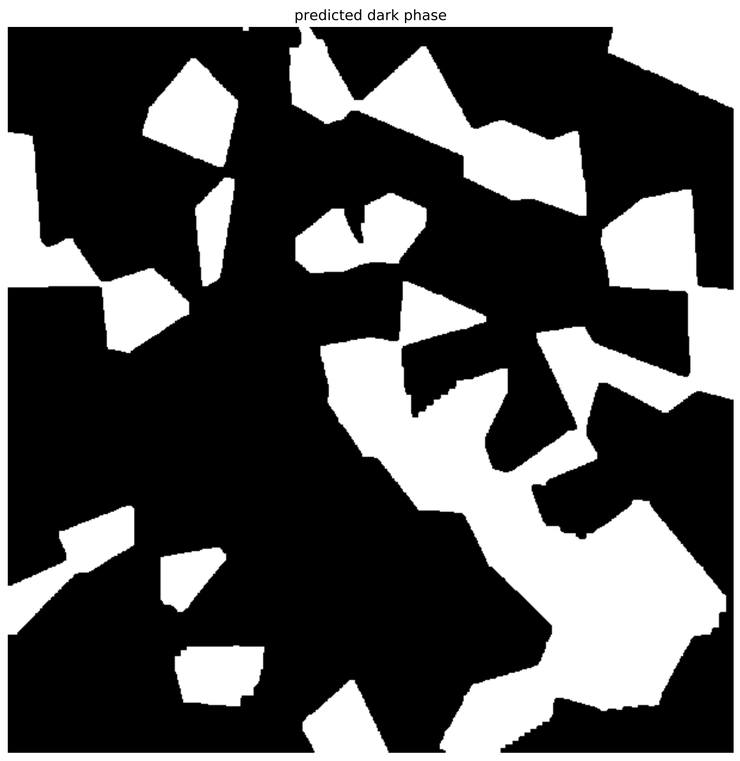
correct line phase

predicted line phase

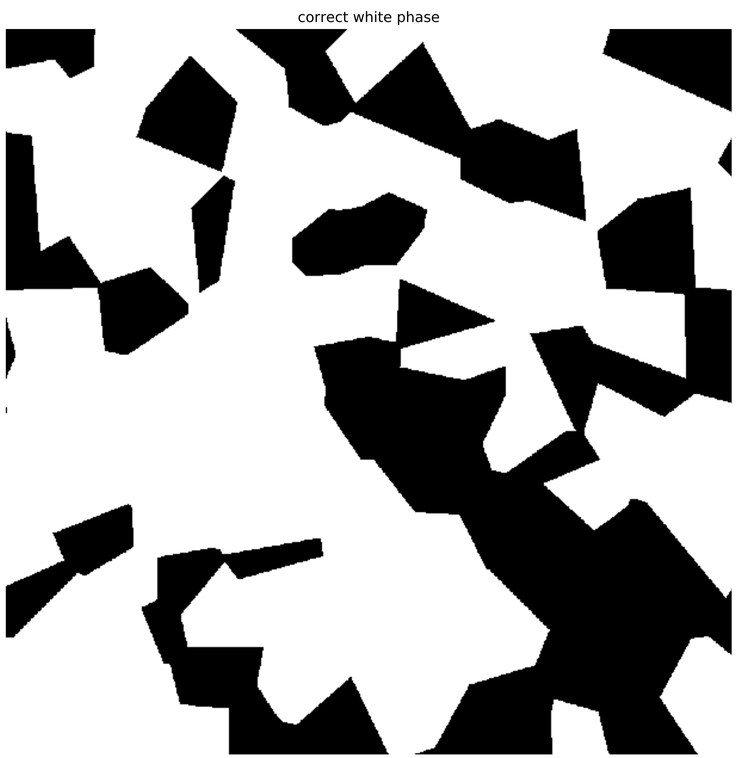
correct dark phase



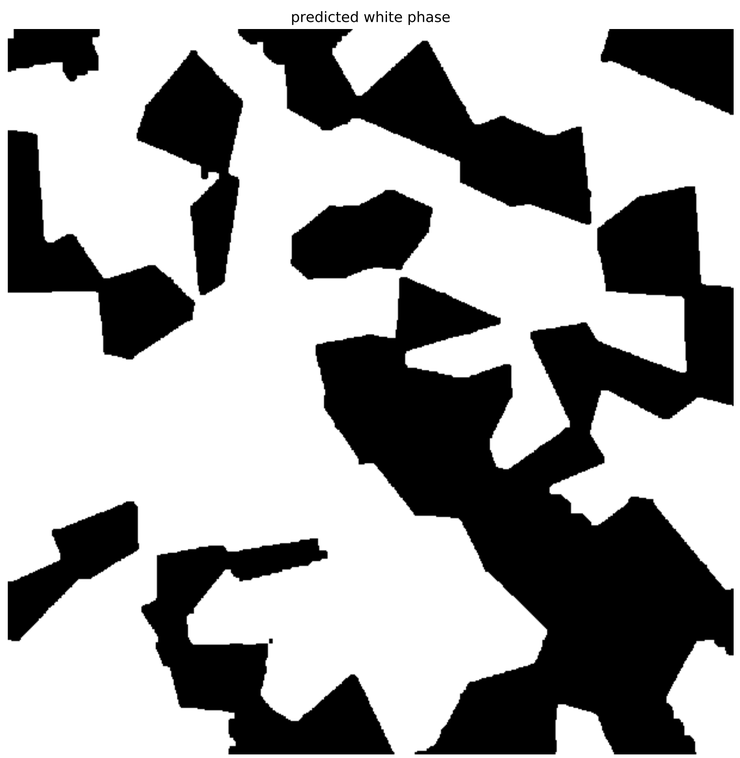
predicted dark phase



correct white phase

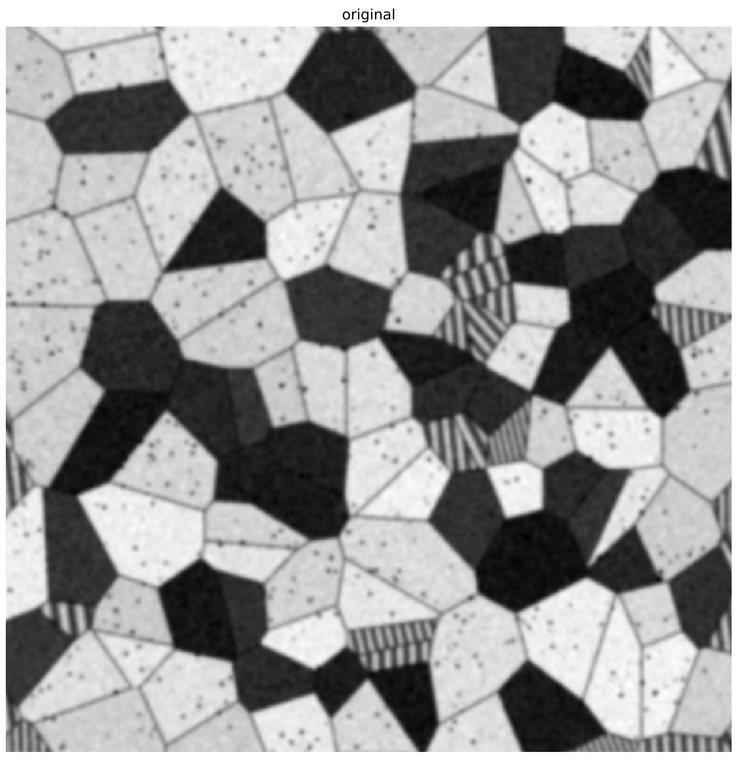


predicted white phase



data/base microstructure/image_22.png

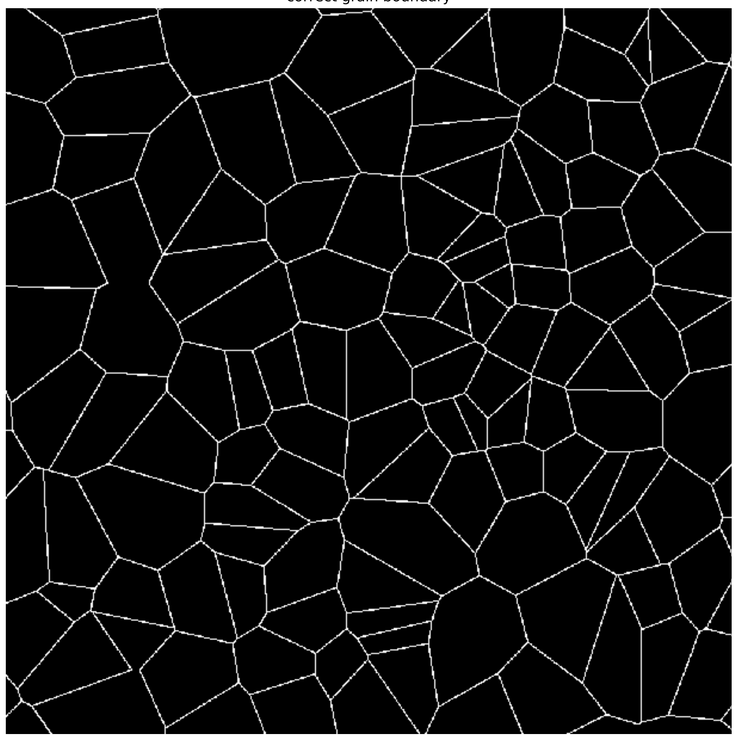
original



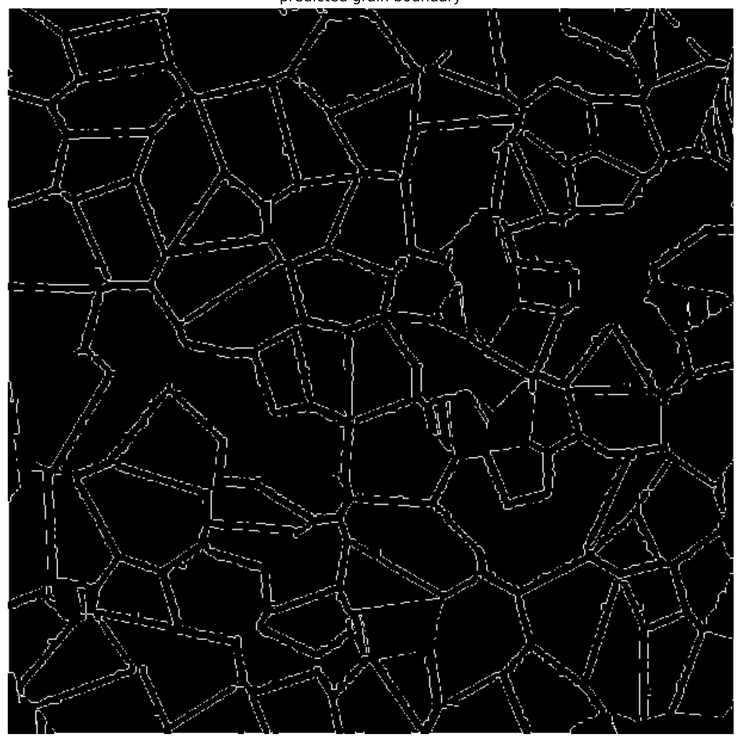
metrics

metric	correct	predicted	error
dark frac	0.329	0.316	1.342%
white frac	0.617	0.574	4.389%
line frac	0.054	0.032	2.120%
ave grain diameter	94.314	94.316	0.003%

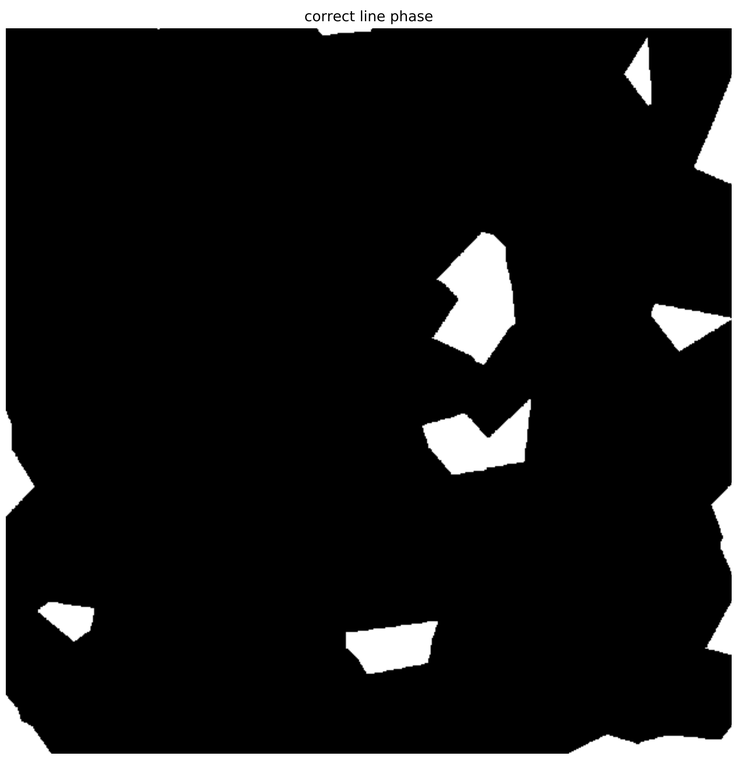
correct grain boundary



predicted grain boundary

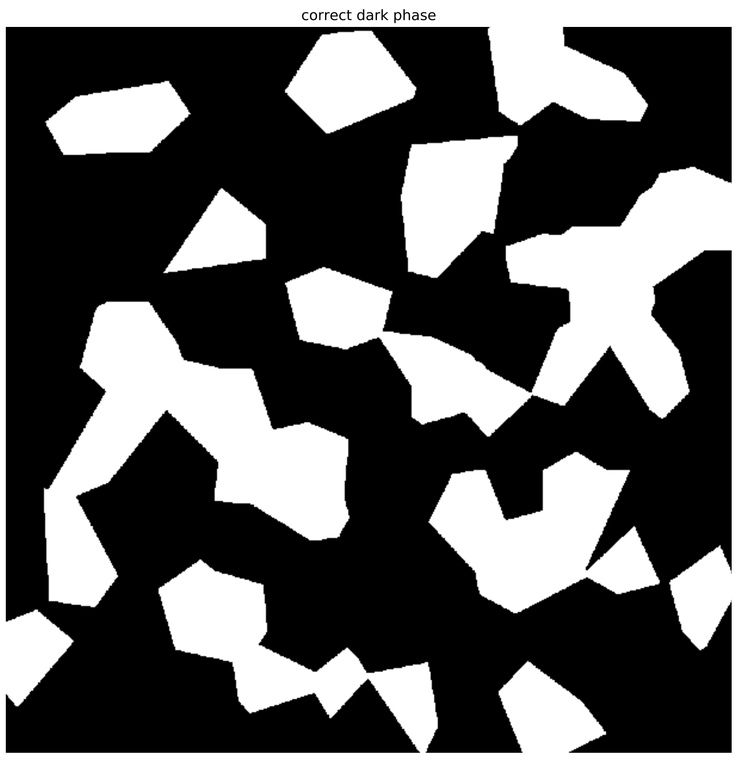


correct line phase



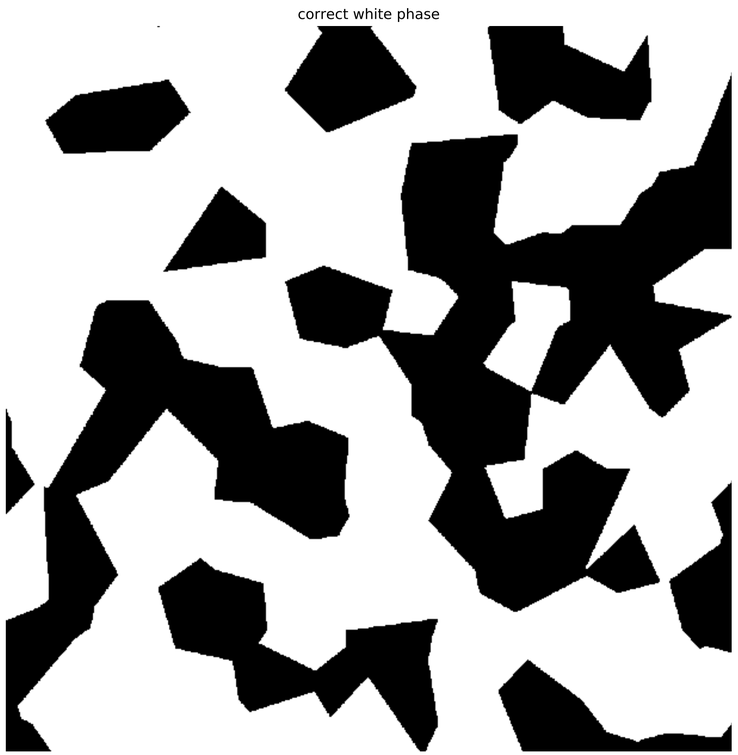
predicted line phase

correct dark phase

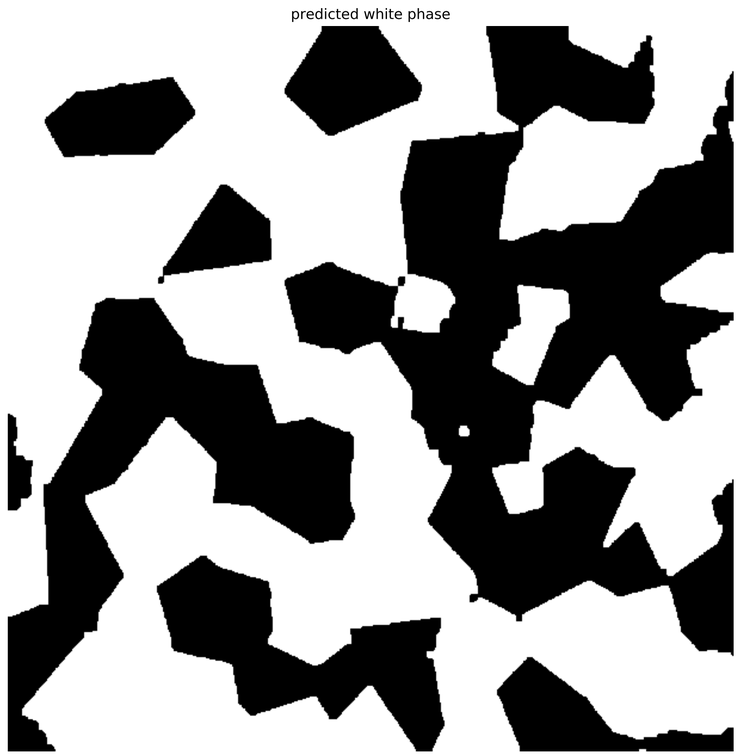


predicted dark phase

correct white phase

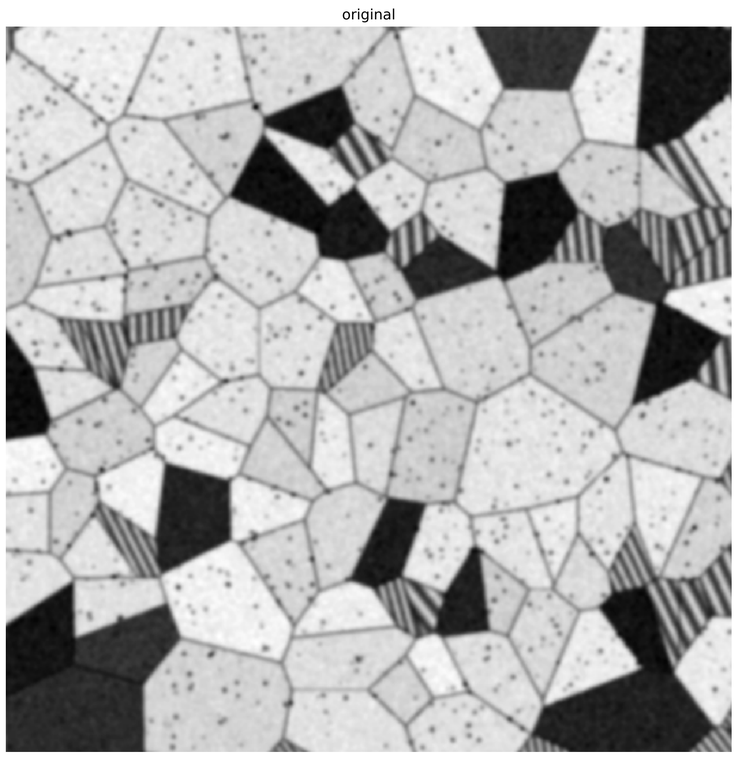


predicted white phase



data/base microstructure/image_23.png

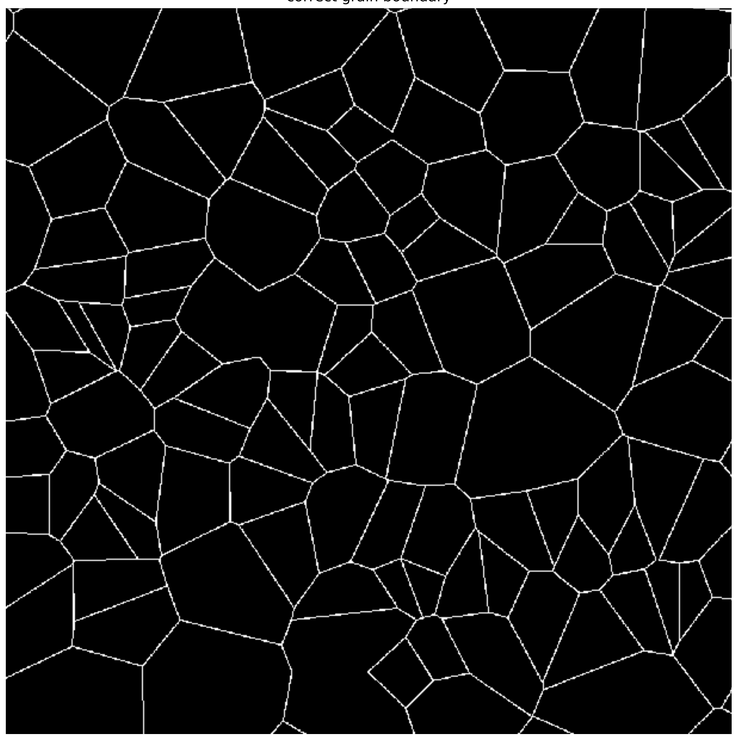
original



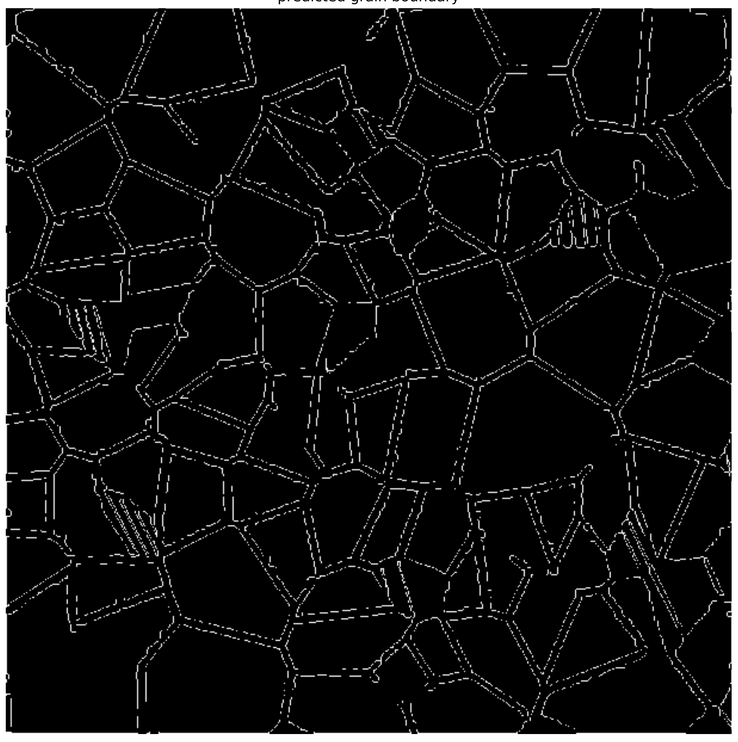
metrics

metric	correct	predicted	error
dark frac	0.176	0.172	0.447%
white frac	0.754	0.723	3.147%
line frac	0.069	0.046	2.292%
ave grain diameter	99.755	89.109	10.672%

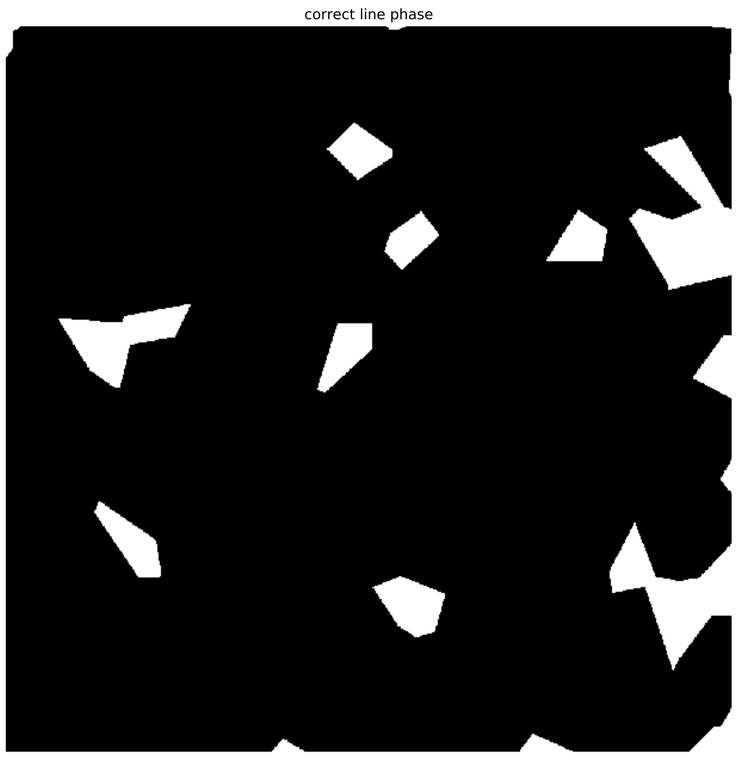
correct grain boundary



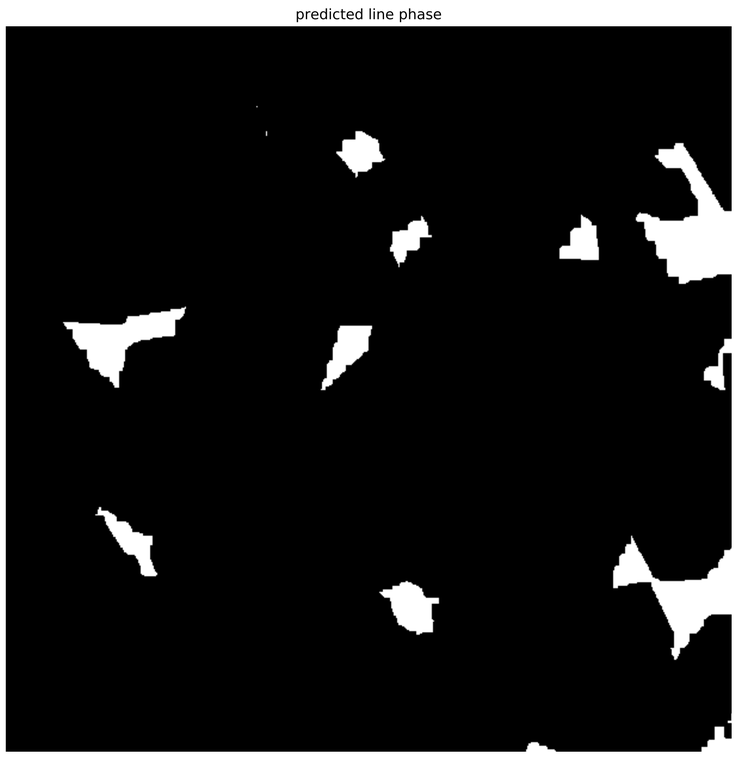
predicted grain boundary



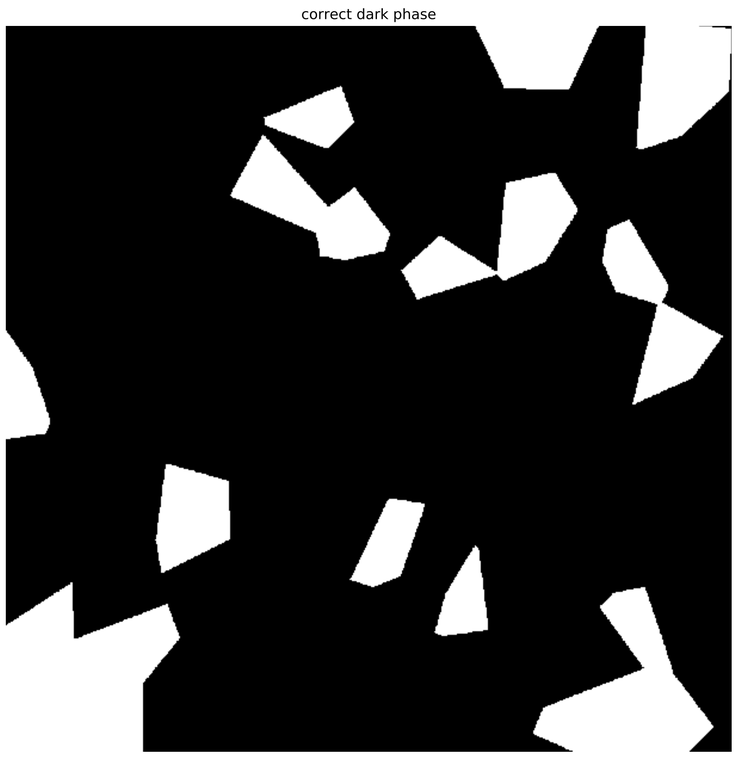
correct line phase



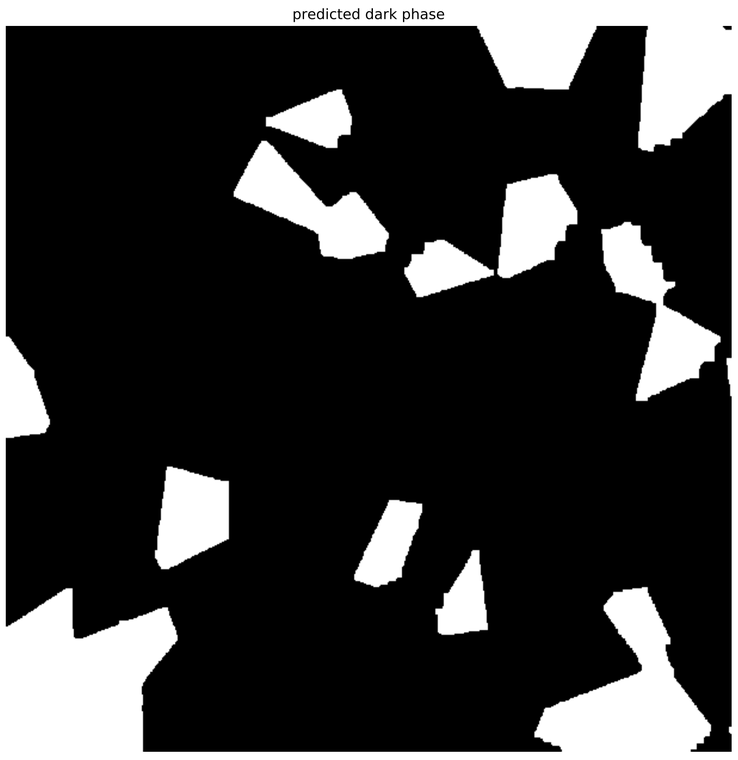
predicted line phase



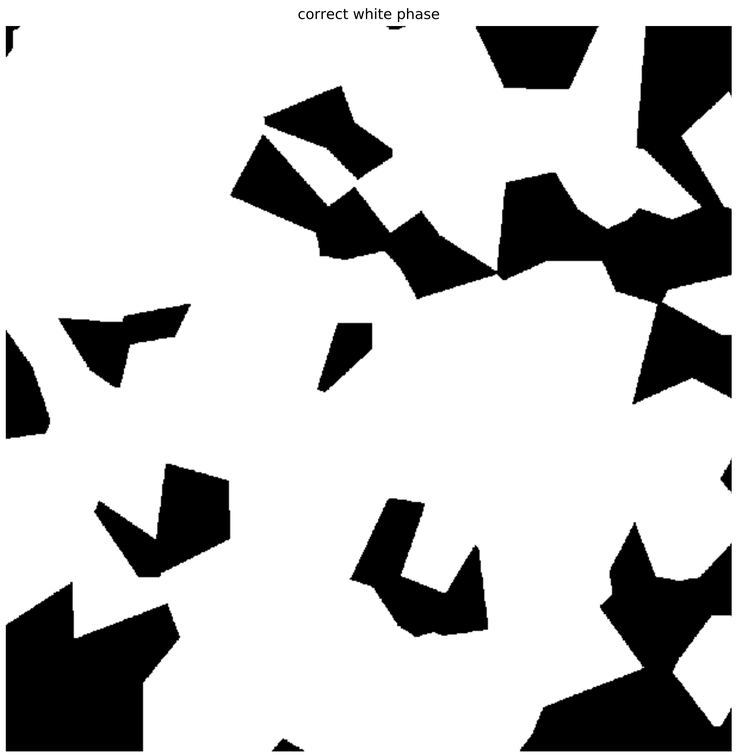
correct dark phase



predicted dark phase



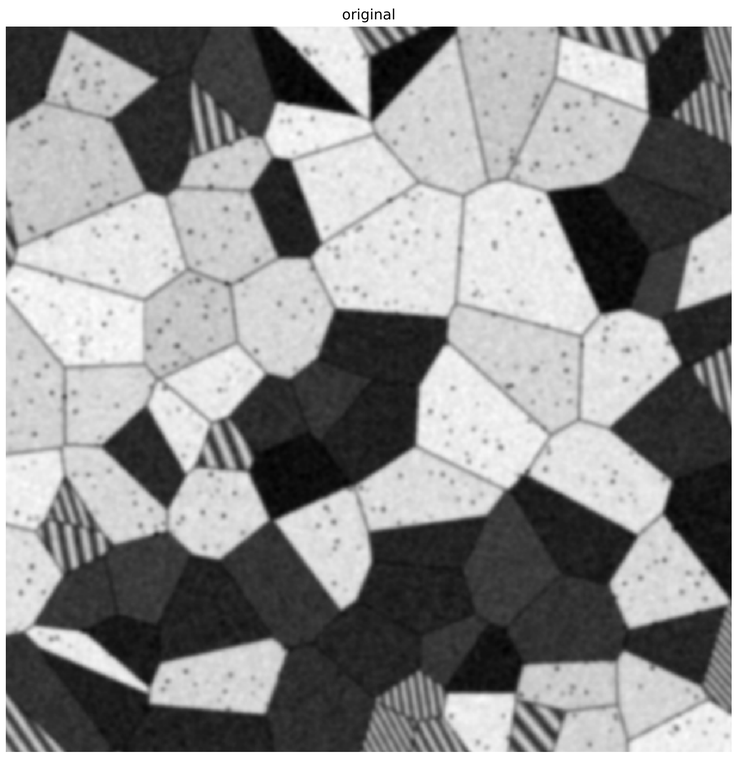
correct white phase



predicted white phase

data/base microstructure/image_24.png

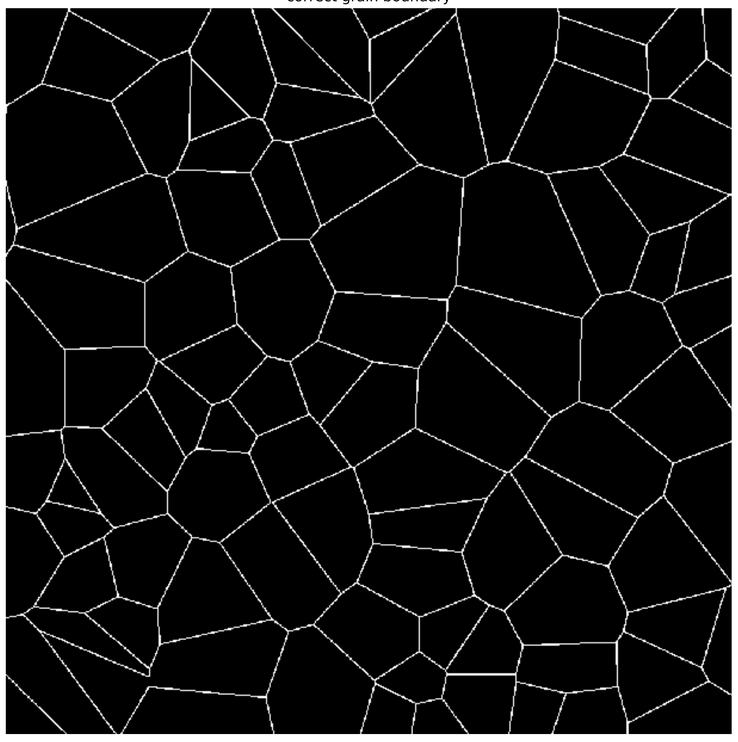
original



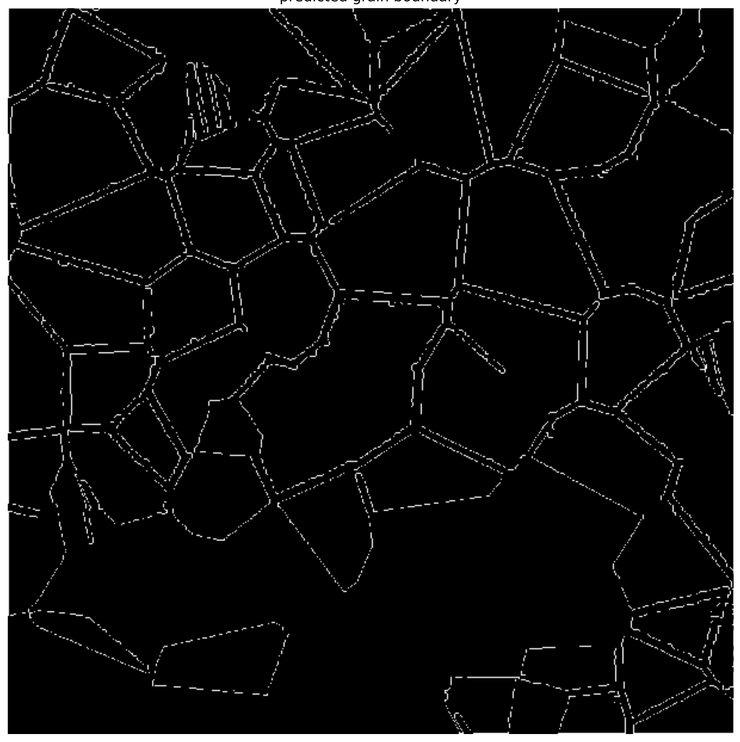
metrics

metric	correct	predicted	error
dark frac	0.395	0.385	0.928%
white frac	0.548	0.515	3.299%
line frac	0.057	0.037	2.009%
ave grain diameter	111.756	111.253	0.450%

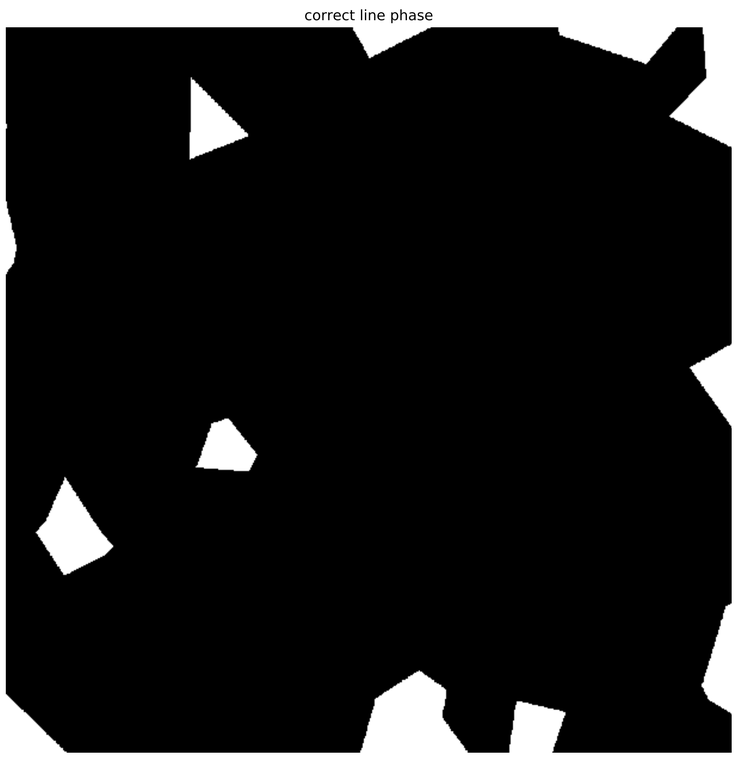
correct grain boundary



predicted grain boundary

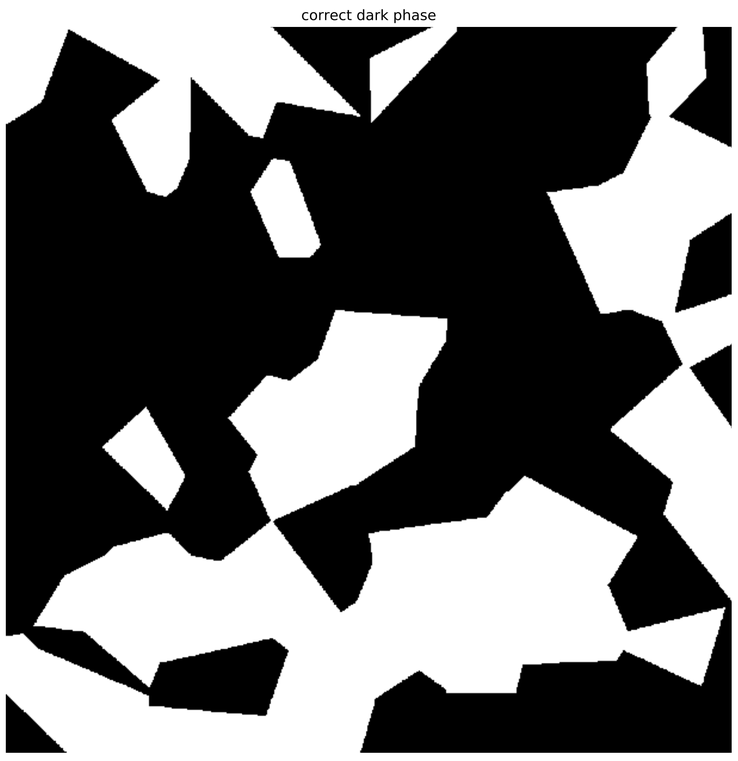


correct line phase



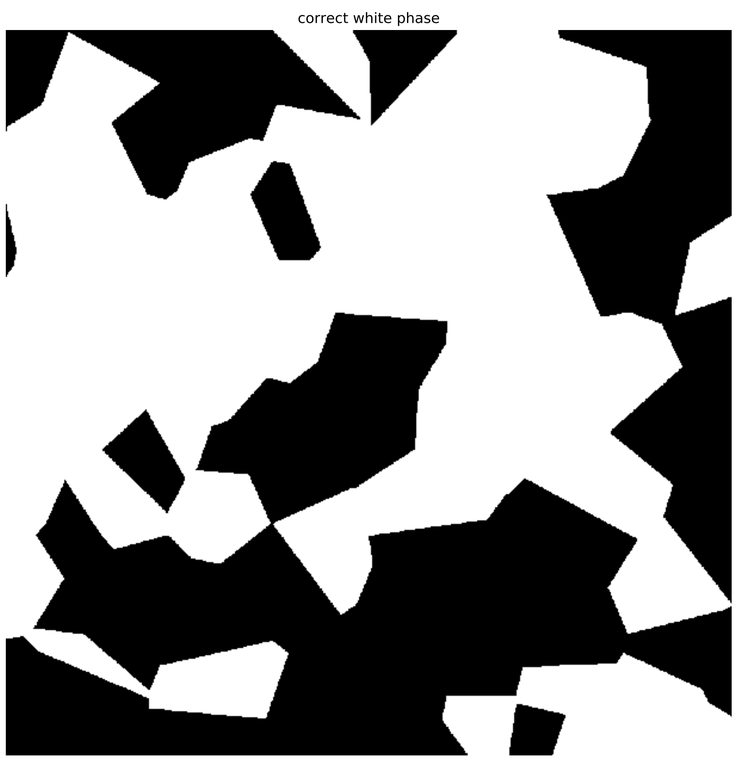
predicted line phase

correct dark phase



predicted dark phase

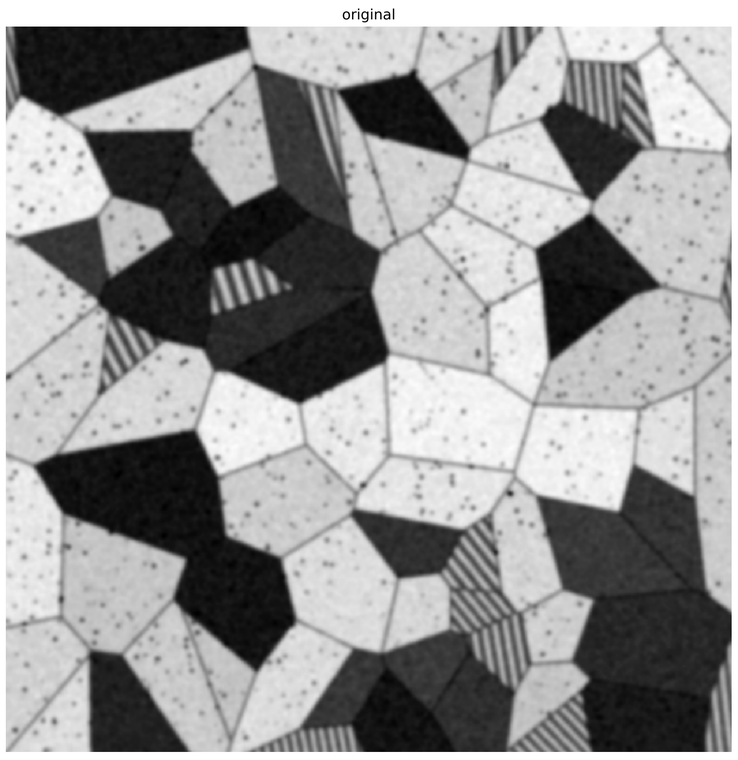
correct white phase



predicted white phase

data/base microstructure/image_25.png

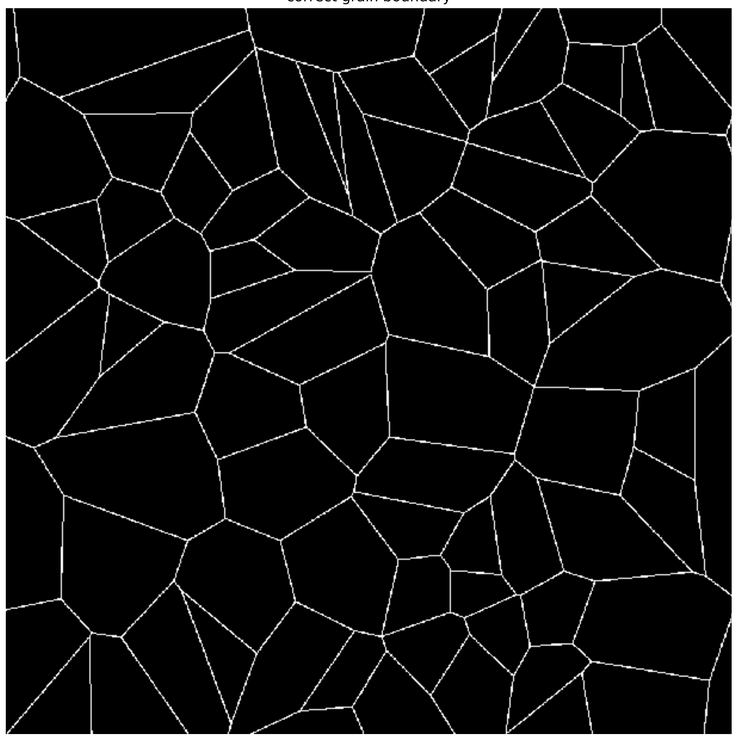
original



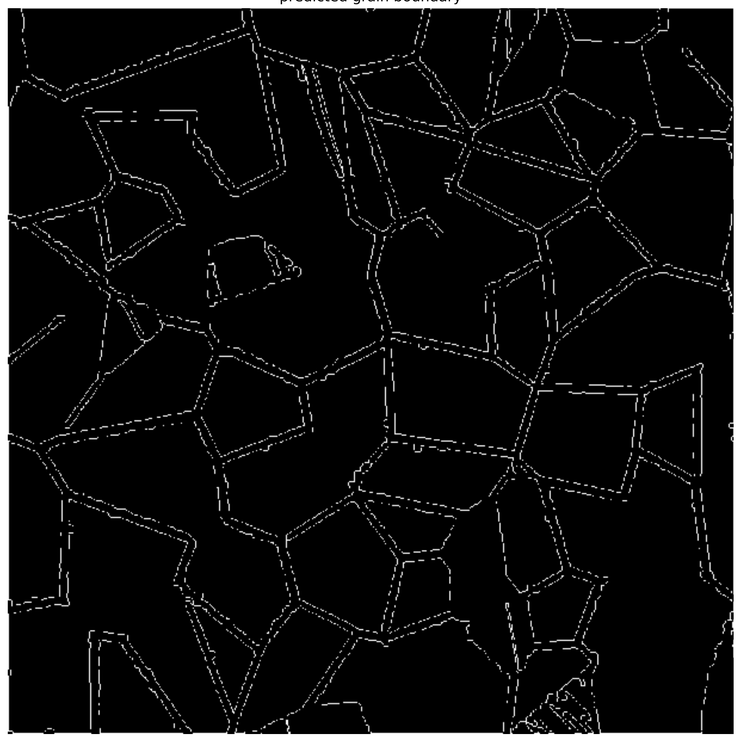
metrics

metric	correct	predicted	error
dark frac	0.338	0.331	0.738%
white frac	0.603	0.568	3.519%
line frac	0.058	0.038	2.095%
ave grain diameter	119.638	122.598	2.474%

correct grain boundary



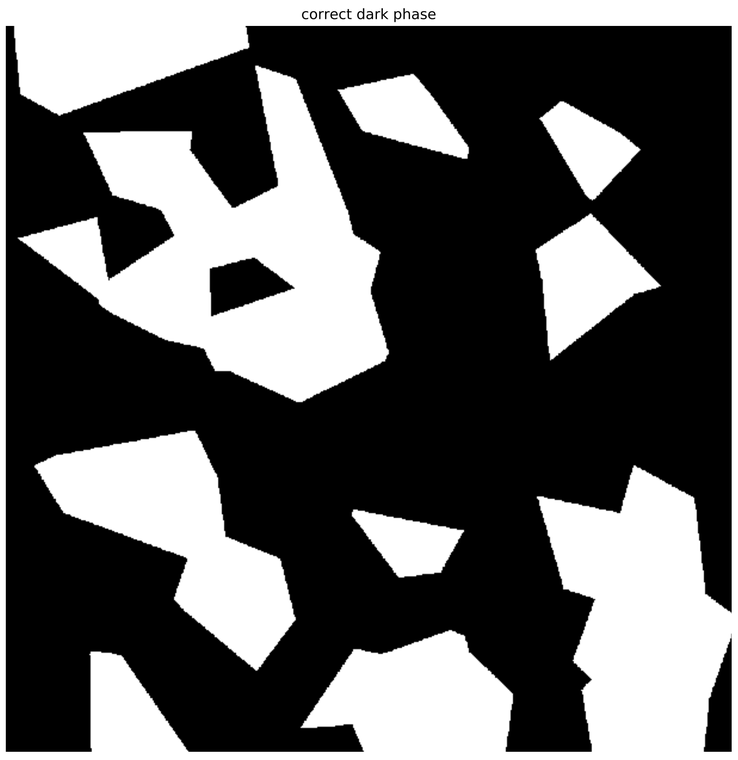
predicted grain boundary



correct line phase

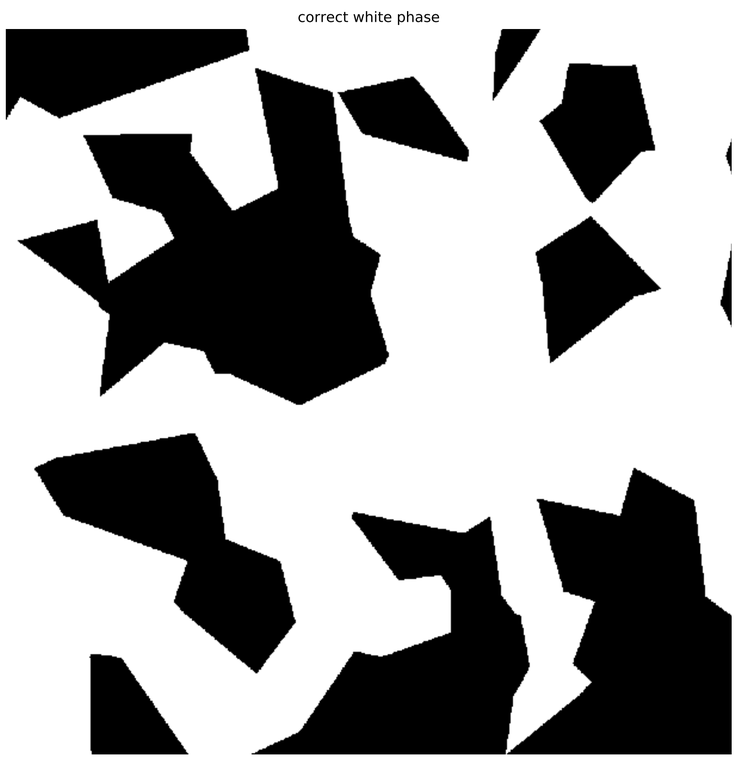
predicted line phase

correct dark phase



predicted dark phase

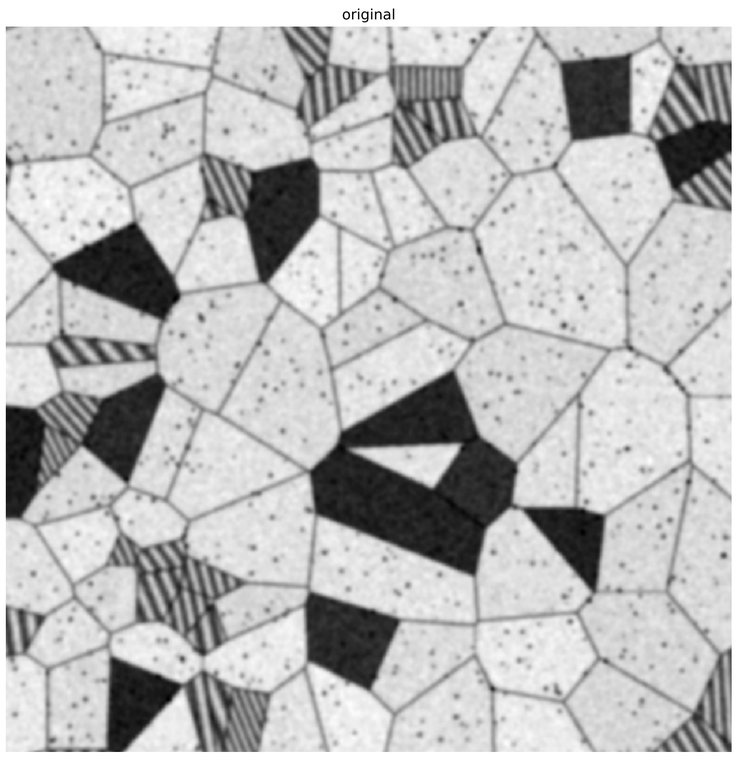
correct white phase



predicted white phase

data/base microstructure/image_26.png

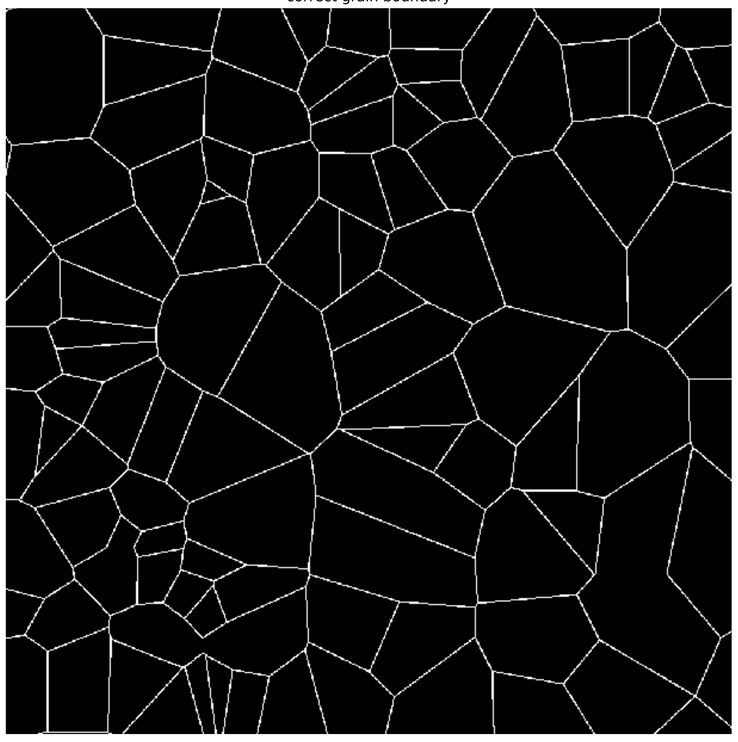
original



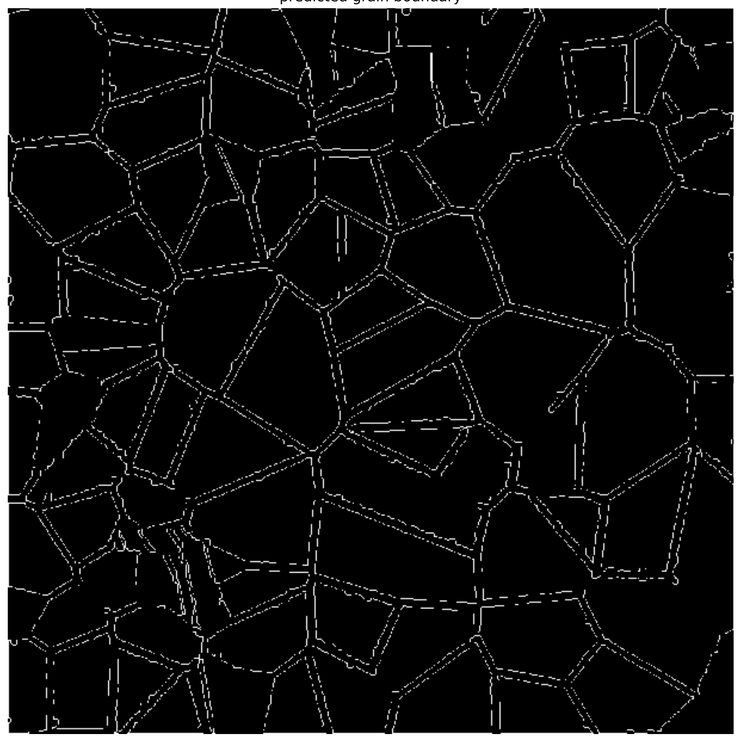
metrics

metric	correct	predicted	error
dark frac	0.119	0.116	0.315%
white frac	0.799	0.761	3.796%
line frac	0.082	0.066	1.568%
ave grain diameter	103.810	93.625	9.812%

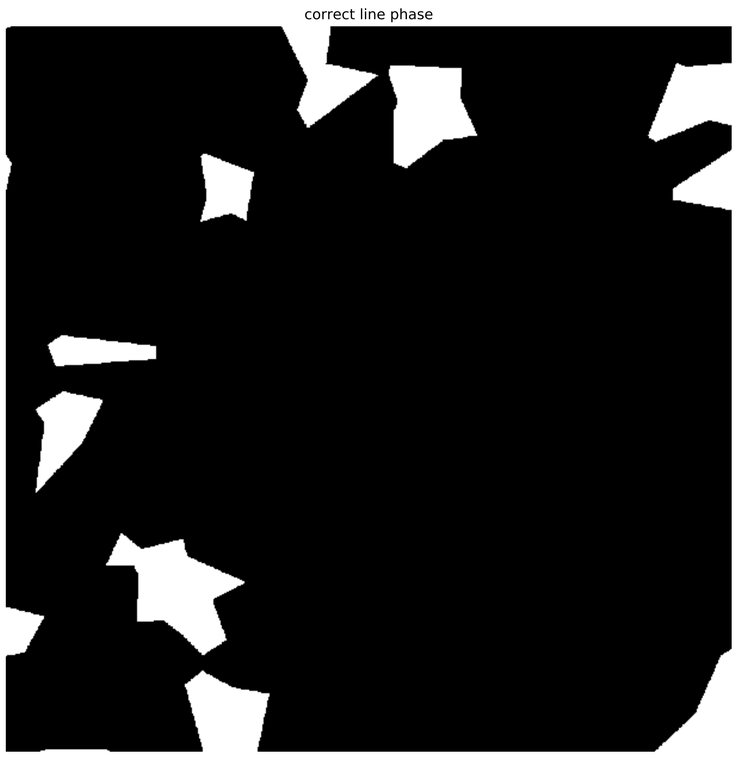
correct grain boundary



predicted grain boundary



correct line phase

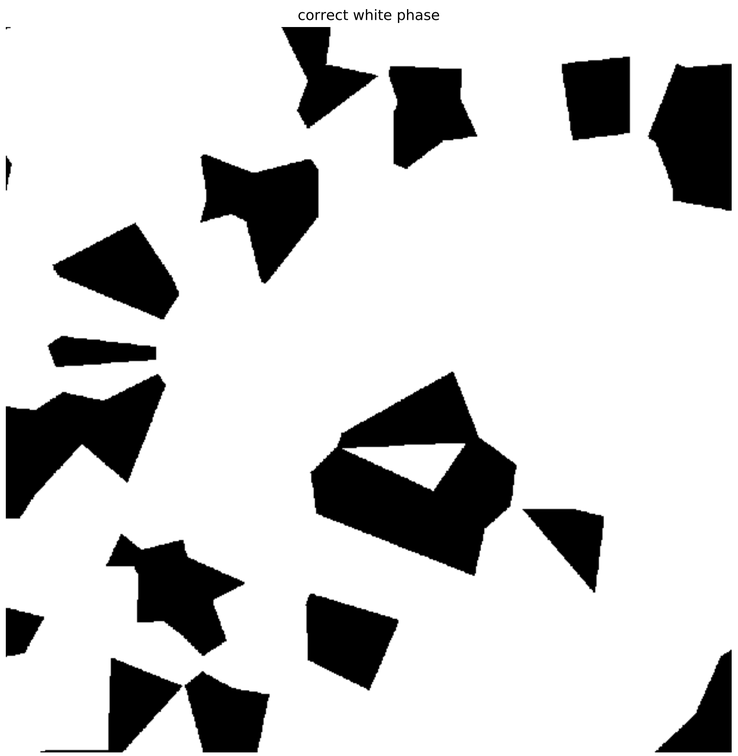


predicted line phase

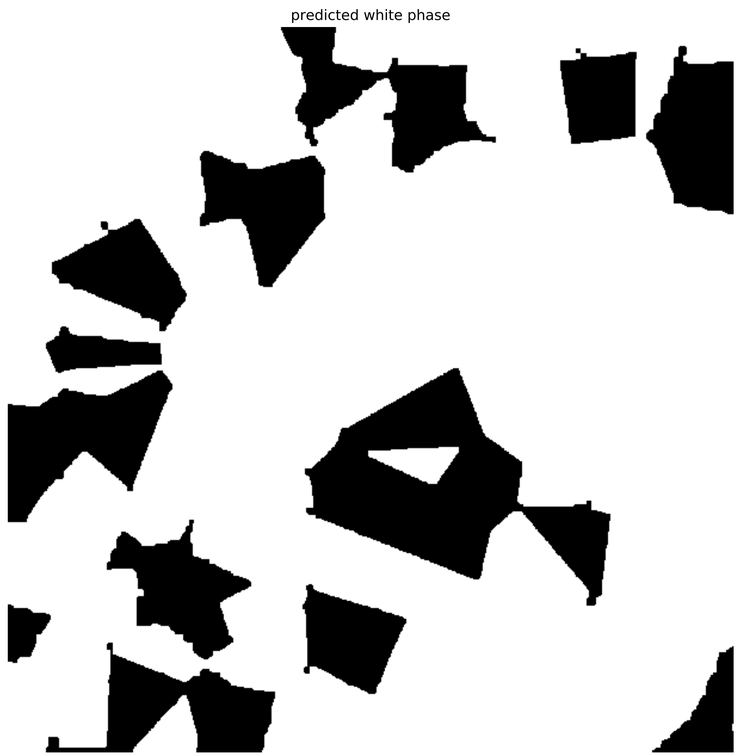
correct dark phase

predicted dark phase

correct white phase

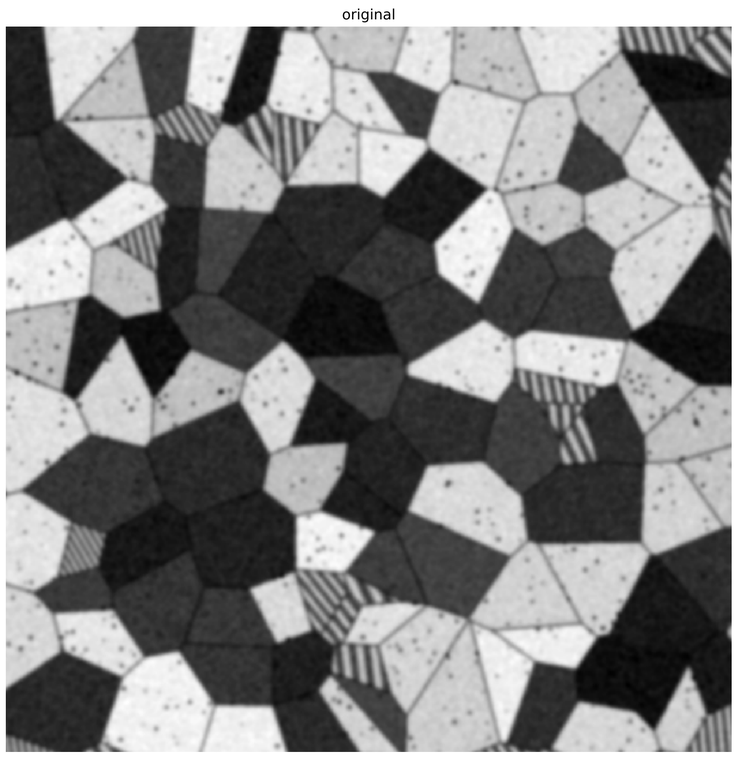


predicted white phase



data/base microstructure/image_27.png

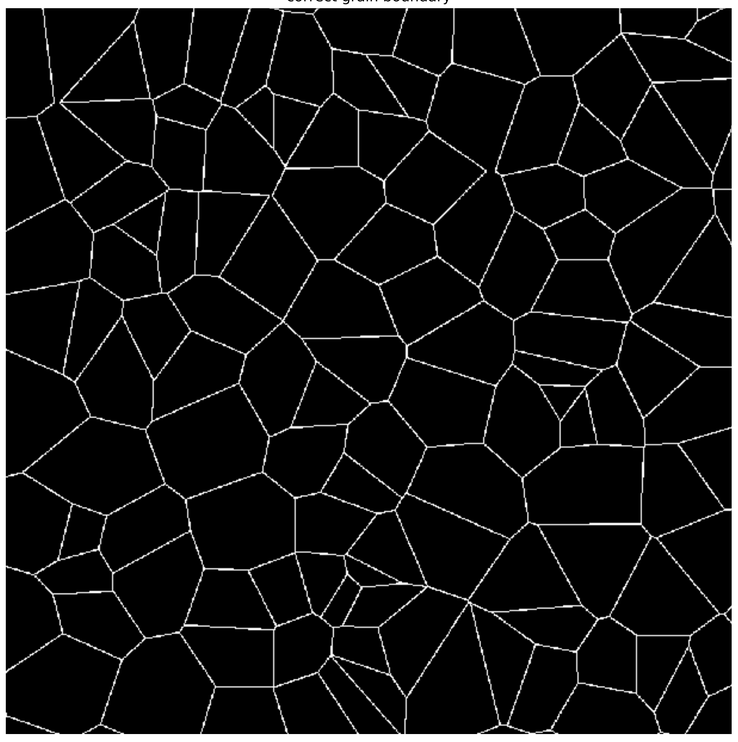
original



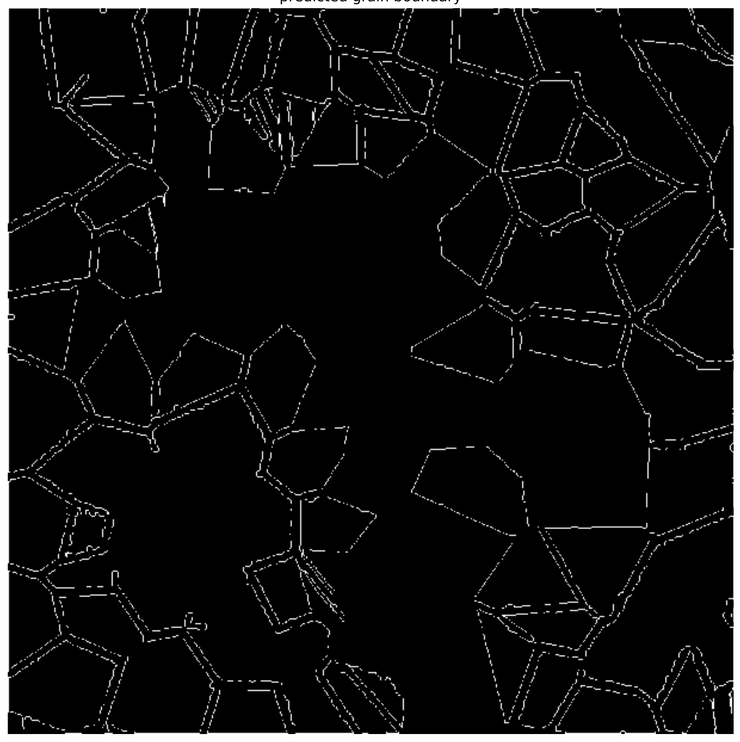
metrics

metric	correct	predicted	error
dark frac	0.475	0.462	1.329%
white frac	0.474	0.427	4.739%
line frac	0.050	0.032	1.875%
ave grain diameter	97.289	91.968	5.469%

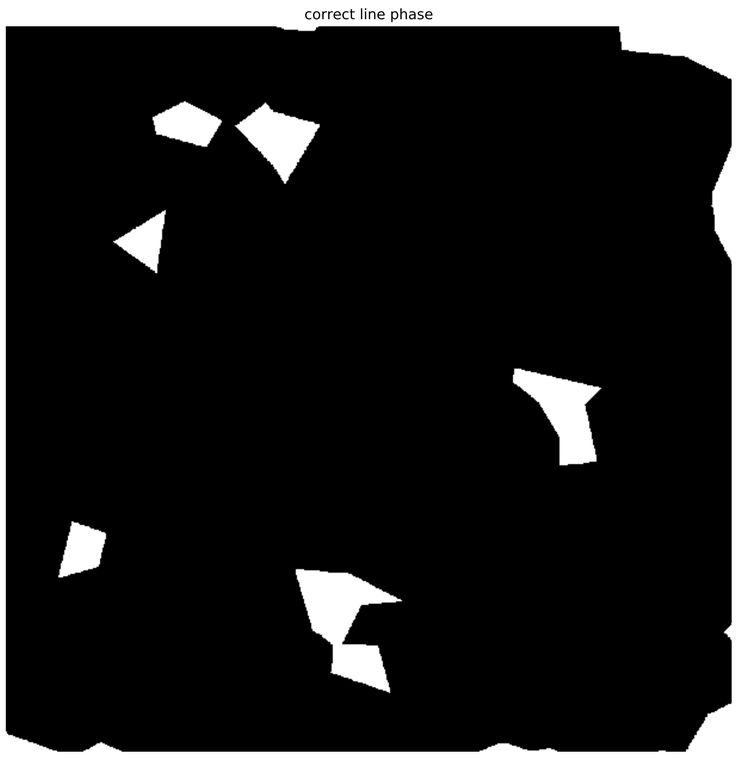
correct grain boundary



predicted grain boundary

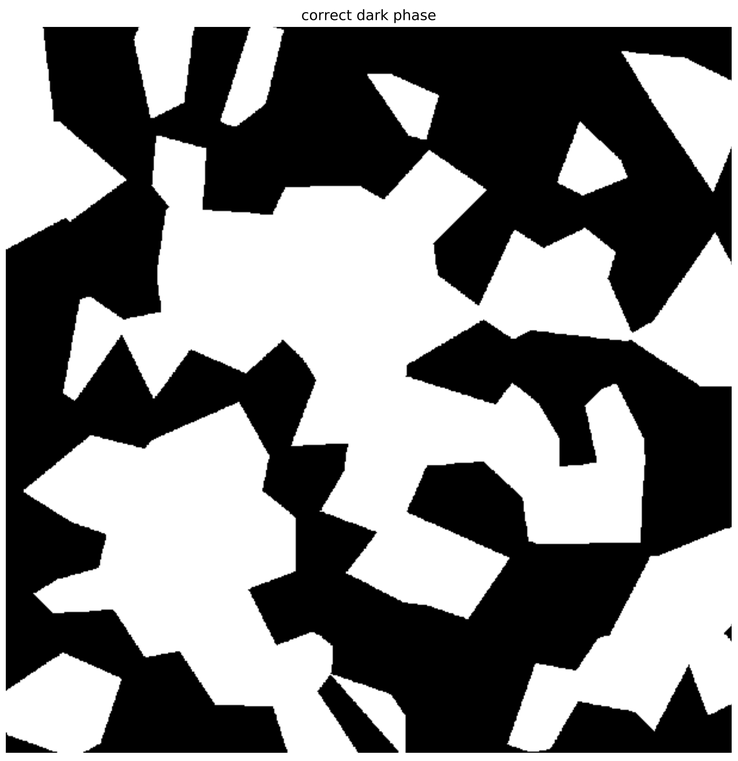


correct line phase

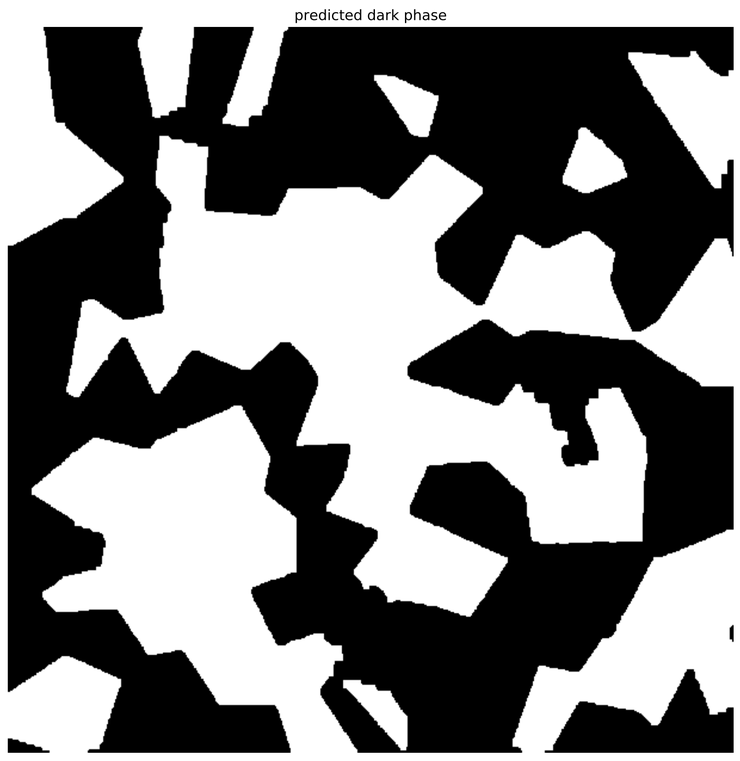


predicted line phase

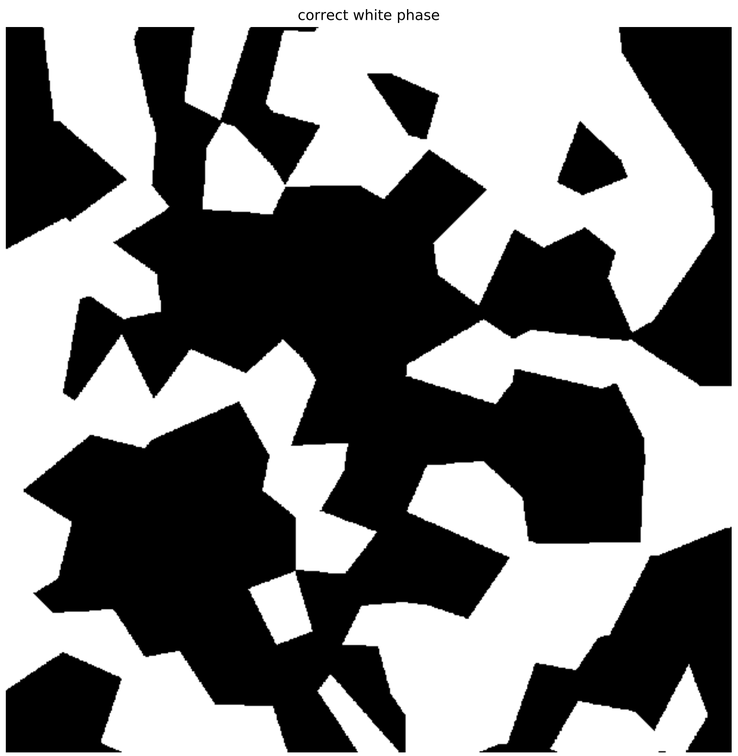
correct dark phase



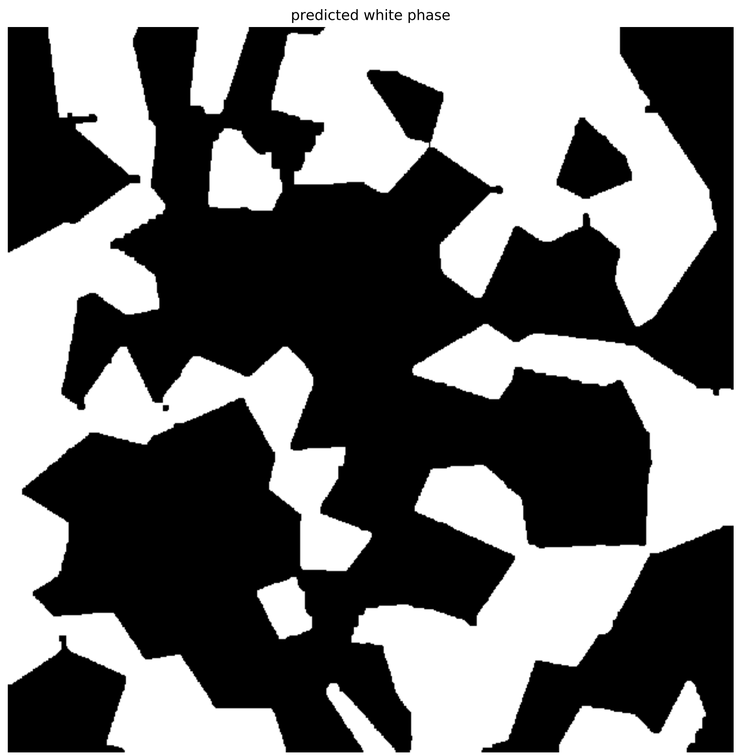
predicted dark phase



correct white phase

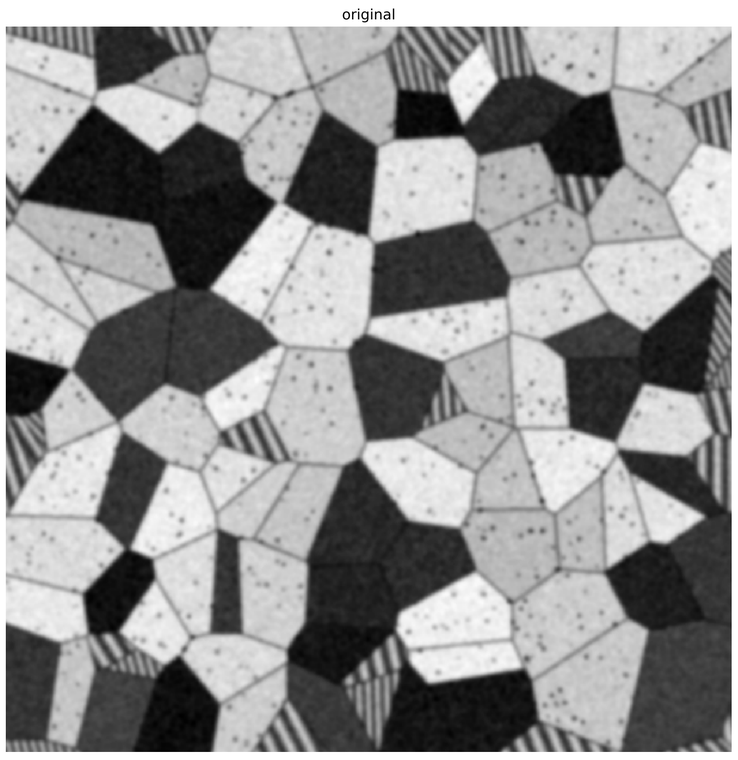


predicted white phase



data/base microstructure/image_28.png

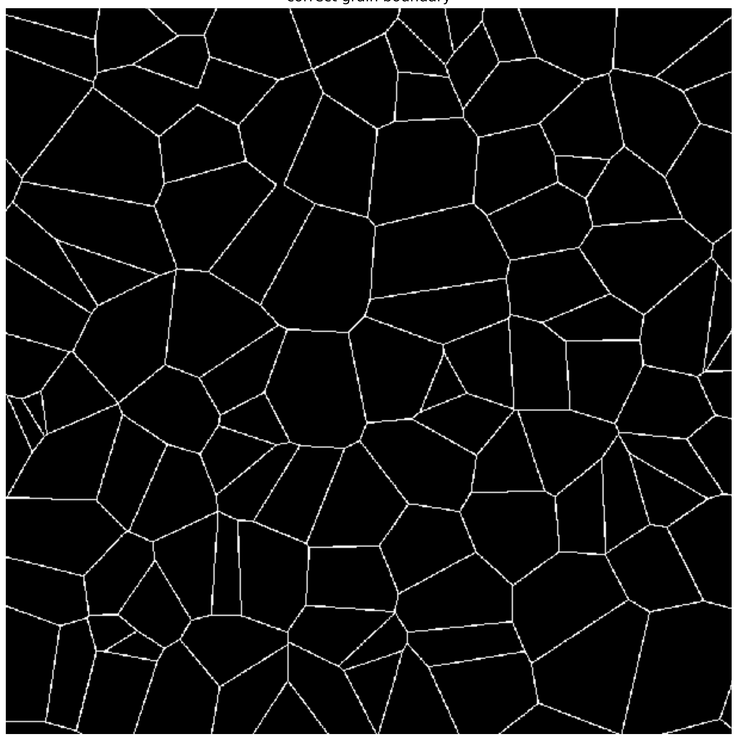
original



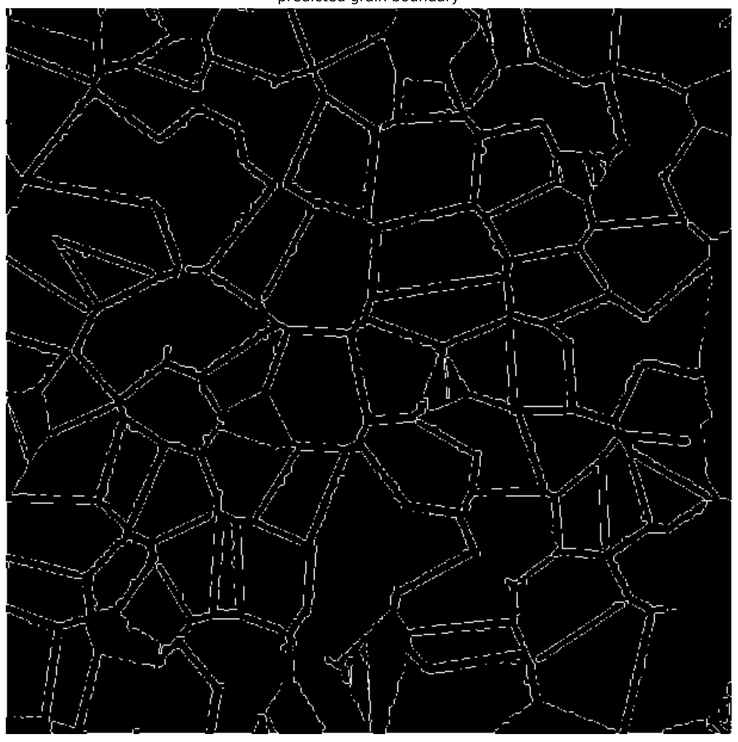
metrics

metric	correct	predicted	error
dark frac	0.345	0.335	1.074%
white frac	0.583	0.542	4.173%
line frac	0.071	0.046	2.564%
ave grain diameter	99.921	96.130	3.794%

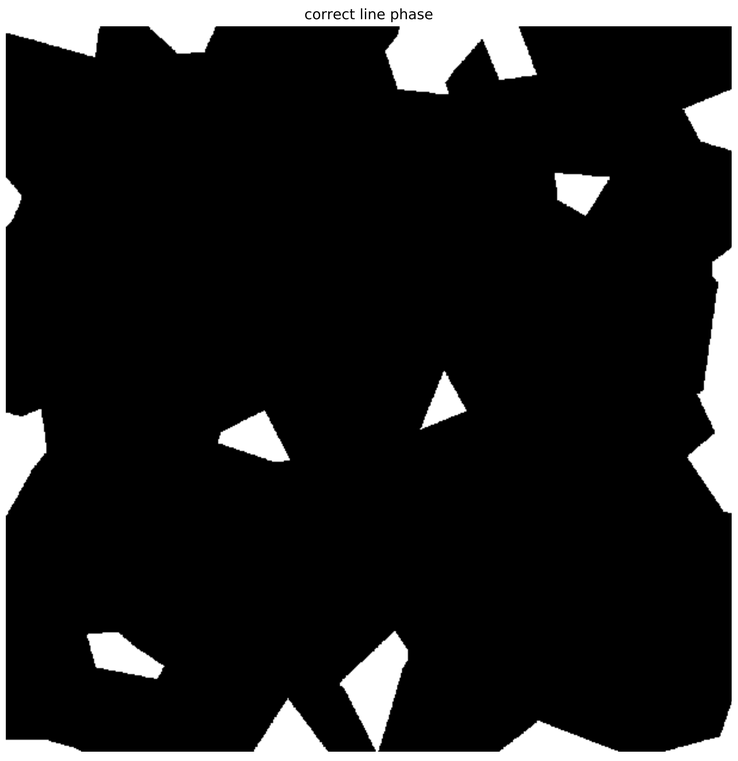
correct grain boundary



predicted grain boundary



correct line phase

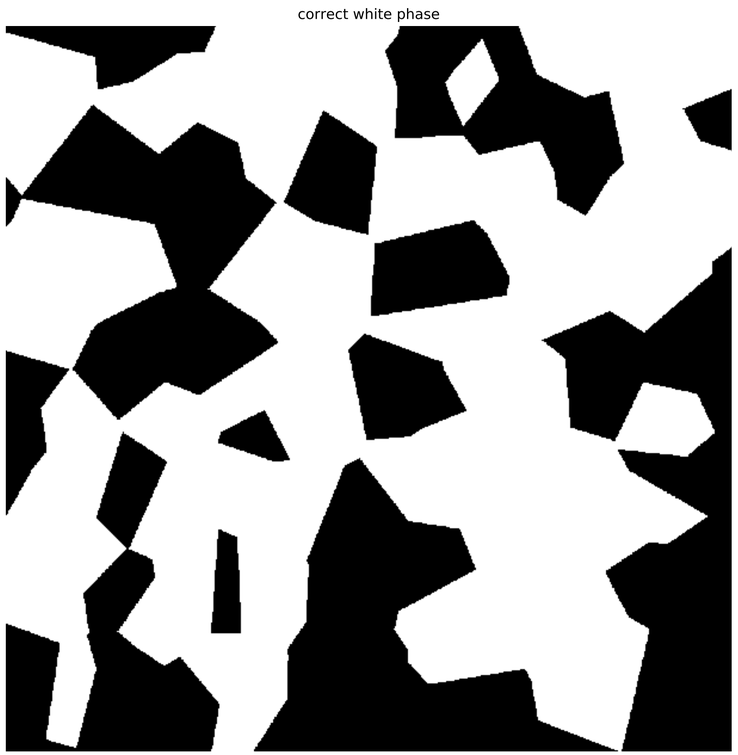


predicted line phase

correct dark phase

predicted dark phase

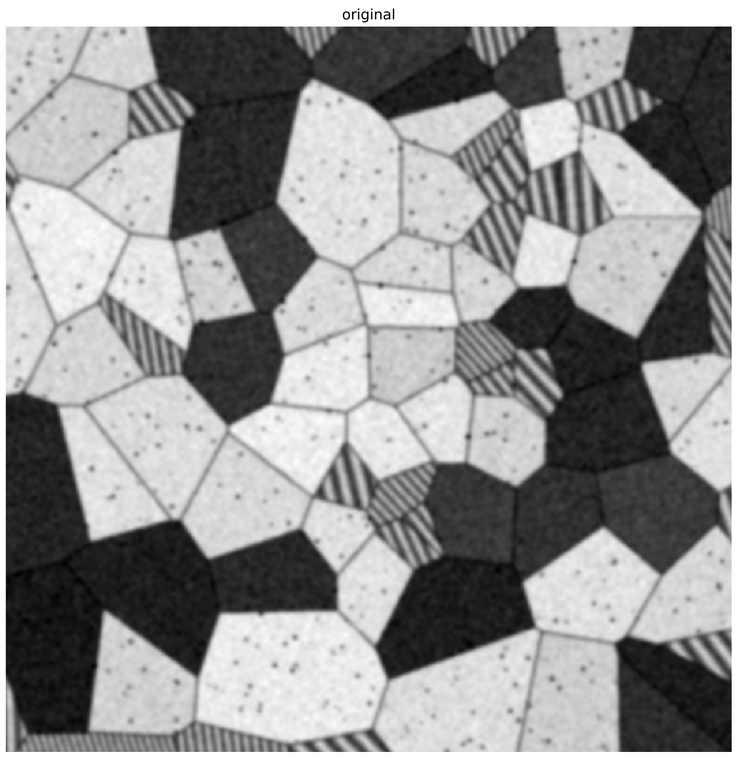
correct white phase



predicted white phase

data/base microstructure/image_29.png

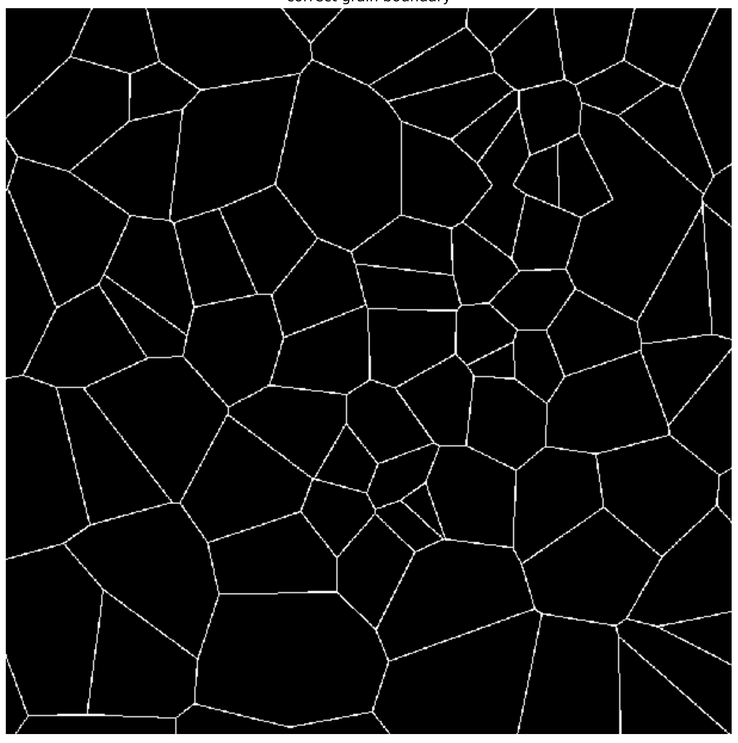
original



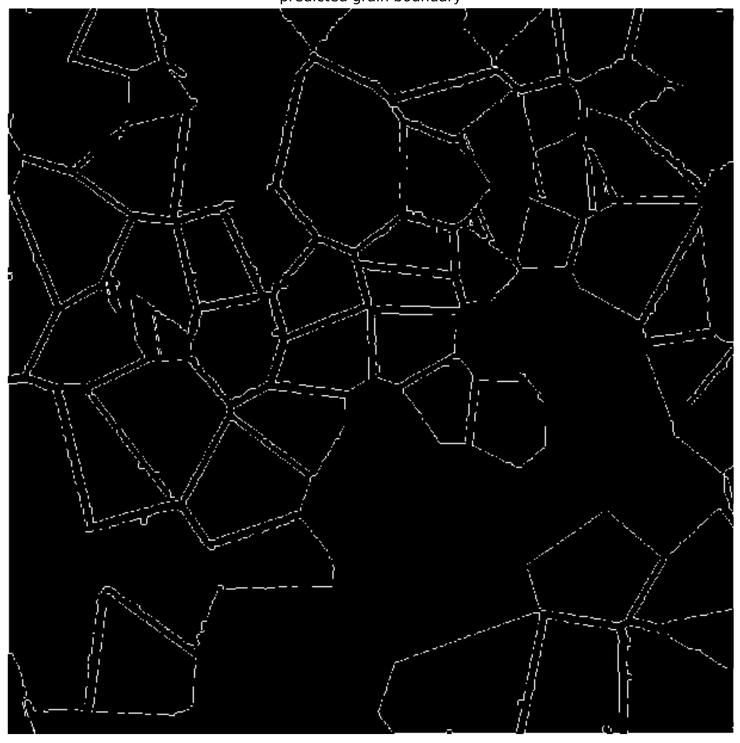
metrics

metric	correct	predicted	error
dark frac	0.354	0.351	0.322%
white frac	0.549	0.515	3.351%
line frac	0.098	0.068	2.921%
ave grain diameter	112.829	109.758	2.722%

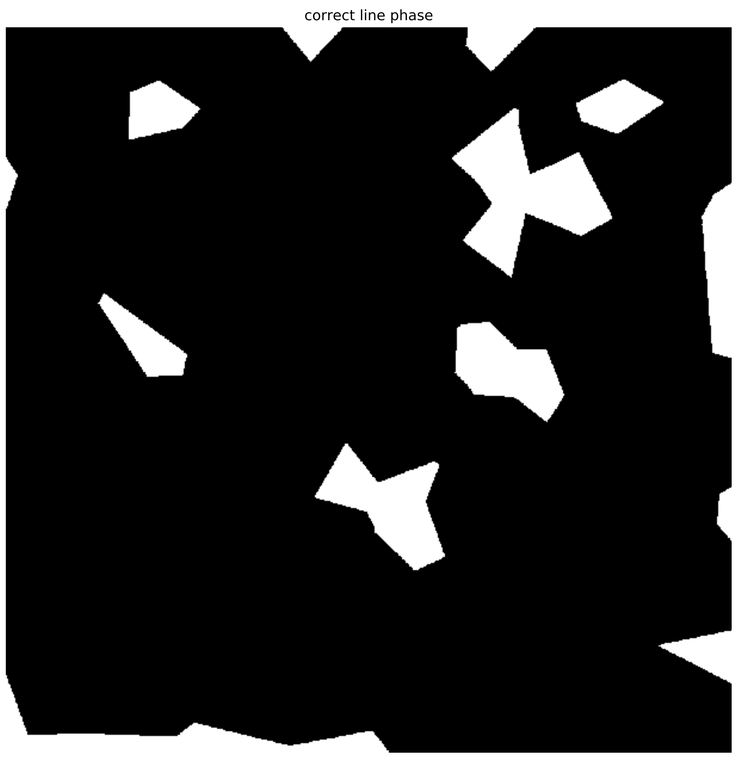
correct grain boundary



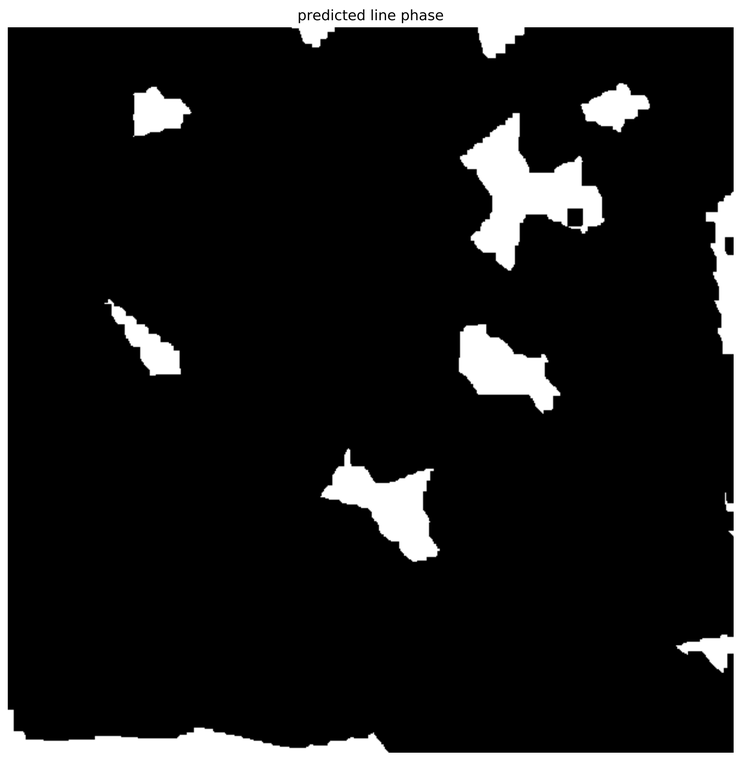
predicted grain boundary



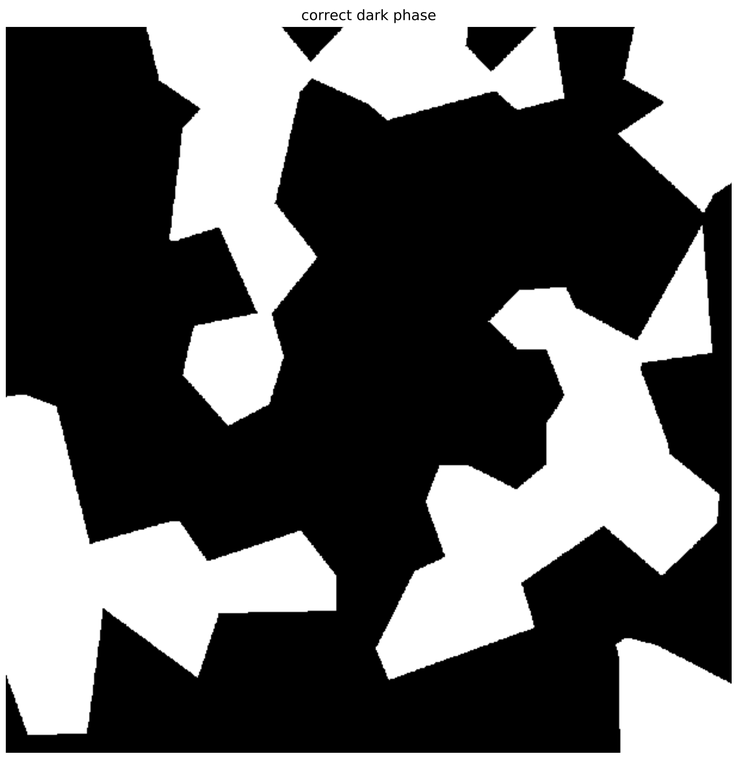
correct line phase



predicted line phase

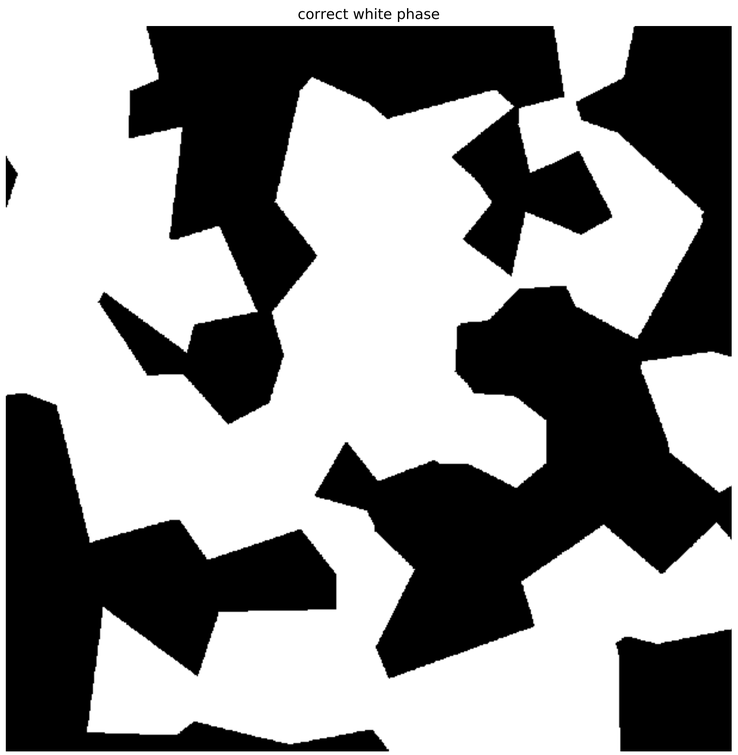


correct dark phase



predicted dark phase

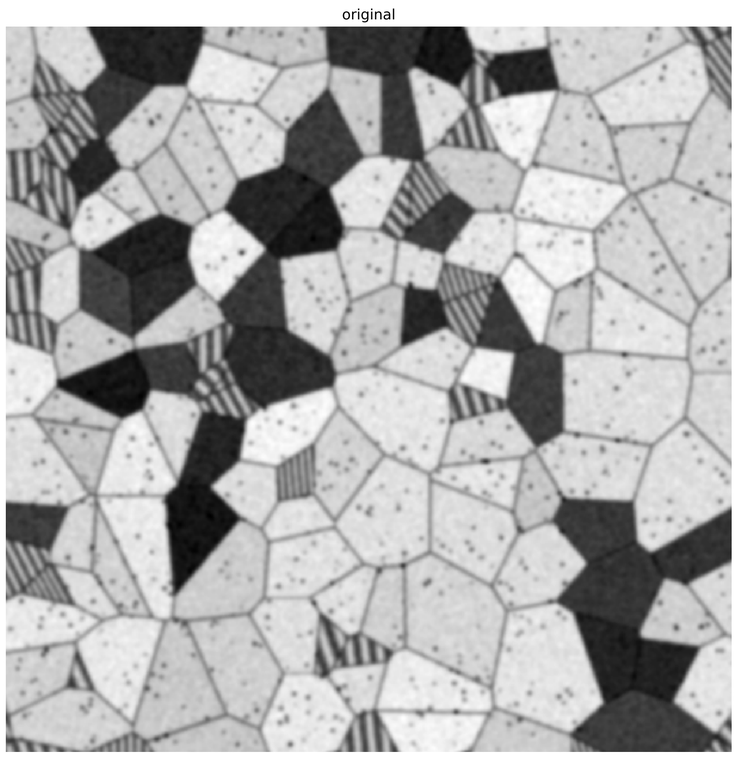
correct white phase



predicted white phase

data/base microstructure/image_3.png

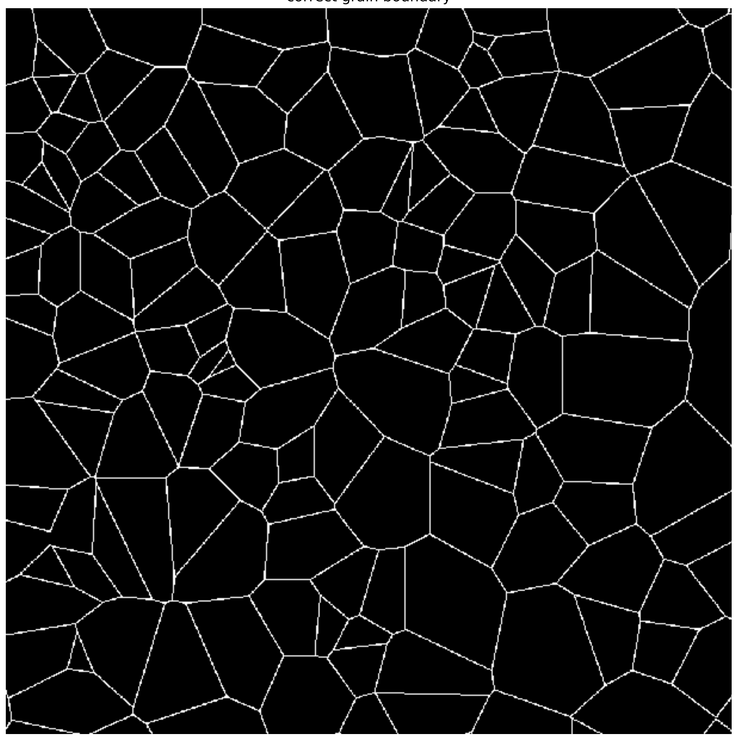
original



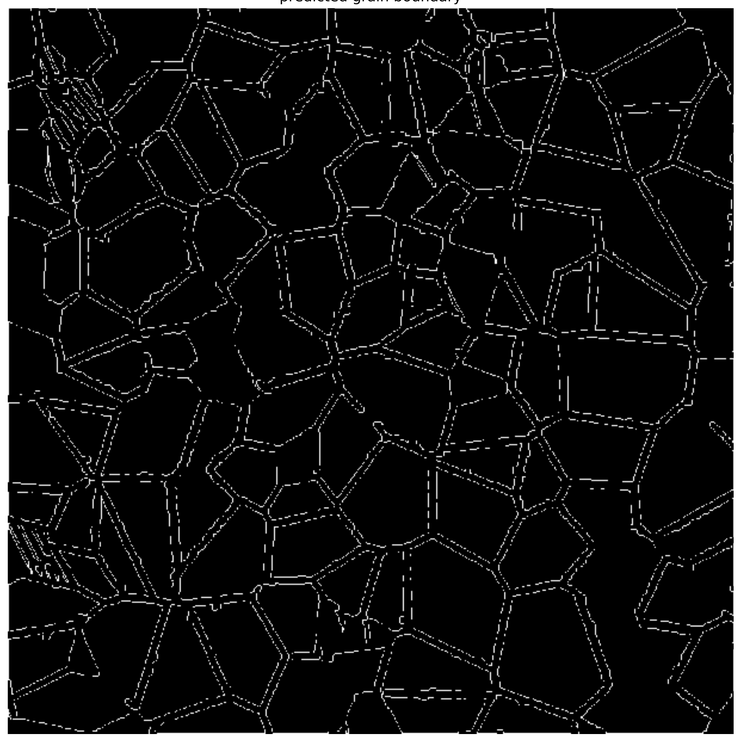
metrics

metric	correct	predicted	error
dark frac	0.198	0.192	0.598%
white frac	0.727	0.686	4.148%
line frac	0.074	0.050	2.387%
ave grain diameter	87.647	81.252	7.297%

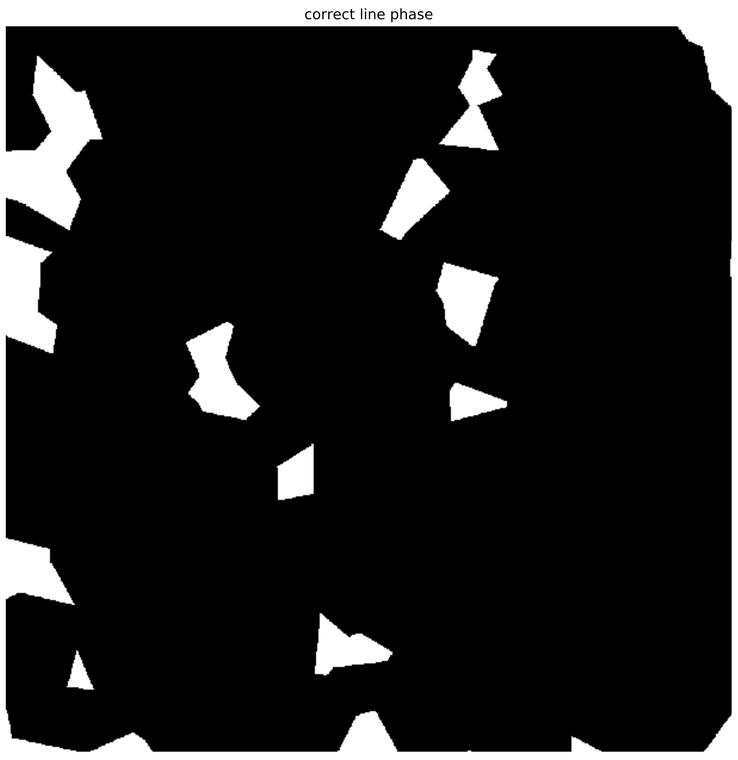
correct grain boundary



predicted grain boundary

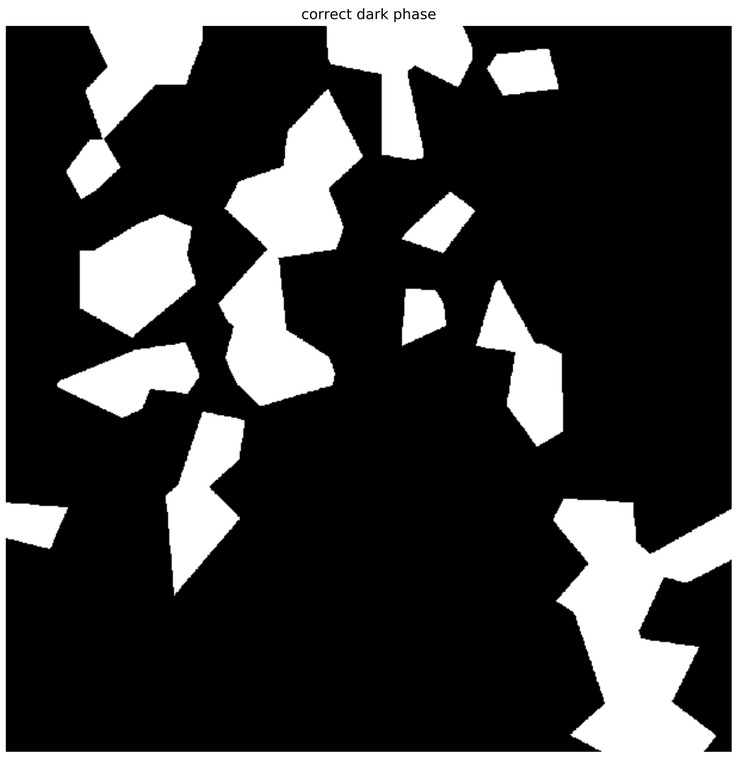


correct line phase

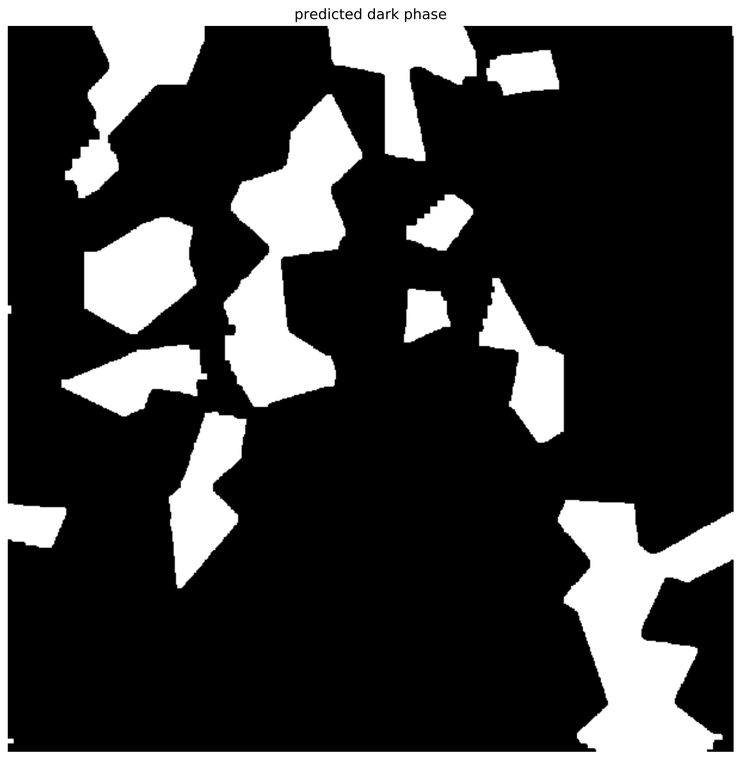


predicted line phase

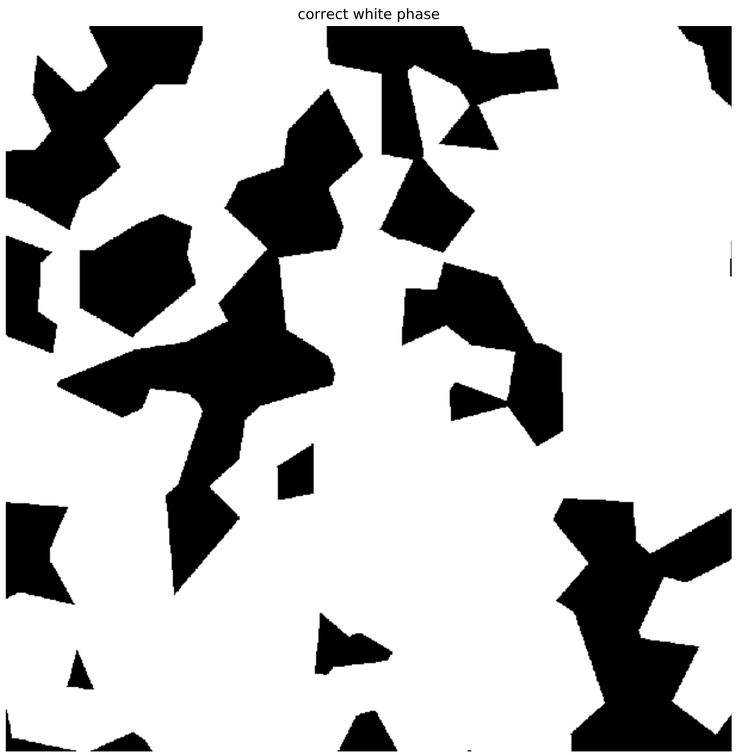
correct dark phase



predicted dark phase



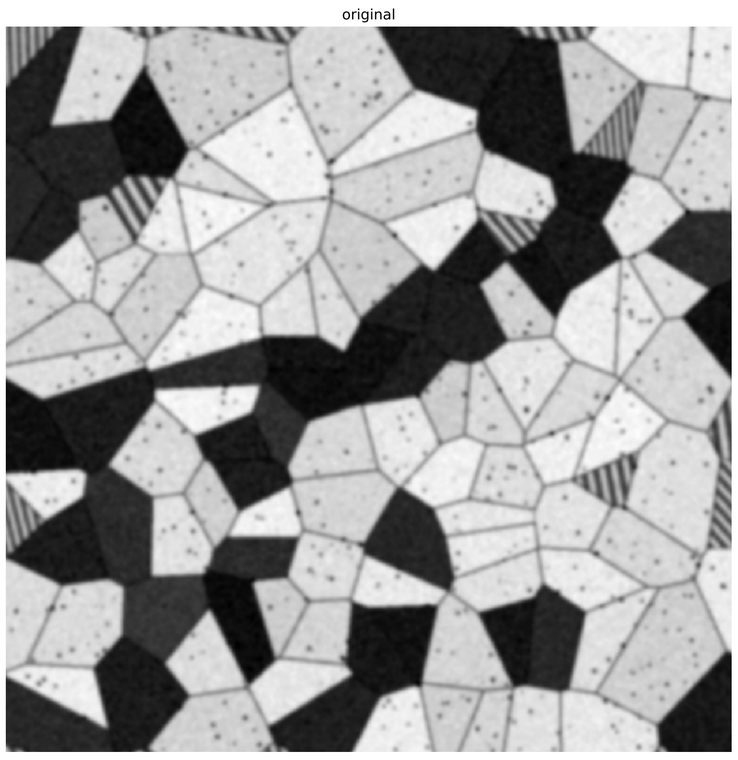
correct white phase



predicted white phase

data/base microstructure/image_30.png

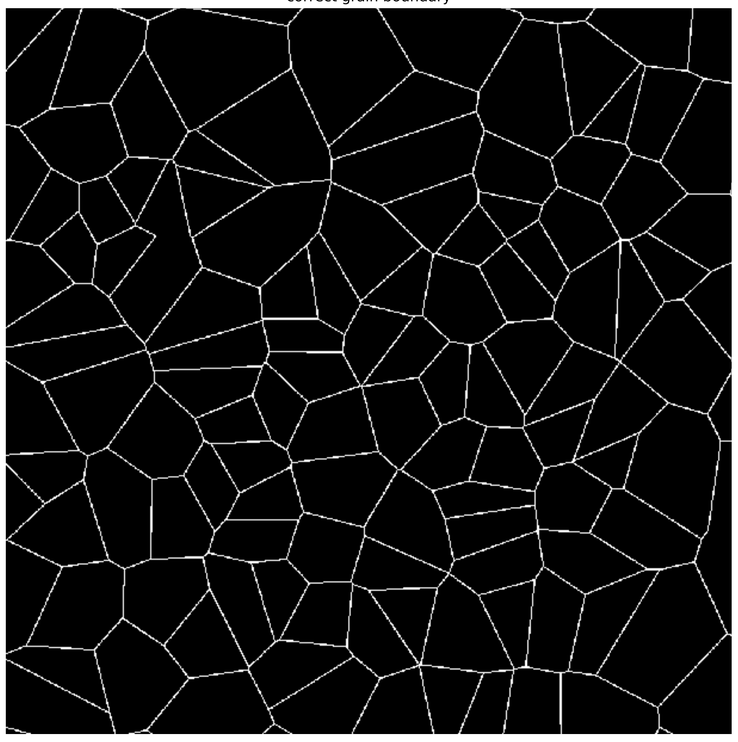
original



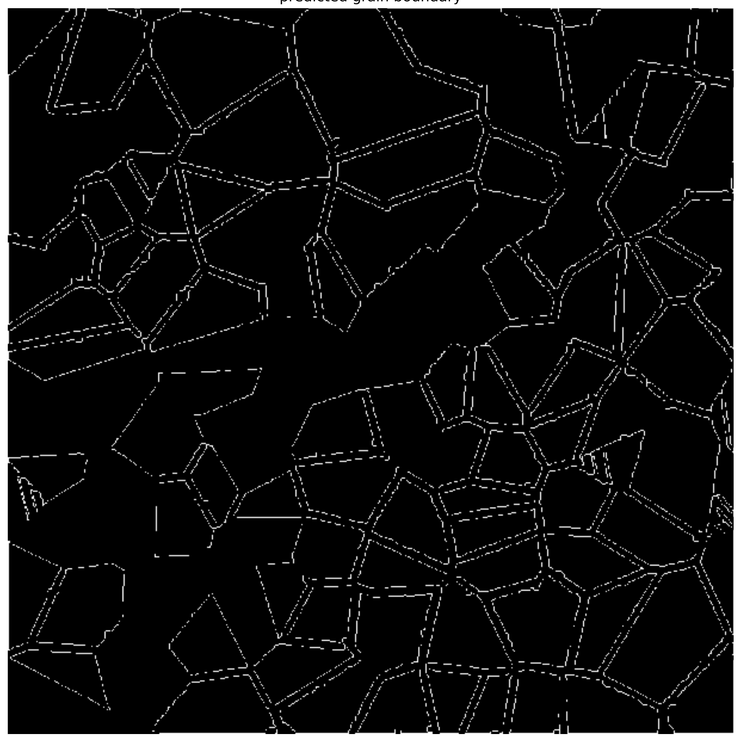
metrics

metric	correct	predicted	error
dark frac	0.311	0.298	1.255%
white frac	0.658	0.619	3.867%
line frac	0.032	0.020	1.194%
ave grain diameter	96.928	88.004	9.207%

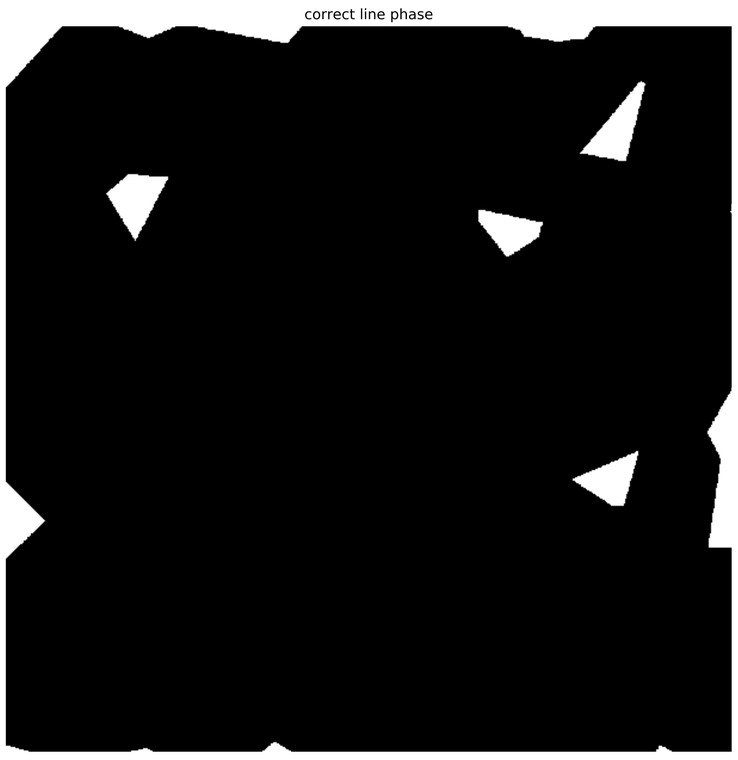
correct grain boundary



predicted grain boundary



correct line phase



predicted line phase

correct dark phase

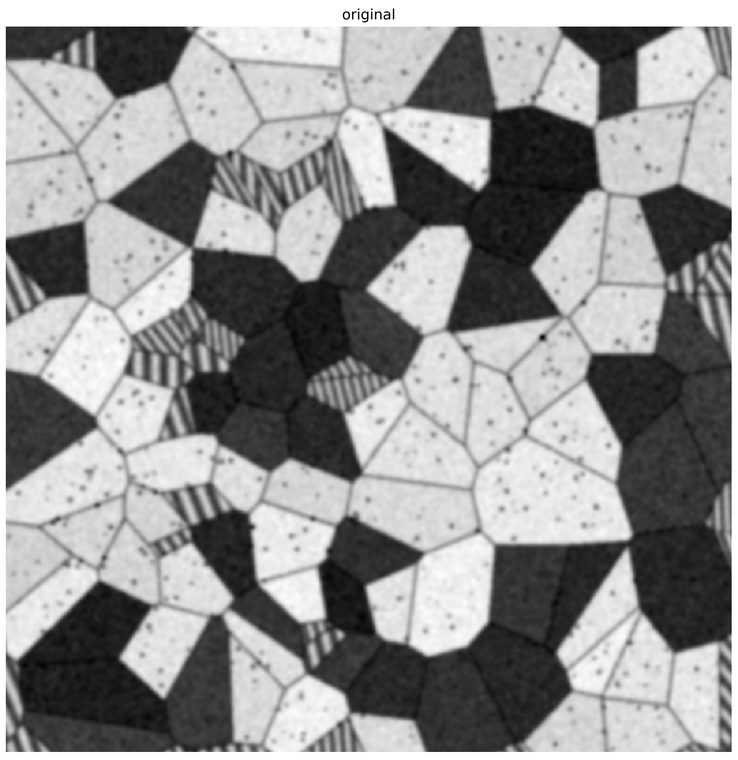
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_31.png

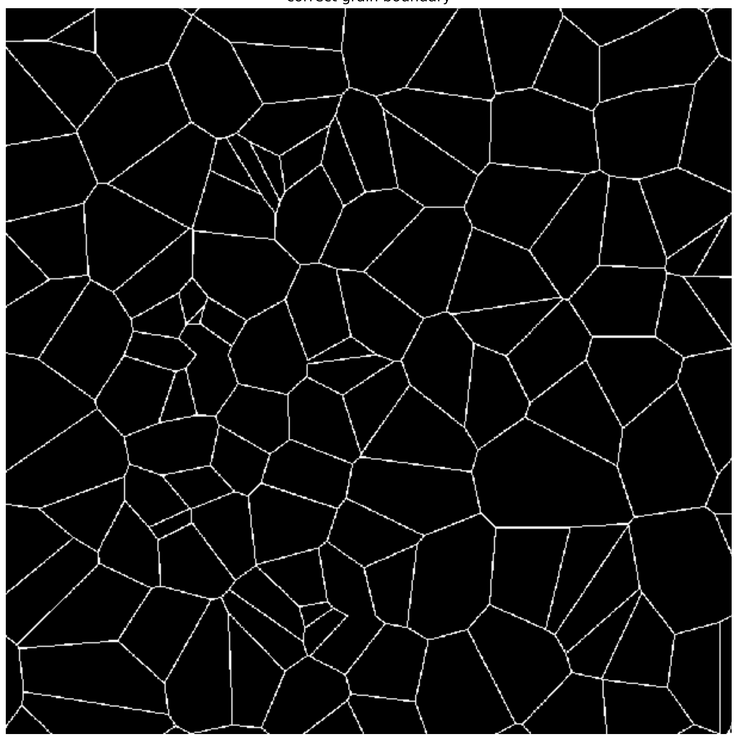
original



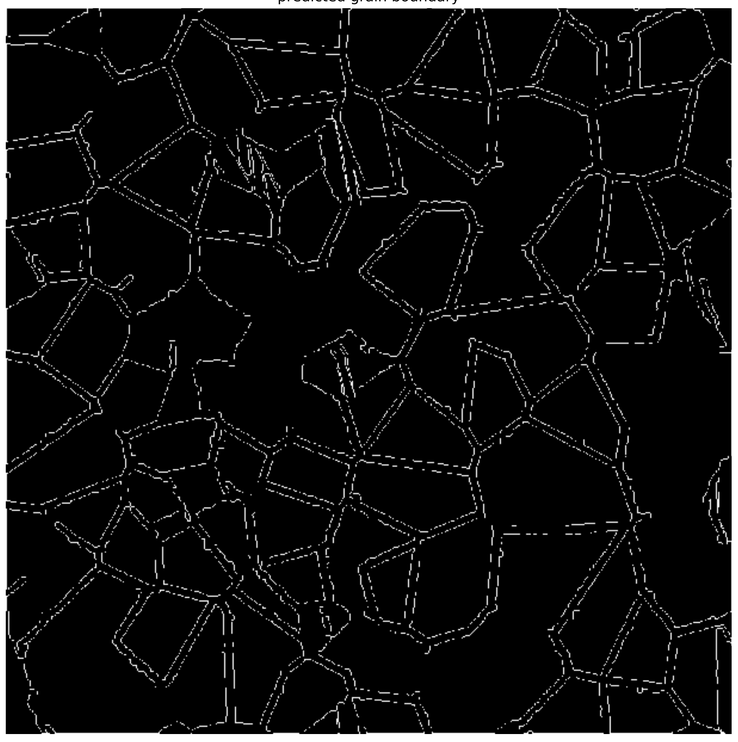
metrics

metric	correct	predicted	error
dark frac	0.378	0.370	0.749%
white frac	0.554	0.512	4.291%
line frac	0.068	0.039	2.861%
ave grain diameter	95.029	101.460	6.767%

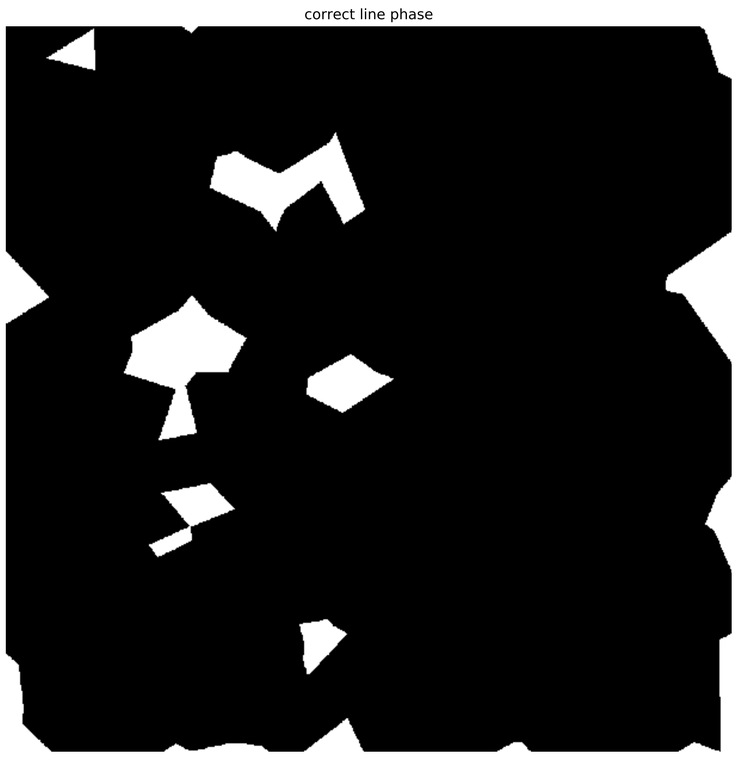
correct grain boundary



predicted grain boundary



correct line phase

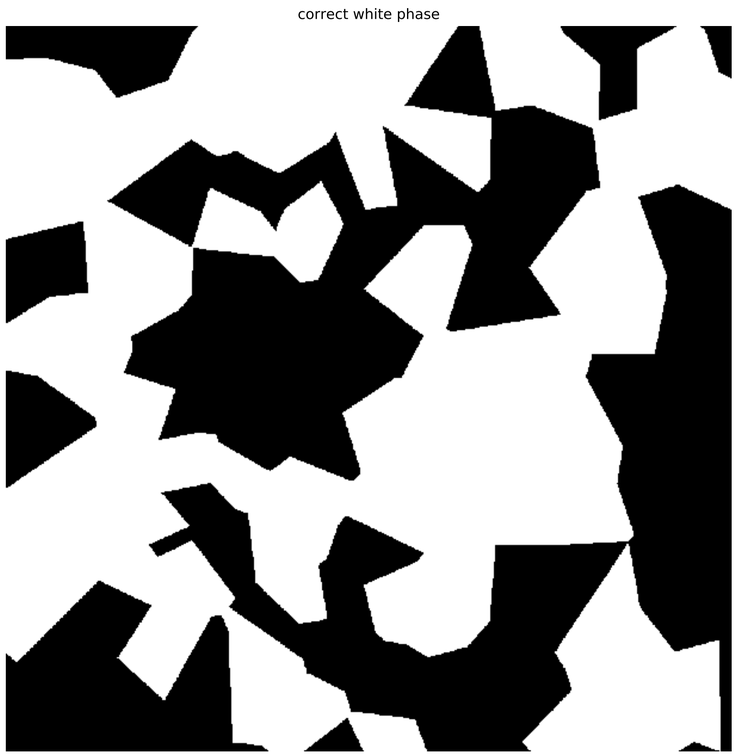


predicted line phase

correct dark phase

predicted dark phase

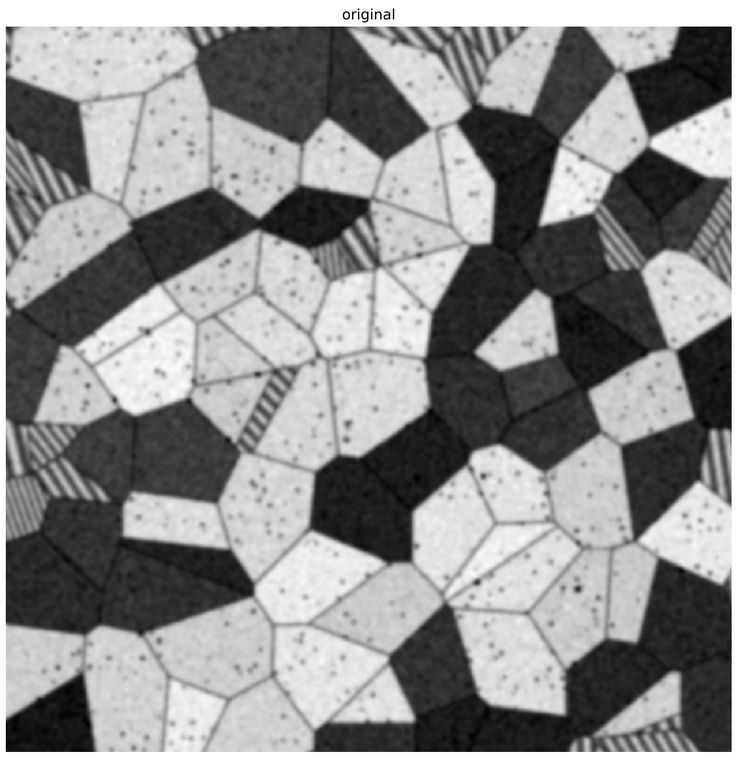
correct white phase



predicted white phase

data/base microstructure/image_32.png

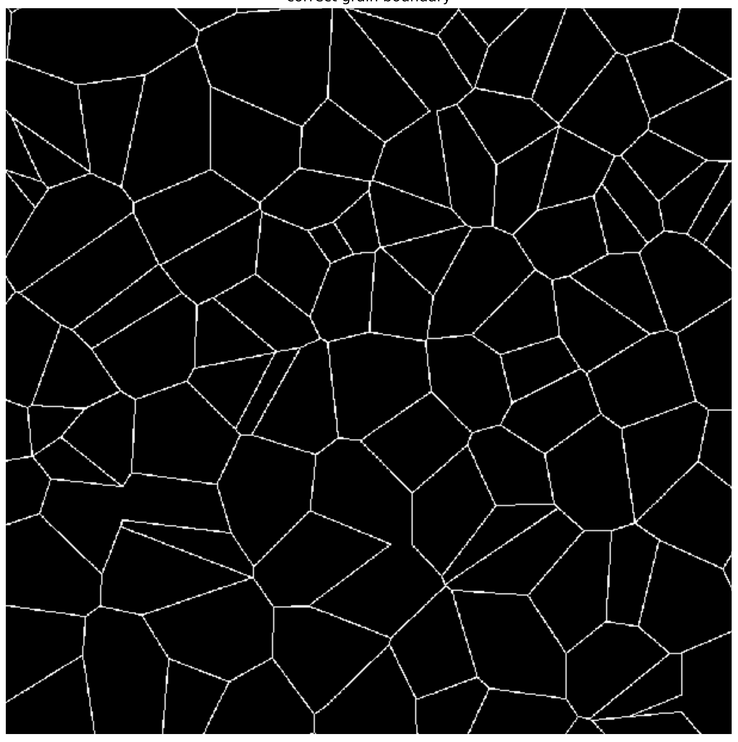
original



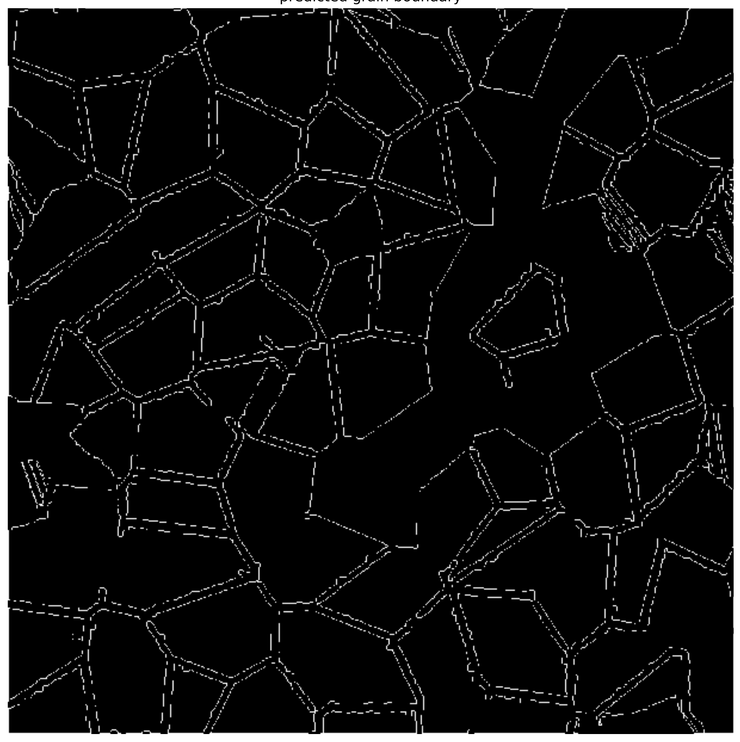
metrics

metric	correct	predicted	error
dark frac	0.393	0.383	0.992%
white frac	0.546	0.499	4.698%
line frac	0.061	0.040	2.099%
ave grain diameter	102.080	101.271	0.793%

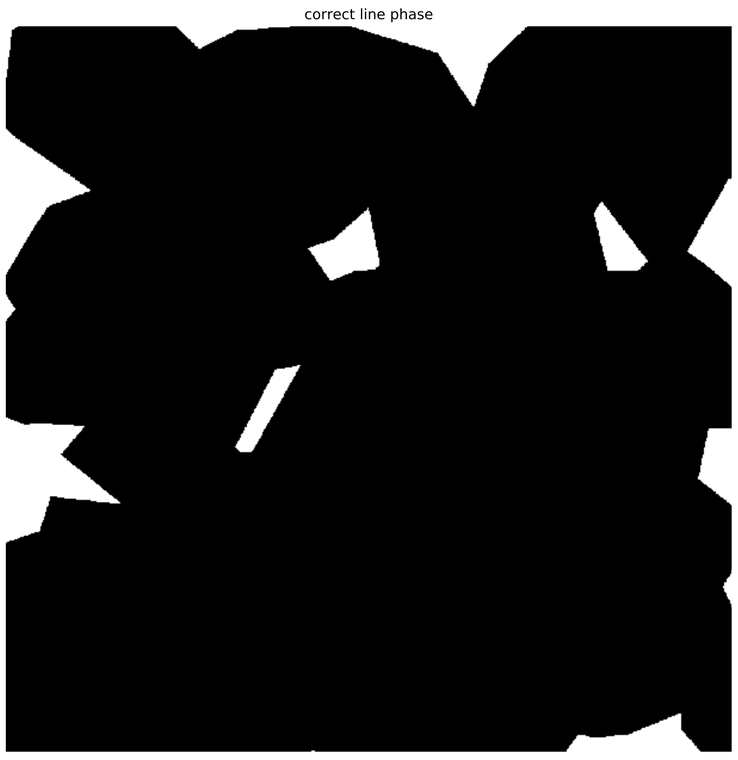
correct grain boundary



predicted grain boundary

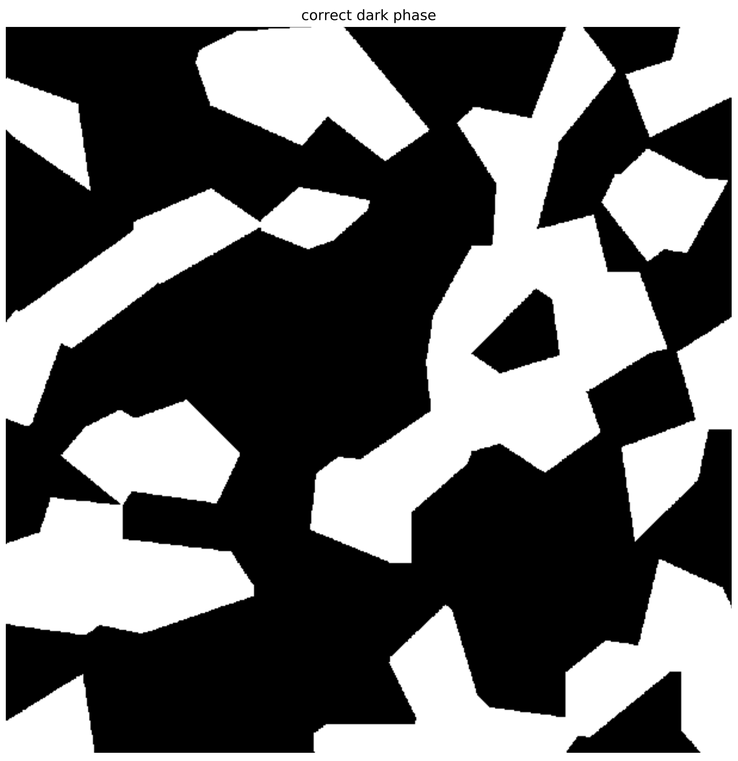


correct line phase



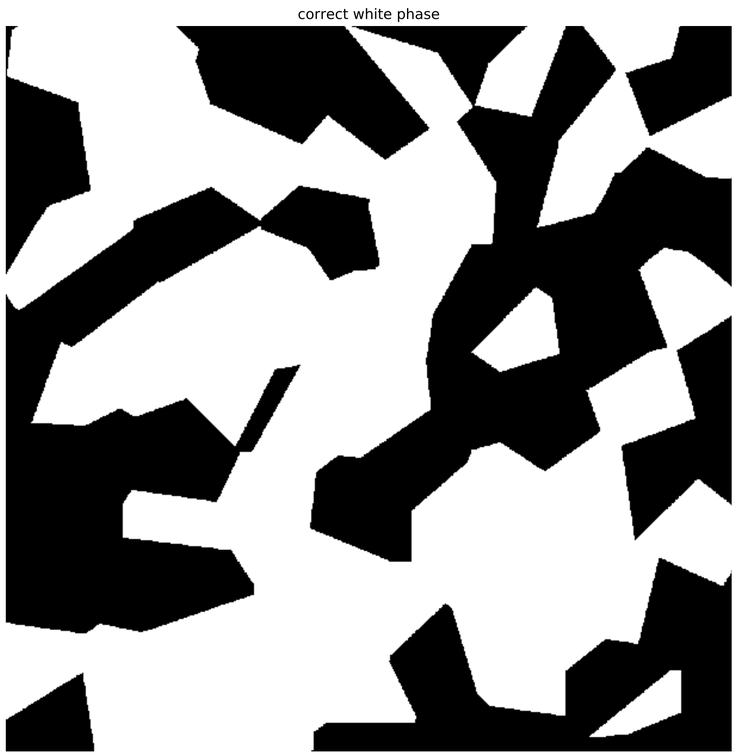
predicted line phase

correct dark phase



predicted dark phase

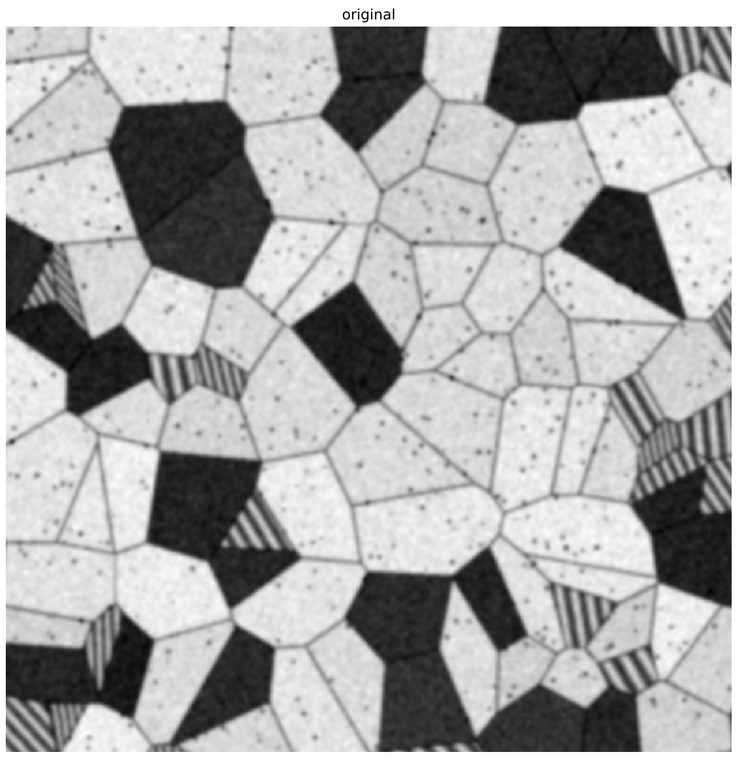
correct white phase



predicted white phase

data/base microstructure/image_33.png

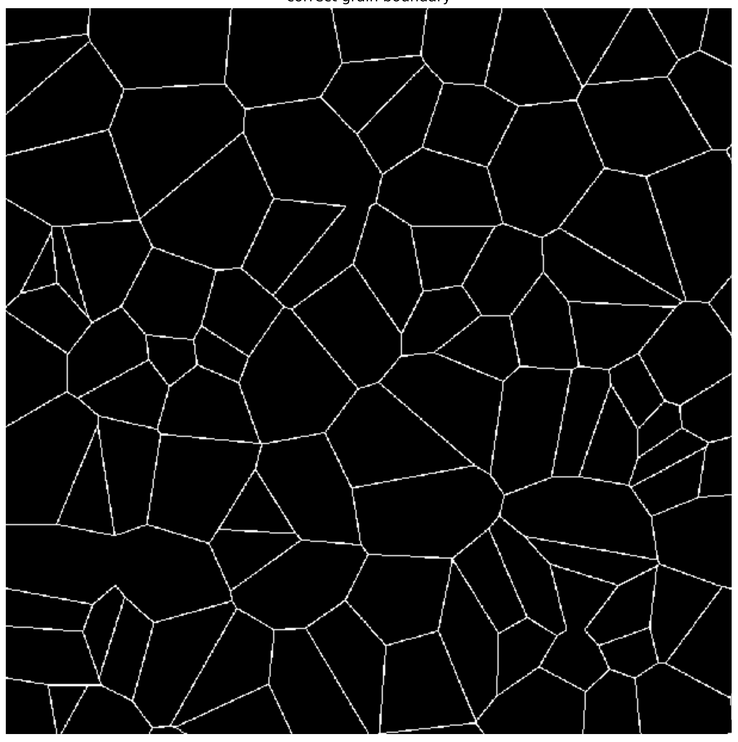
original



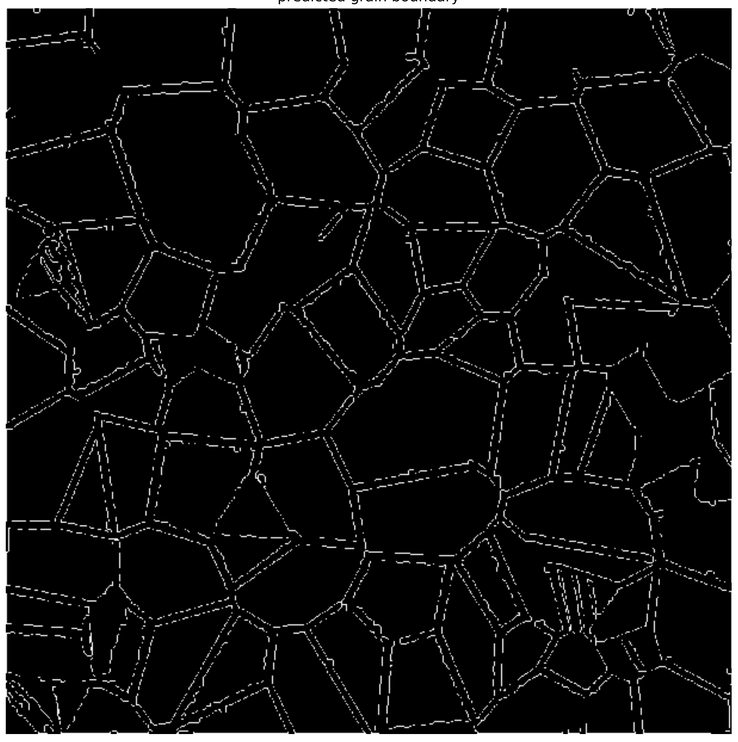
metrics

metric	correct	predicted	error
dark frac	0.248	0.242	0.577%
white frac	0.690	0.655	3.461%
line frac	0.062	0.040	2.233%
ave grain diameter	105.838	97.040	8.313%

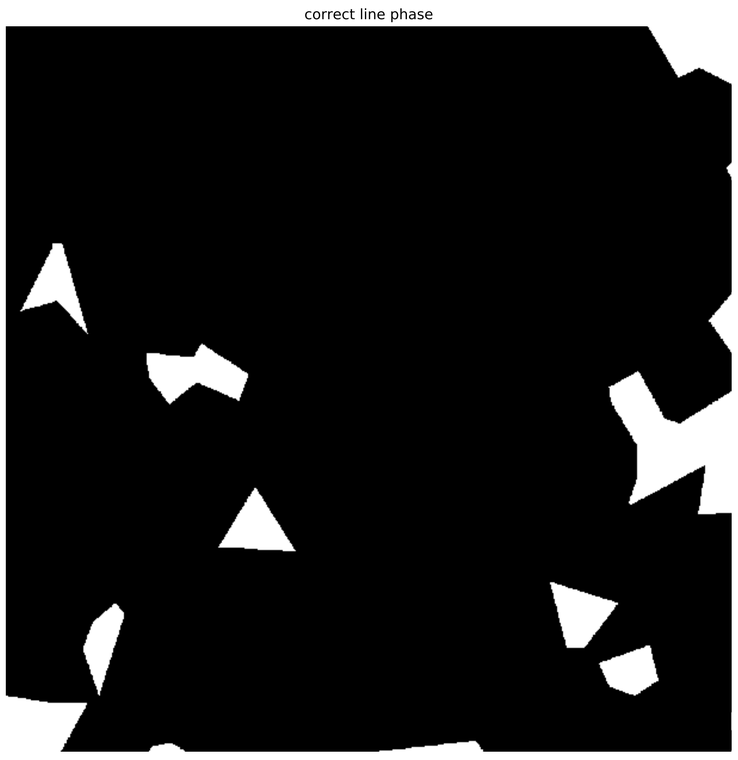
correct grain boundary



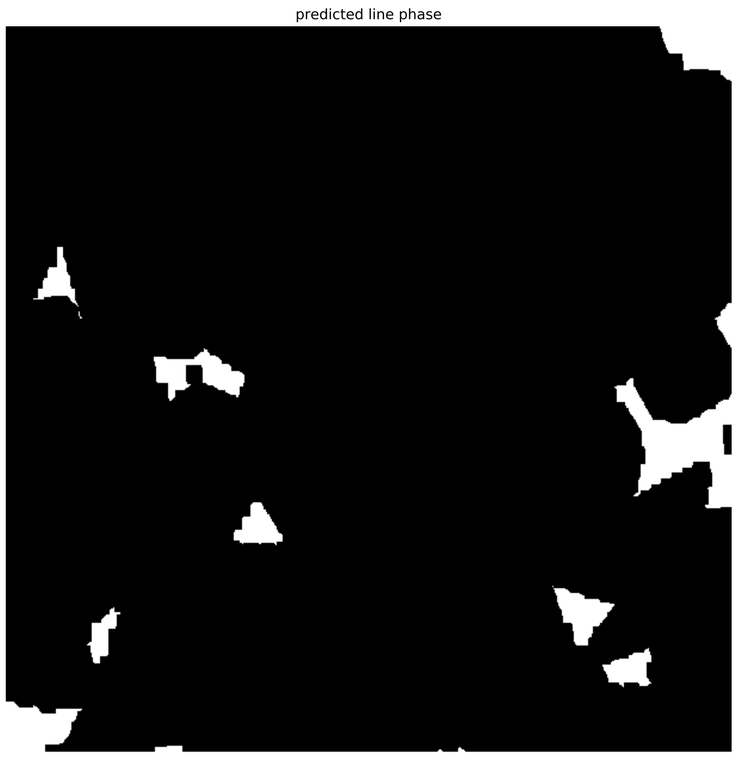
predicted grain boundary



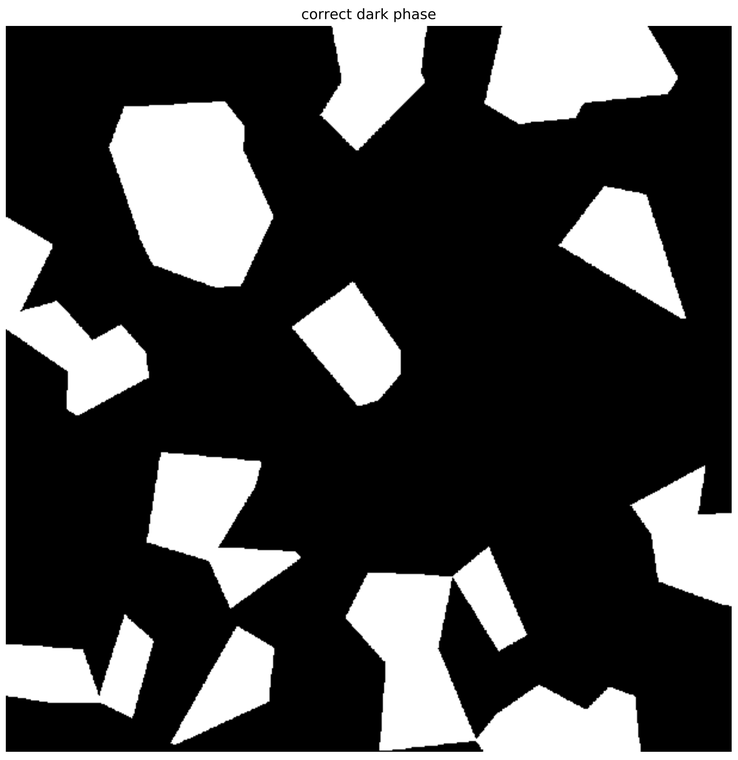
correct line phase



predicted line phase



correct dark phase



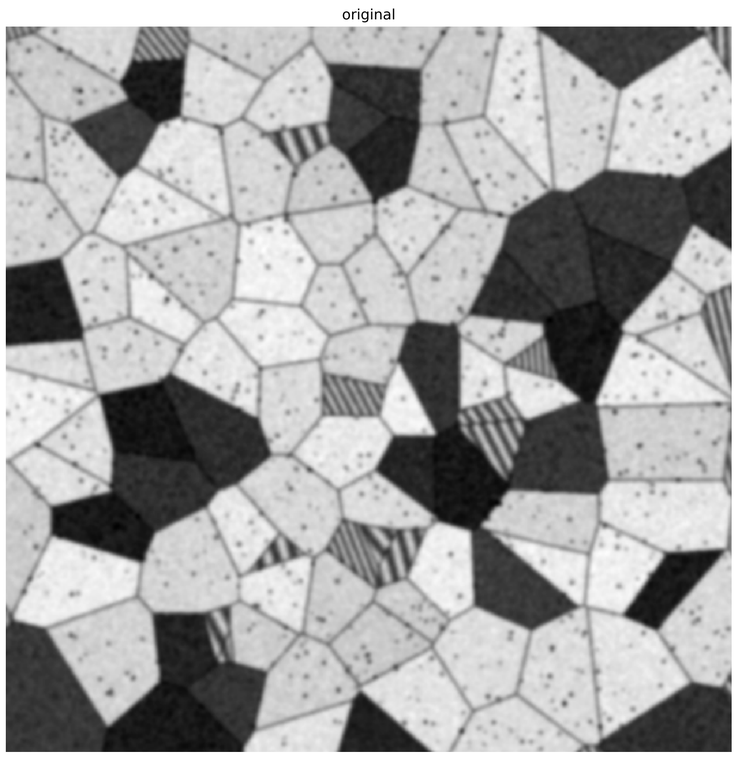
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_34.png

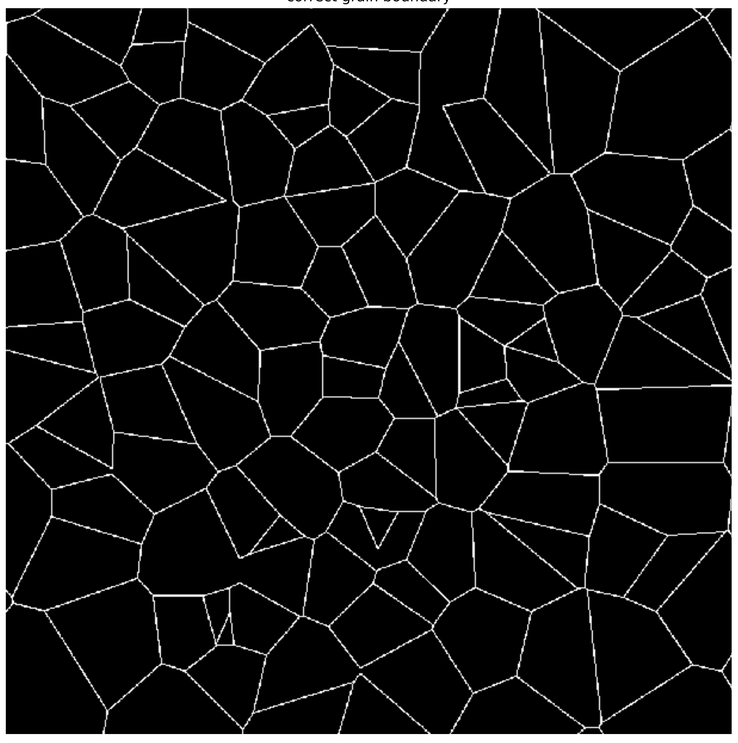
original



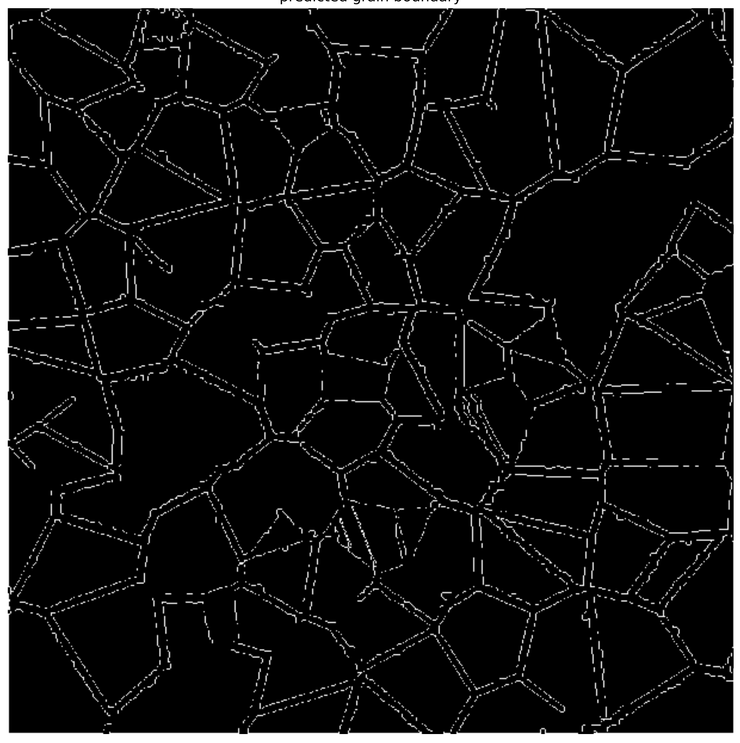
metrics

metric	correct	predicted	error
dark frac	0.268	0.259	0.888%
white frac	0.694	0.657	3.716%
line frac	0.038	0.025	1.291%
ave grain diameter	101.753	94.321	7.304%

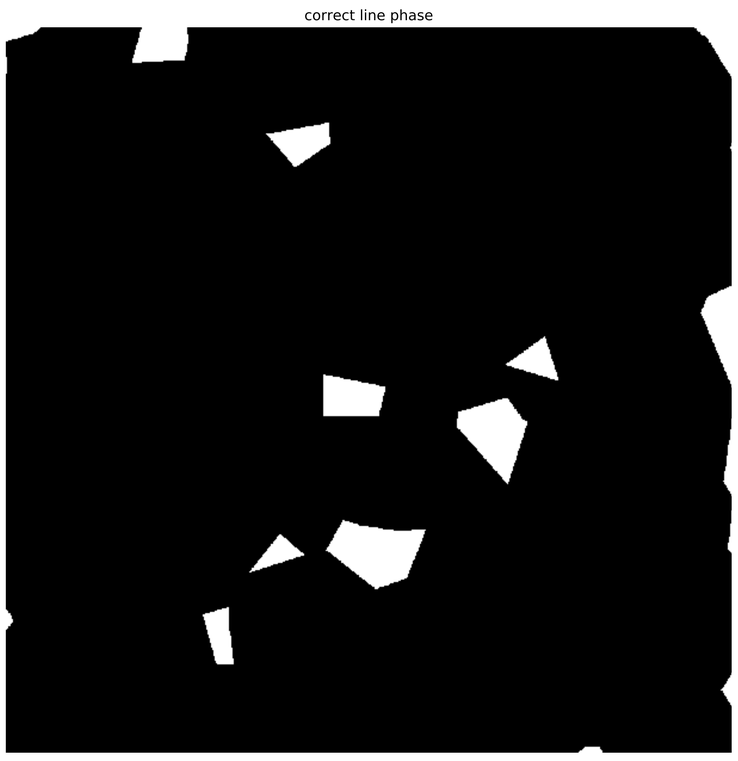
correct grain boundary



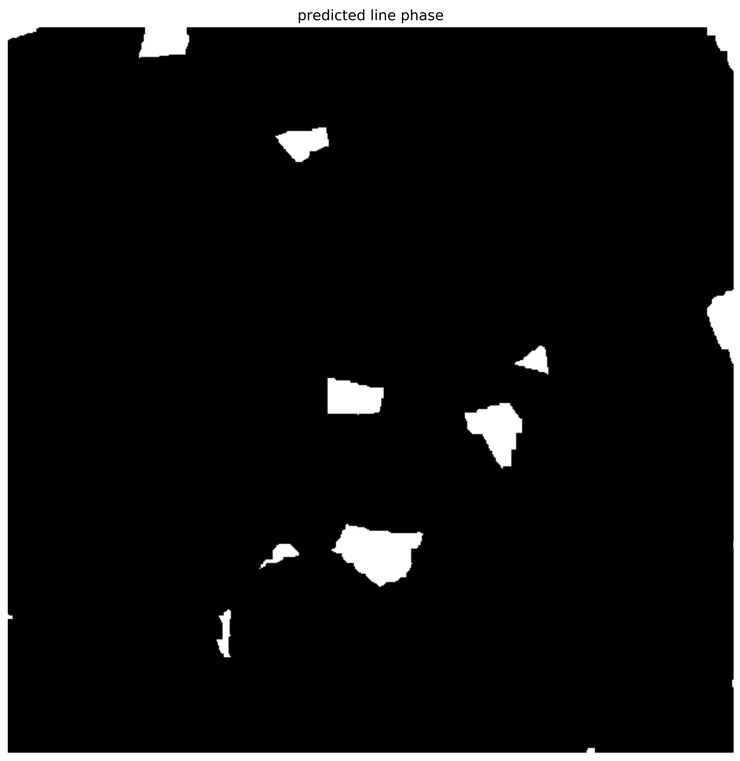
predicted grain boundary



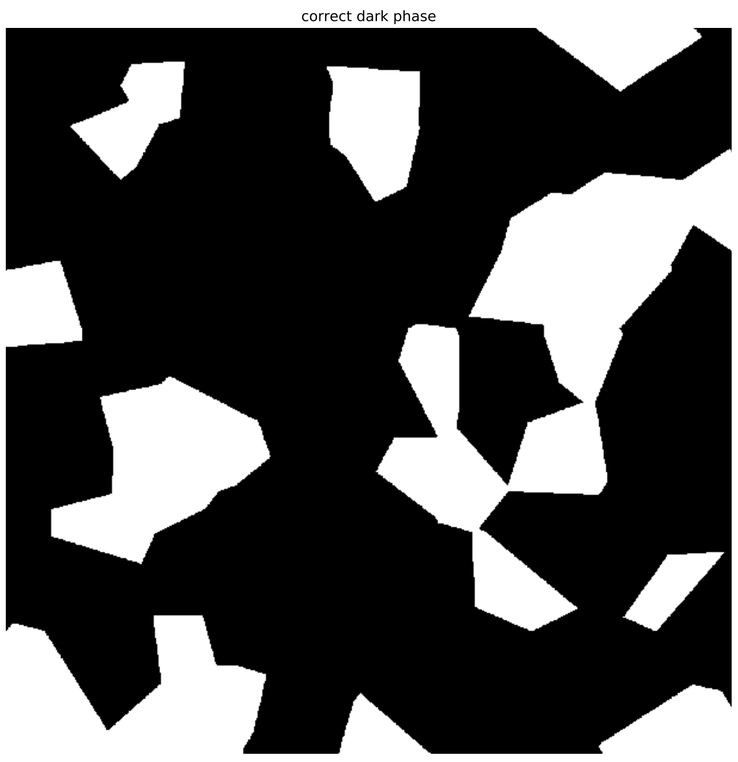
correct line phase



predicted line phase



correct dark phase



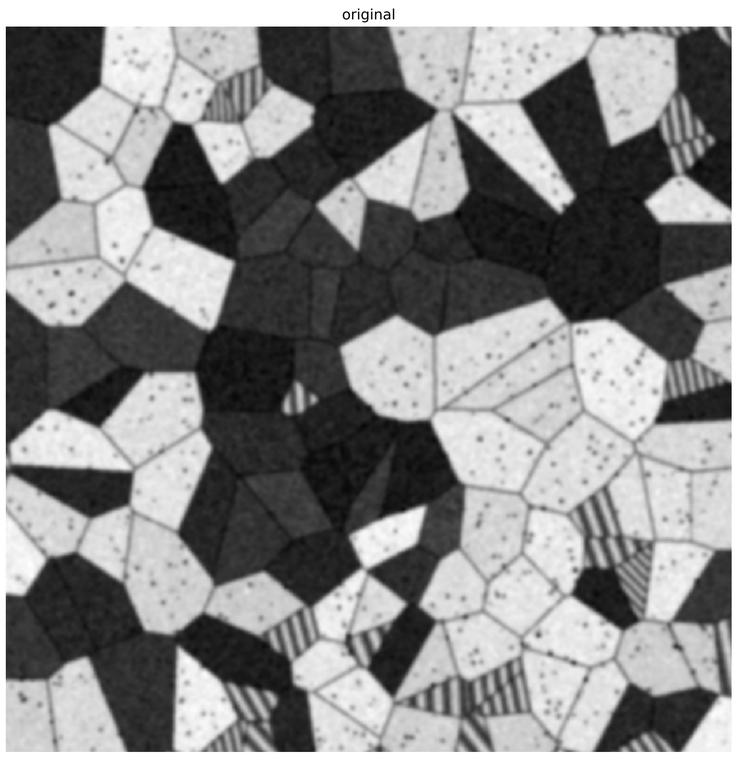
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_35.png

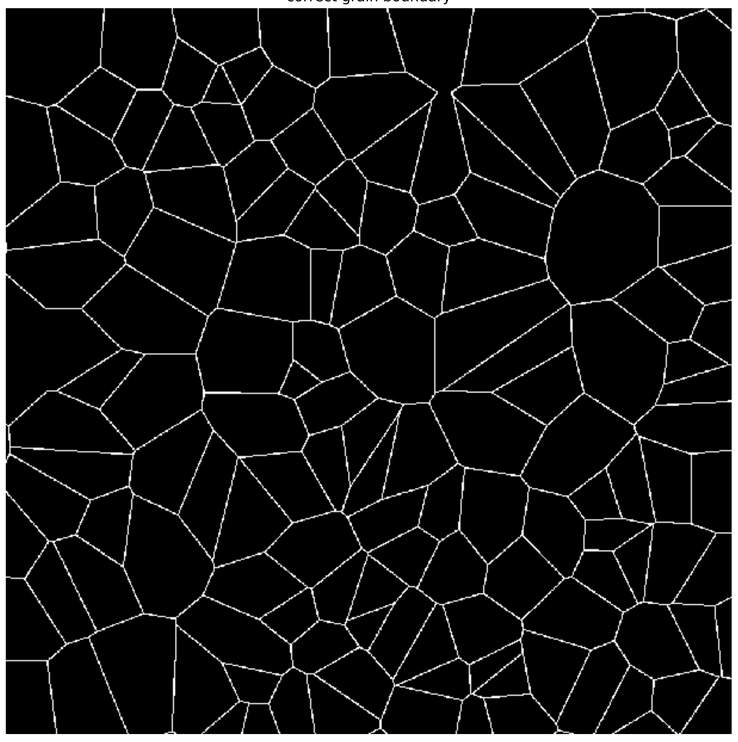
original



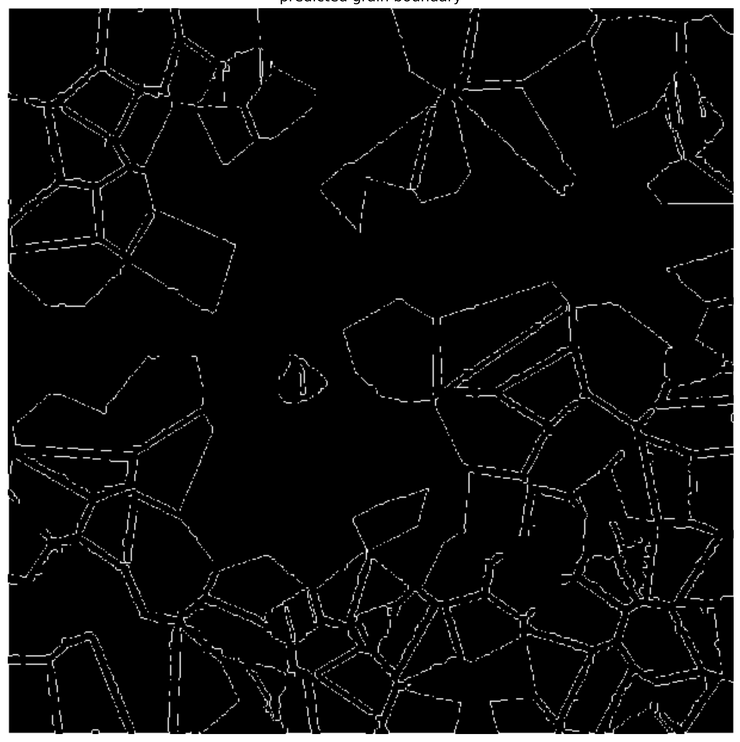
metrics

metric	correct	predicted	error
dark frac	0.442	0.430	1.258%
white frac	0.506	0.460	4.575%
line frac	0.051	0.032	1.981%
ave grain diameter	90.080	80.039	11.147%

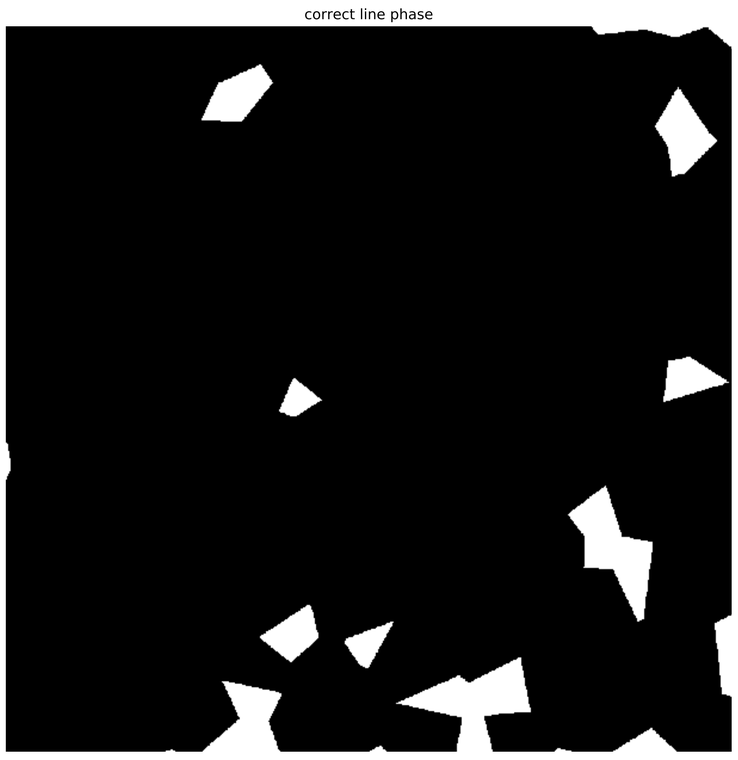
correct grain boundary



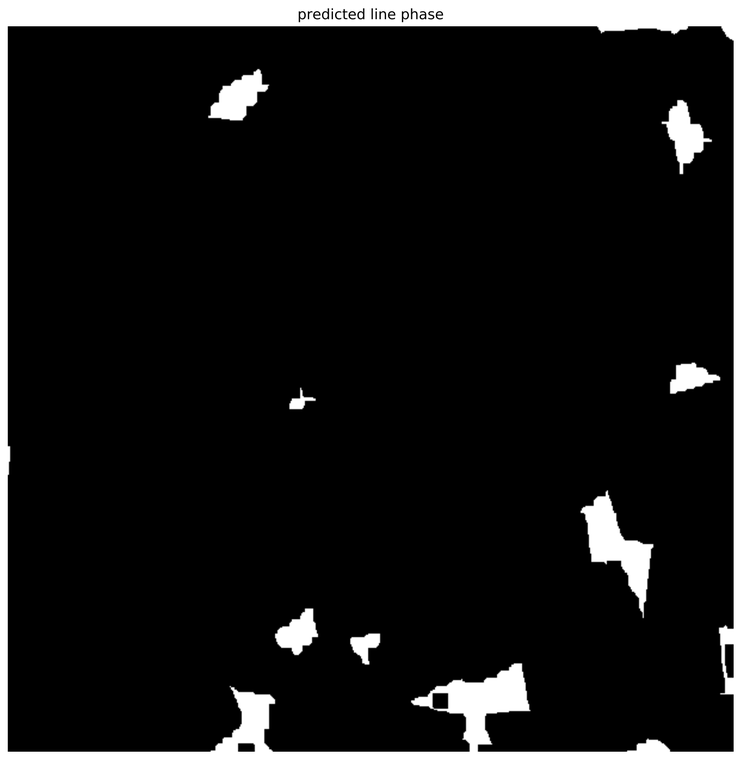
predicted grain boundary



correct line phase



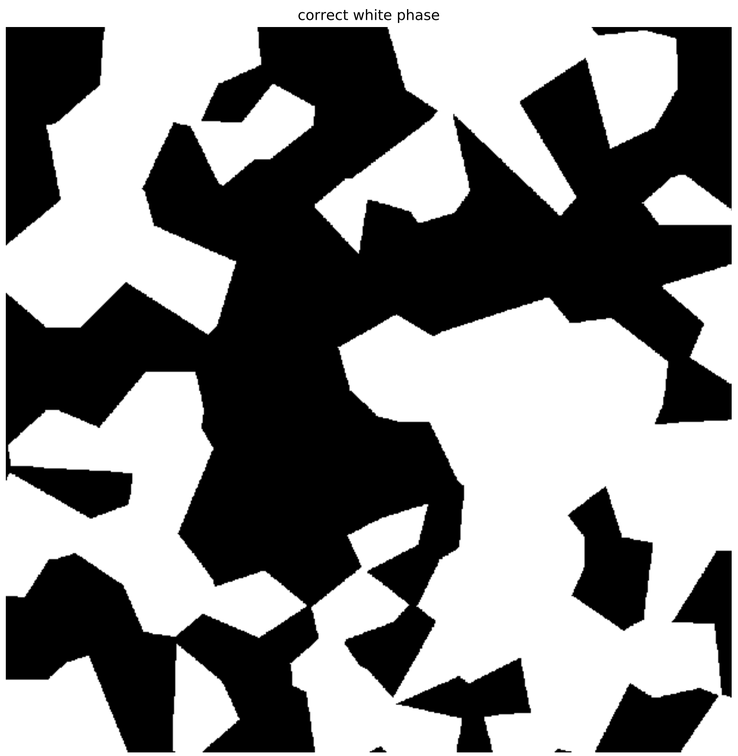
predicted line phase



correct dark phase

predicted dark phase

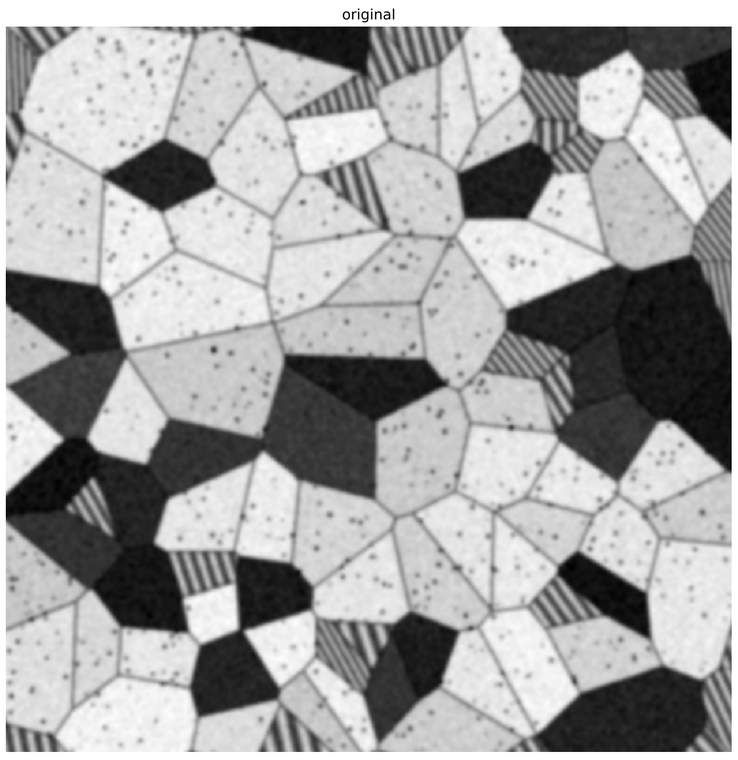
correct white phase



predicted white phase

data/base microstructure/image_36.png

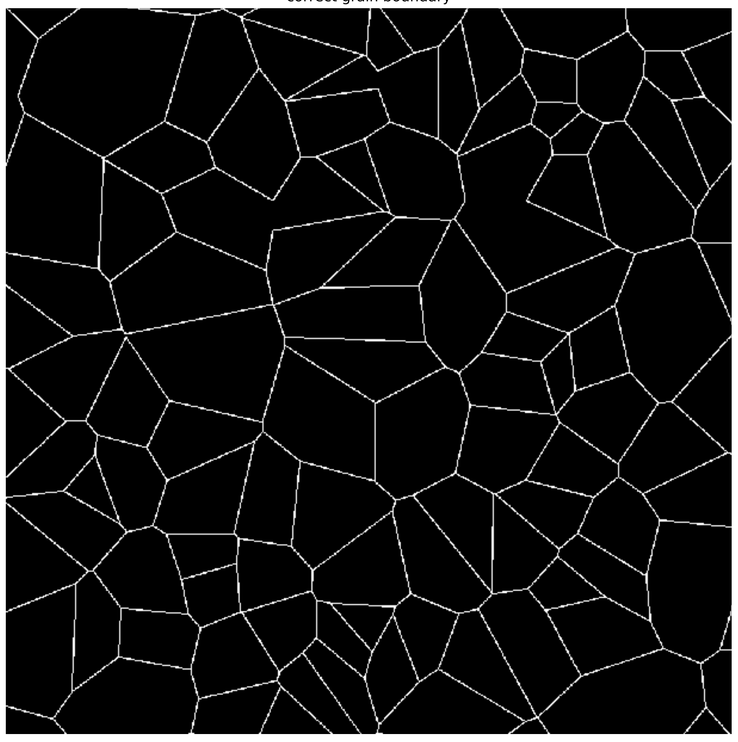
original



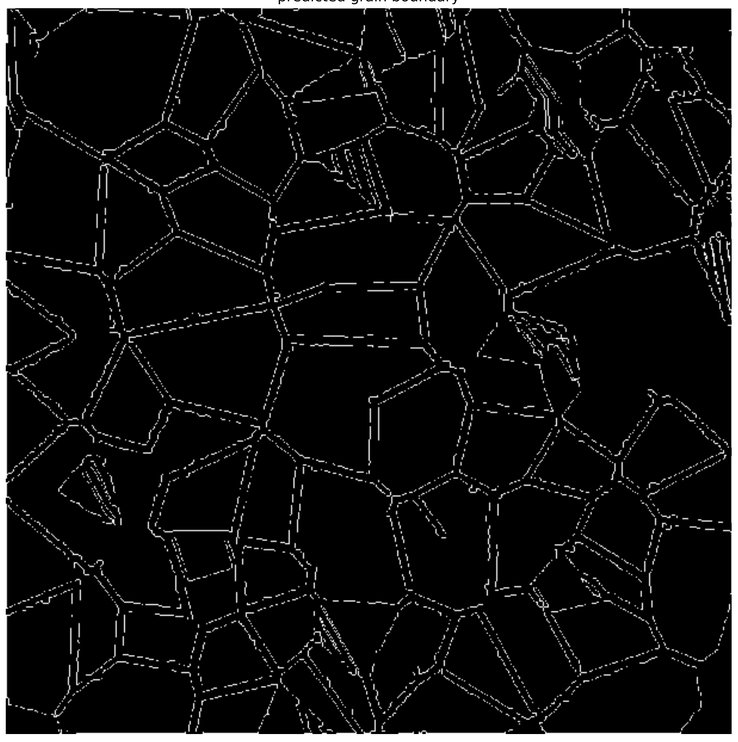
metrics

metric	correct	predicted	error
dark frac	0.261	0.255	0.568%
white frac	0.657	0.619	3.779%
line frac	0.082	0.055	2.661%
ave grain diameter	102.784	102.085	0.679%

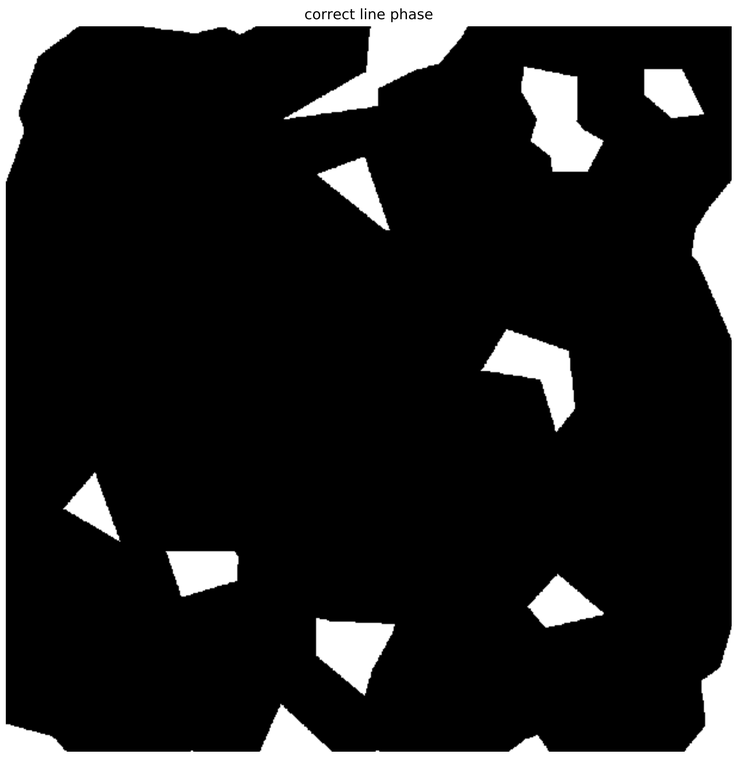
correct grain boundary



predicted grain boundary

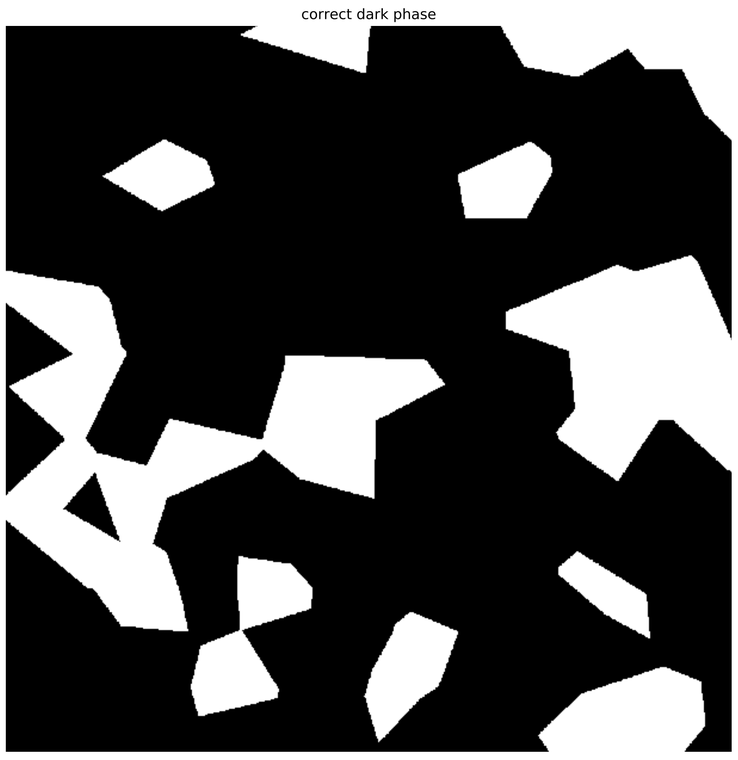


correct line phase



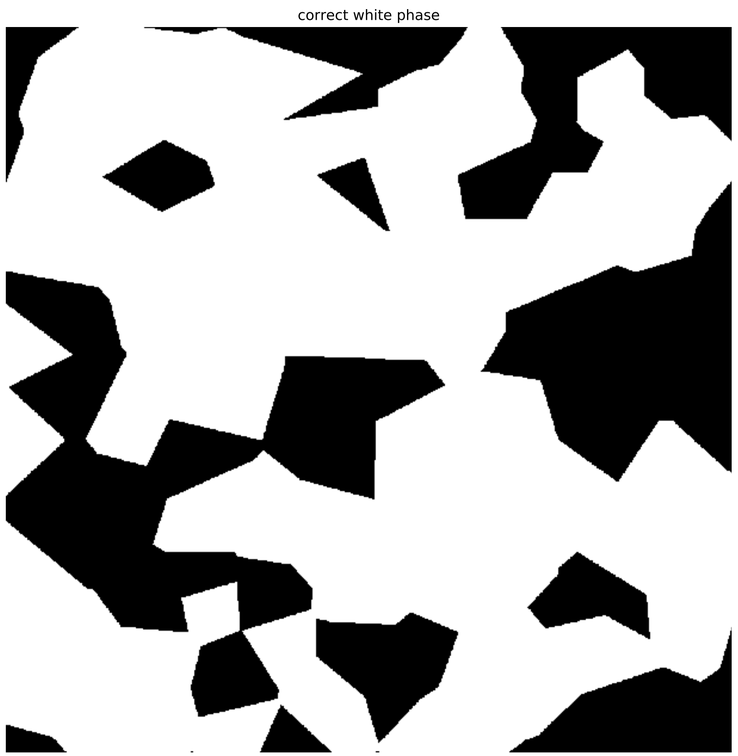
predicted line phase

correct dark phase



predicted dark phase

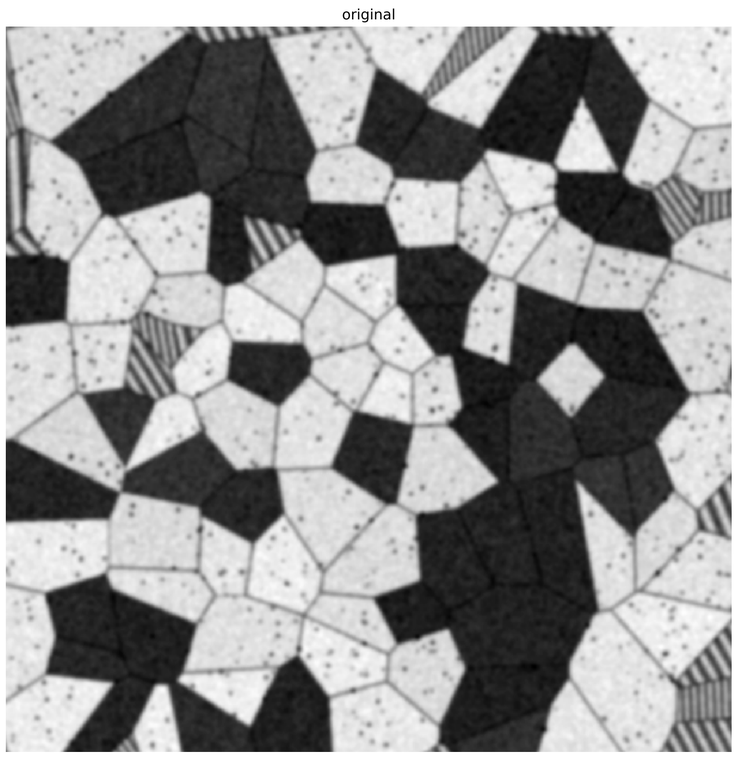
correct white phase



predicted white phase

data/base microstructure/image_37.png

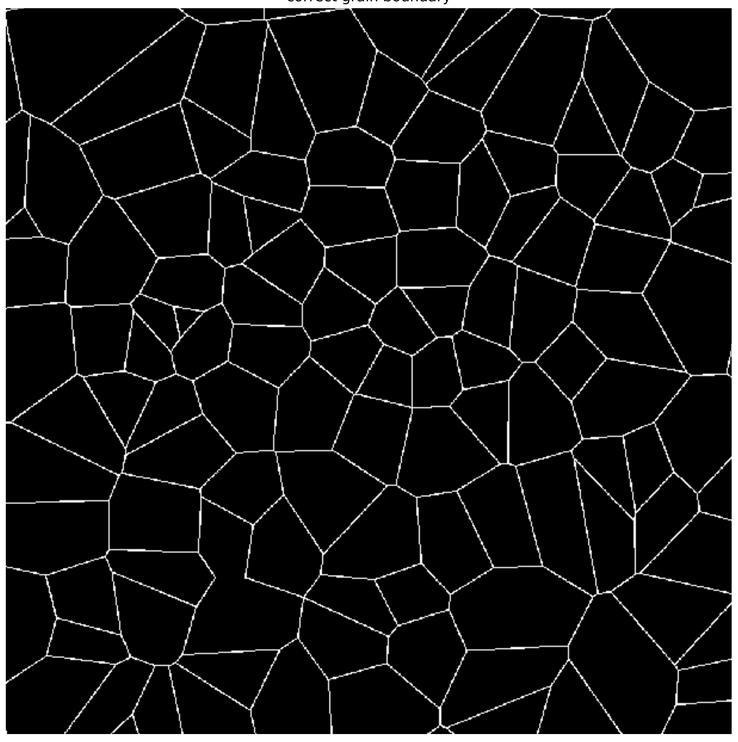
original



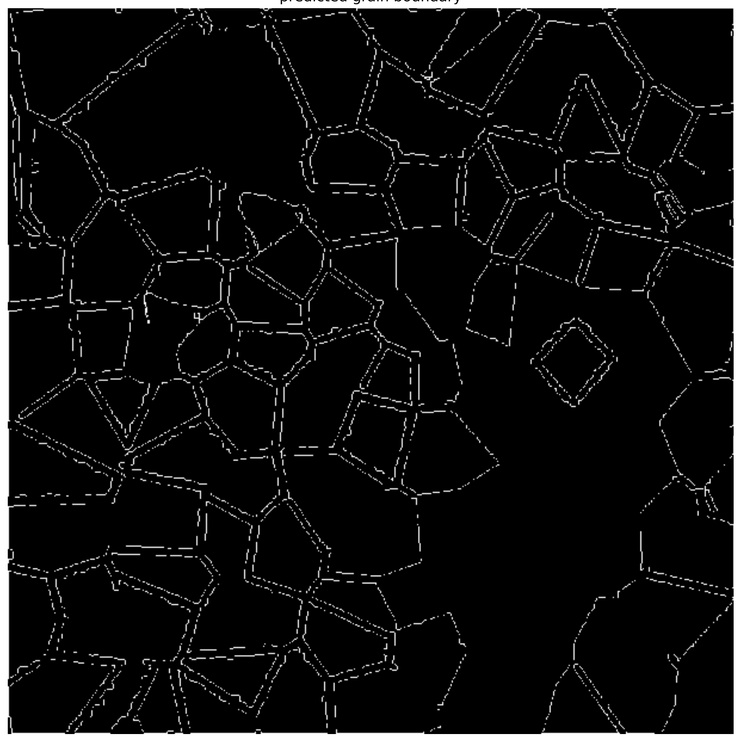
metrics

metric	correct	predicted	error
dark frac	0.384	0.370	1.317%
white frac	0.569	0.521	4.786%
line frac	0.047	0.030	1.686%
ave grain diameter	98.634	91.084	7.655%

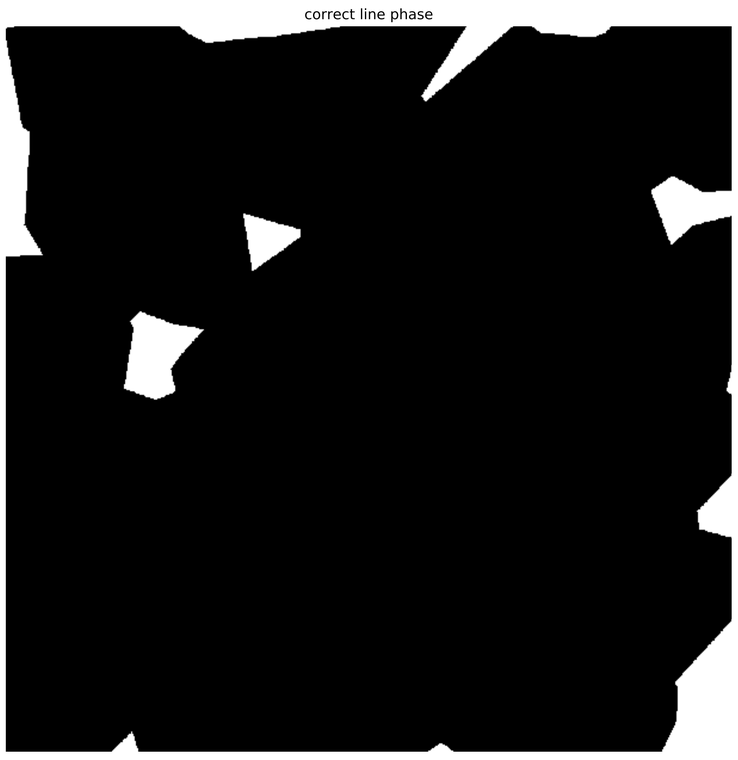
correct grain boundary



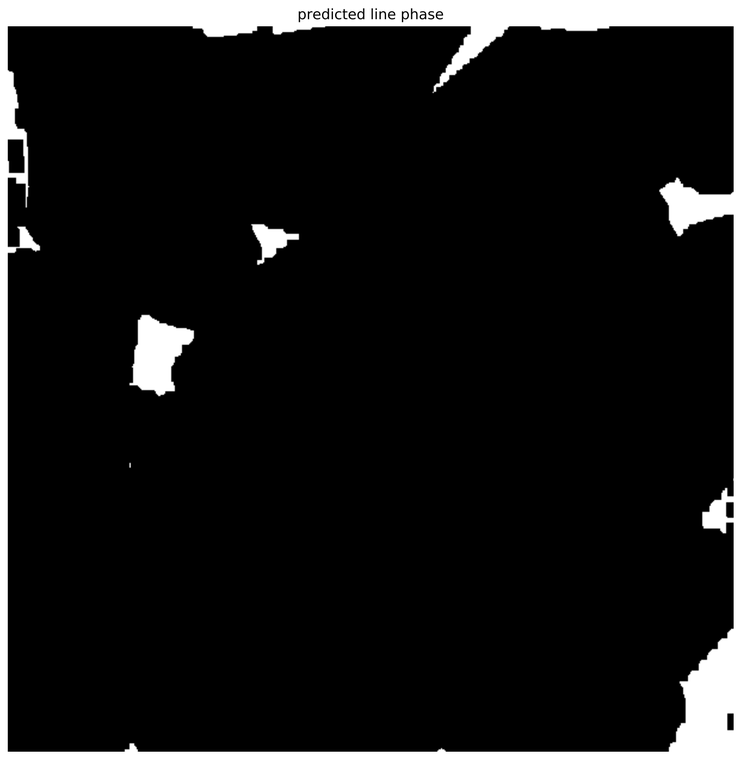
predicted grain boundary



correct line phase



predicted line phase



correct dark phase

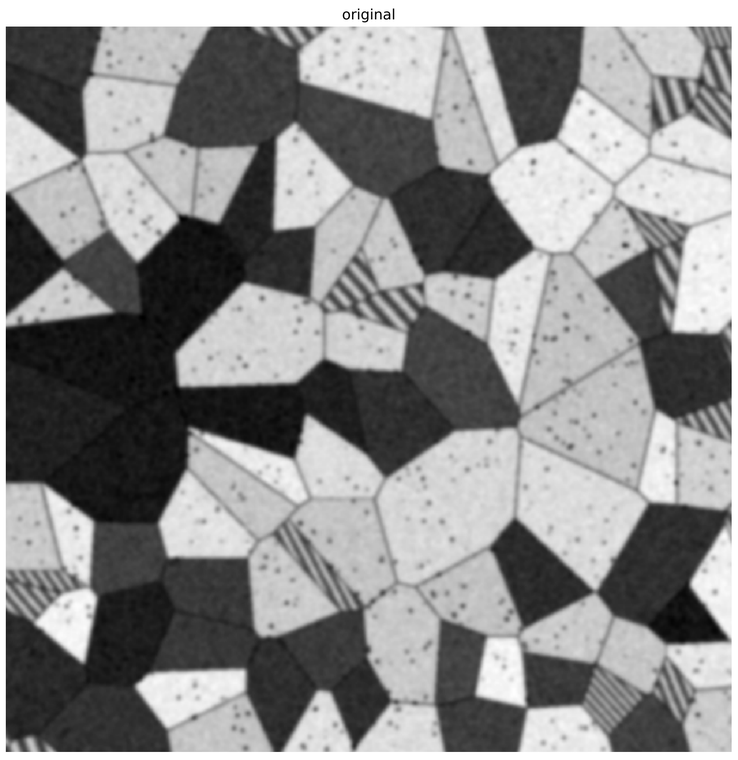
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_38.png

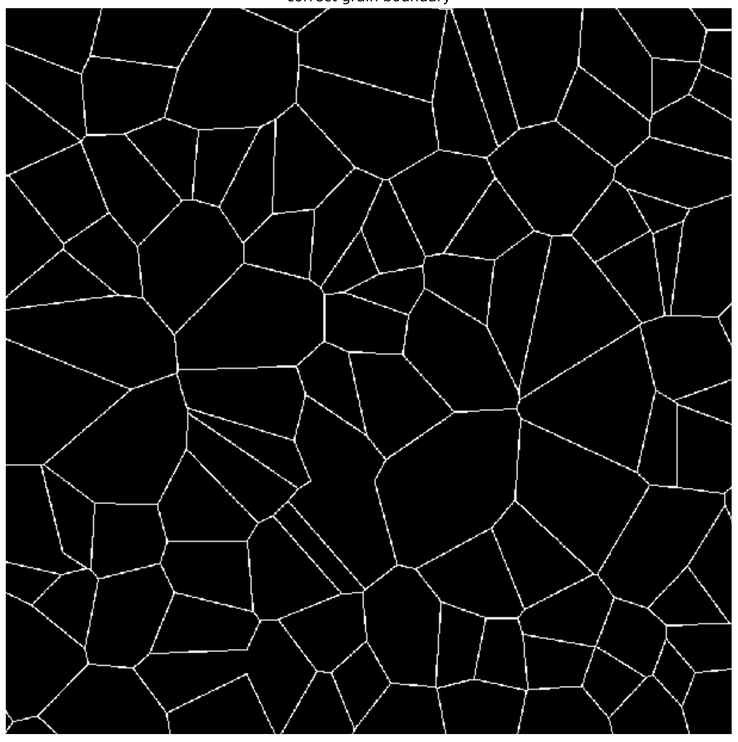
original



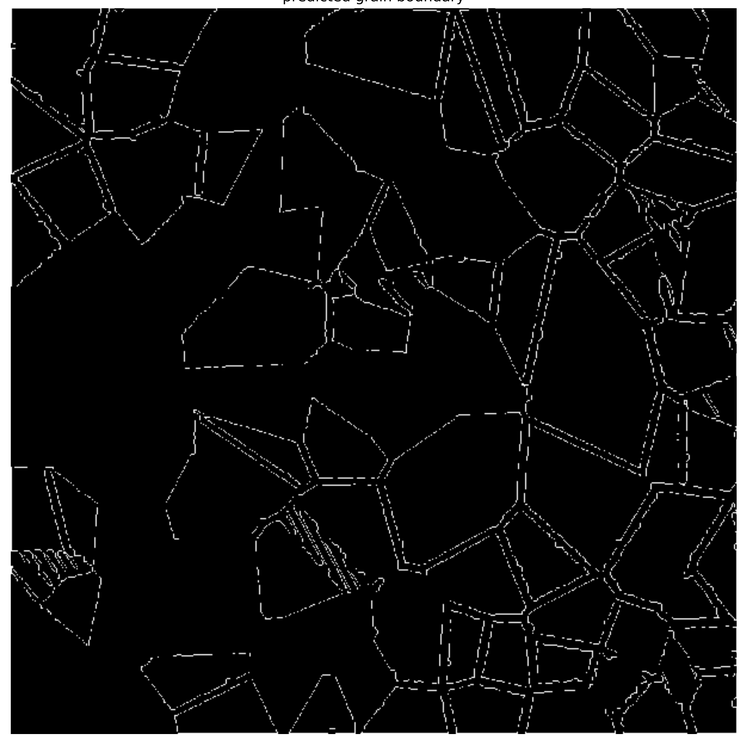
metrics

metric	correct	predicted	error
dark frac	0.413	0.400	1.256%
white frac	0.540	0.493	4.679%
line frac	0.047	0.030	1.739%
ave grain diameter	103.824	95.509	8.009%

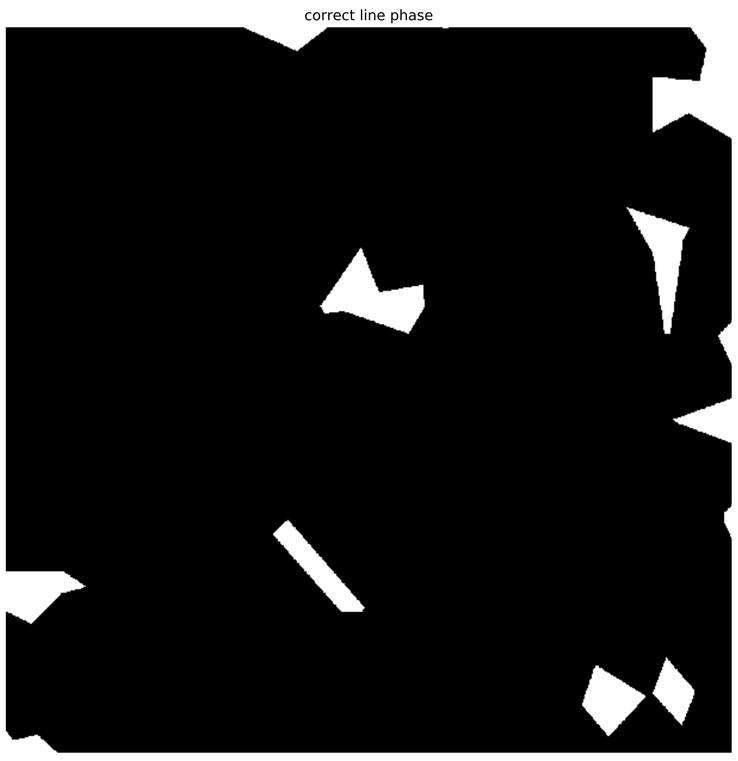
correct grain boundary



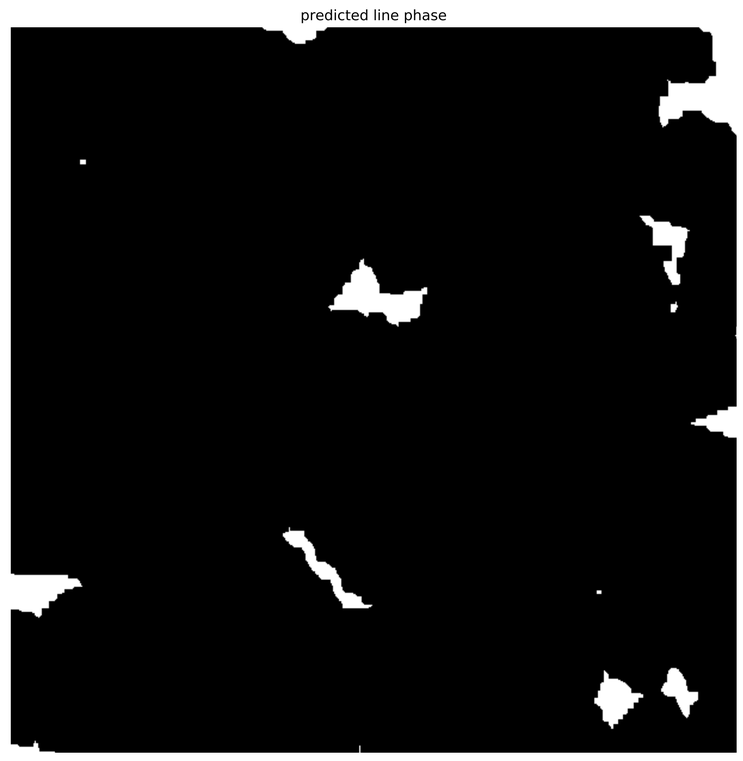
predicted grain boundary



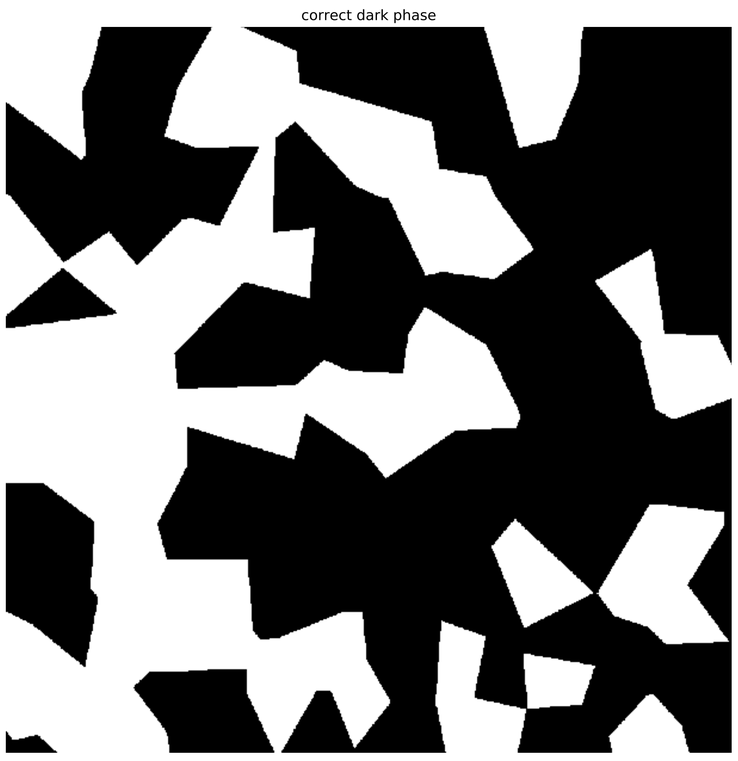
correct line phase



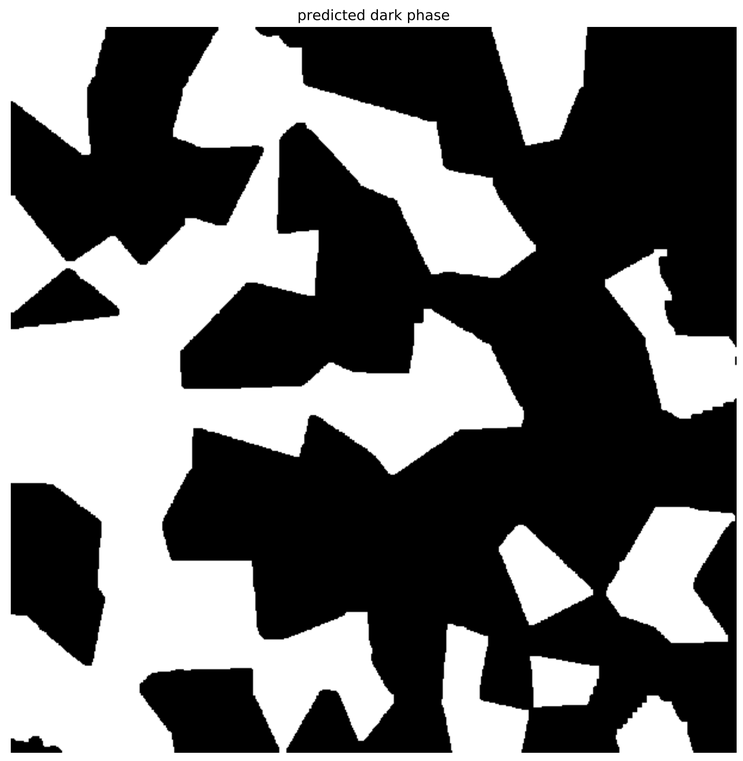
predicted line phase



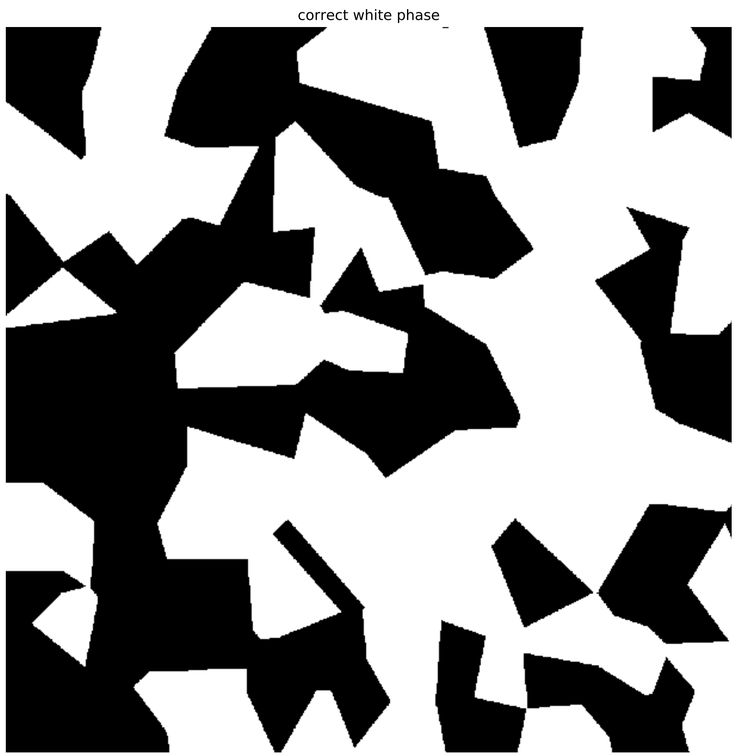
correct dark phase



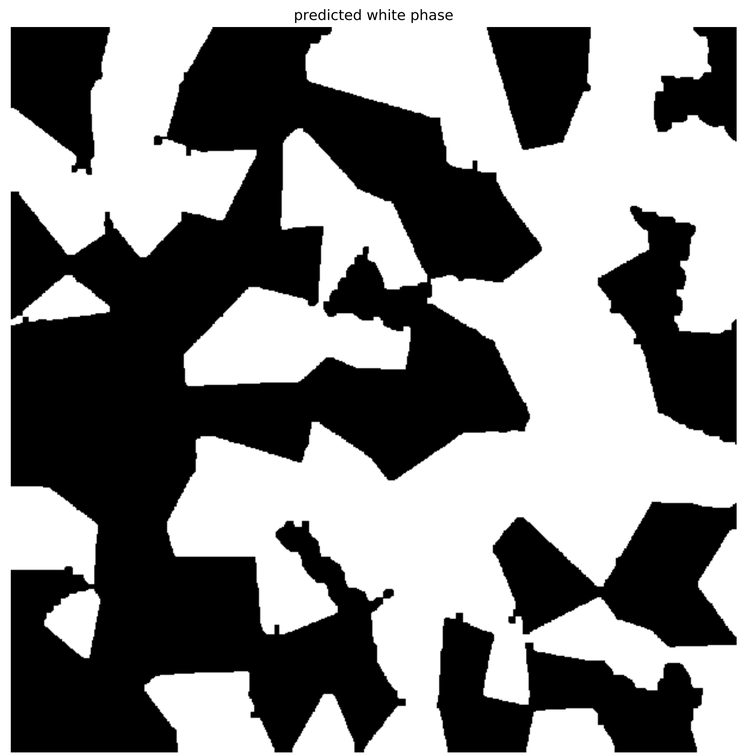
predicted dark phase



correct white phase

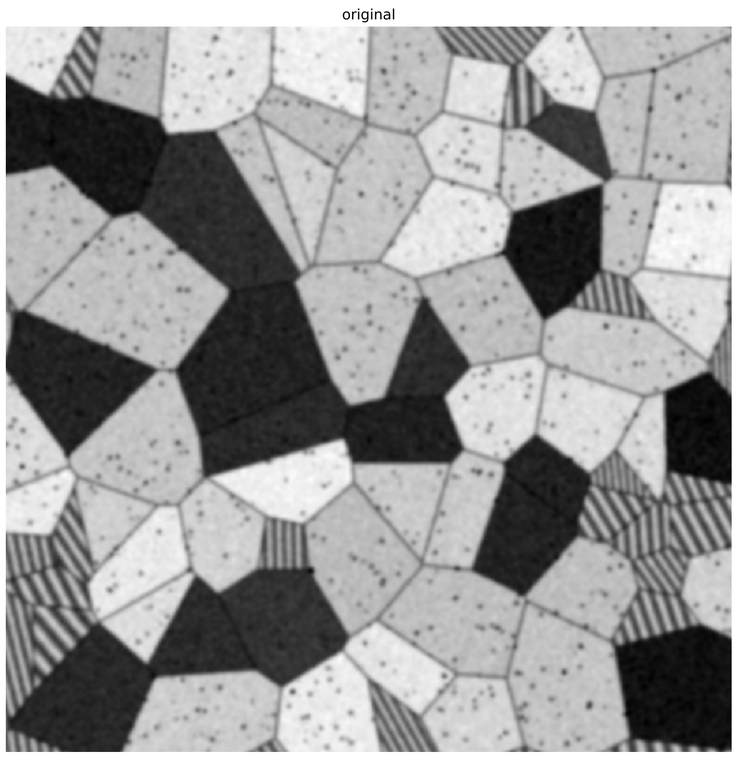


predicted white phase



data/base microstructure/image_39.png

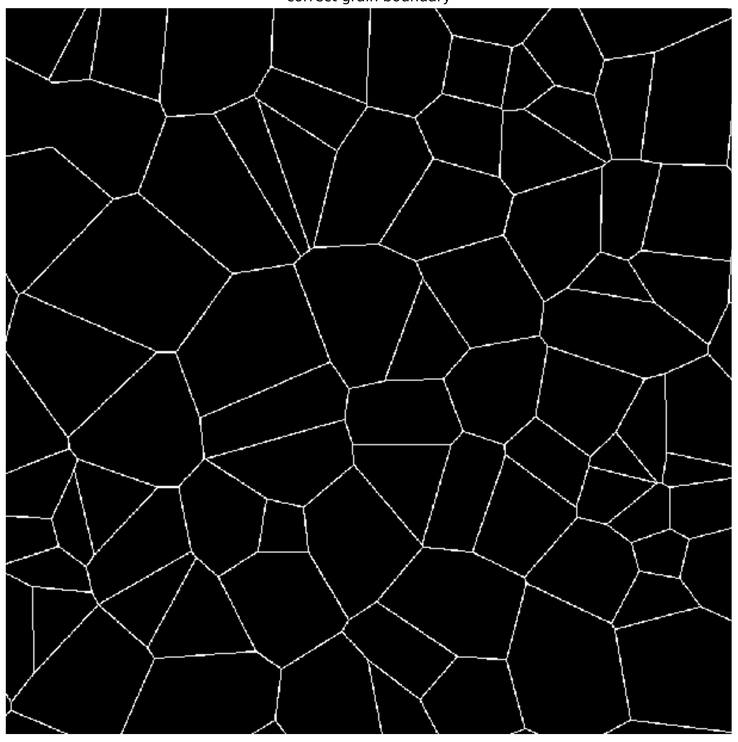
original



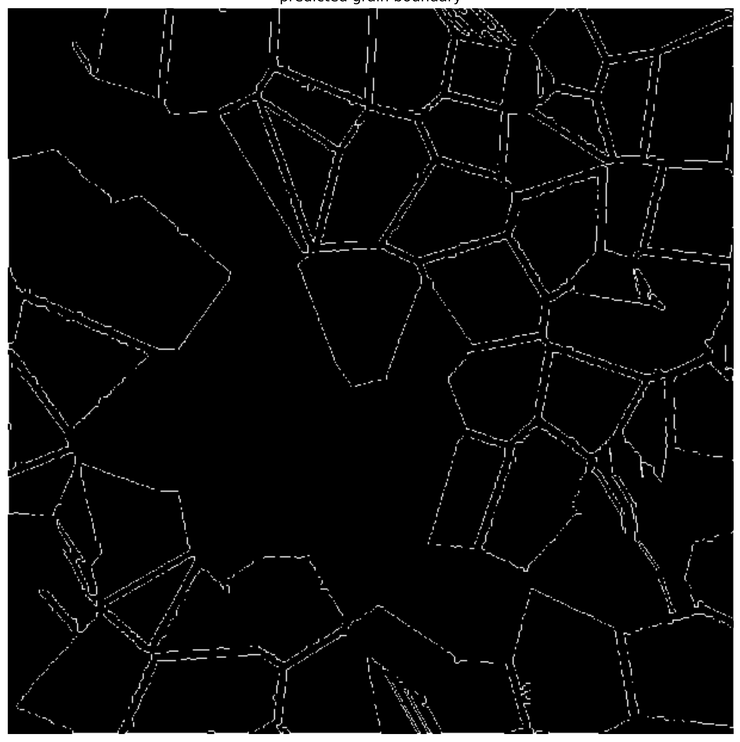
metrics

metric	correct	predicted	error
dark frac	0.267	0.260	0.666%
white frac	0.644	0.613	3.083%
line frac	0.090	0.067	2.206%
ave grain diameter	116.348	99.584	14.408%

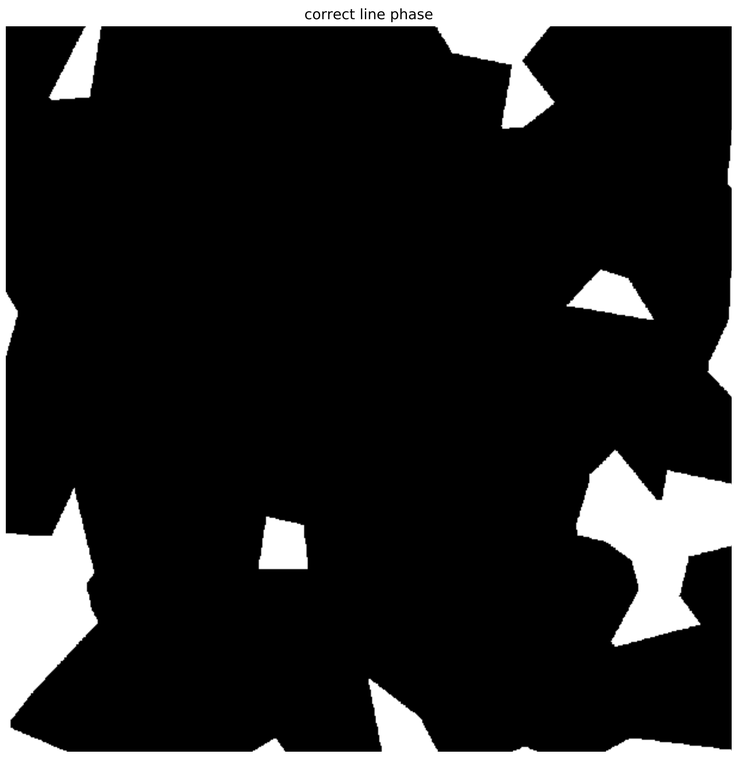
correct grain boundary



predicted grain boundary



correct line phase



predicted line phase

correct dark phase

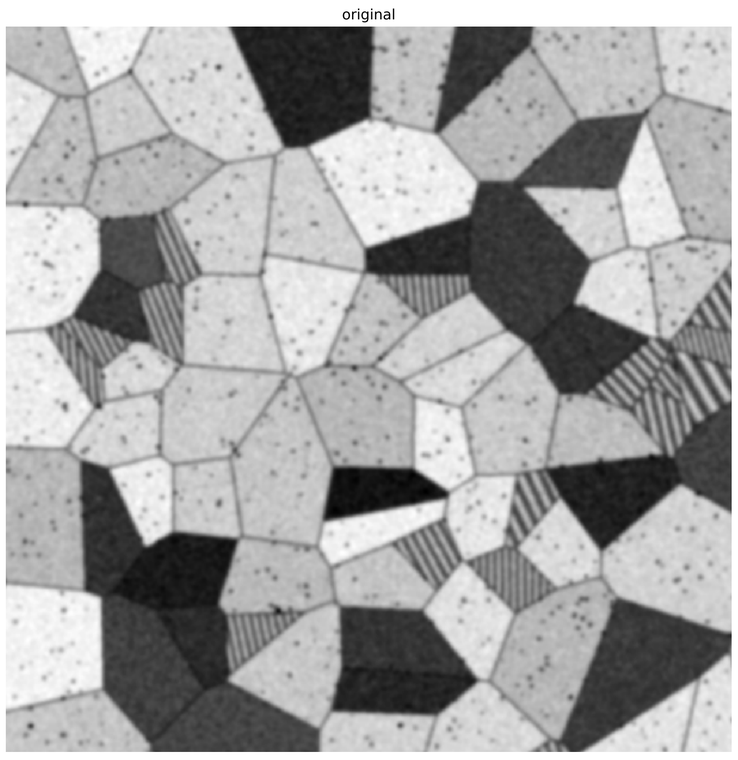
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_4.png

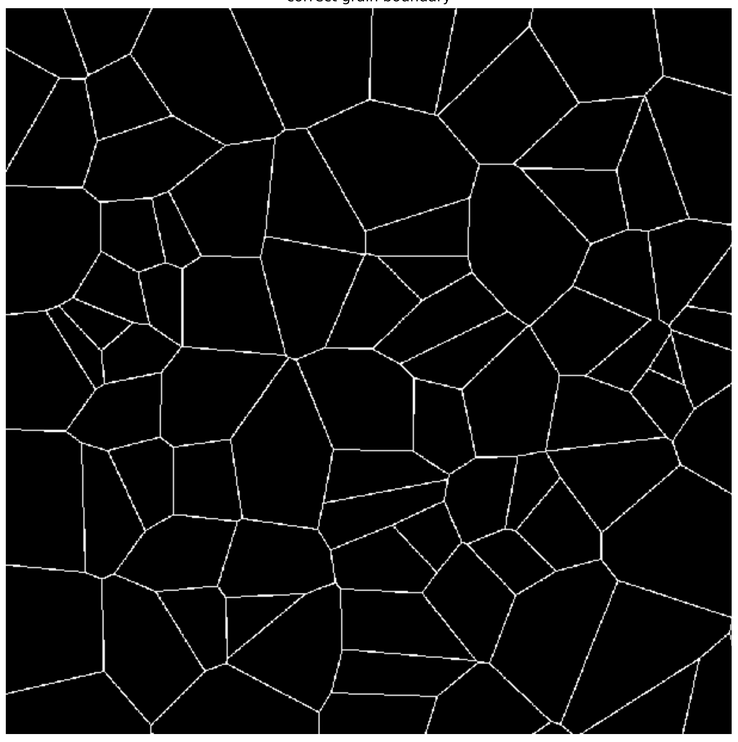
original



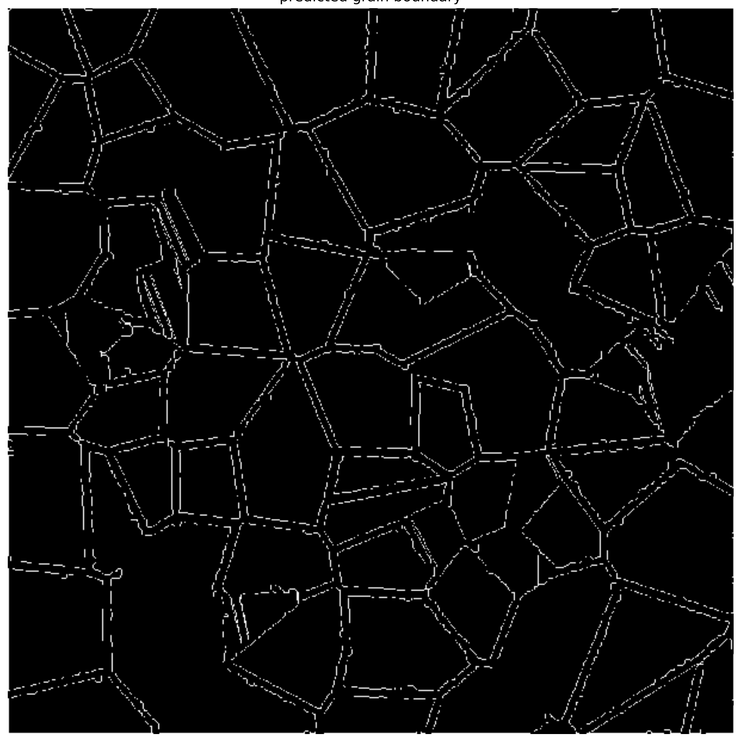
metrics

metric	correct	predicted	error
dark frac	0.241	0.236	0.509%
white frac	0.695	0.657	3.770%
line frac	0.064	0.047	1.681%
ave grain diameter	116.943	106.806	8.668%

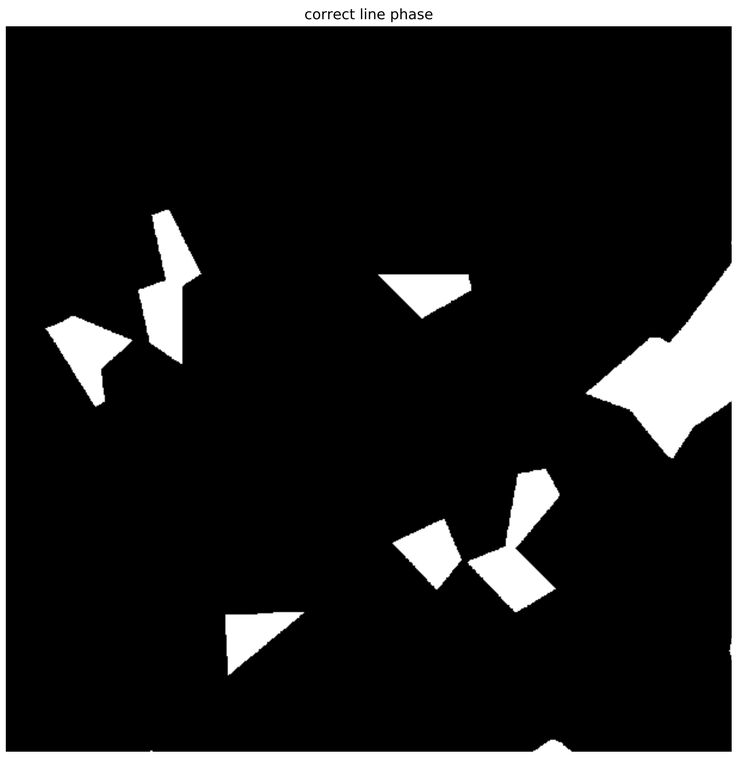
correct grain boundary



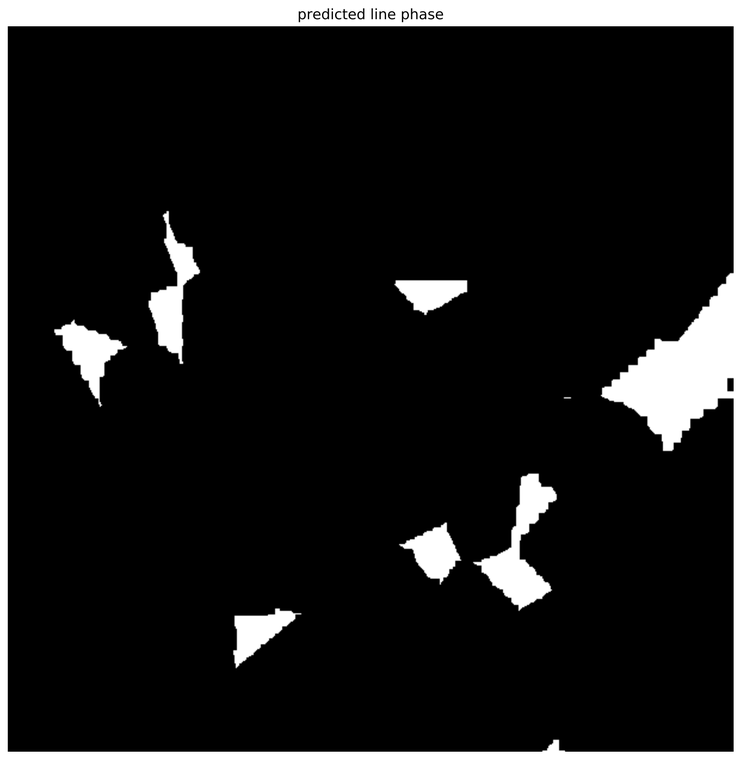
predicted grain boundary



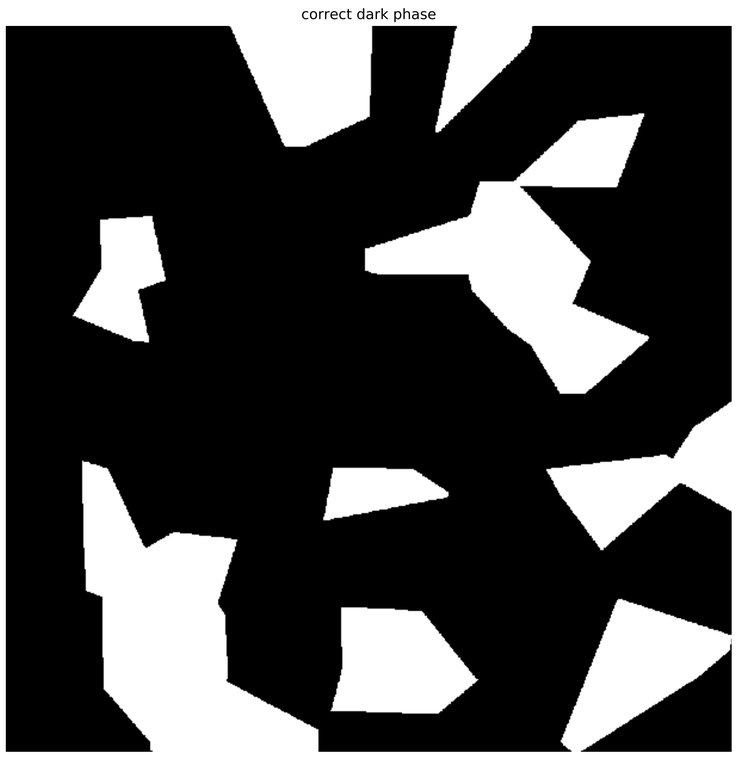
correct line phase



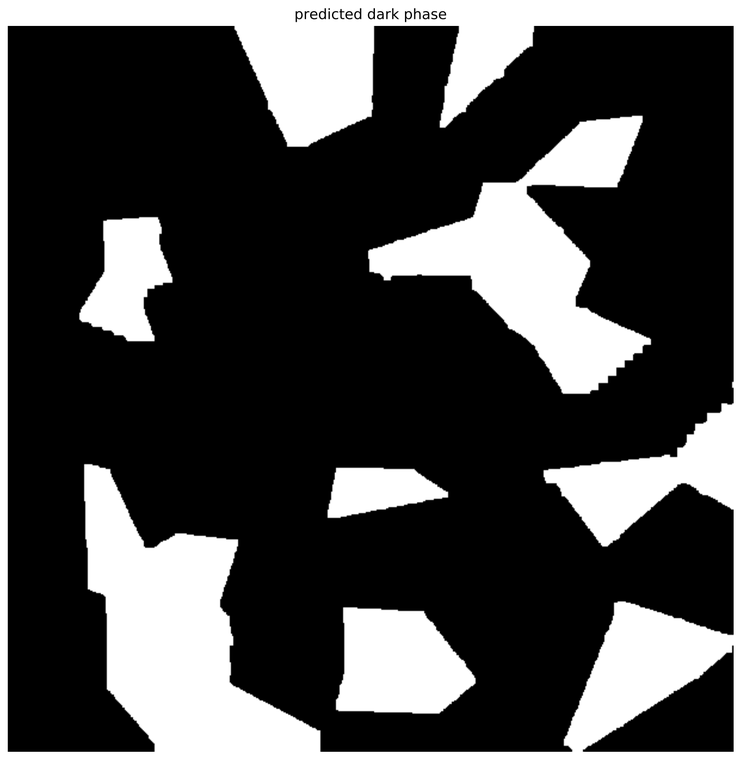
predicted line phase



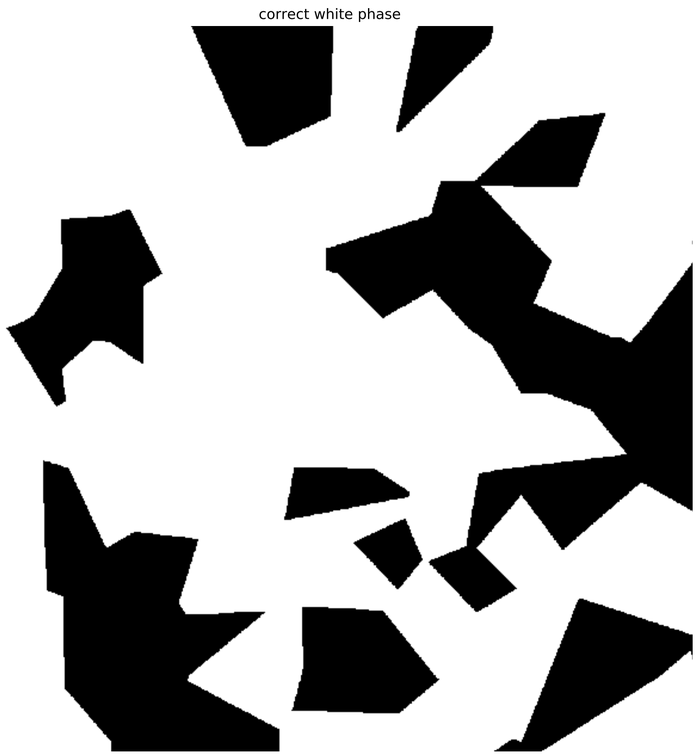
correct dark phase



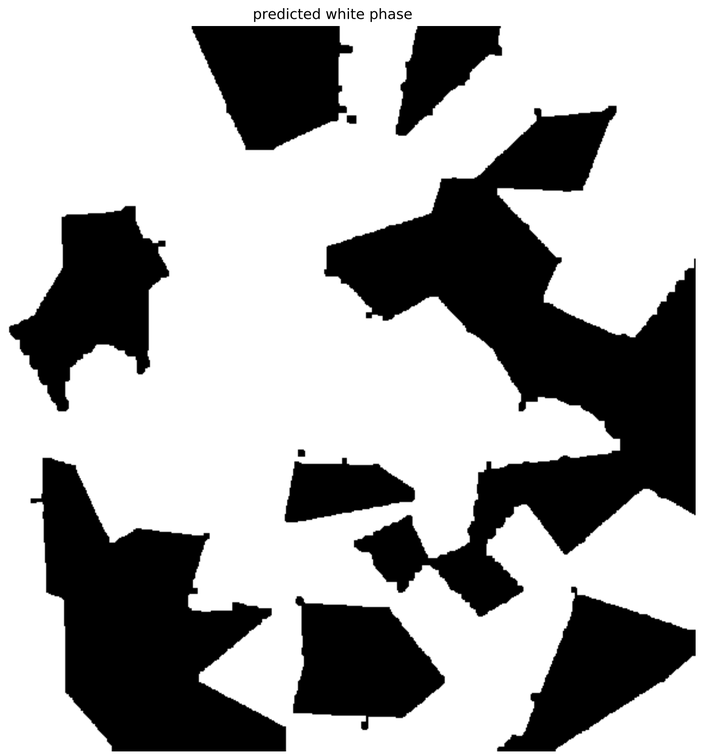
predicted dark phase



correct white phase

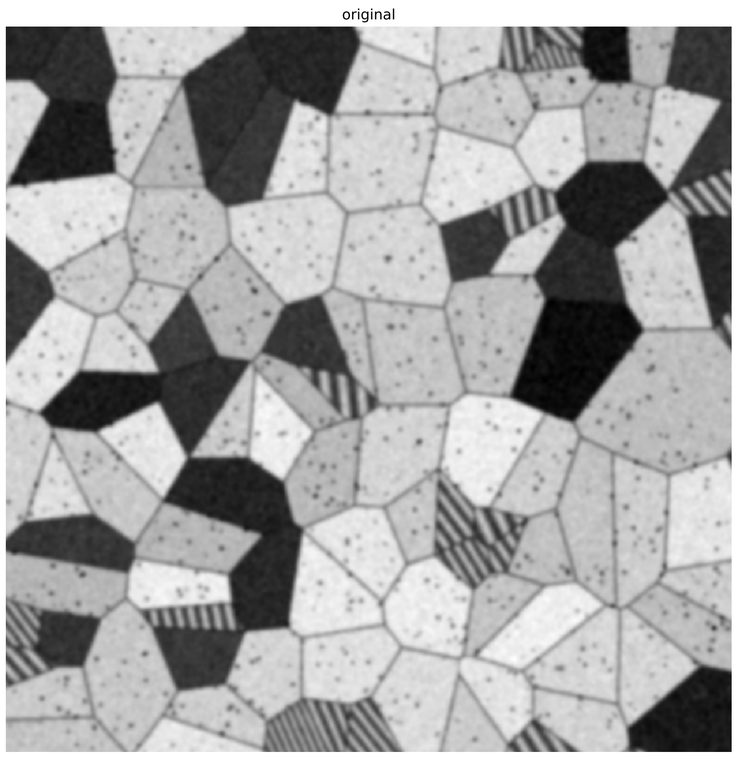


predicted white phase



data/base microstructure/image_40.png

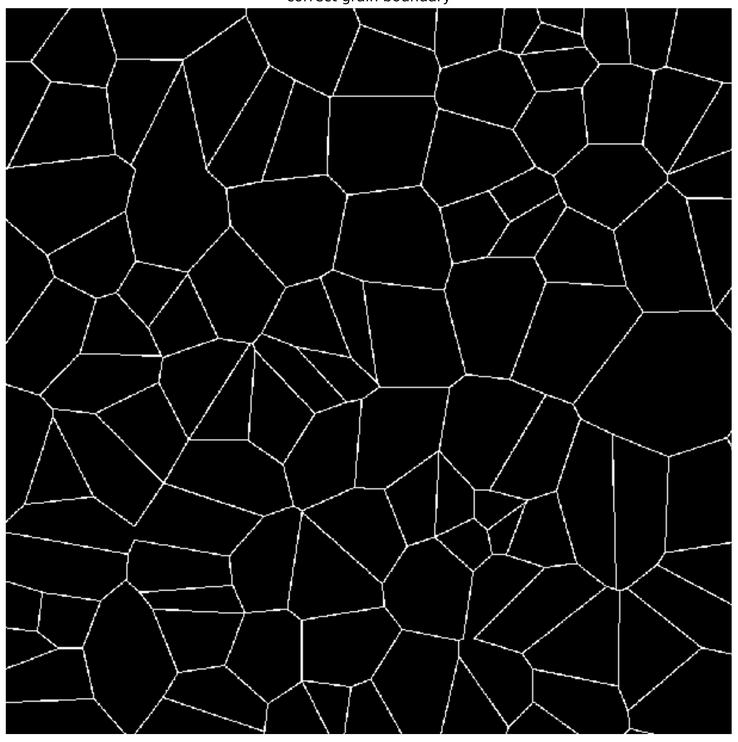
original



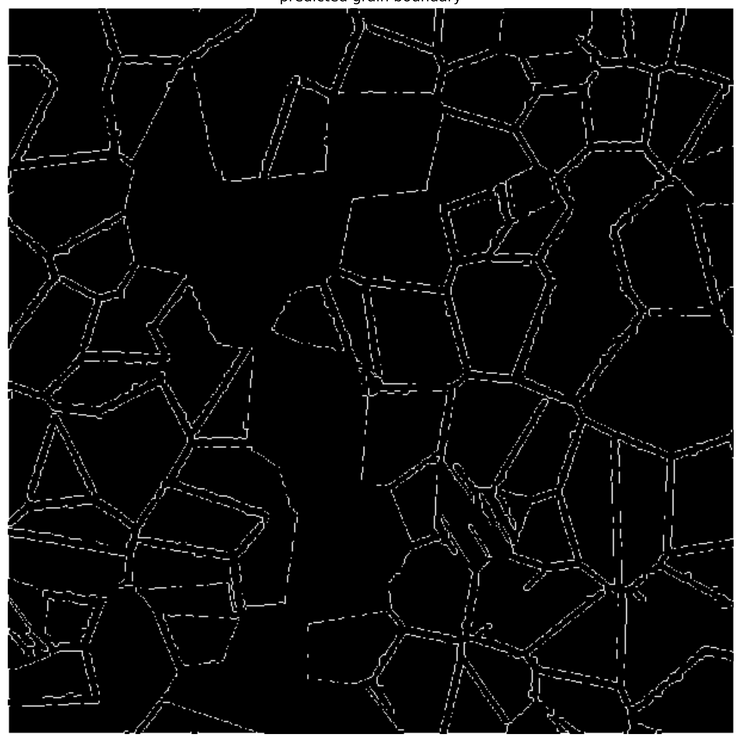
metrics

metric	correct	predicted	error
dark frac	0.228	0.219	0.867%
white frac	0.719	0.683	3.595%
line frac	0.054	0.039	1.501%
ave grain diameter	102.127	90.354	11.527%

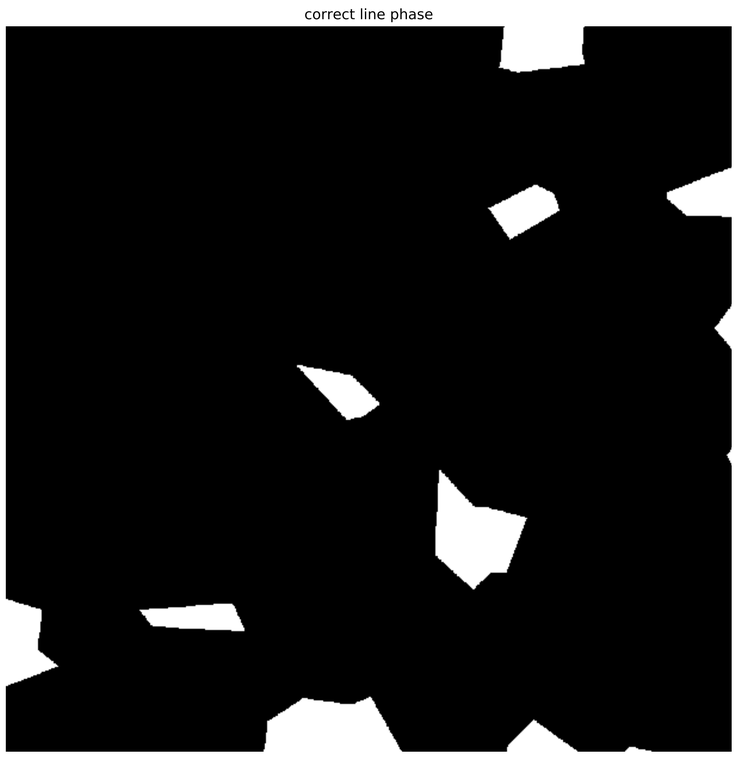
correct grain boundary



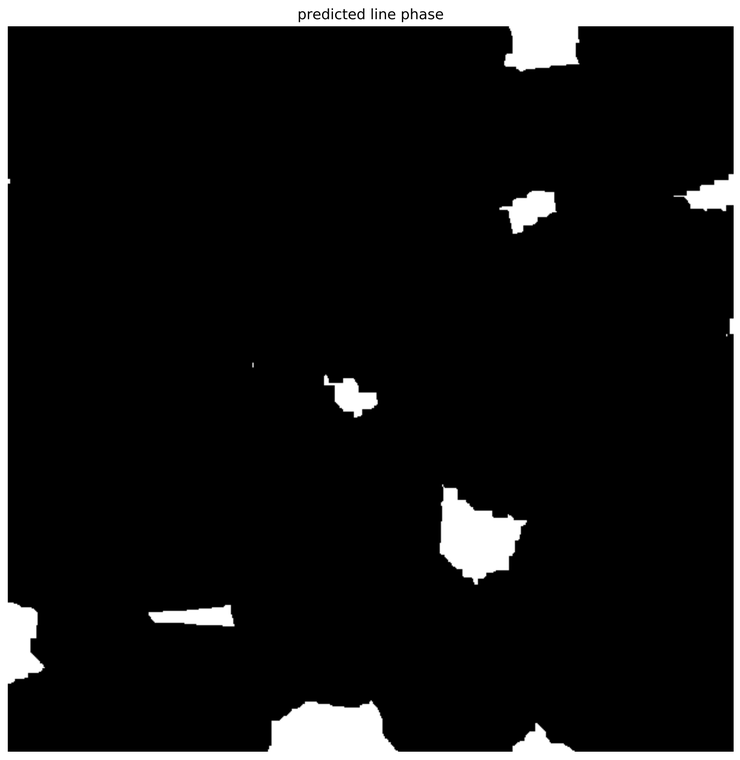
predicted grain boundary



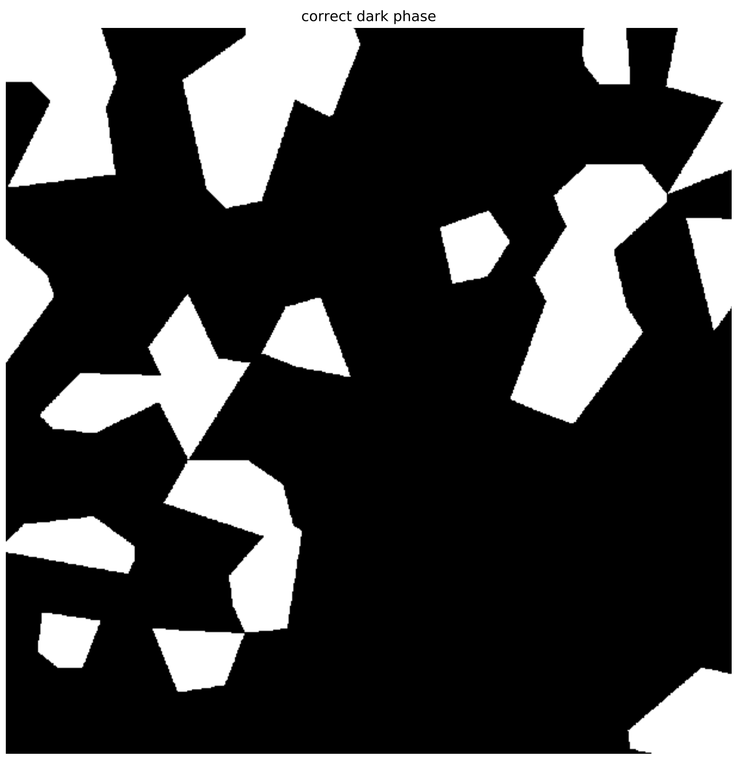
correct line phase



predicted line phase

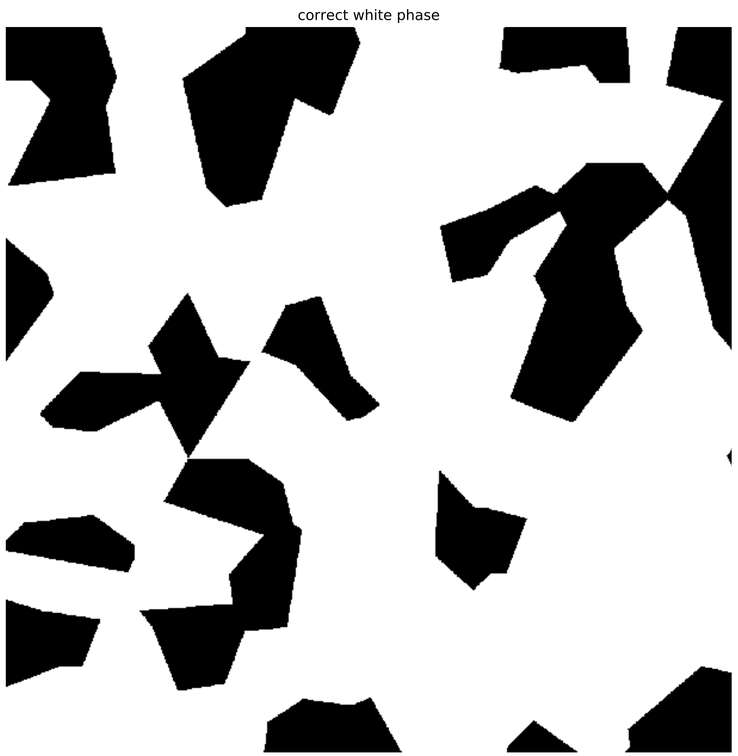


correct dark phase



predicted dark phase

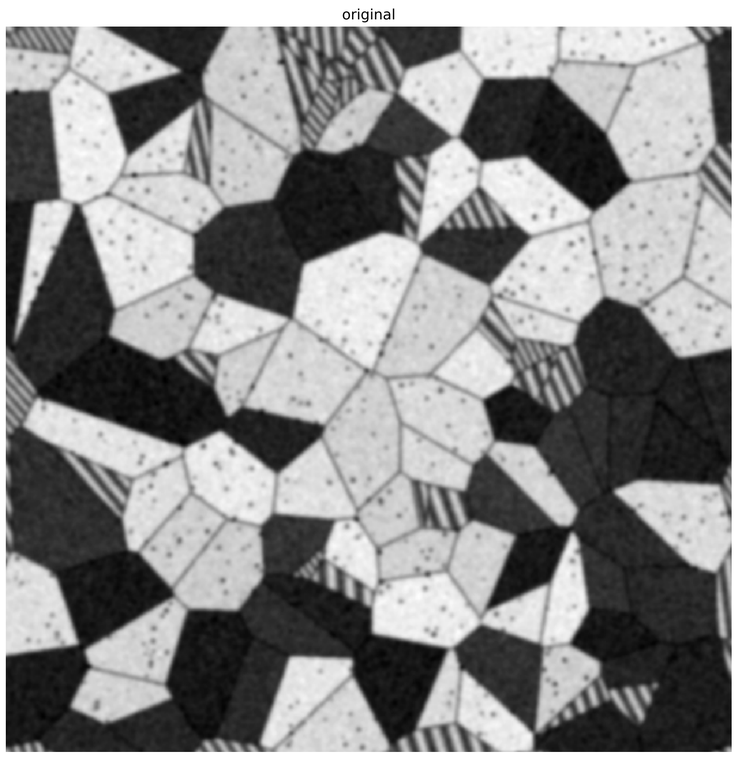
correct white phase



predicted white phase

data/base microstructure/image_41.png

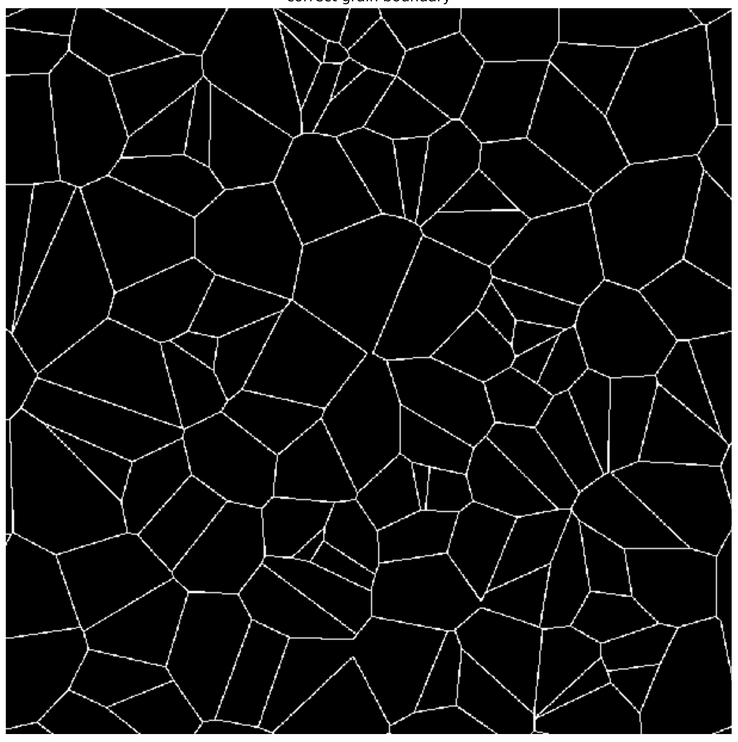
original



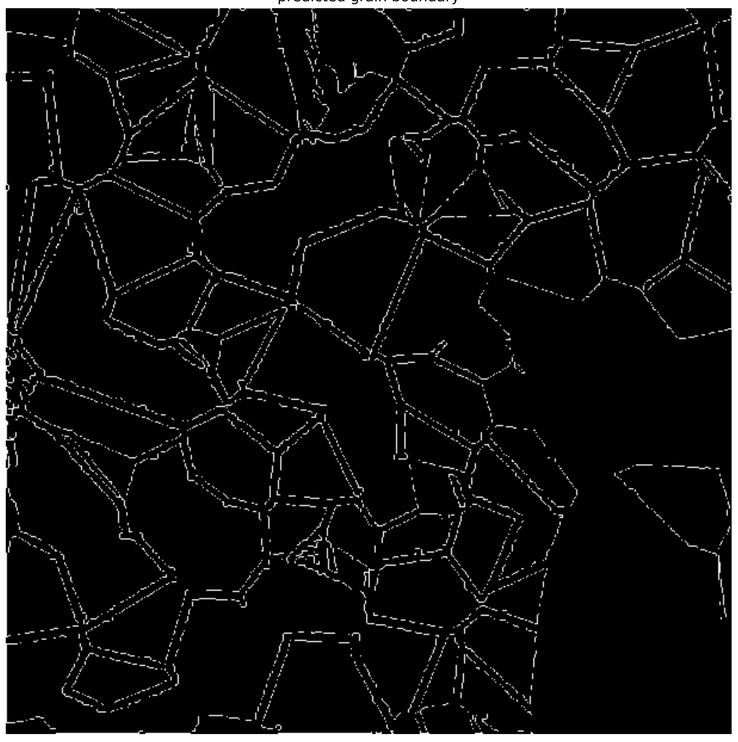
metrics

metric	correct	predicted	error
dark frac	0.404	0.394	1.013%
white frac	0.519	0.475	4.404%
line frac	0.077	0.045	3.228%
ave grain diameter	95.019	100.153	5.403%

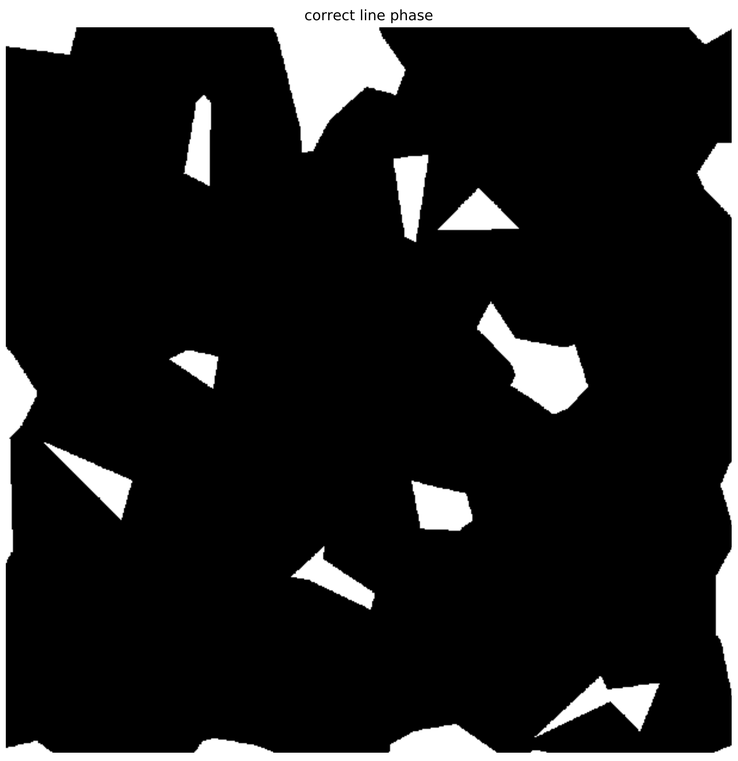
correct grain boundary



predicted grain boundary

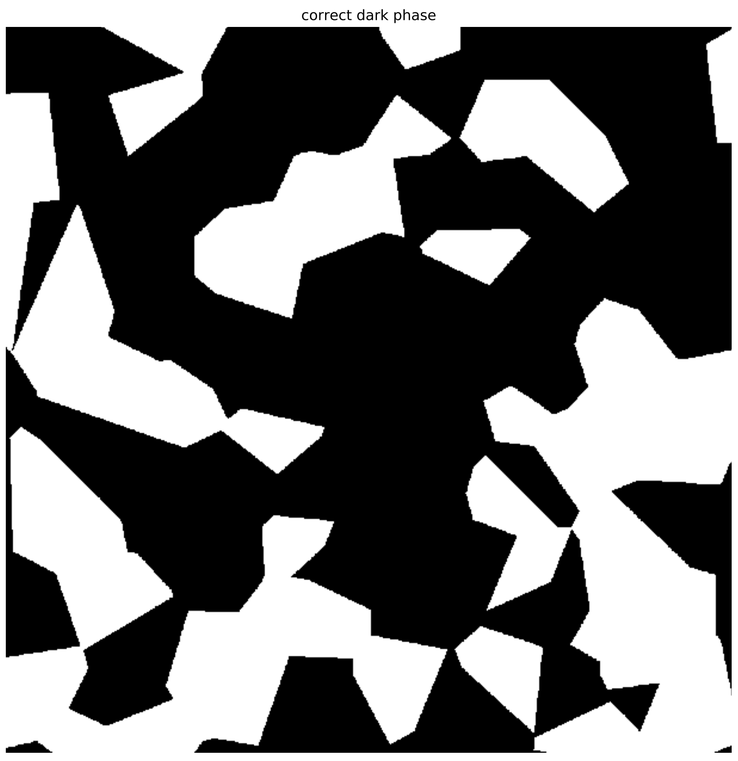


correct line phase



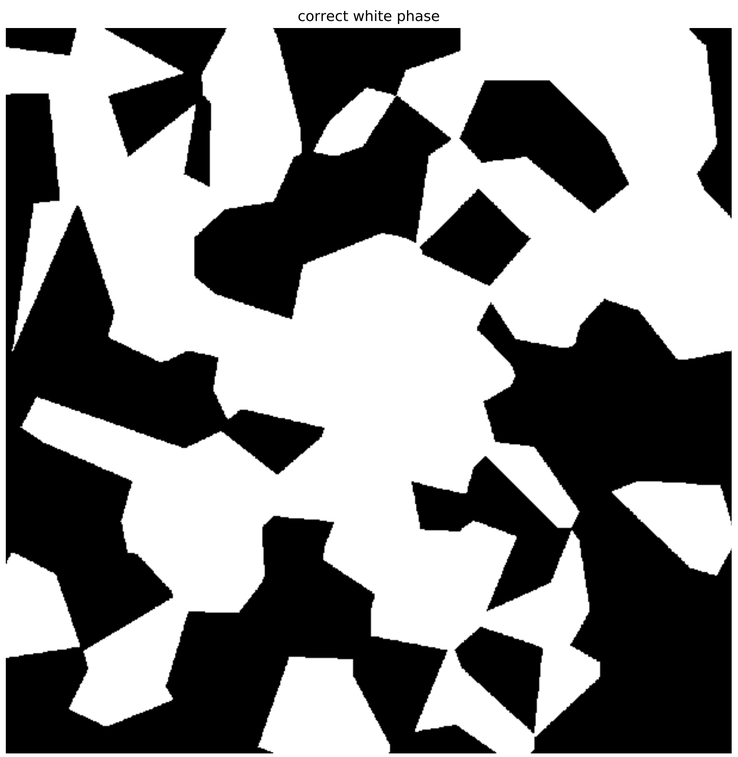
predicted line phase

correct dark phase



predicted dark phase

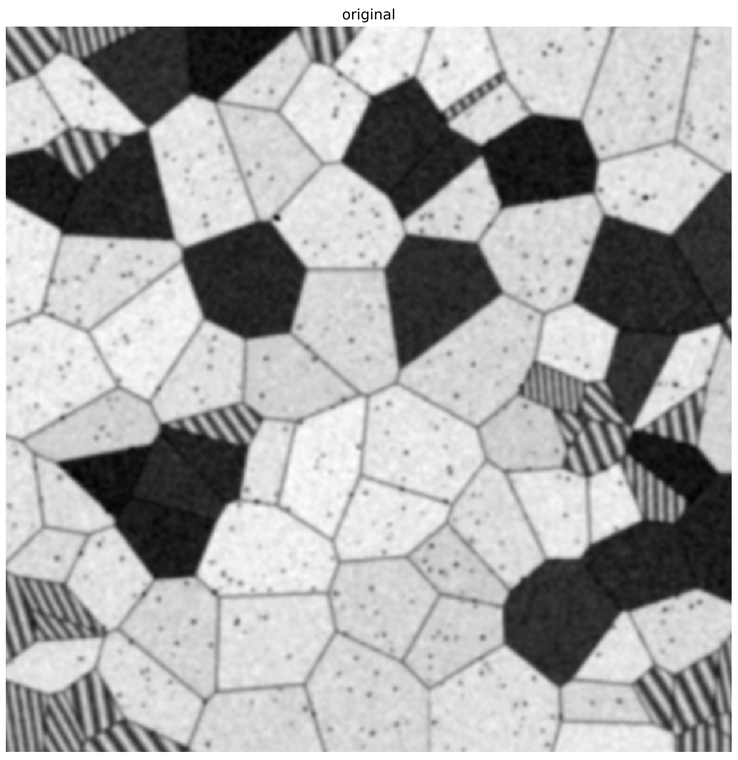
correct white phase



predicted white phase

data/base microstructure/image_42.png

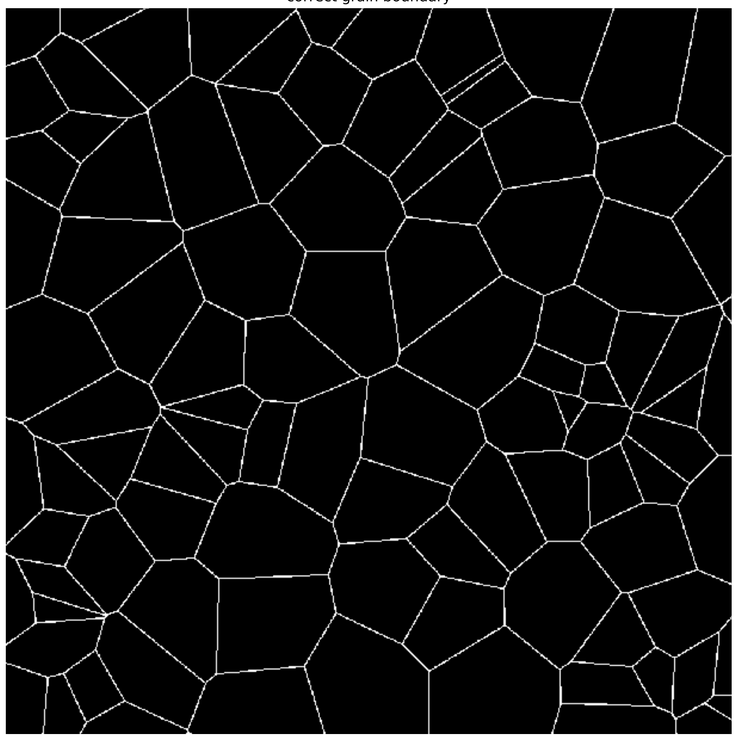
original



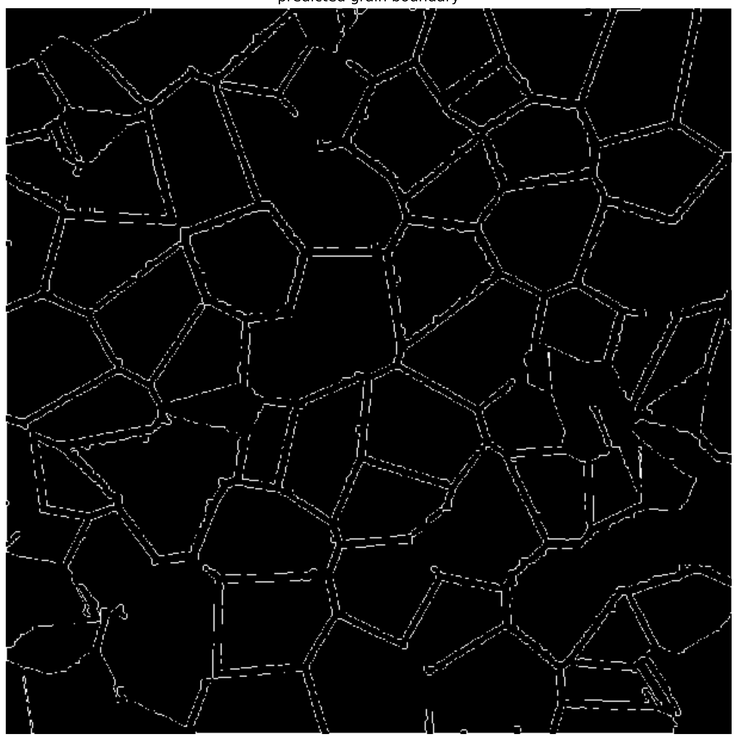
metrics

metric	correct	predicted	error
dark frac	0.233	0.227	0.680%
white frac	0.684	0.653	3.072%
line frac	0.083	0.063	1.983%
ave grain diameter	108.490	107.815	0.622%

correct grain boundary



predicted grain boundary



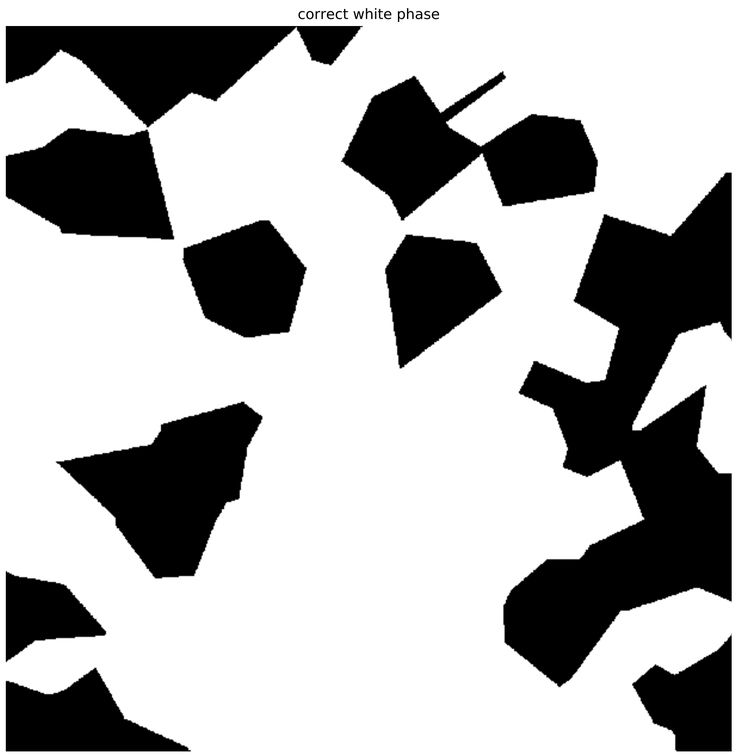
correct line phase

predicted line phase

correct dark phase

predicted dark phase

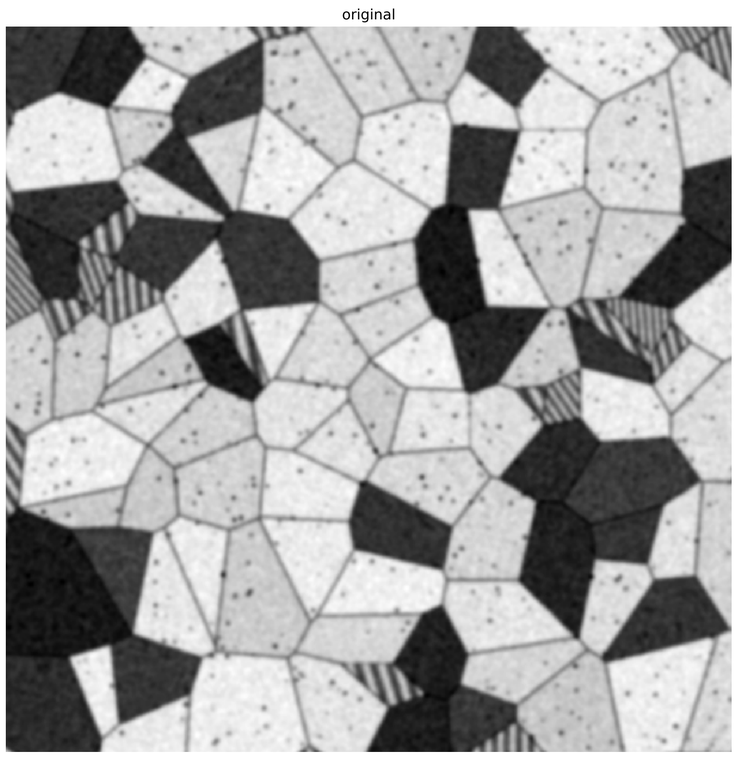
correct white phase



predicted white phase

data/base microstructure/image_43.png

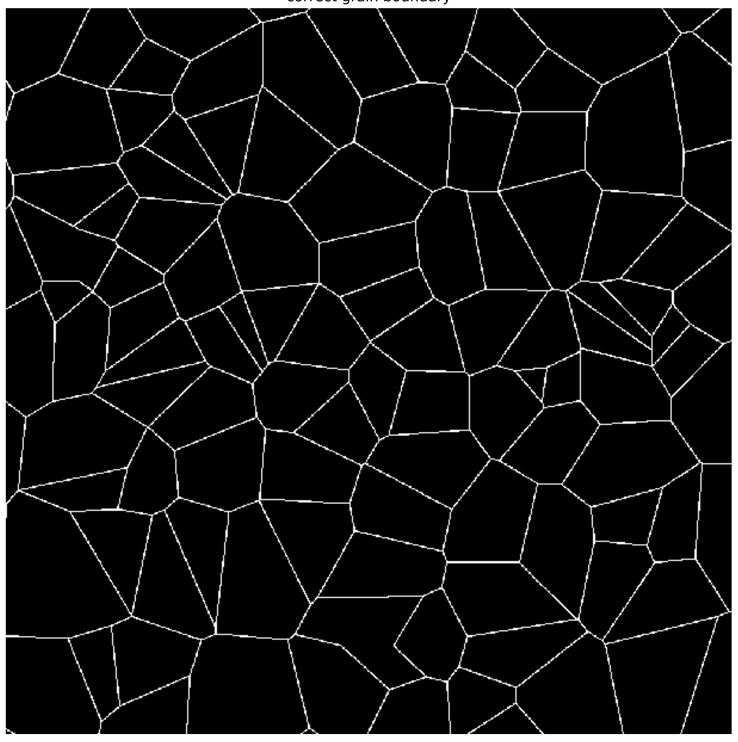
original



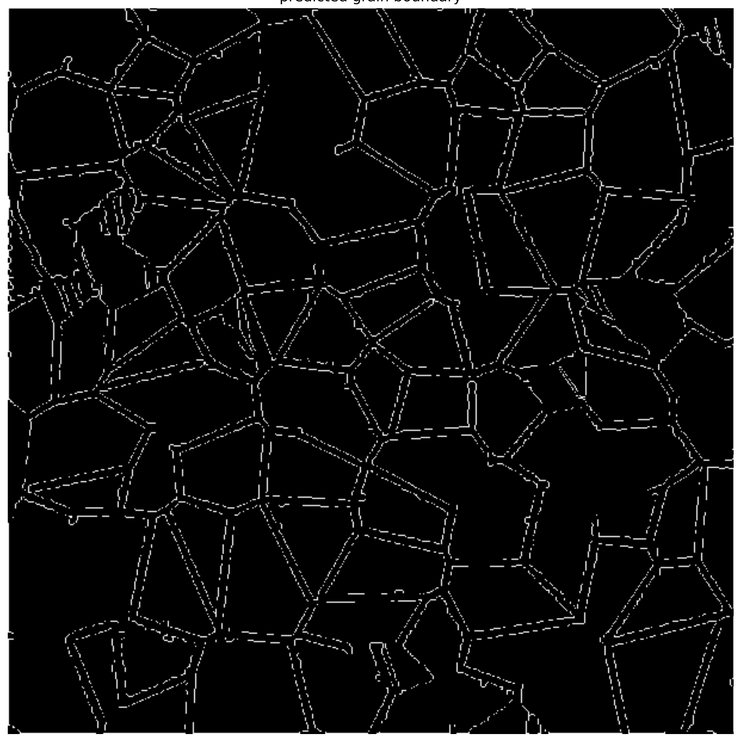
metrics

metric	correct	predicted	error
dark frac	0.277	0.271	0.587%
white frac	0.675	0.632	4.280%
line frac	0.048	0.030	1.831%
ave grain diameter	102.620	91.638	10.702%

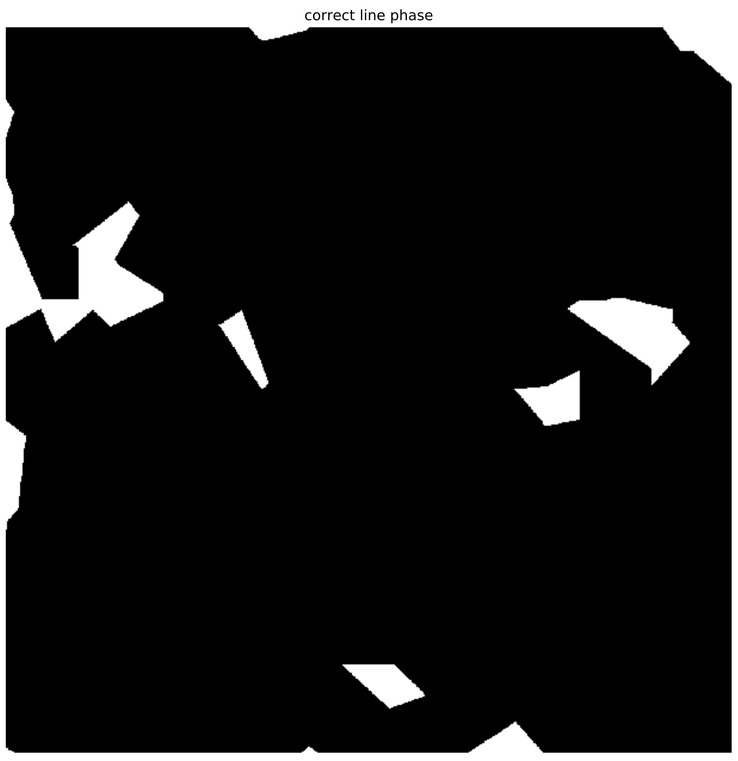
correct grain boundary



predicted grain boundary

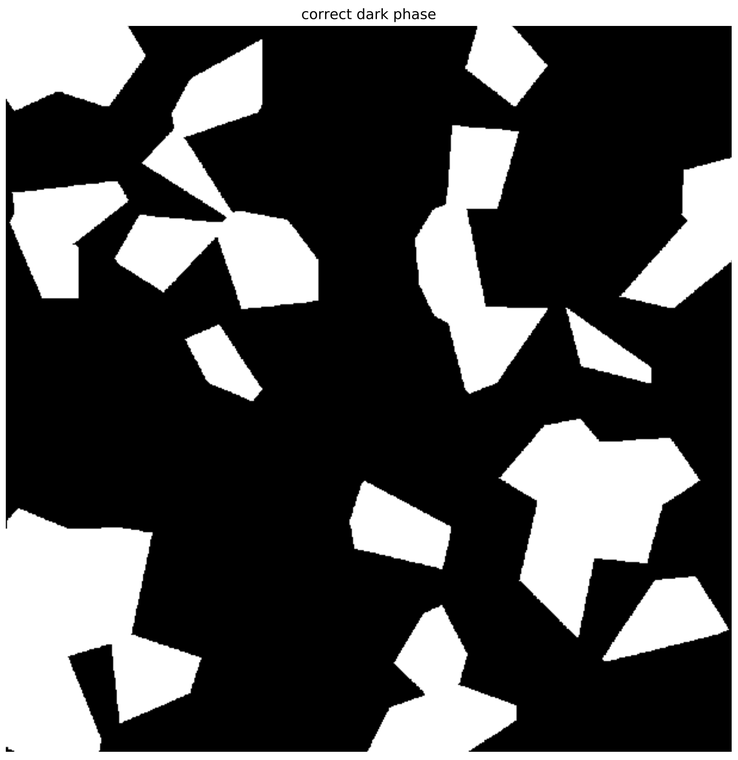


correct line phase



predicted line phase

correct dark phase



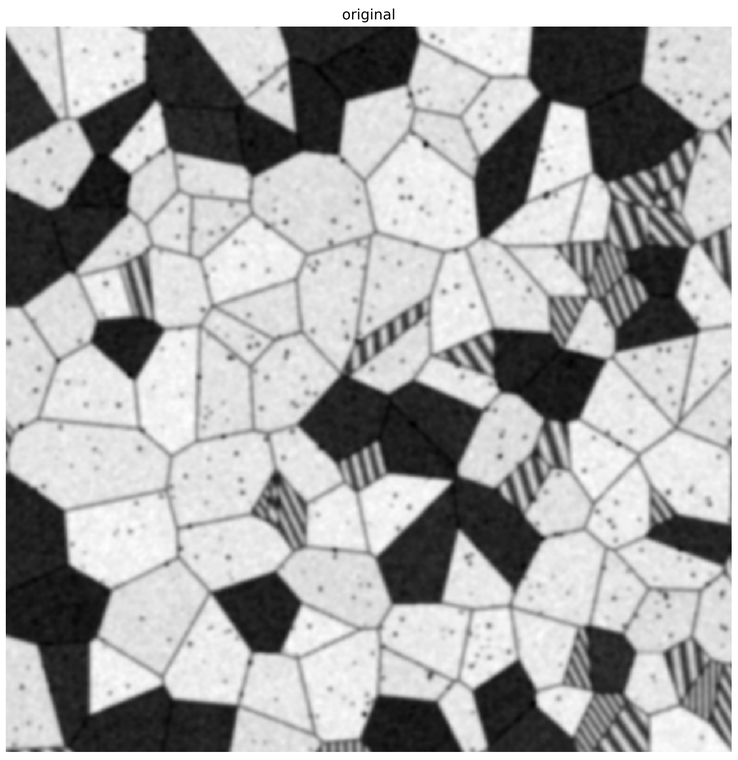
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_44.png

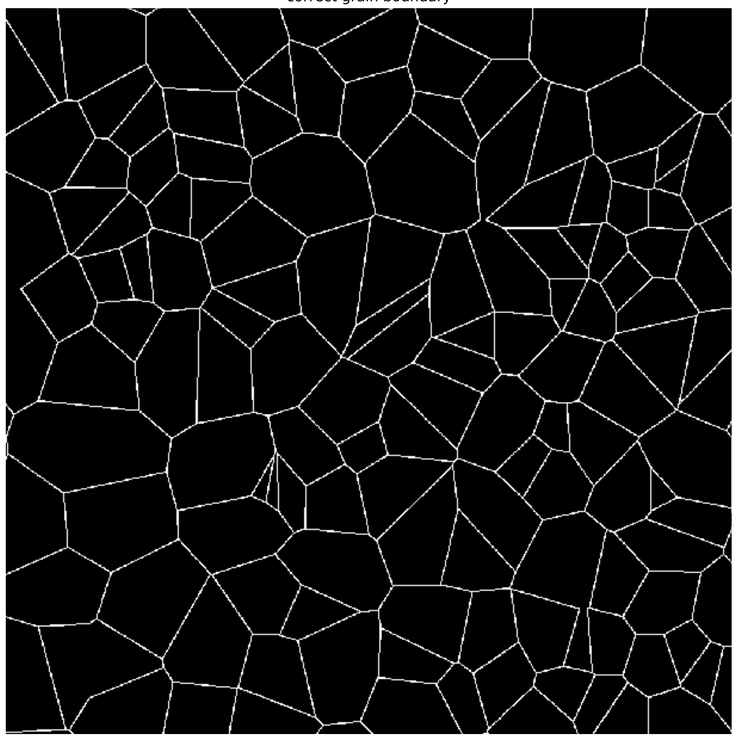
original



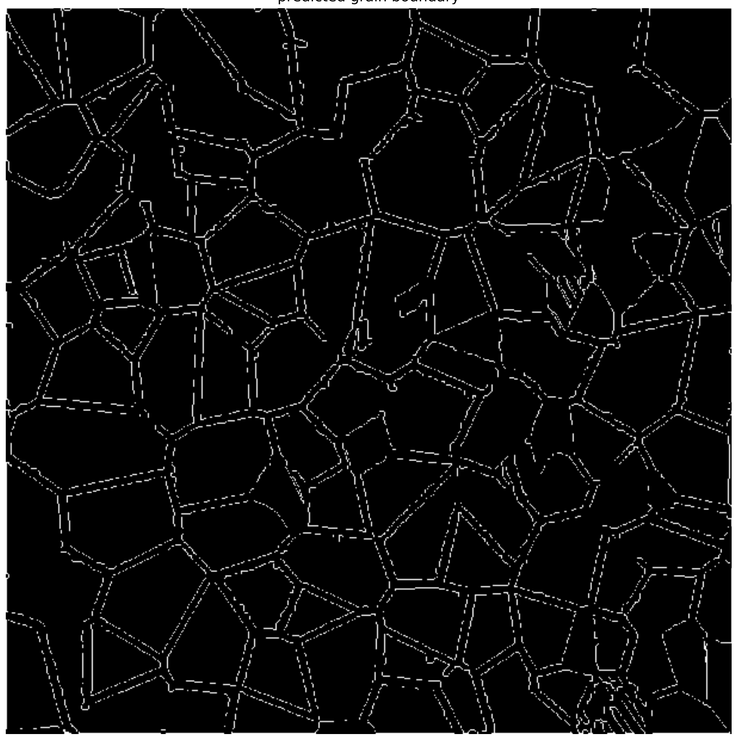
metrics

metric	correct	predicted	error
dark frac	0.264	0.254	0.906%
white frac	0.669	0.626	4.260%
line frac	0.068	0.043	2.489%
ave grain diameter	91.308	83.596	8.446%

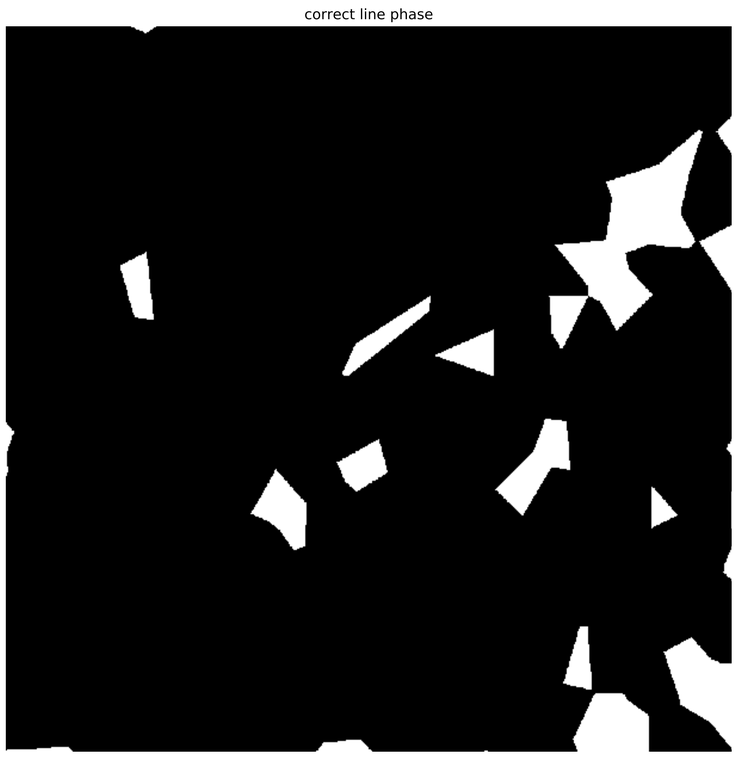
correct grain boundary



predicted grain boundary



correct line phase

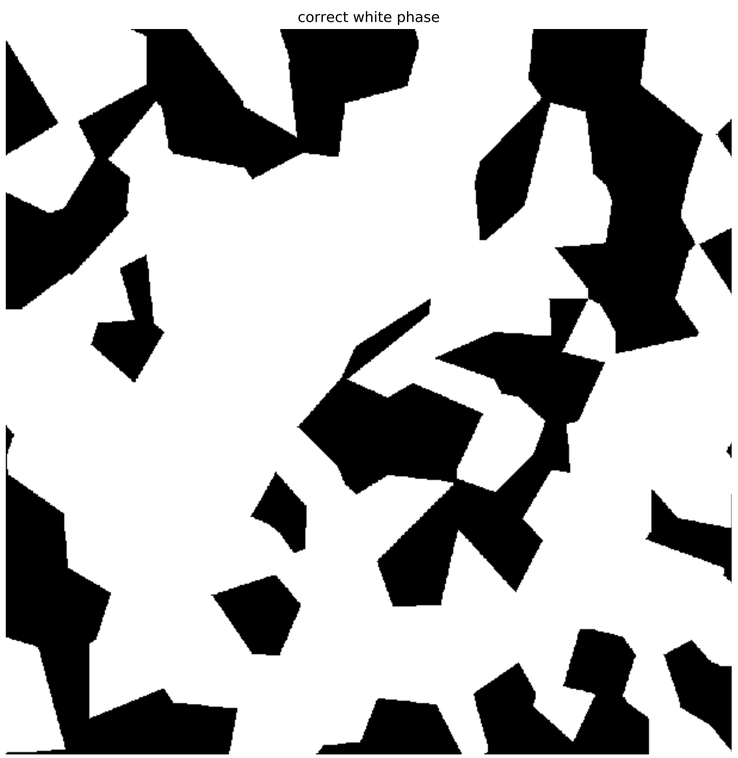


predicted line phase

correct dark phase

predicted dark phase

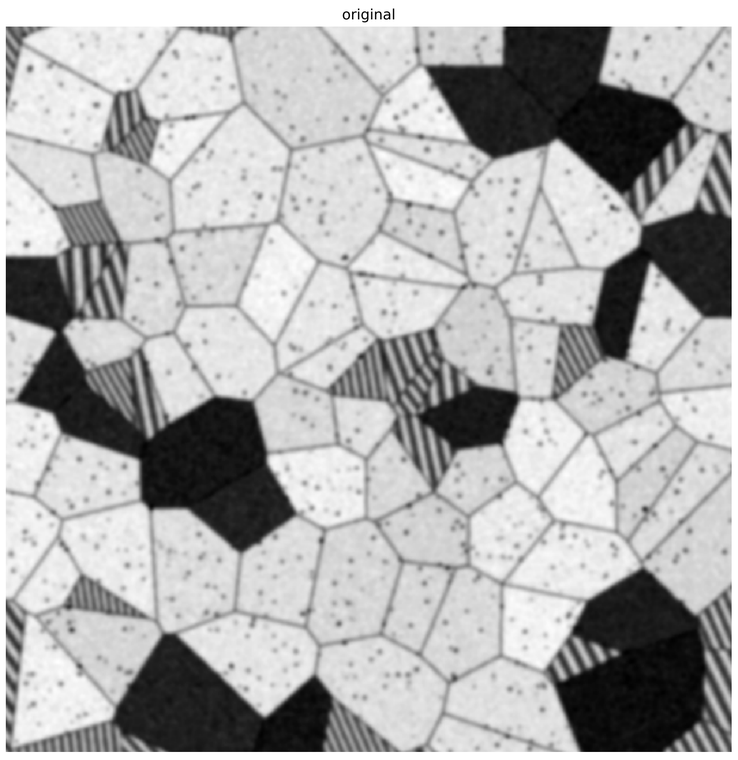
correct white phase



predicted white phase

data/base microstructure/image_45.png

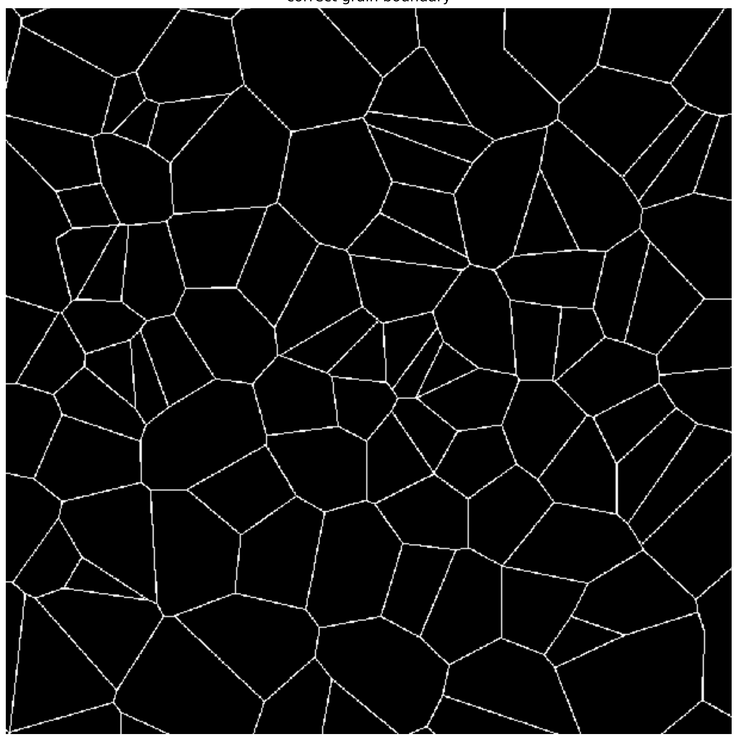
original



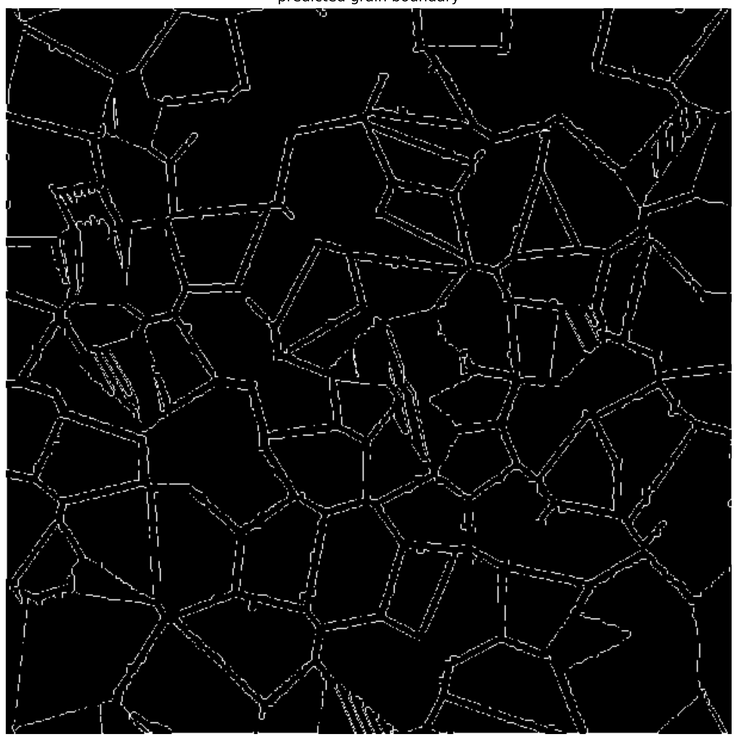
metrics

metric	correct	predicted	error
dark frac	0.184	0.181	0.210%
white frac	0.730	0.704	2.549%
line frac	0.087	0.058	2.896%
ave grain diameter	102.664	96.443	6.059%

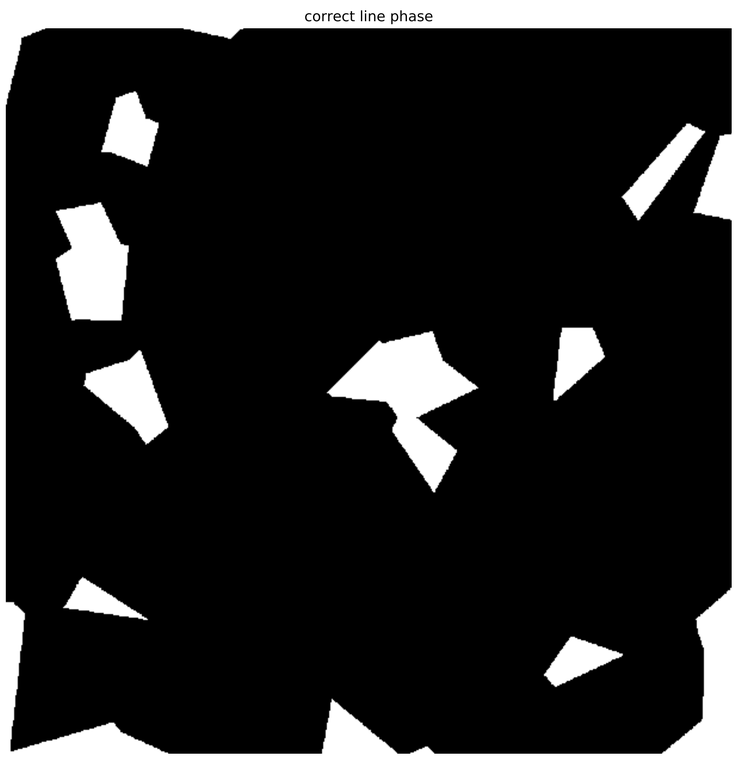
correct grain boundary



predicted grain boundary



correct line phase



predicted line phase

correct dark phase

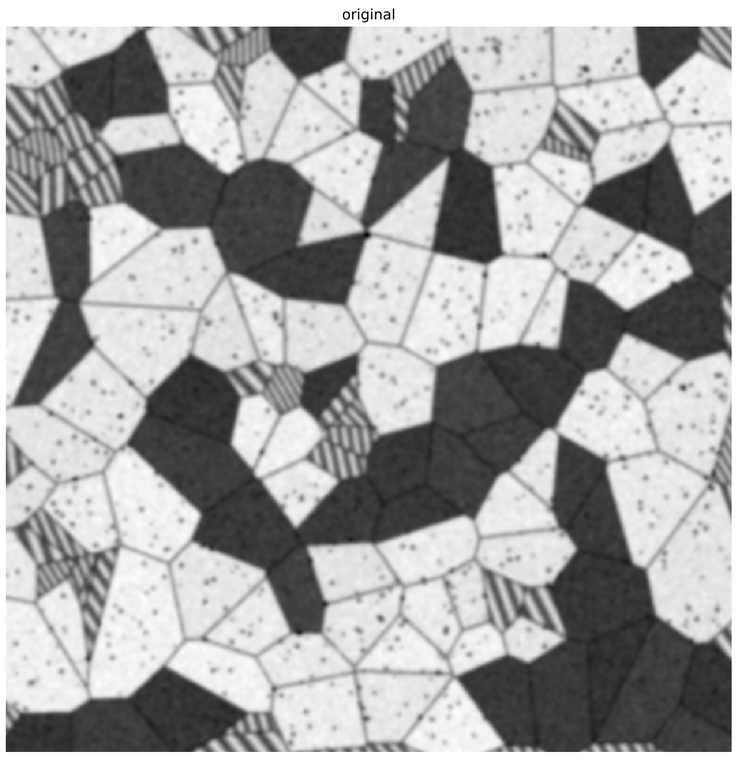
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_46.png

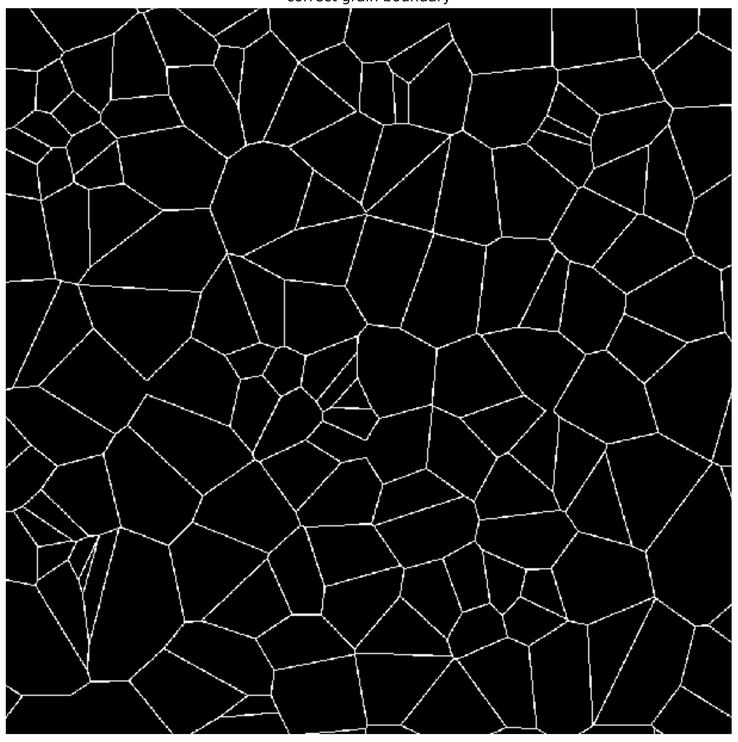
original



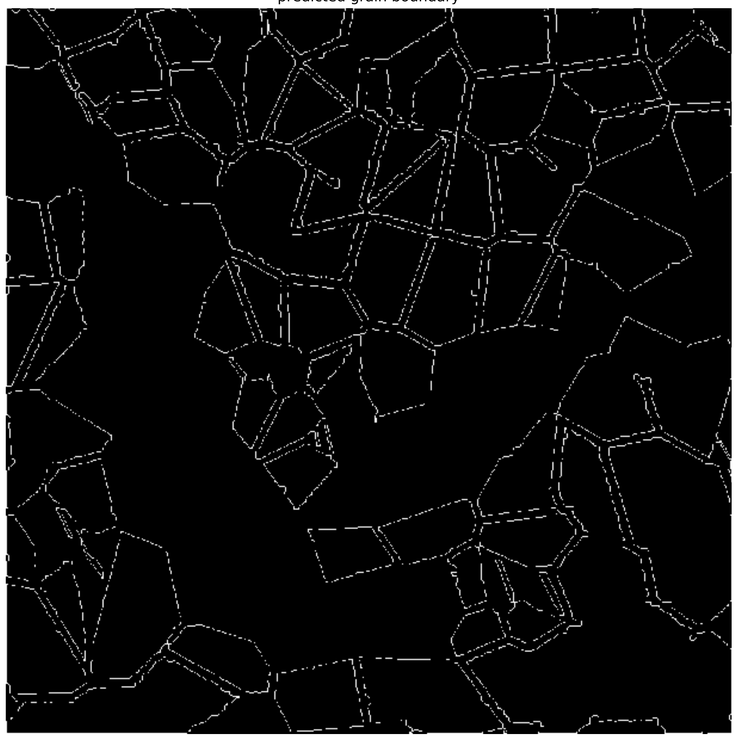
metrics

metric	correct	predicted	error
dark frac	0.333	0.325	0.869%
white frac	0.585	0.538	4.656%
line frac	0.082	0.056	2.568%
ave grain diameter	87.757	84.917	3.236%

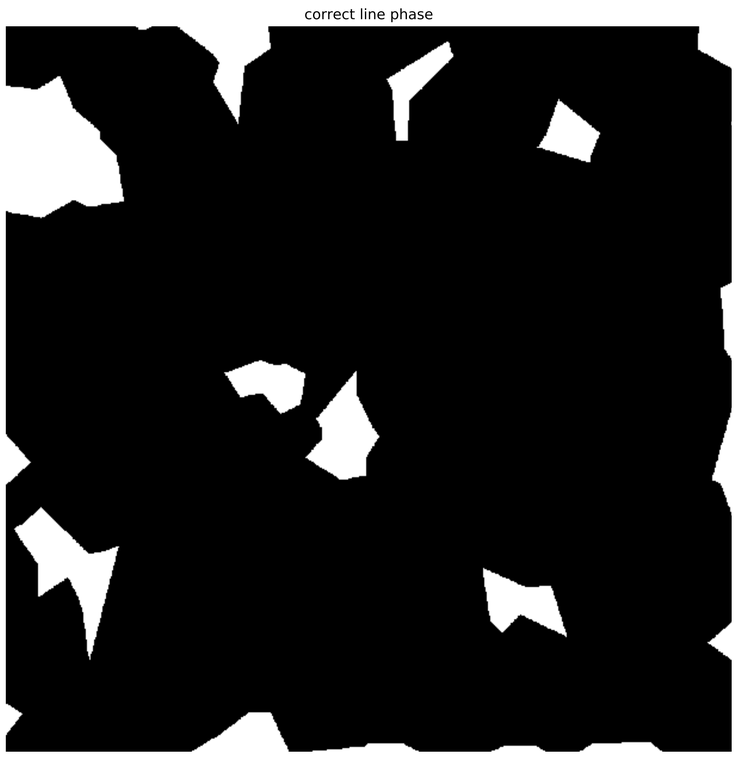
correct grain boundary



predicted grain boundary



correct line phase



predicted line phase

correct dark phase

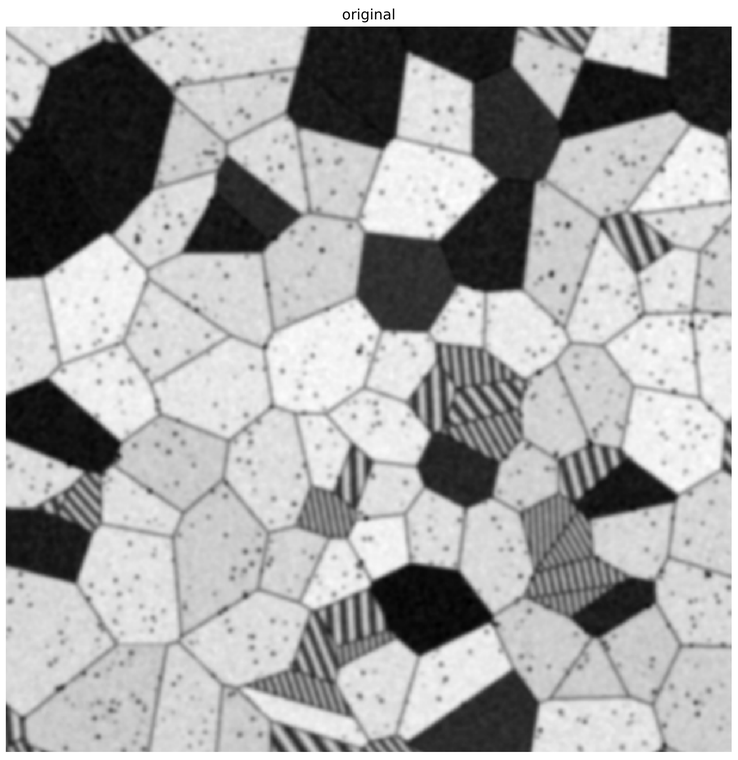
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_47.png

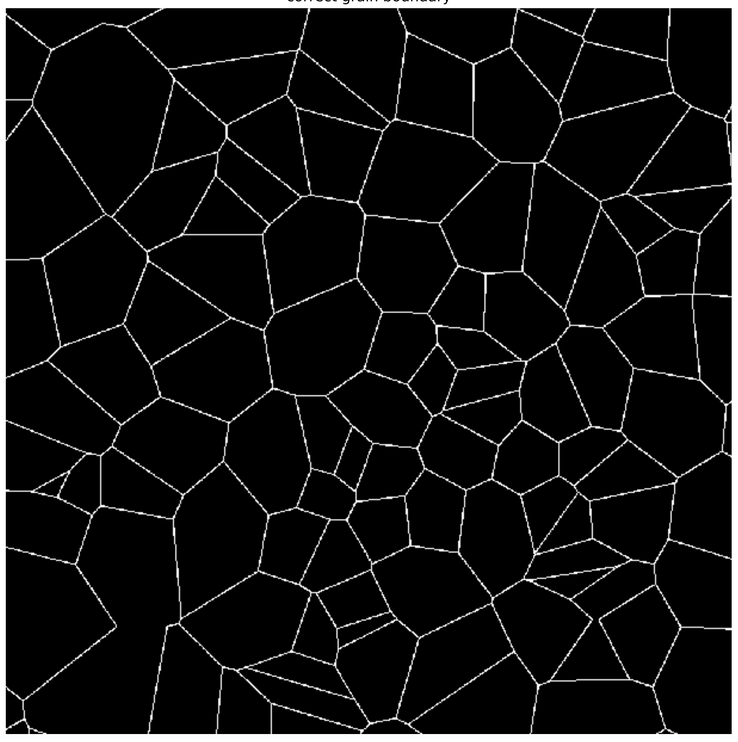
original



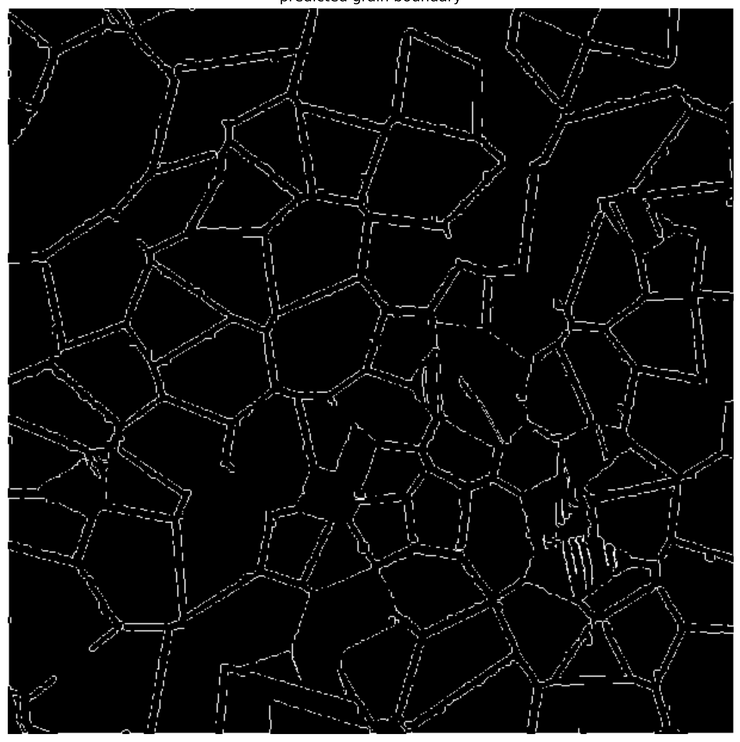
metrics

metric	correct	predicted	error
dark frac	0.224	0.217	0.659%
white frac	0.698	0.665	3.344%
line frac	0.078	0.056	2.200%
ave grain diameter	103.740	100.077	3.531%

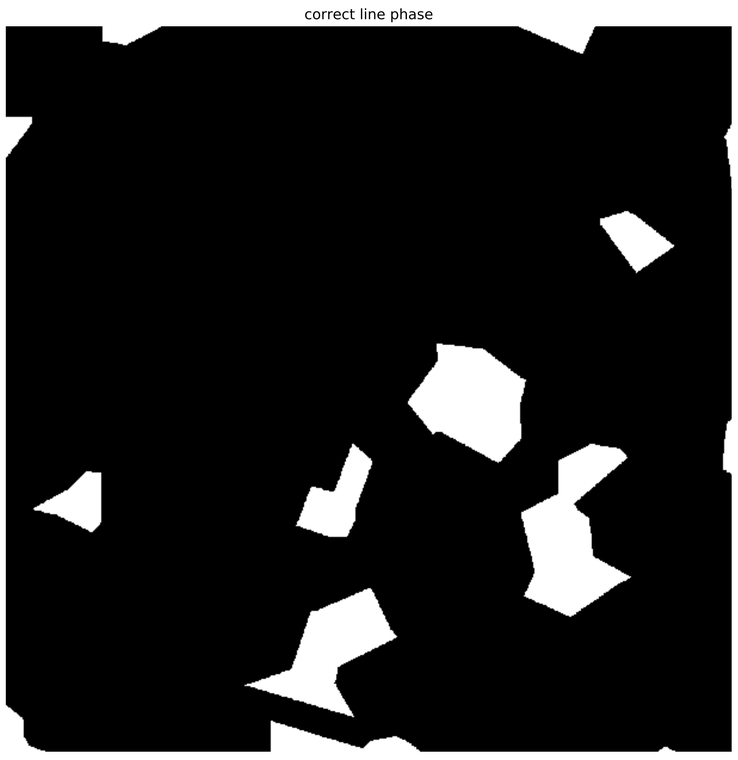
correct grain boundary



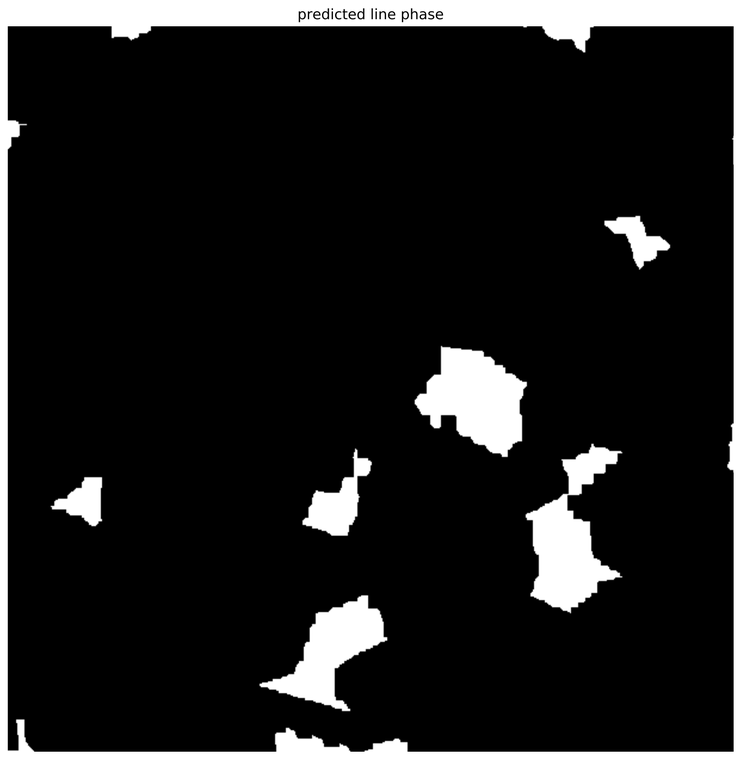
predicted grain boundary



correct line phase



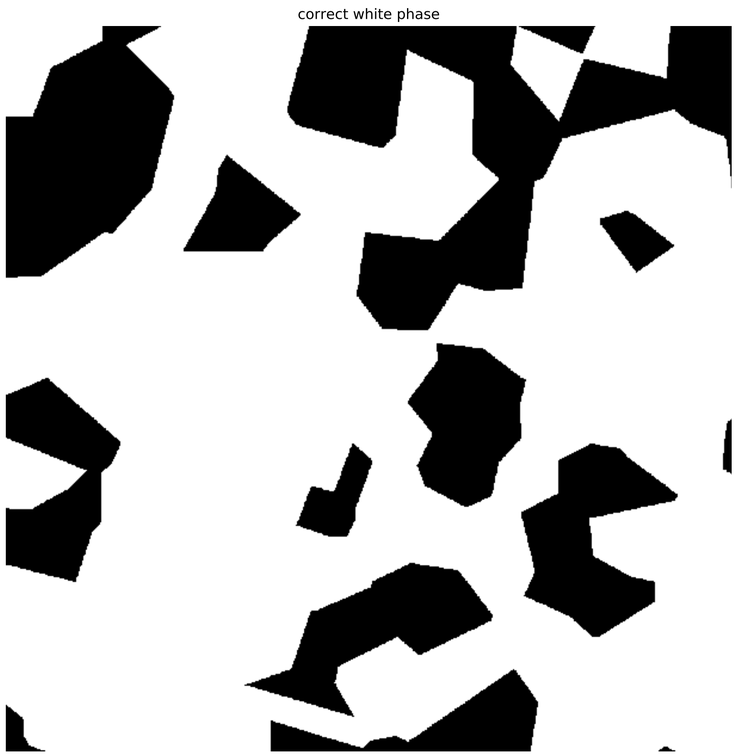
predicted line phase



correct dark phase

predicted dark phase

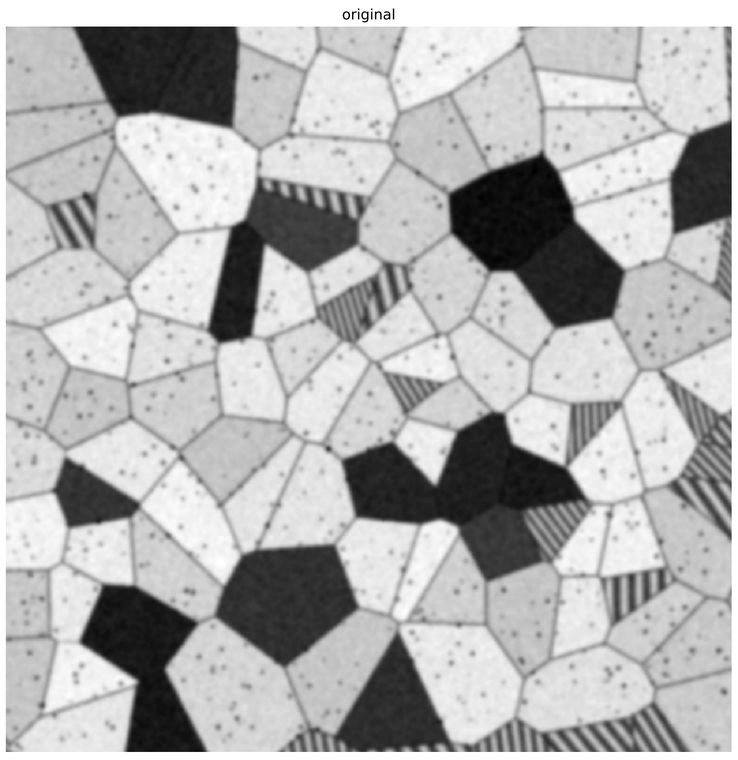
correct white phase



predicted white phase

data/base microstructure/image_48.png

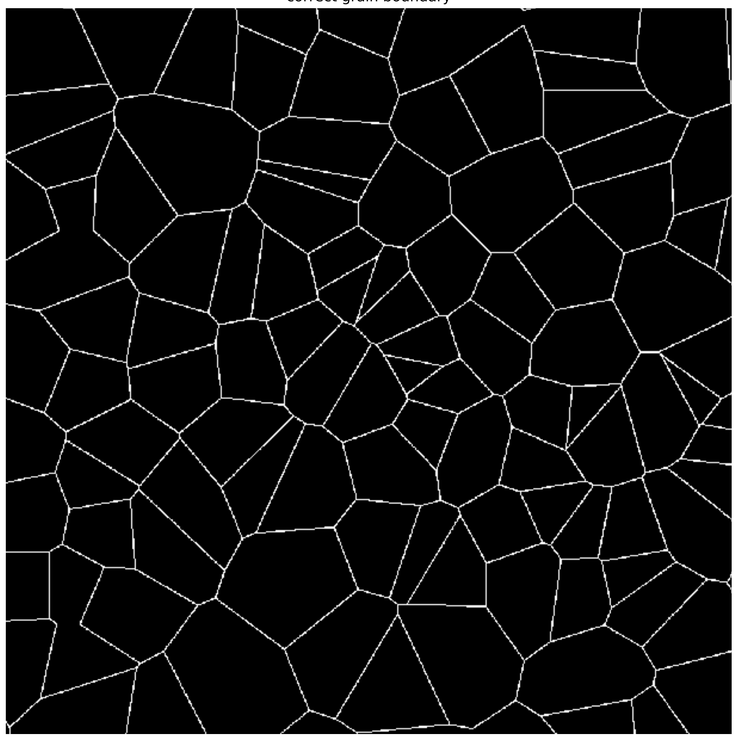
original



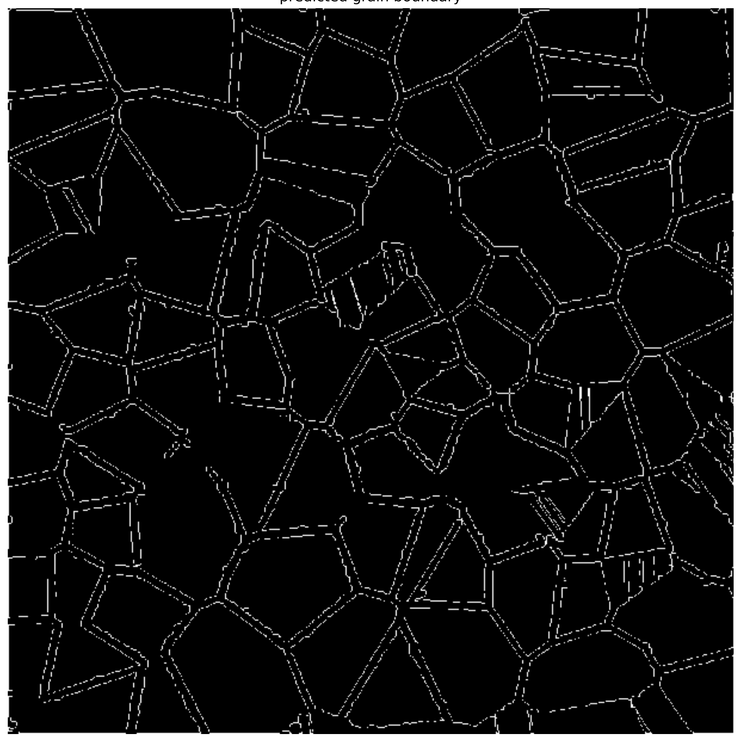
metrics

metric	correct	predicted	error
dark frac	0.182	0.175	0.747%
white frac	0.762	0.732	3.019%
line frac	0.055	0.037	1.846%
ave grain diameter	103.324	96.385	6.716%

correct grain boundary



predicted grain boundary



correct line phase

predicted line phase

correct dark phase

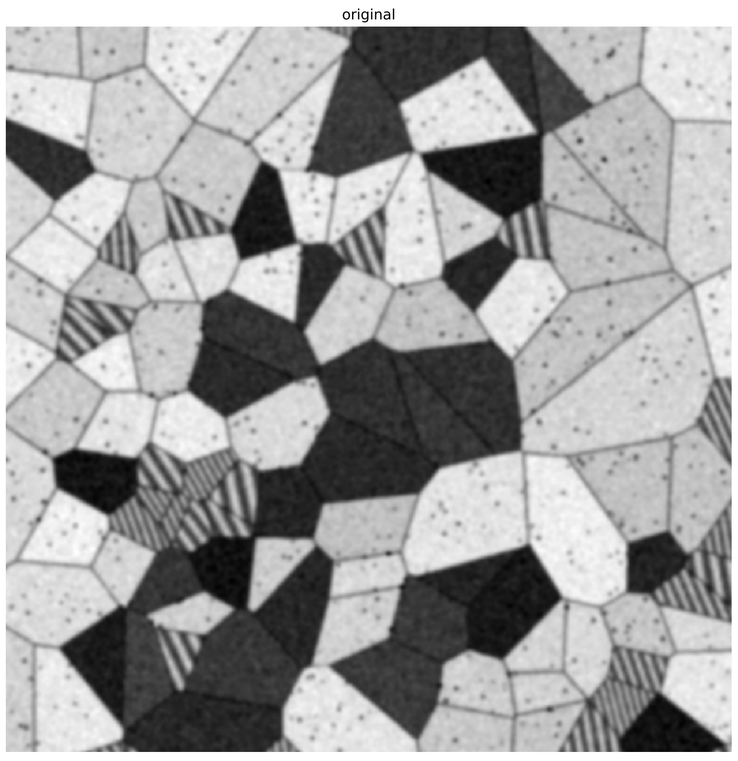
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_49.png

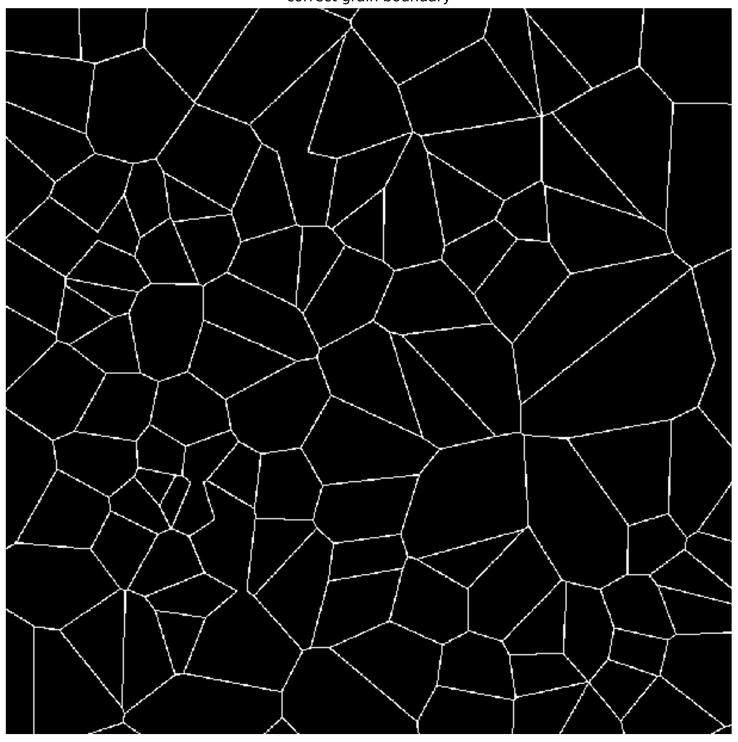
original



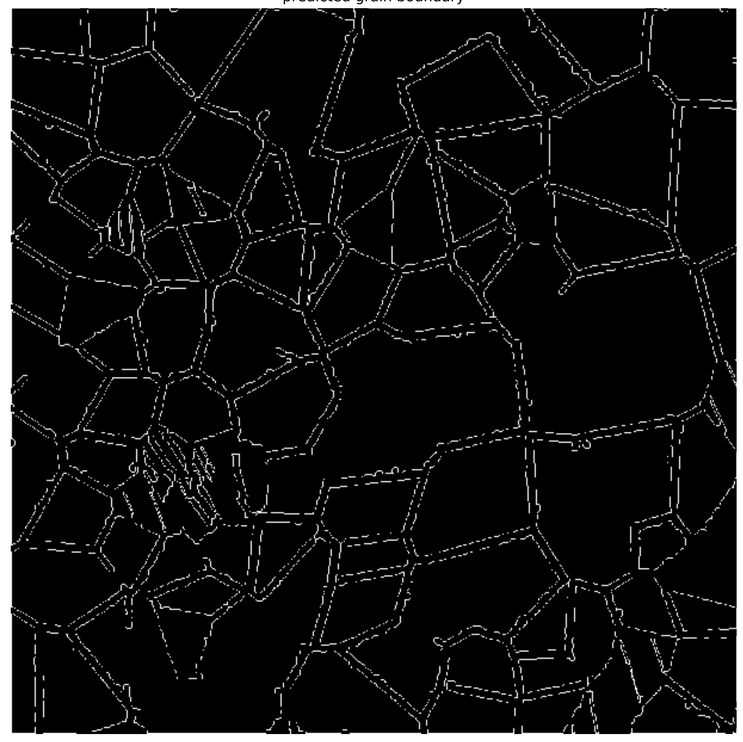
metrics

metric	correct	predicted	error
dark frac	0.272	0.266	0.671%
white frac	0.657	0.616	4.116%
line frac	0.071	0.049	2.138%
ave grain diameter	98.725	92.780	6.022%

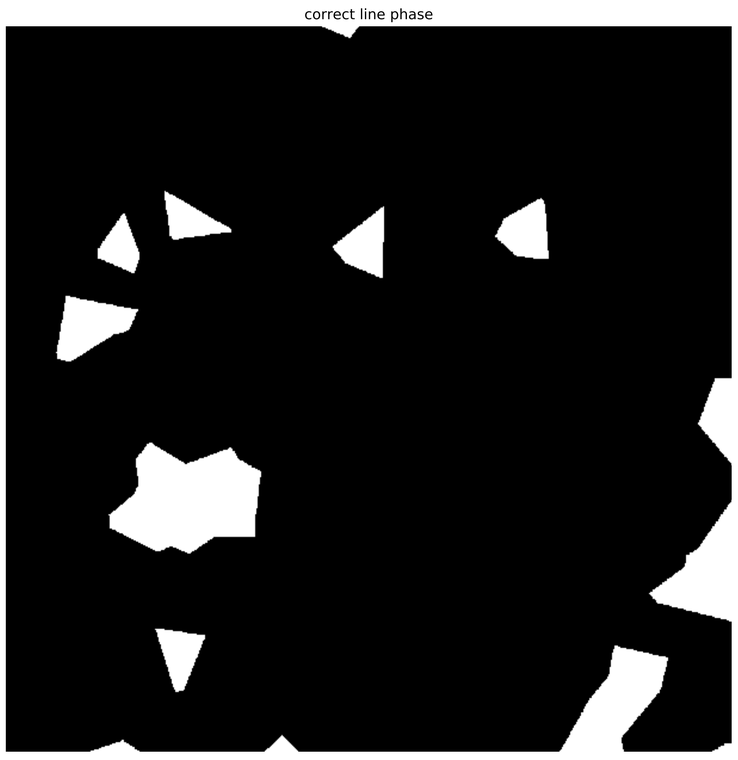
correct grain boundary



predicted grain boundary

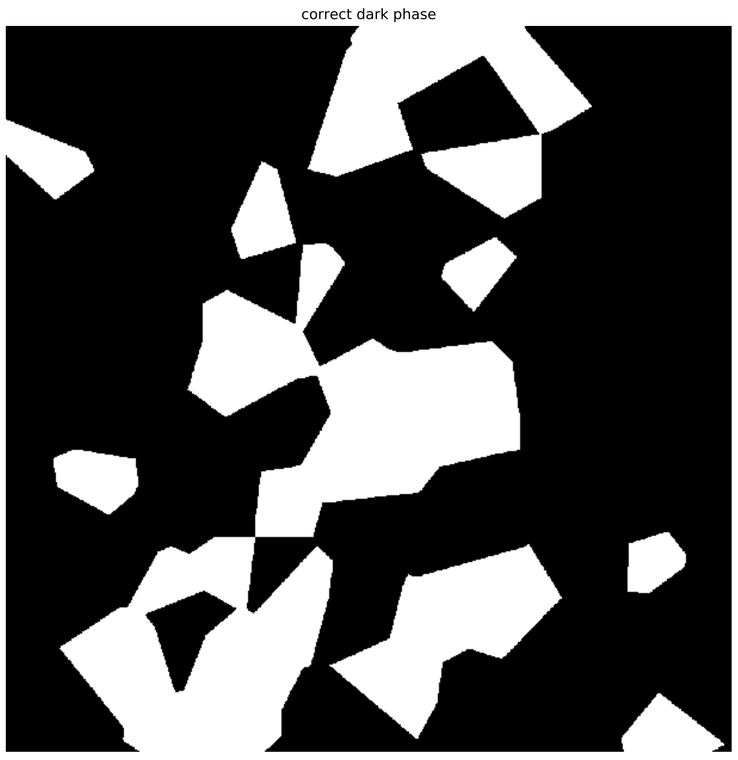


correct line phase



predicted line phase

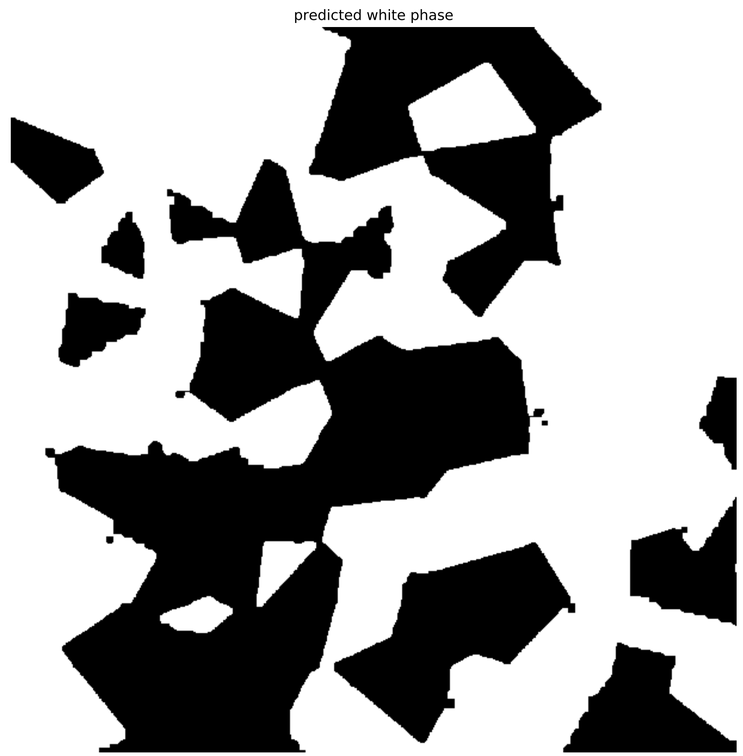
correct dark phase



predicted dark phase

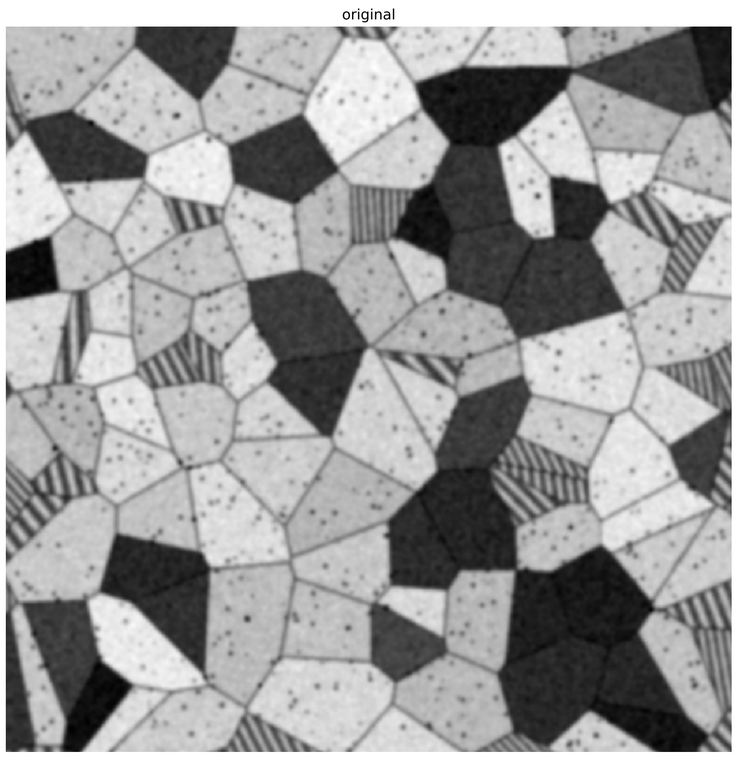
correct white phase

predicted white phase



data/base microstructure/image_5.png

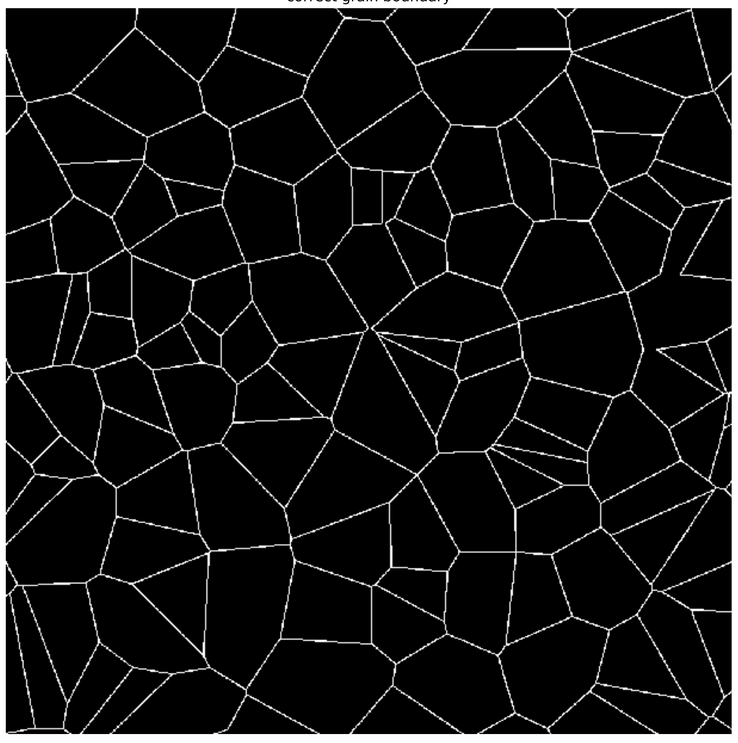
original



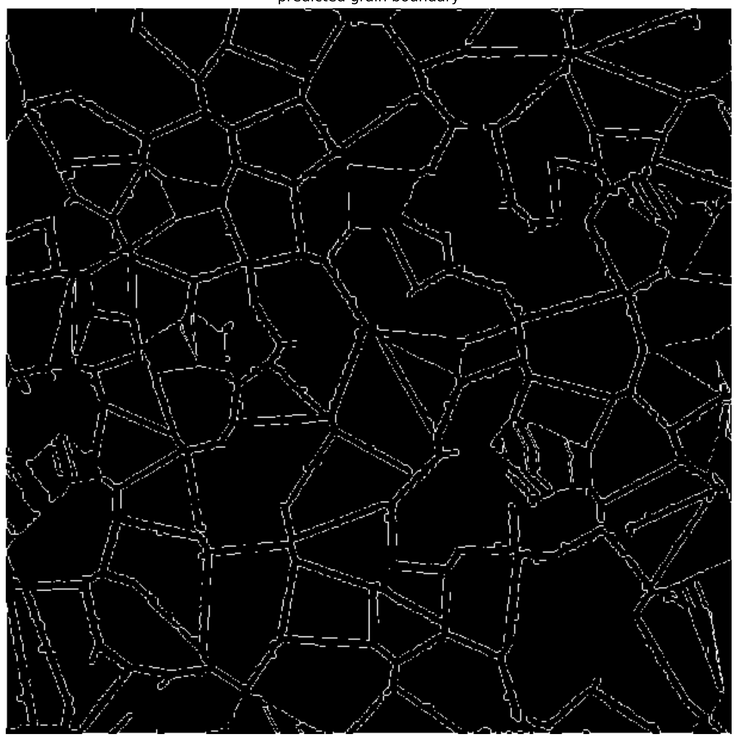
metrics

metric	correct	predicted	error
dark frac	0.266	0.258	0.750%
white frac	0.660	0.607	5.259%
line frac	0.074	0.052	2.176%
ave grain diameter	96.888	93.475	3.522%

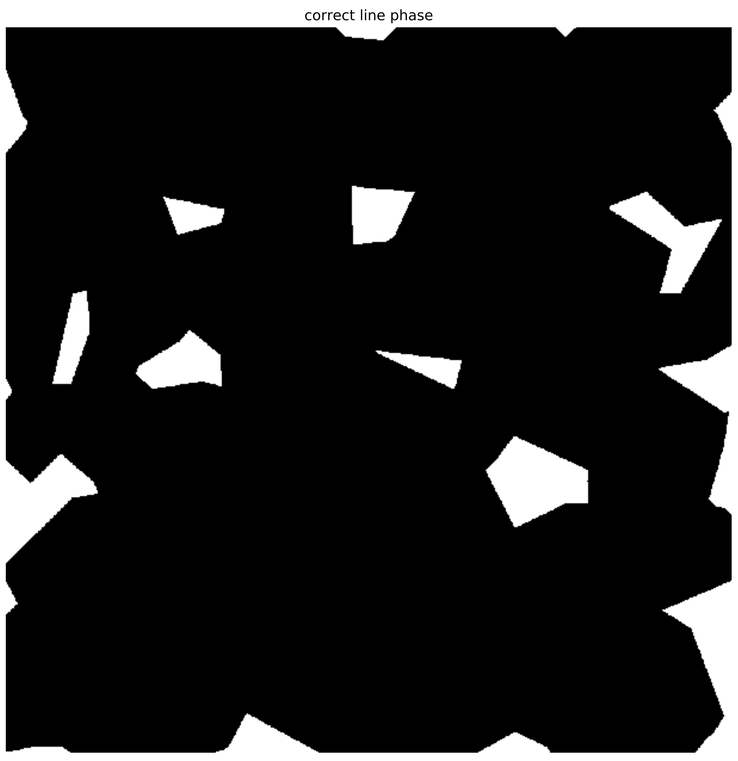
correct grain boundary



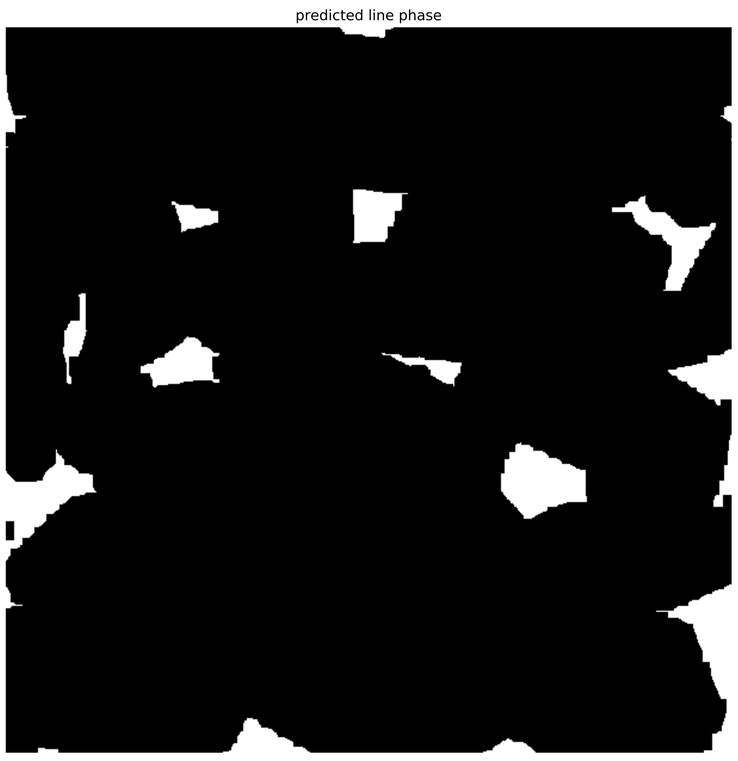
predicted grain boundary



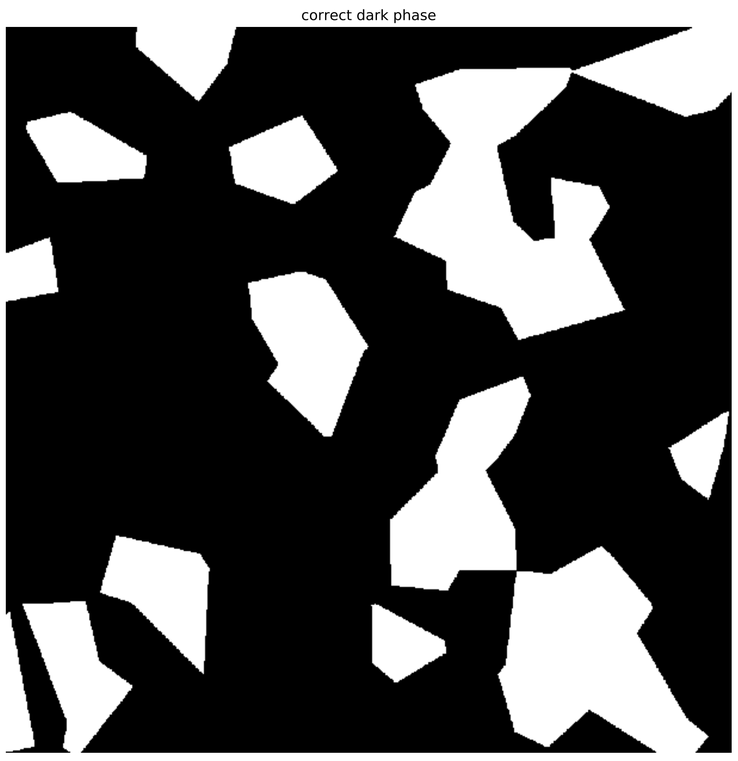
correct line phase



predicted line phase

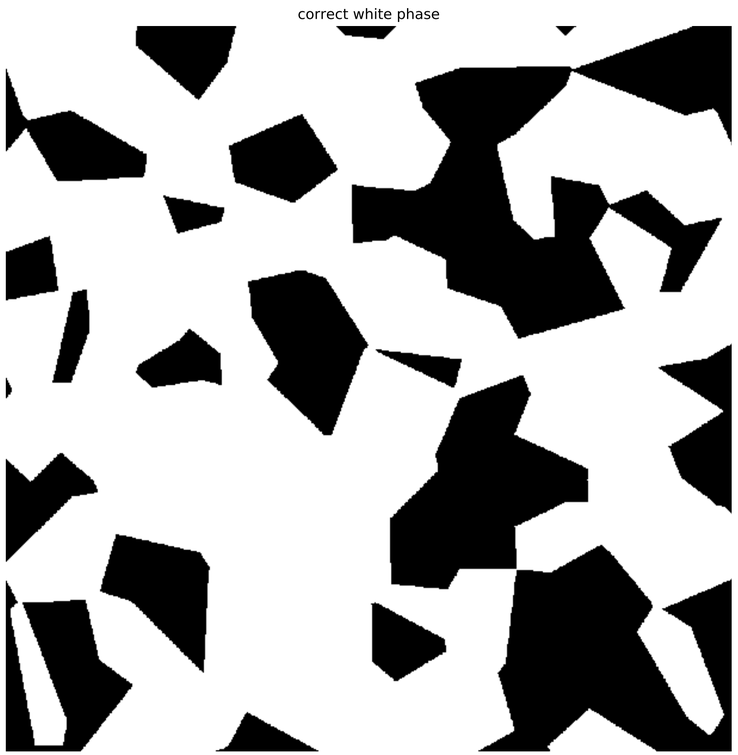


correct dark phase



predicted dark phase

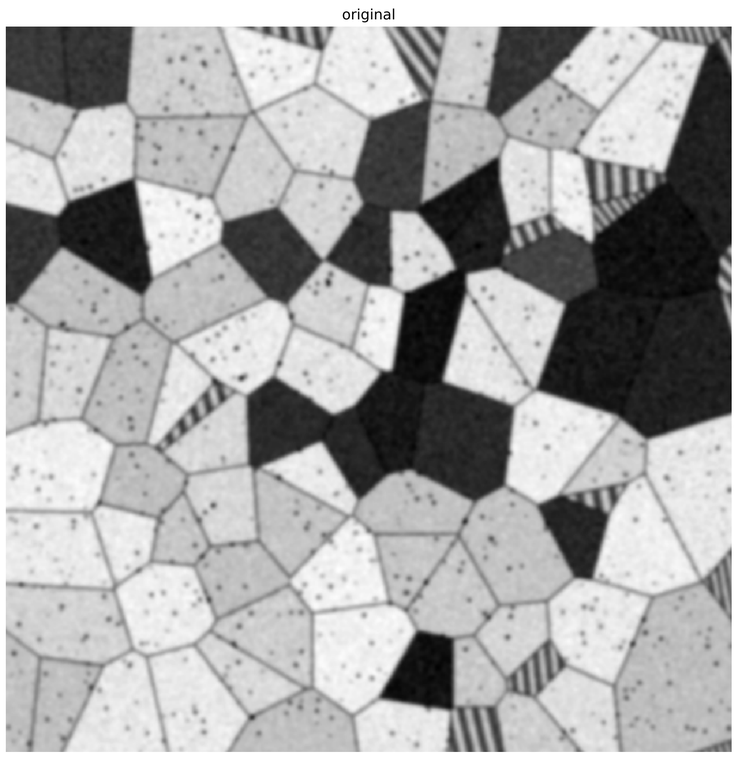
correct white phase



predicted white phase

data/base microstructure/image_50.png

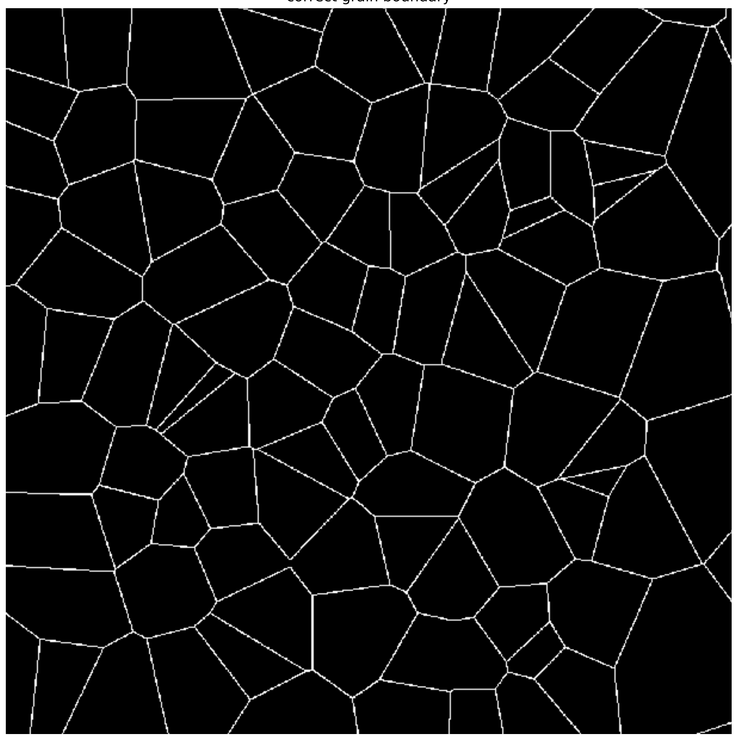
original



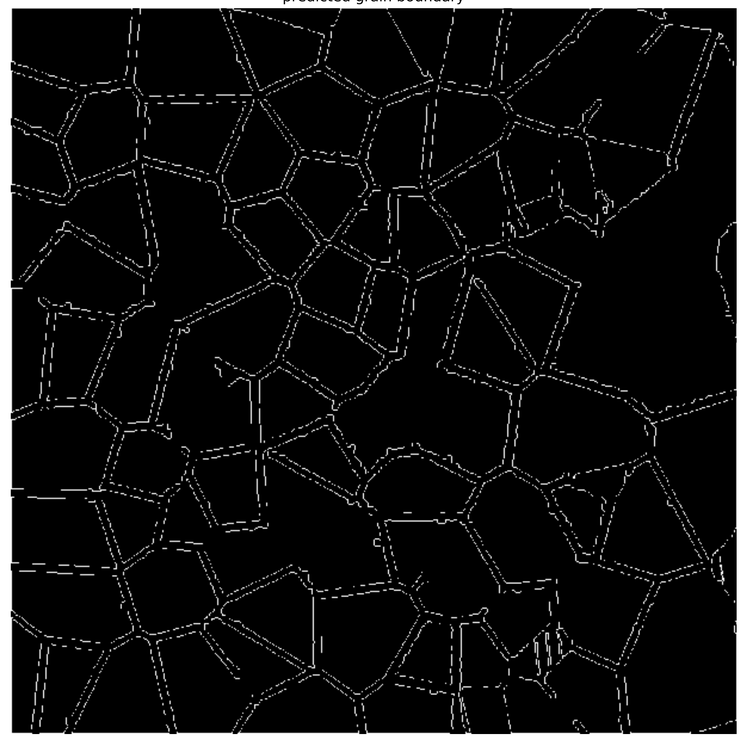
metrics

metric	correct	predicted	error
dark frac	0.239	0.231	0.771%
white frac	0.727	0.697	3.017%
line frac	0.034	0.021	1.363%
ave grain diameter	107.907	103.964	3.654%

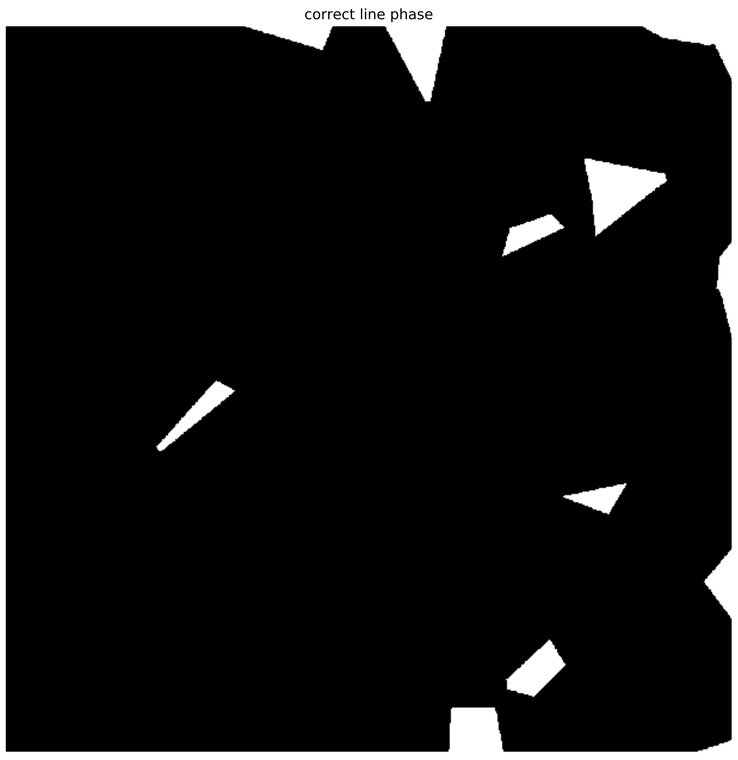
correct grain boundary



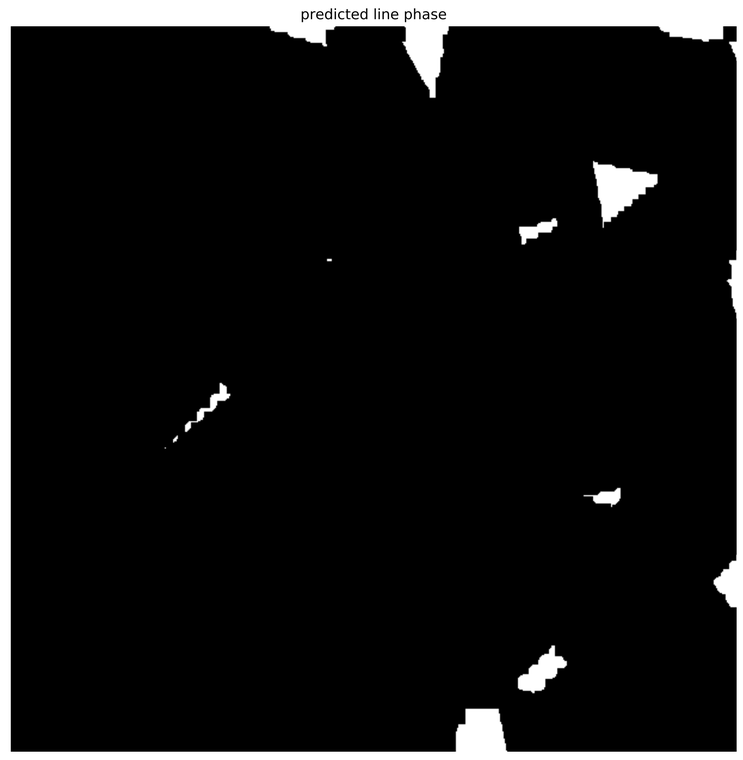
predicted grain boundary



correct line phase



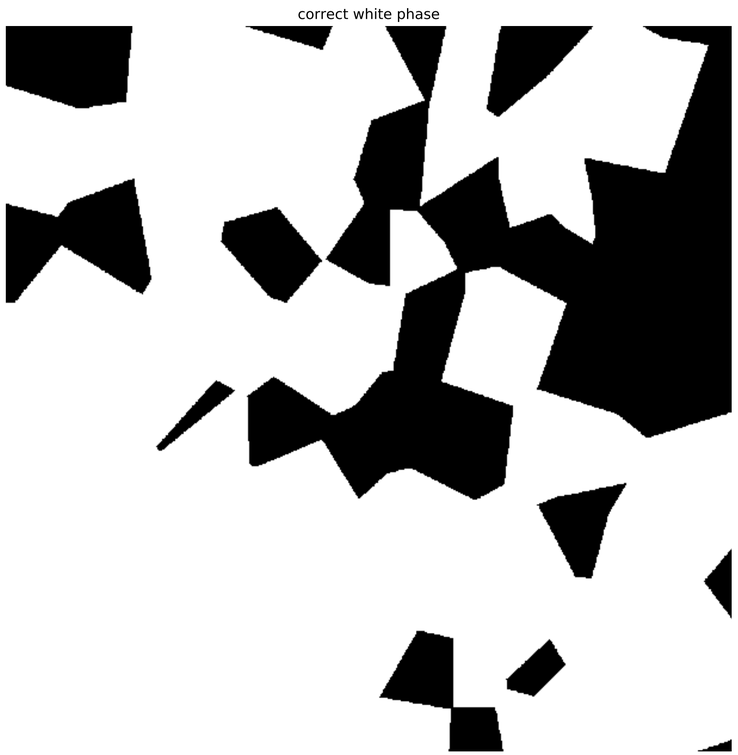
predicted line phase



correct dark phase

predicted dark phase

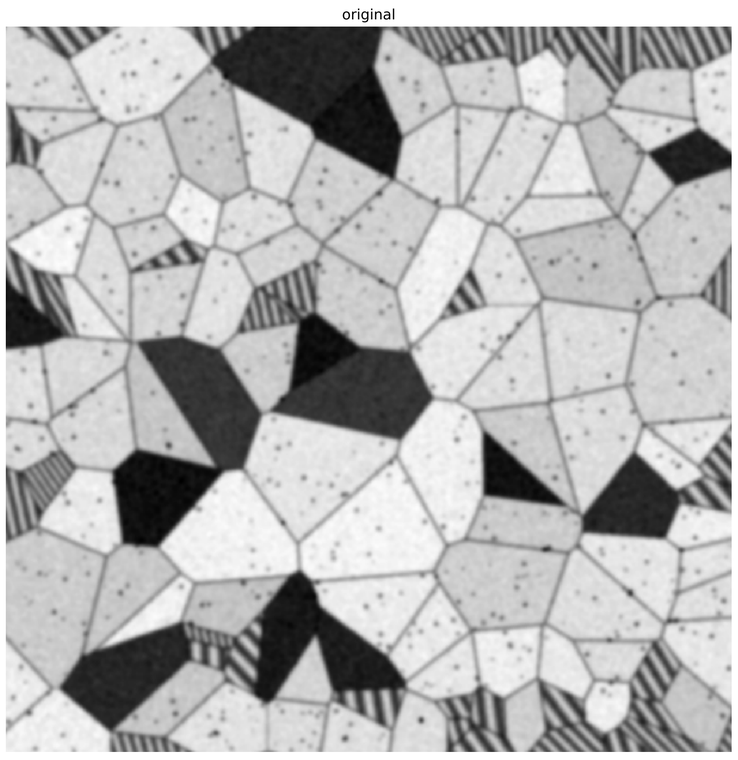
correct white phase



predicted white phase

data/base microstructure/image_51.png

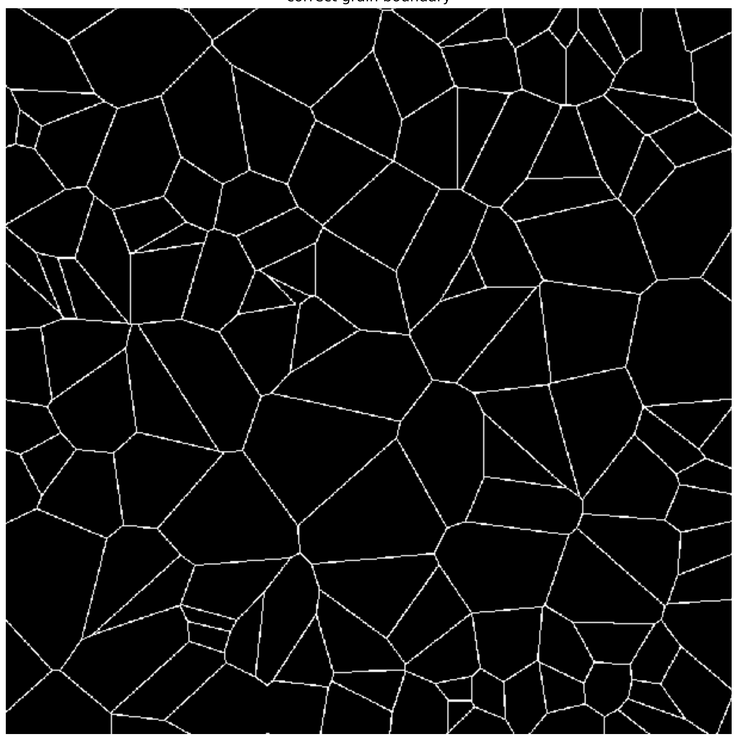
original



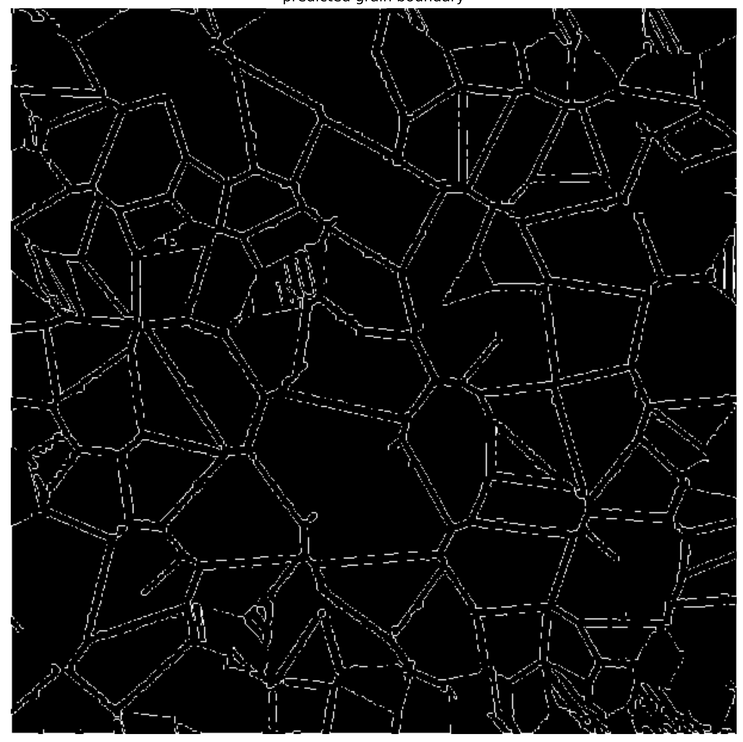
metrics

metric	correct	predicted	error
dark frac	0.136	0.134	0.208%
white frac	0.770	0.734	3.568%
line frac	0.094	0.067	2.736%
ave grain diameter	90.091	84.646	6.043%

correct grain boundary



predicted grain boundary



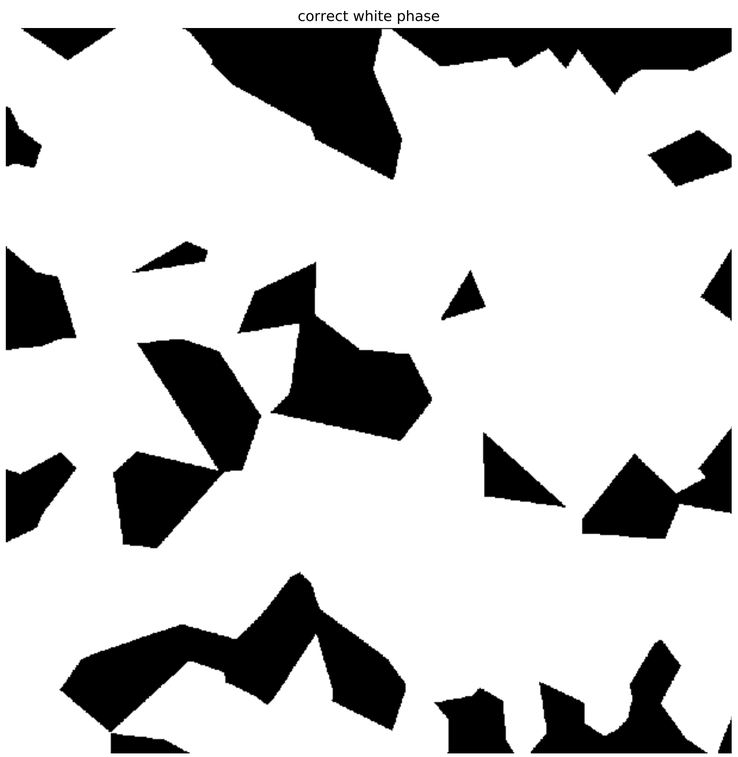
correct line phase

predicted line phase

correct dark phase

predicted dark phase

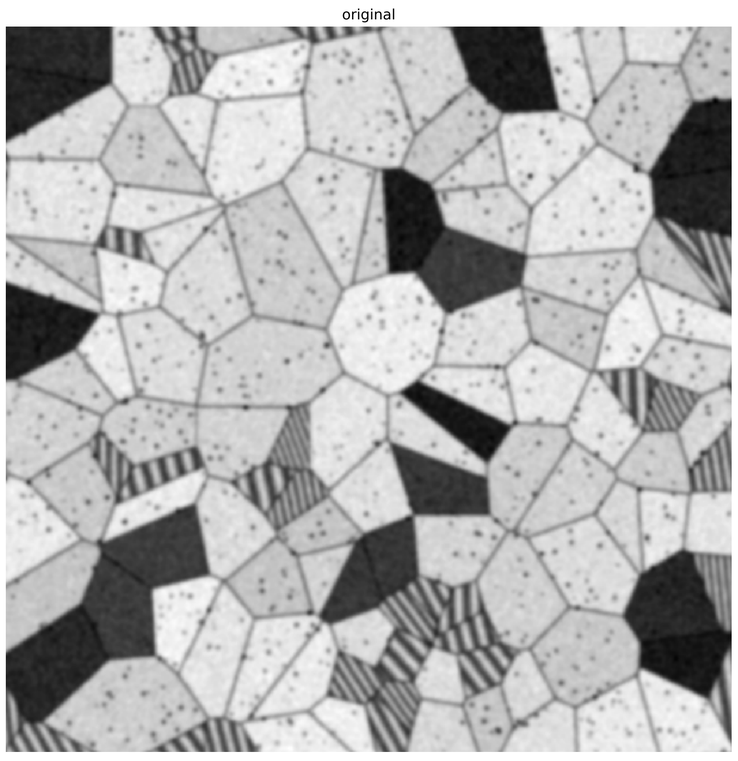
correct white phase



predicted white phase

data/base microstructure/image_52.png

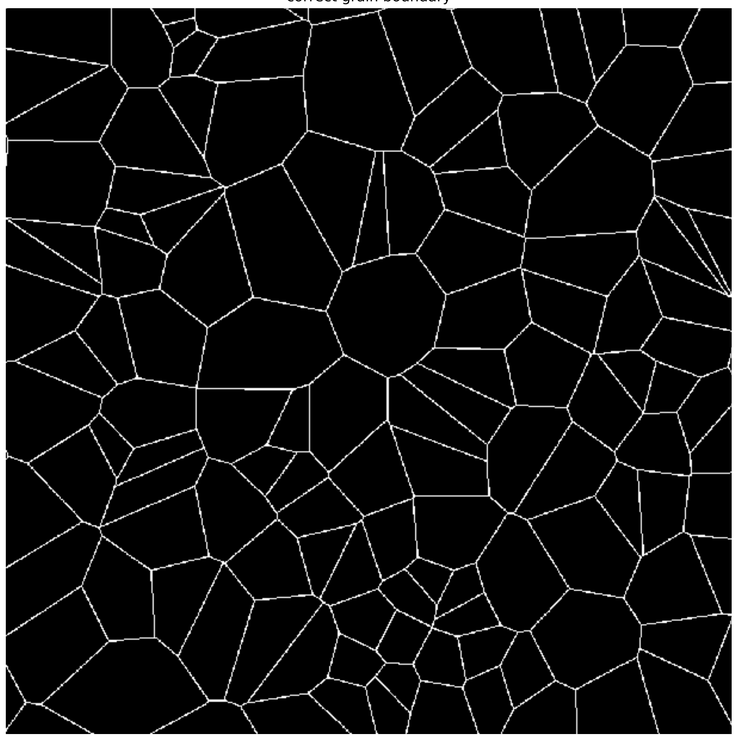
original



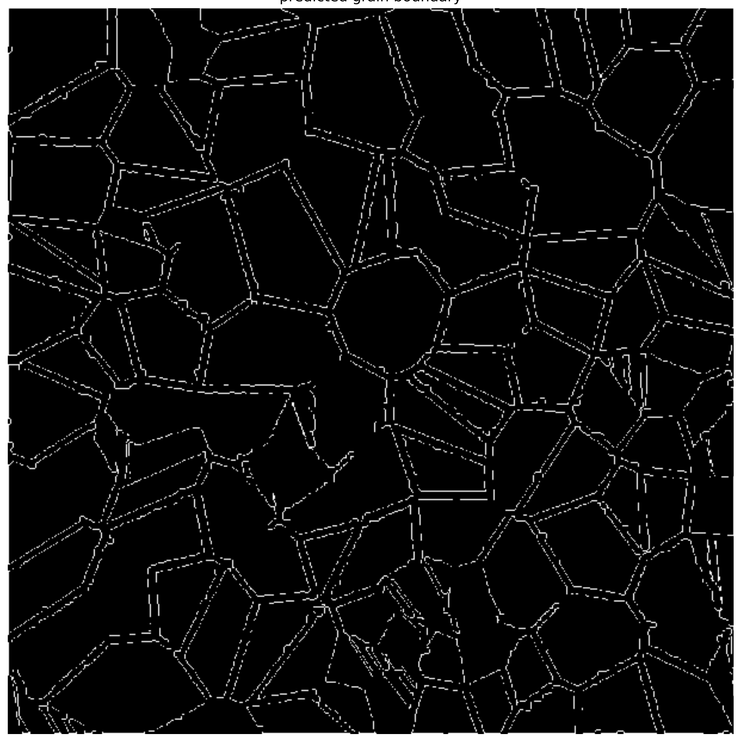
metrics

metric	correct	predicted	error
dark frac	0.154	0.151	0.319%
white frac	0.761	0.726	3.562%
line frac	0.085	0.064	2.110%
ave grain diameter	94.345	88.549	6.143%

correct grain boundary



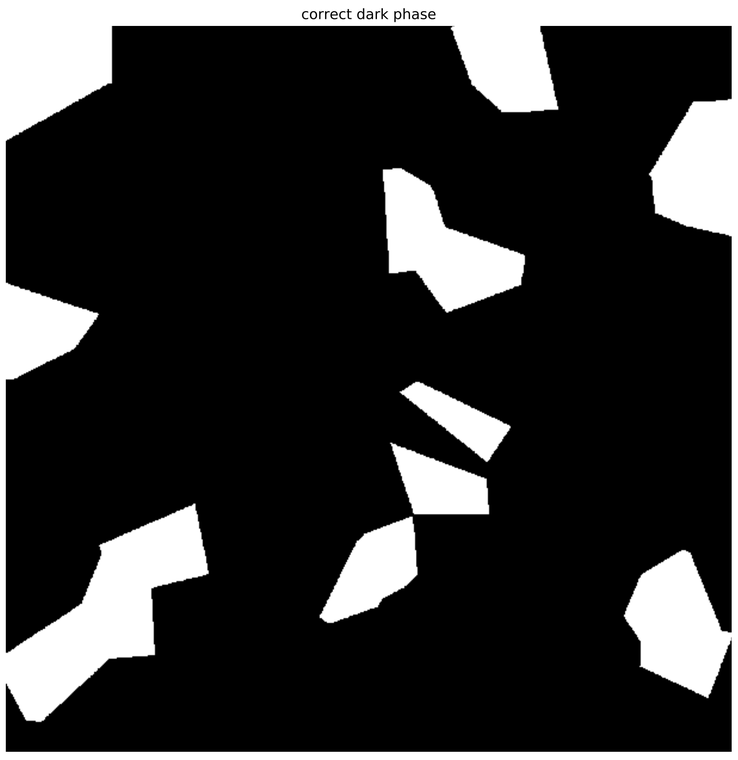
predicted grain boundary



correct line phase

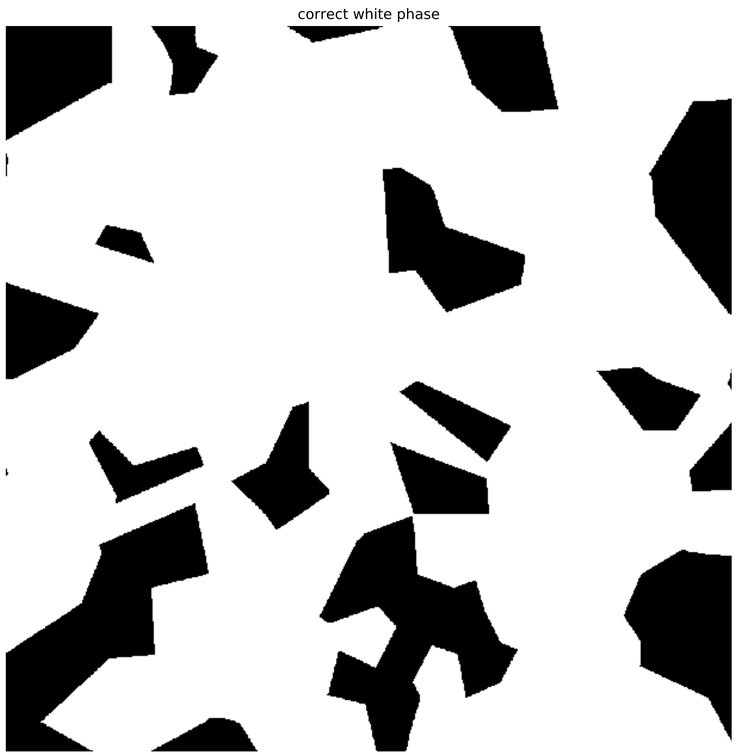
predicted line phase

correct dark phase



predicted dark phase

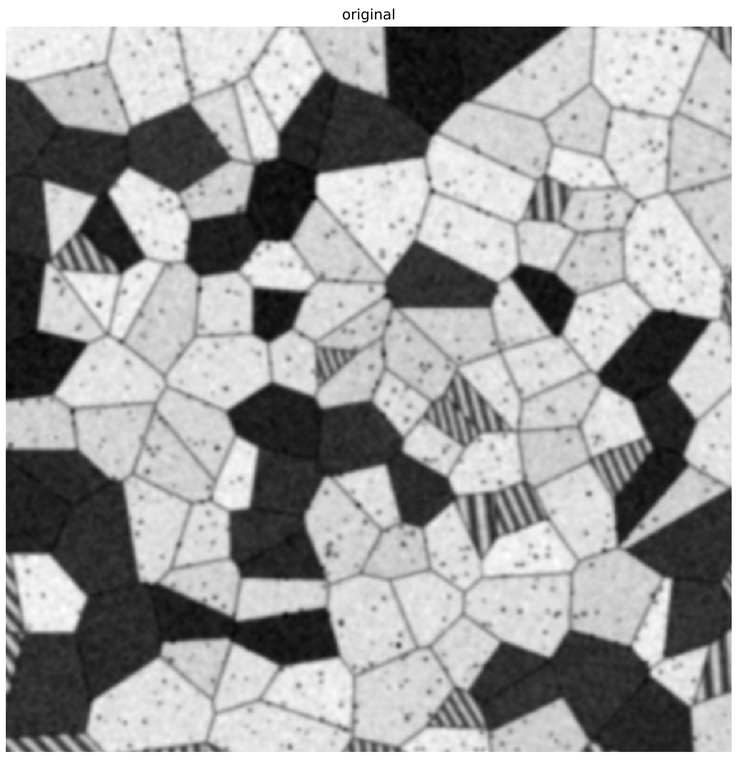
correct white phase



predicted white phase

data/base microstructure/image_53.png

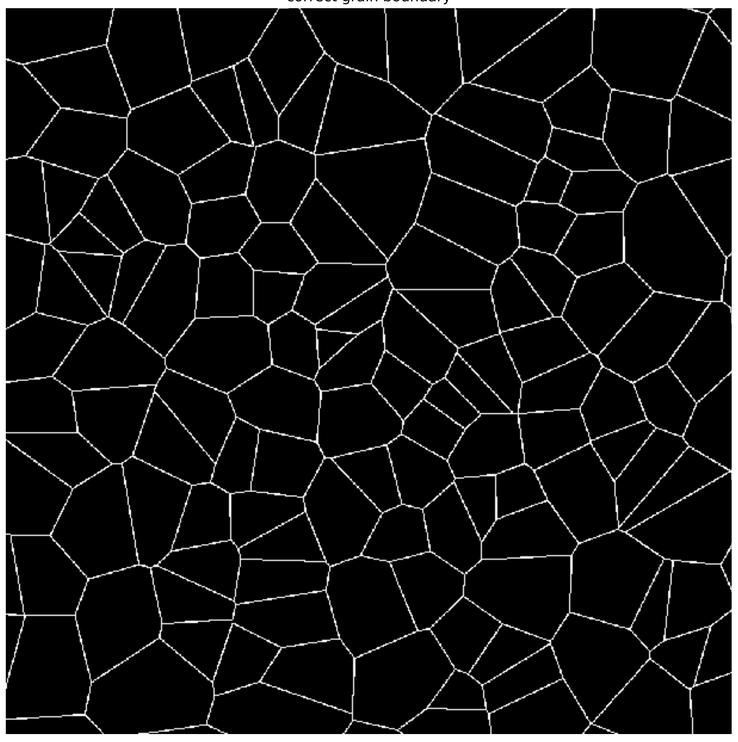
original



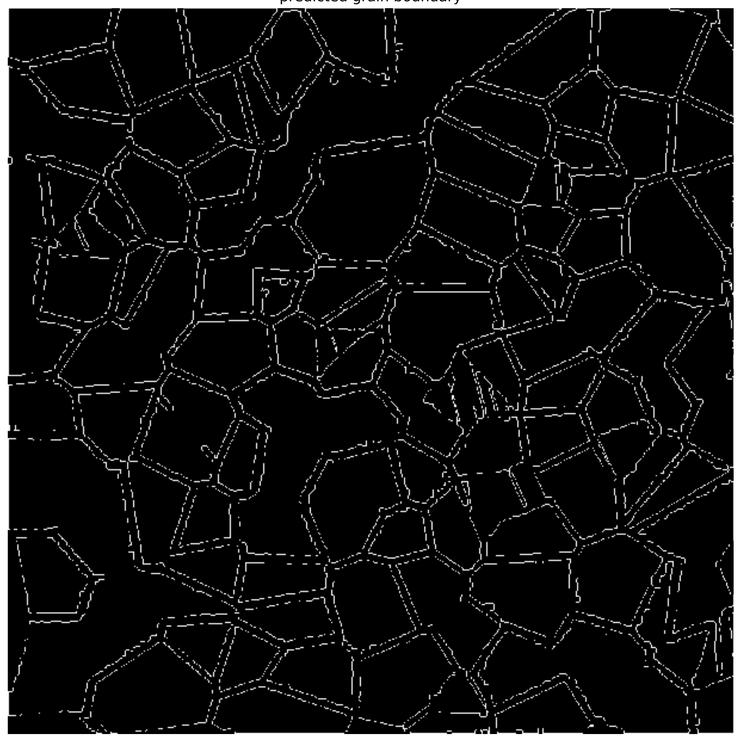
metrics

metric	correct	predicted	error
dark frac	0.302	0.290	1.119%
white frac	0.658	0.613	4.526%
line frac	0.040	0.024	1.625%
ave grain diameter	92.438	85.424	7.587%

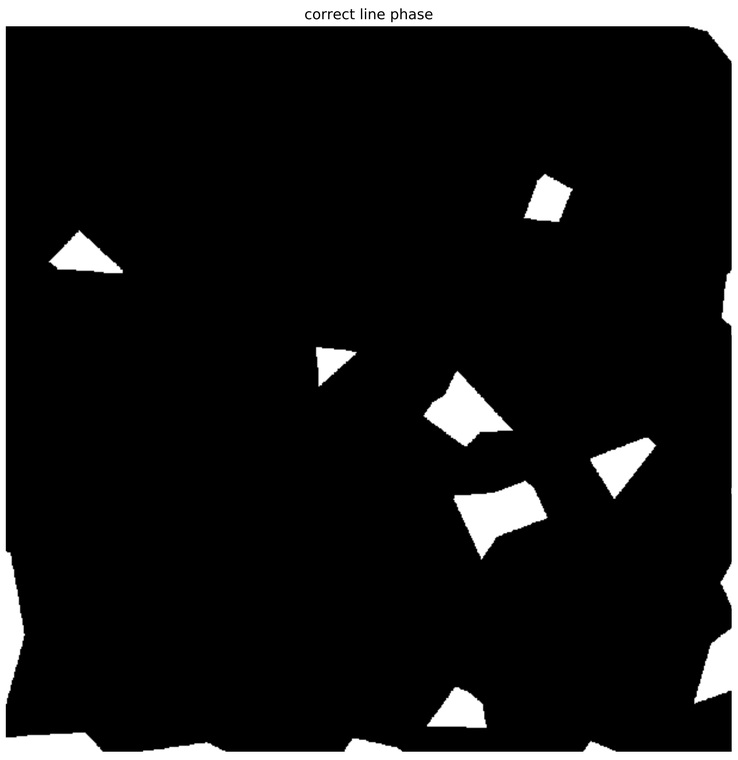
correct grain boundary



predicted grain boundary

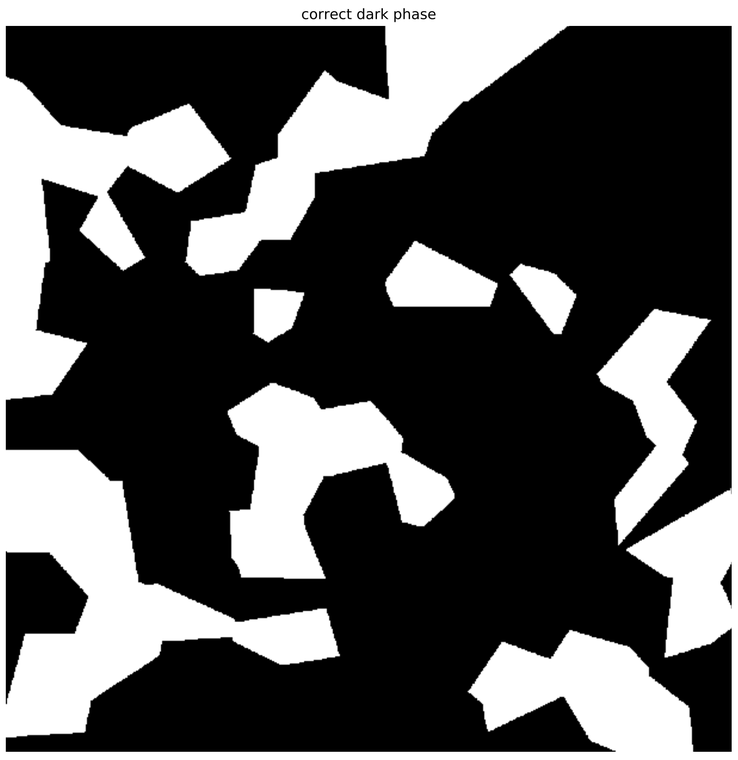


correct line phase



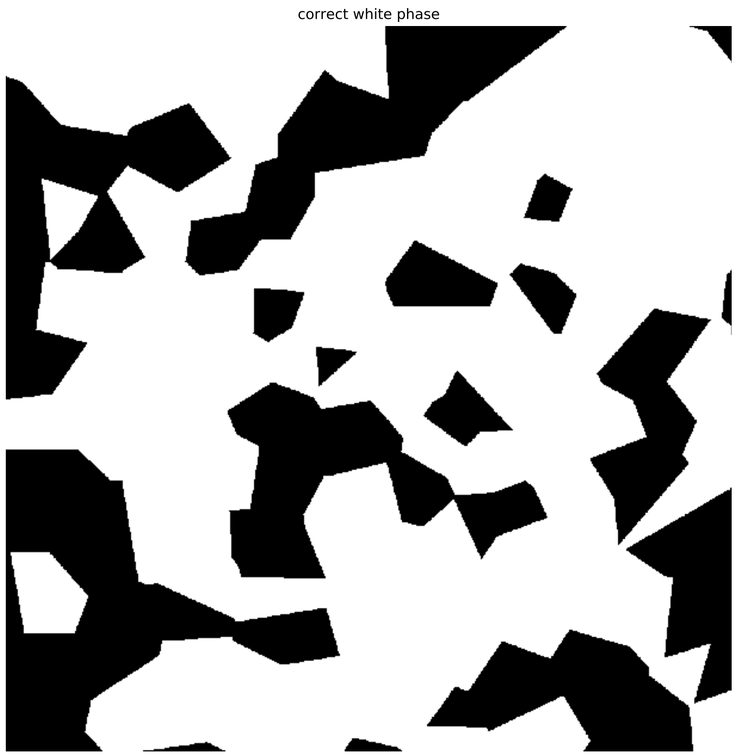
predicted line phase

correct dark phase



predicted dark phase

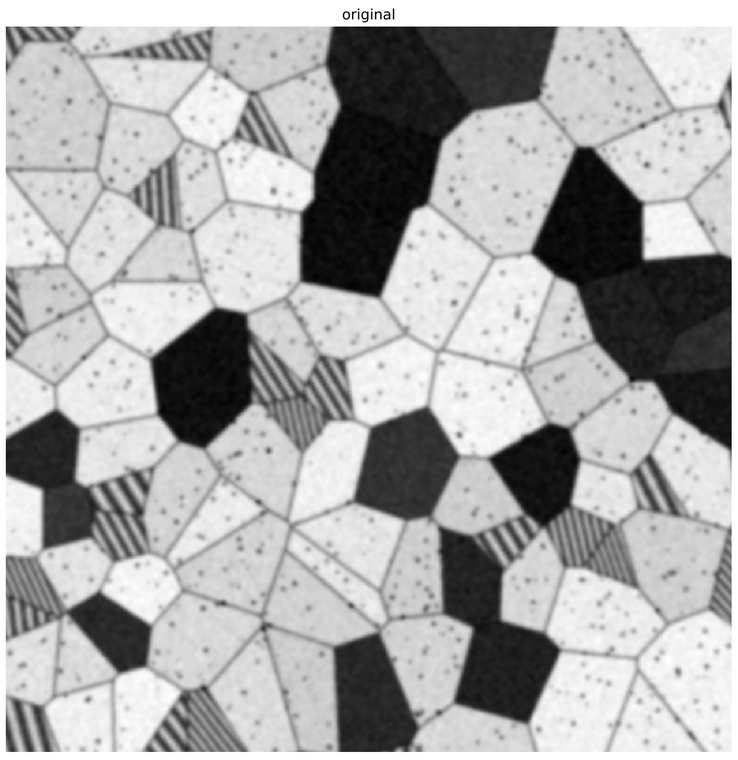
correct white phase



predicted white phase

data/base microstructure/image_54.png

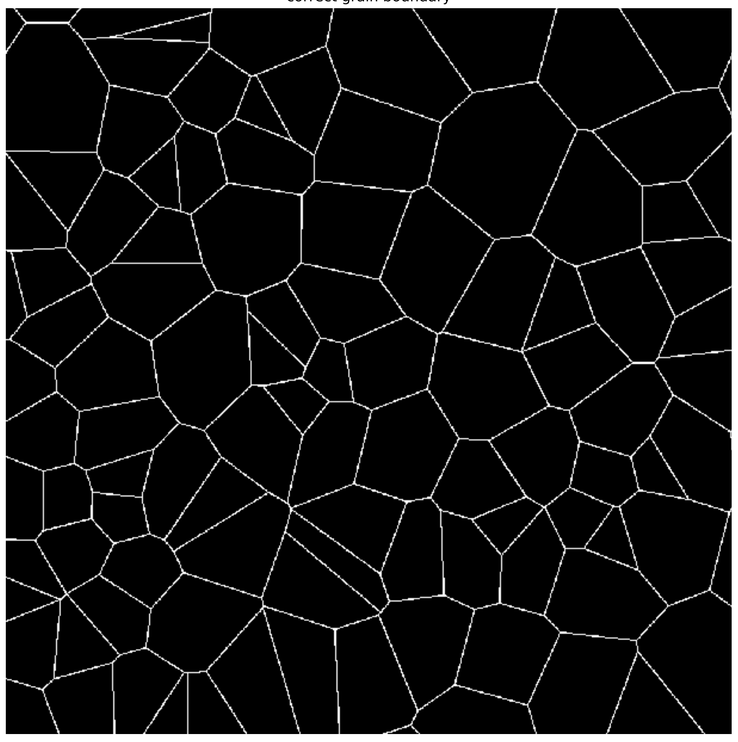
original



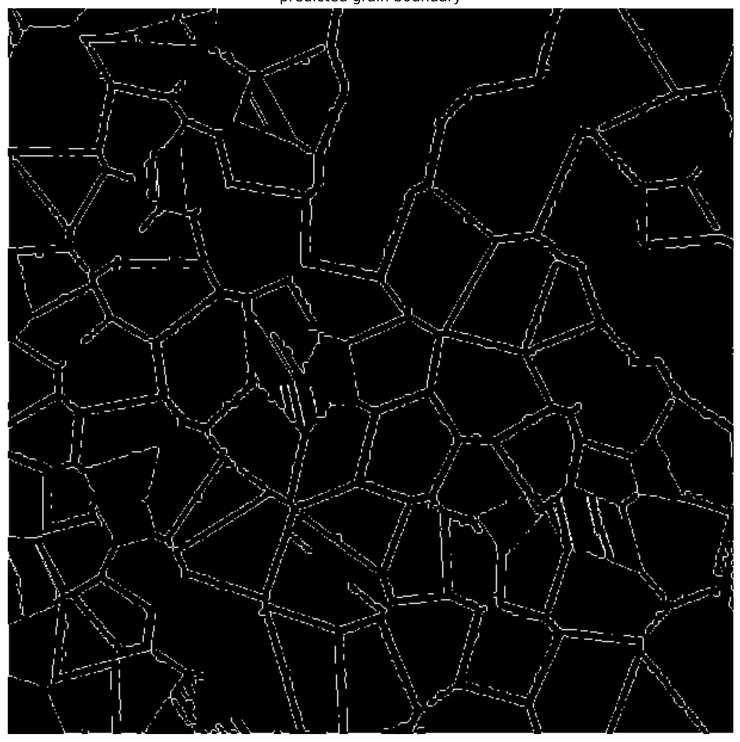
metrics

metric	correct	predicted	error
dark frac	0.227	0.221	0.685%
white frac	0.701	0.670	3.175%
line frac	0.071	0.049	2.177%
ave grain diameter	106.306	112.539	5.863%

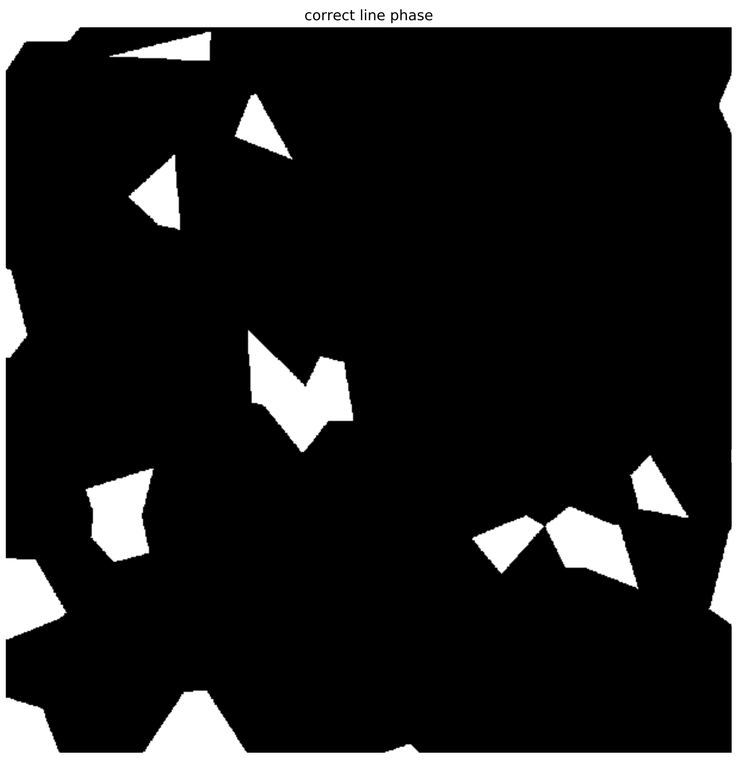
correct grain boundary



predicted grain boundary

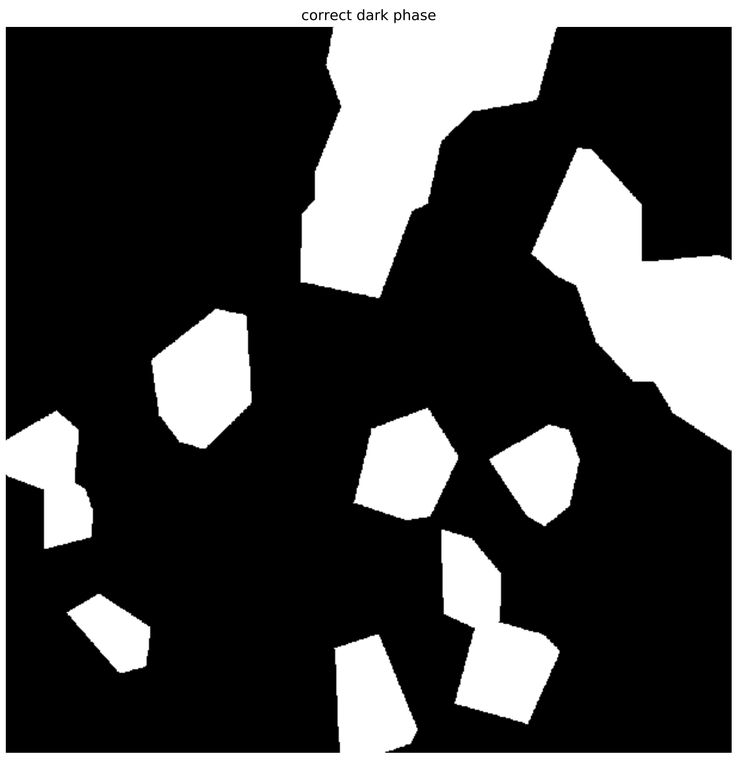


correct line phase



predicted line phase

correct dark phase



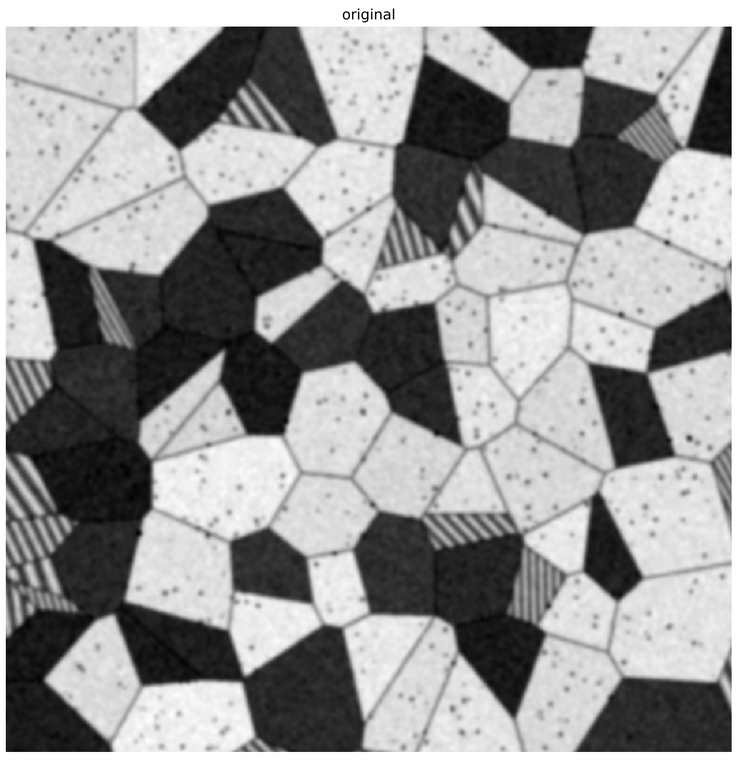
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_55.png

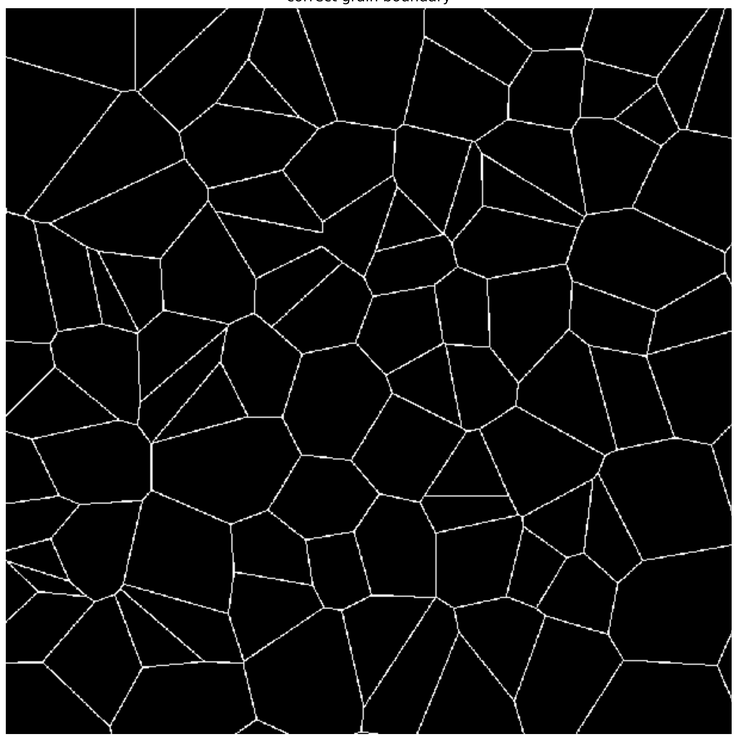
original



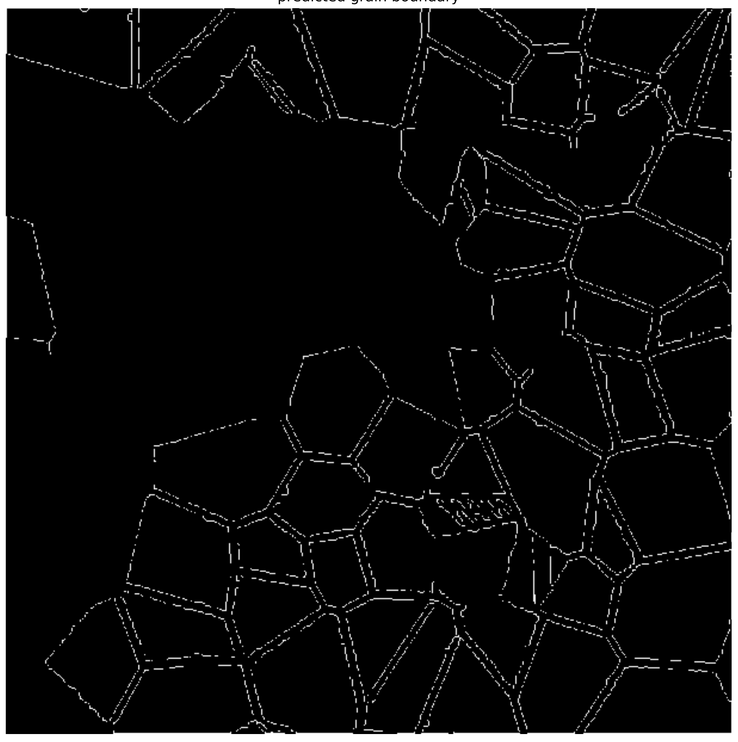
metrics

metric	correct	predicted	error
dark frac	0.361	0.352	0.824%
white frac	0.586	0.545	4.135%
line frac	0.053	0.031	2.260%
ave grain diameter	110.191	95.604	13.238%

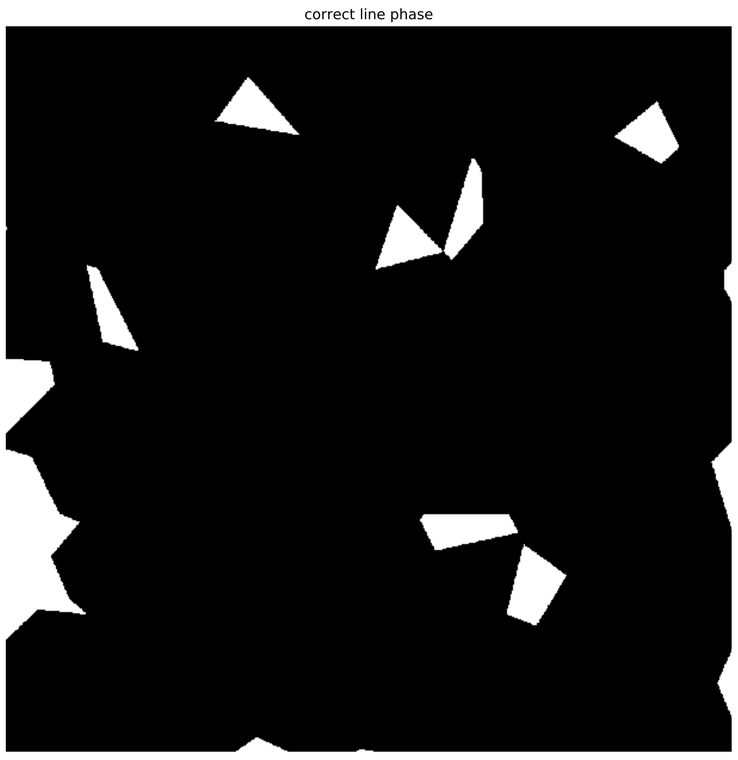
correct grain boundary



predicted grain boundary

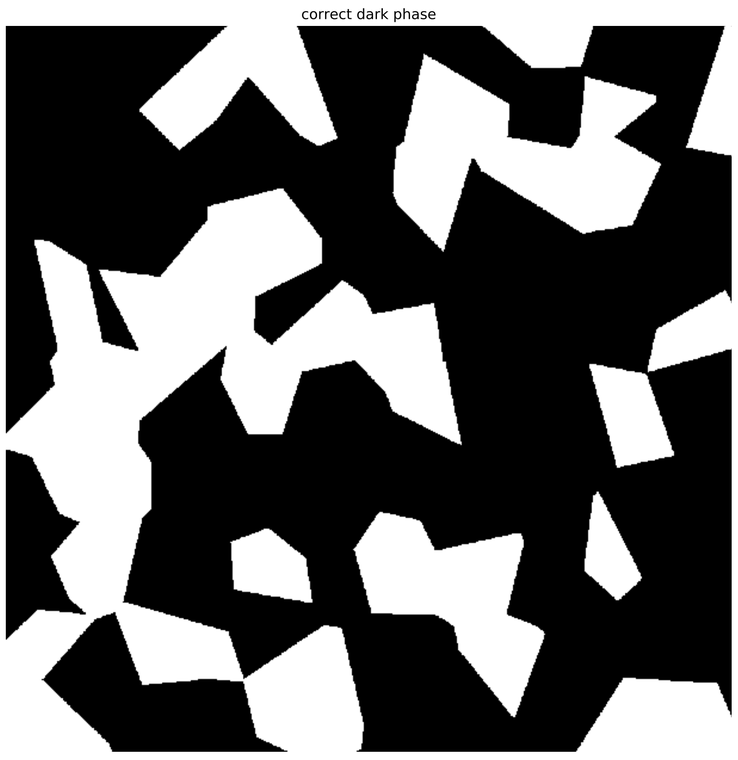


correct line phase



predicted line phase

correct dark phase



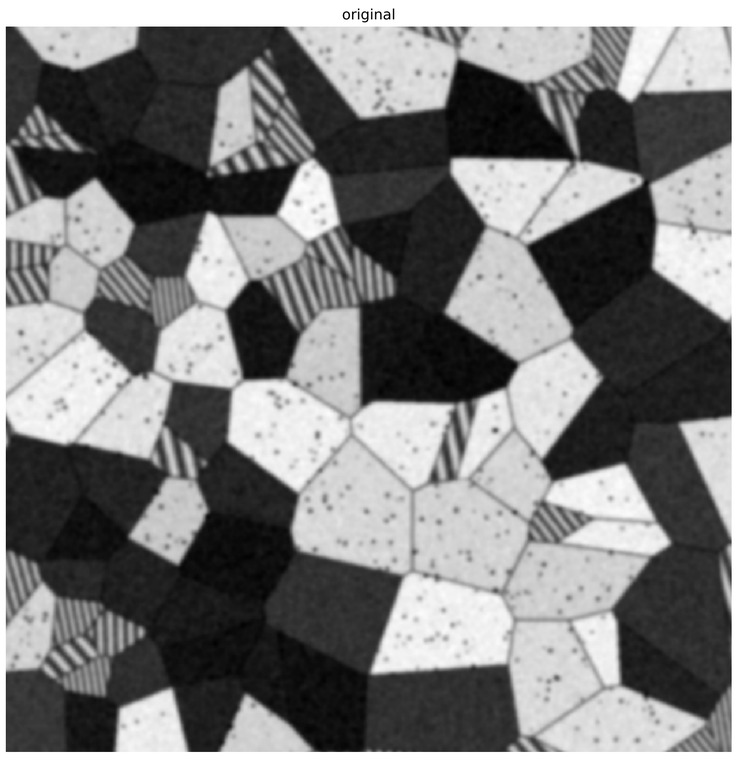
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_56.png

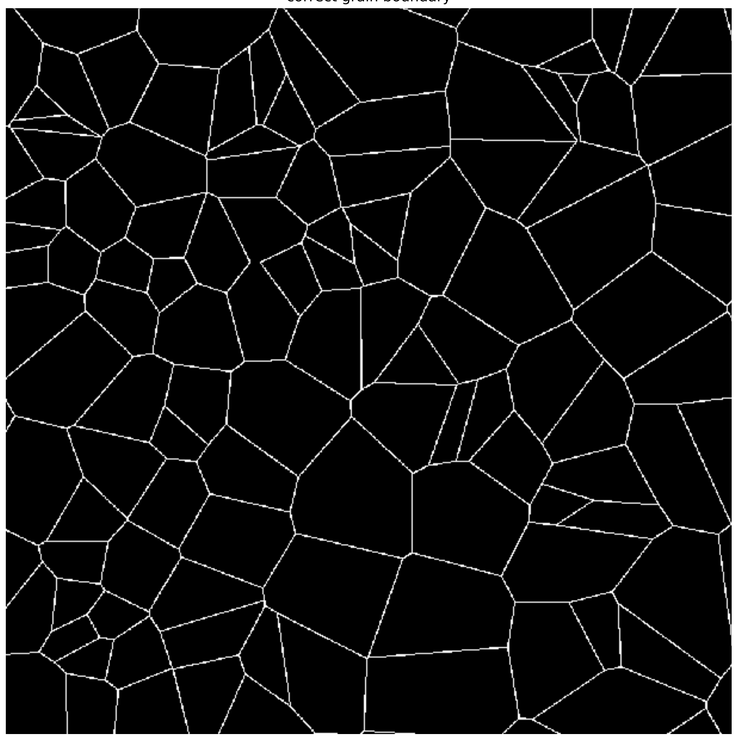
original



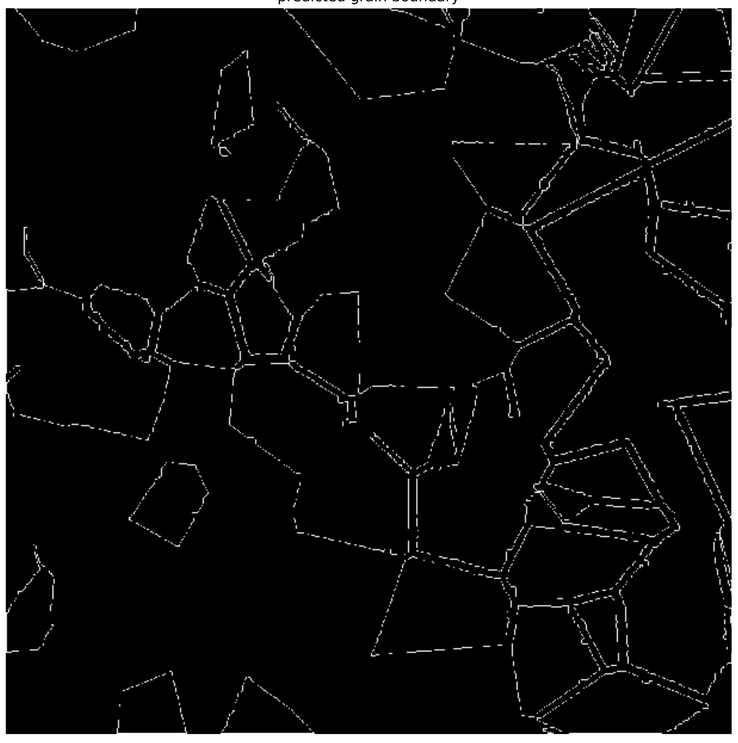
metrics

metric	correct	predicted	error
dark frac	0.482	0.475	0.670%
white frac	0.431	0.395	3.602%
line frac	0.087	0.053	3.372%
ave grain diameter	98.294	98.667	0.380%

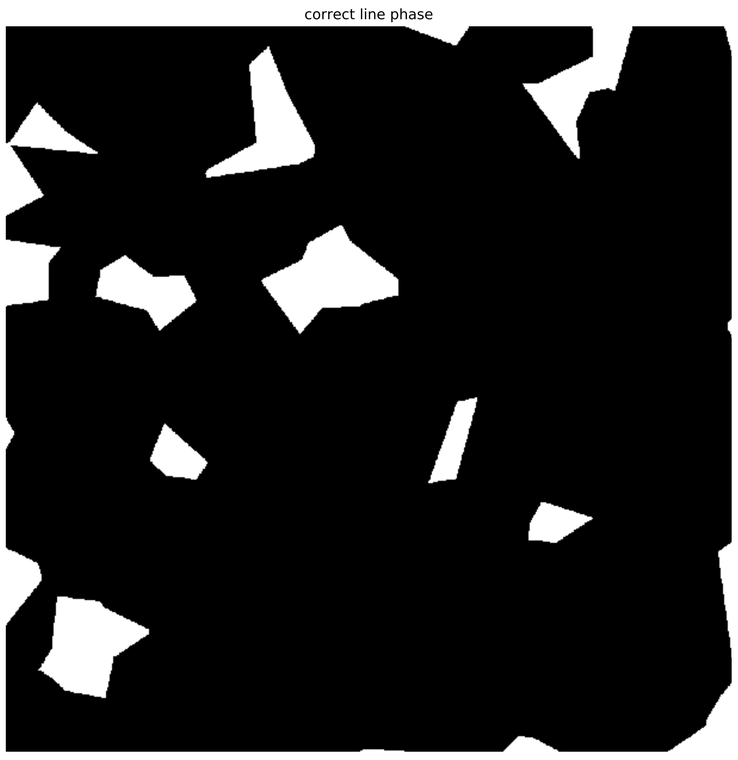
correct grain boundary



predicted grain boundary



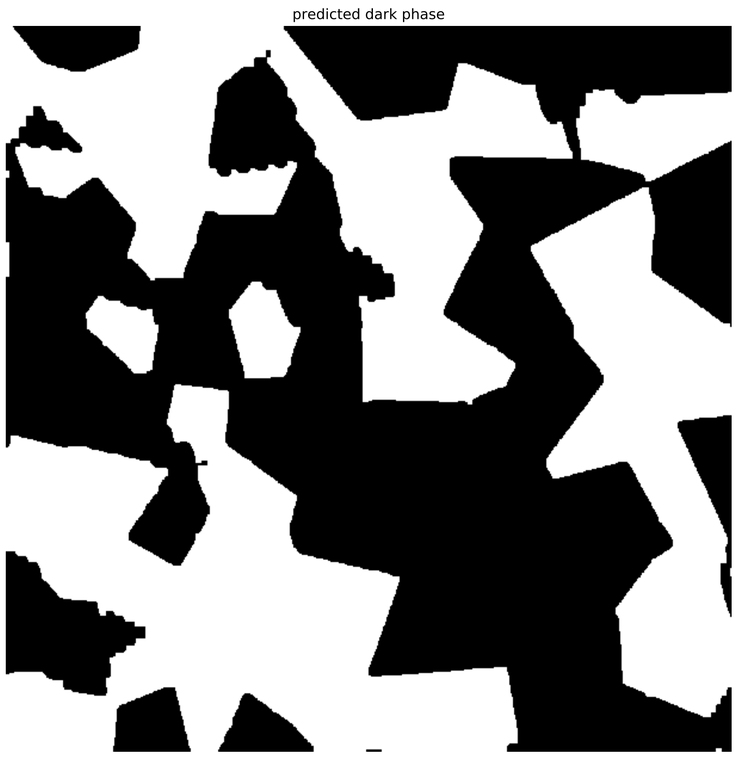
correct line phase



predicted line phase

correct dark phase

predicted dark phase

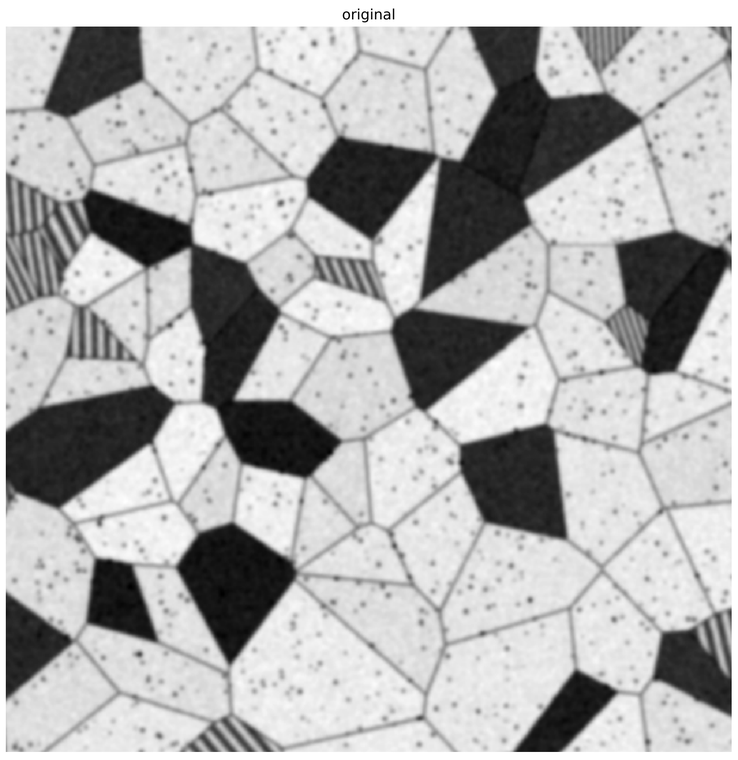


correct white phase

predicted white phase

data/base microstructure/image_57.png

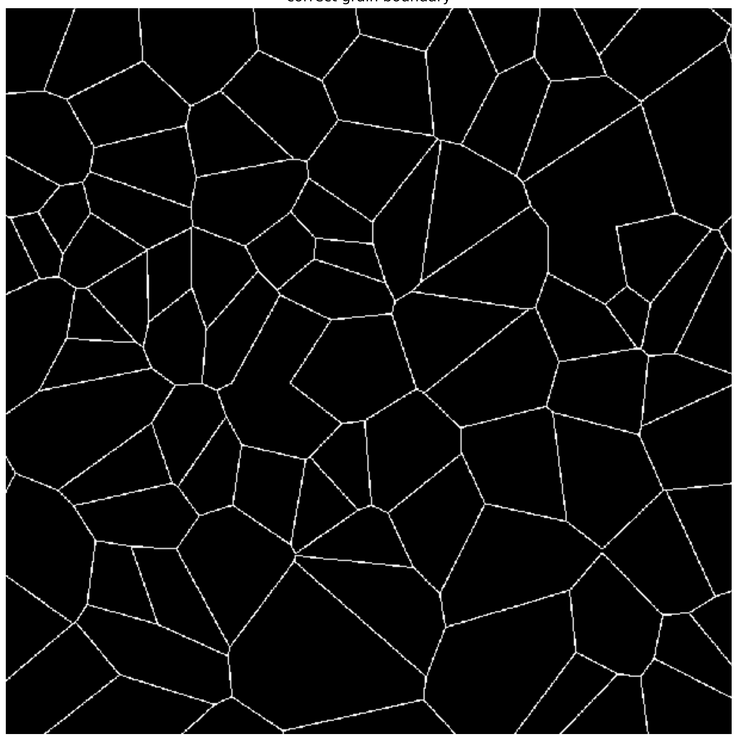
original



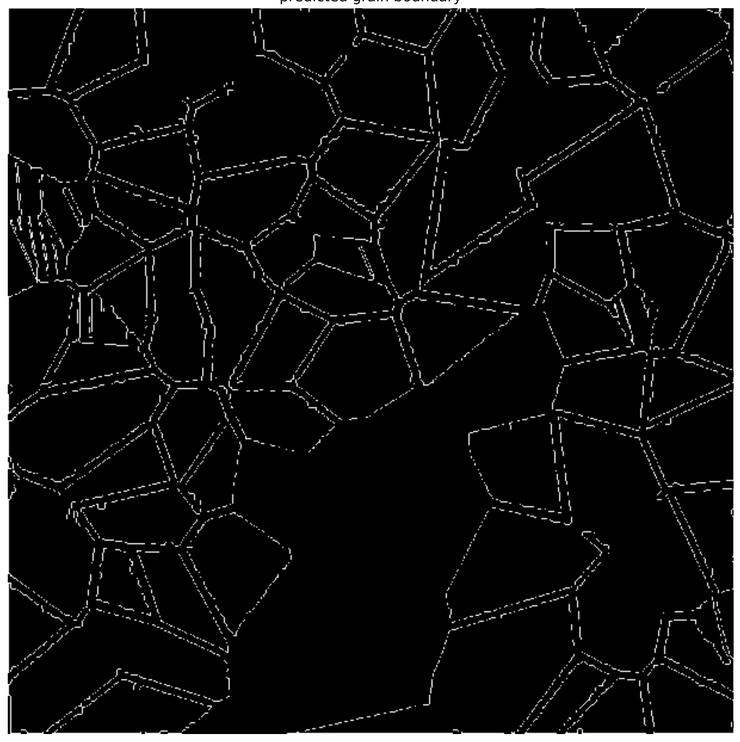
metrics

metric	correct	predicted	error
dark frac	0.224	0.214	1.000%
white frac	0.739	0.702	3.748%
line frac	0.036	0.026	1.088%
ave grain diameter	113.268	101.420	10.461%

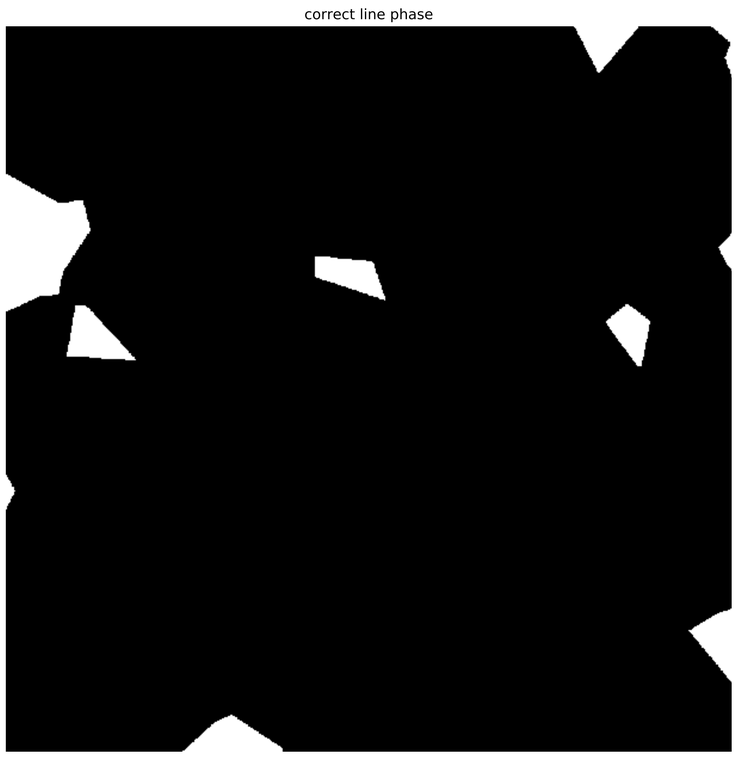
correct grain boundary



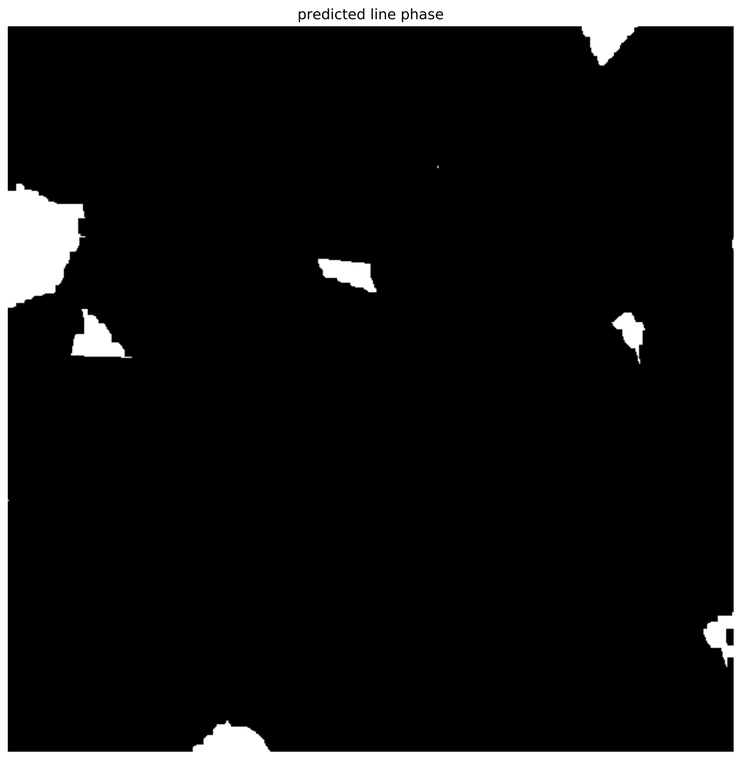
predicted grain boundary



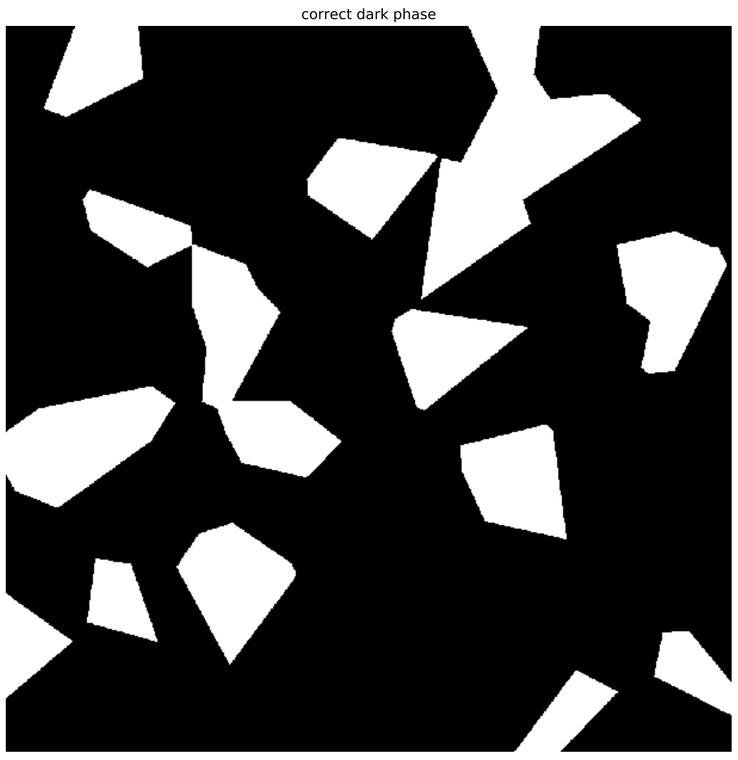
correct line phase



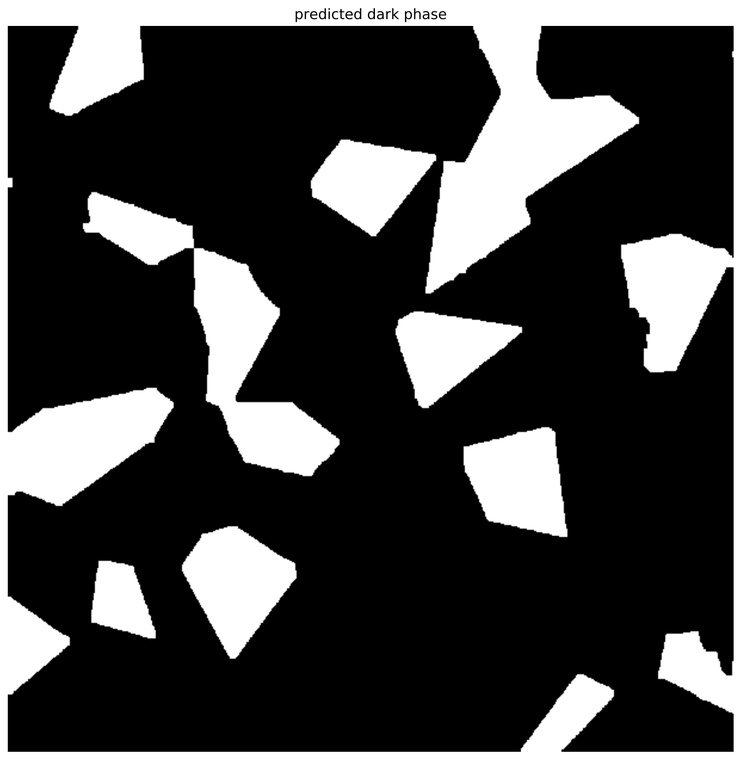
predicted line phase



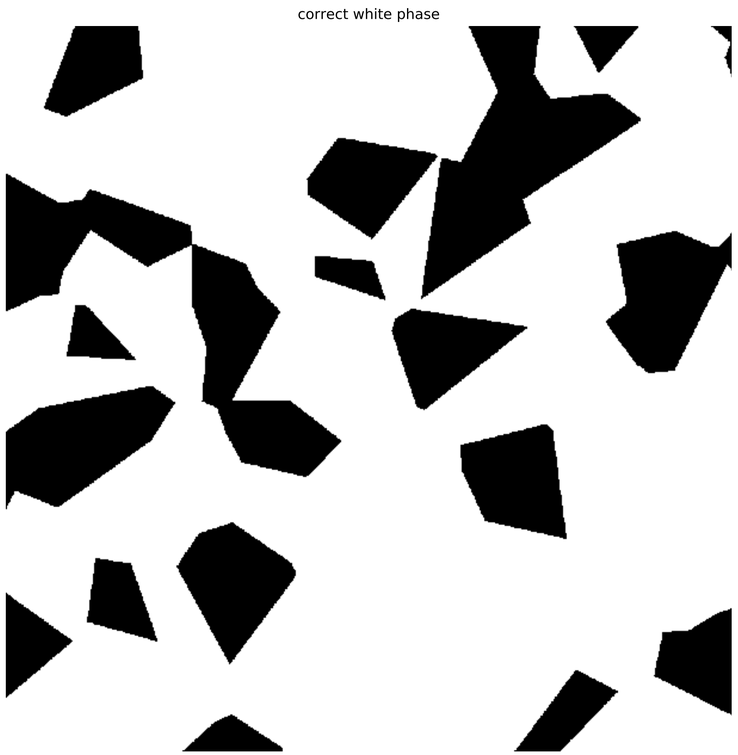
correct dark phase



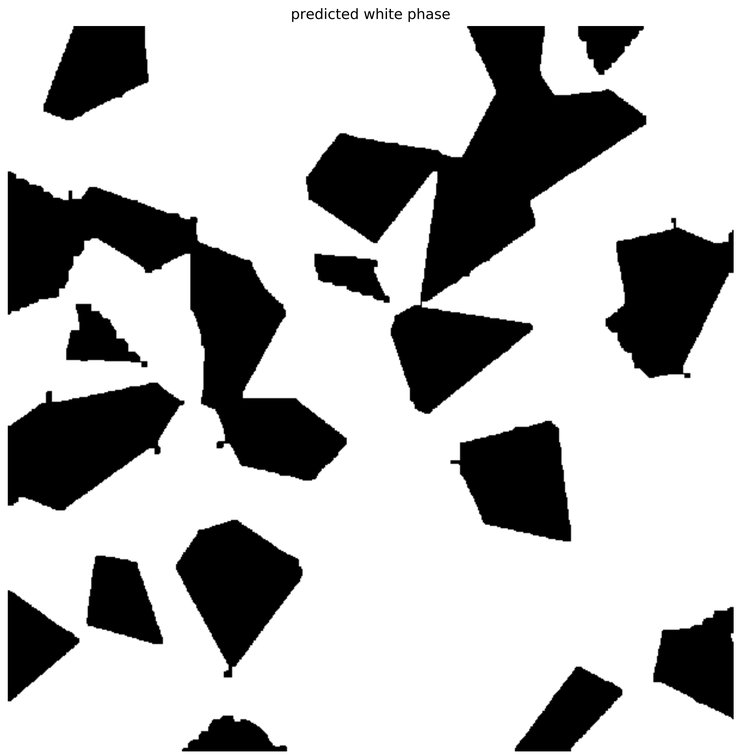
predicted dark phase



correct white phase

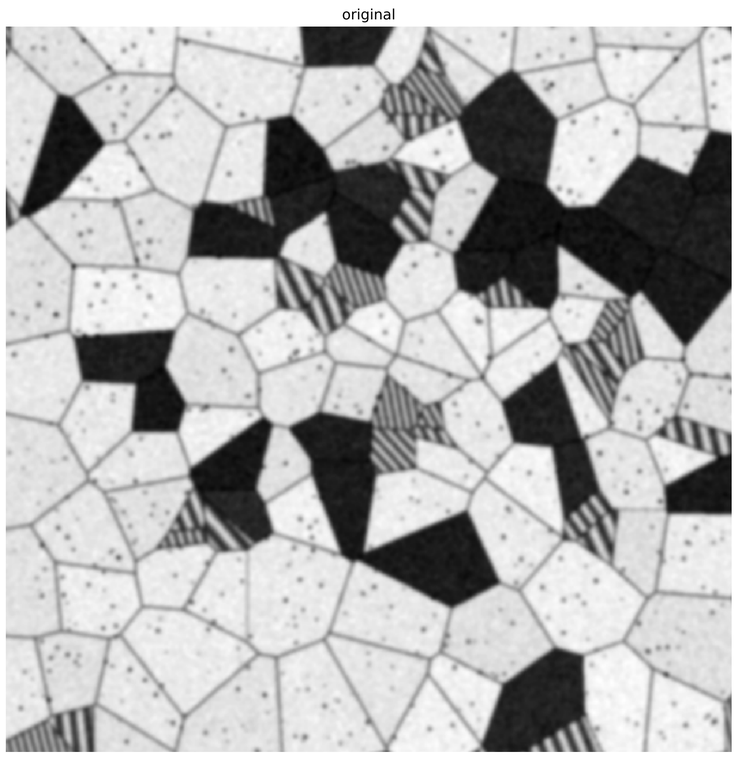


predicted white phase



data/base microstructure/image_58.png

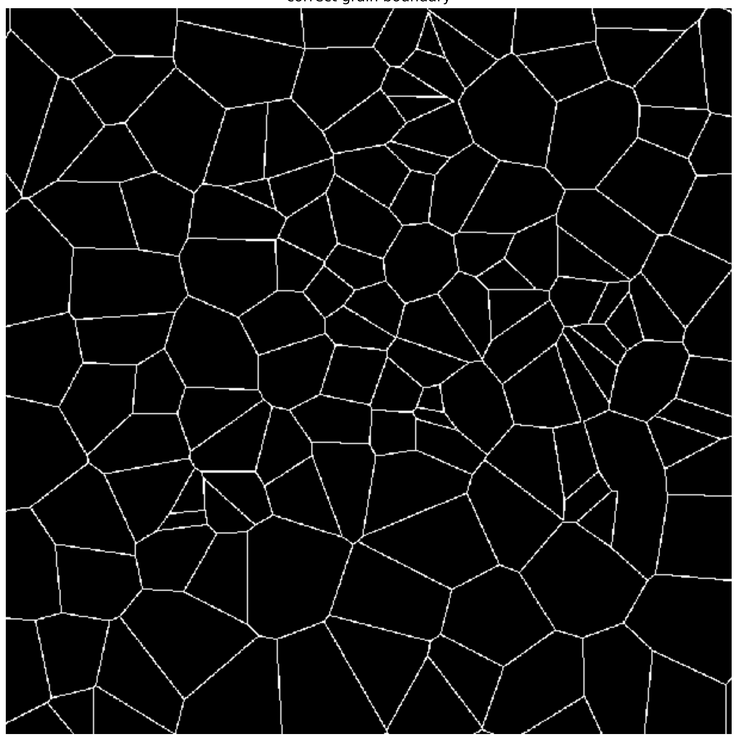
original



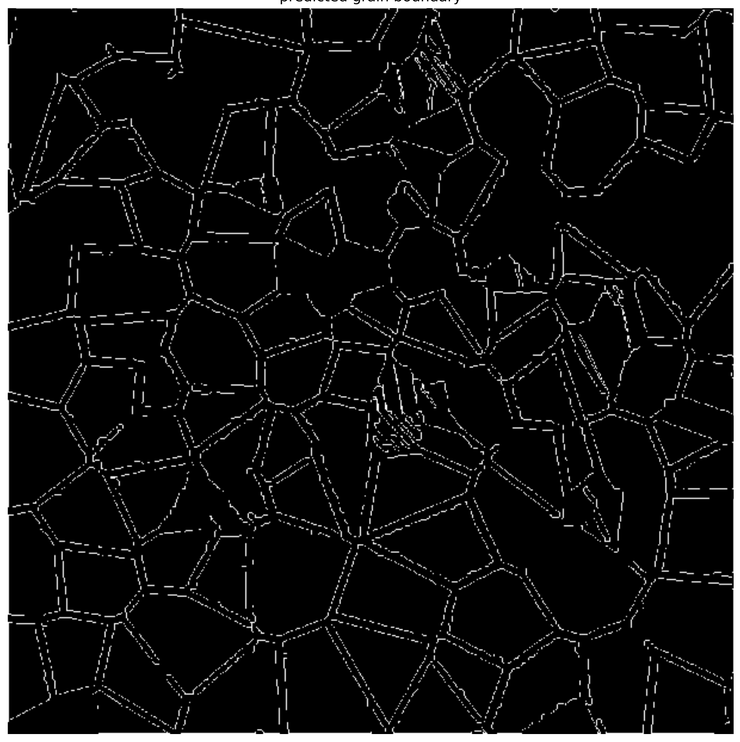
metrics

metric	correct	predicted	error
dark frac	0.201	0.195	0.663%
white frac	0.732	0.699	3.297%
line frac	0.067	0.044	2.298%
ave grain diameter	90.541	86.896	4.025%

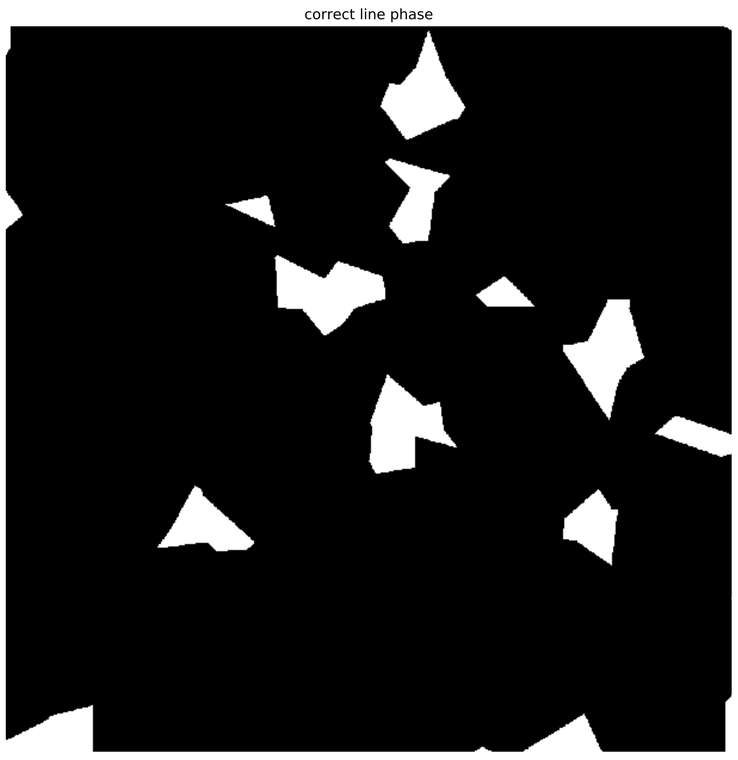
correct grain boundary



predicted grain boundary



correct line phase

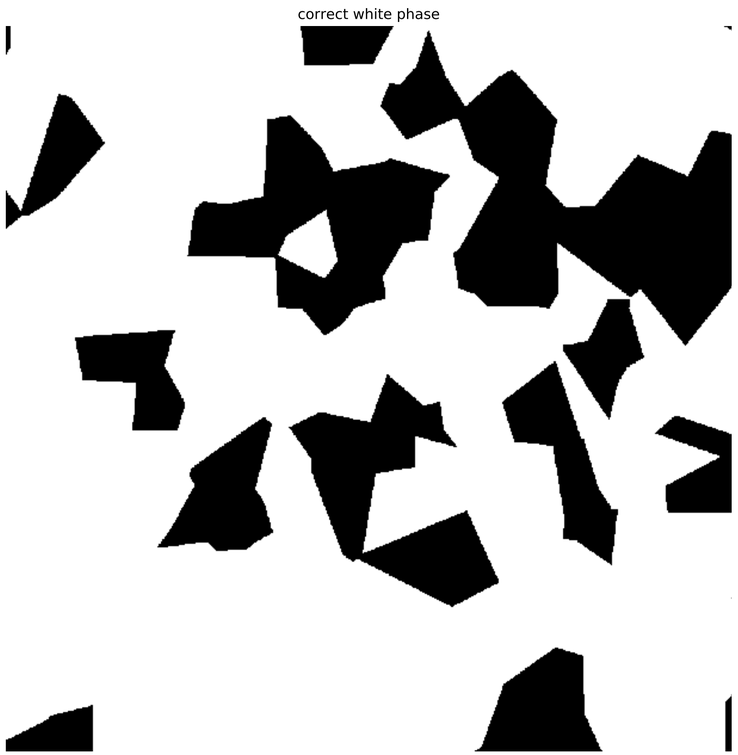


predicted line phase

correct dark phase

predicted dark phase

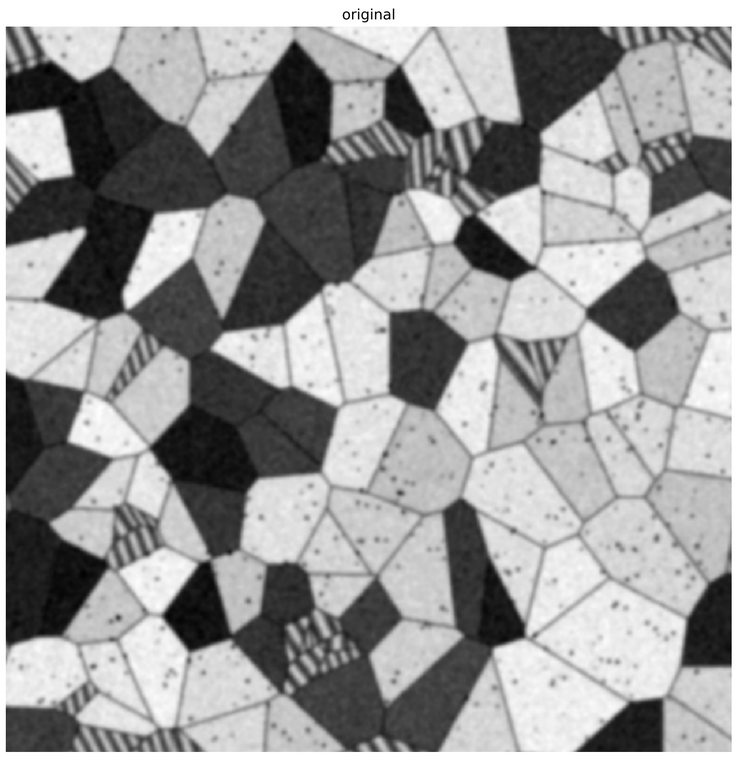
correct white phase



predicted white phase

data/base microstructure/image_59.png

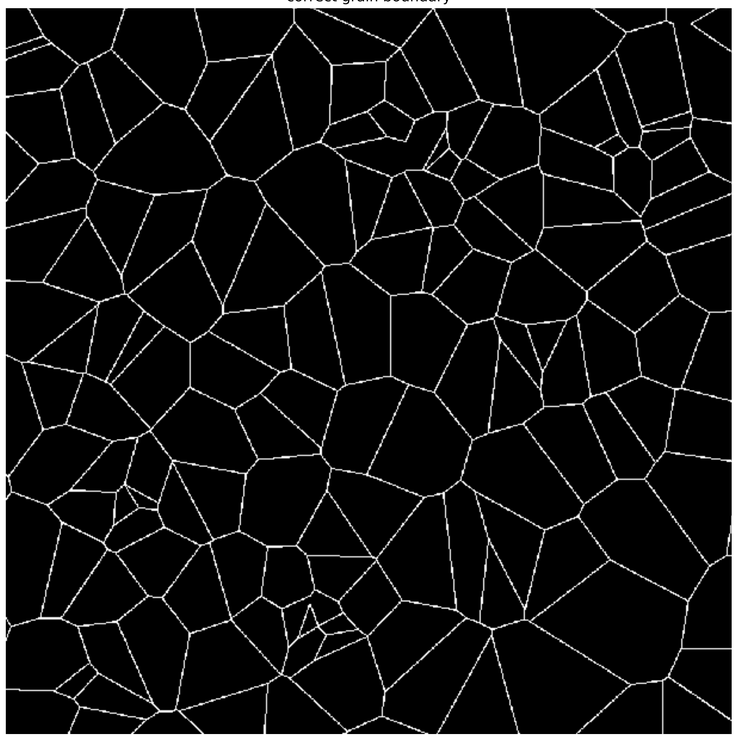
original



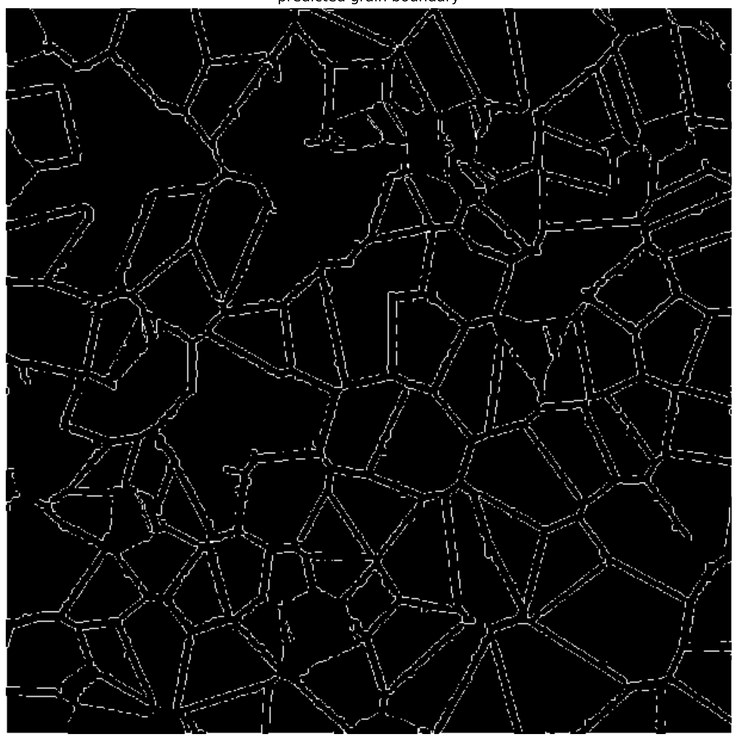
metrics

metric	correct	predicted	error
dark frac	0.323	0.315	0.792%
white frac	0.620	0.573	4.756%
line frac	0.057	0.032	2.479%
ave grain diameter	88.164	80.534	8.655%

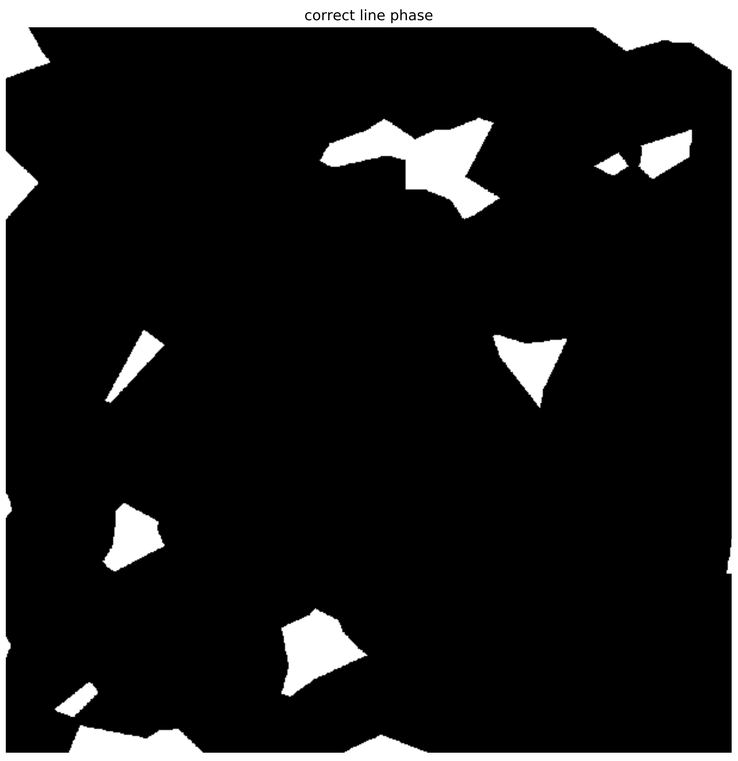
correct grain boundary



predicted grain boundary



correct line phase



predicted line phase

correct dark phase

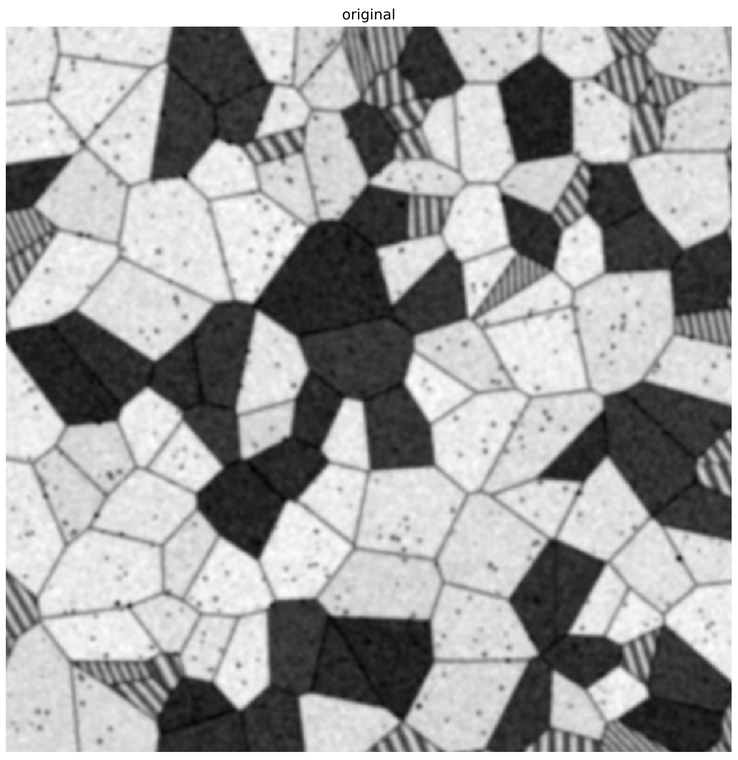
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_6.png

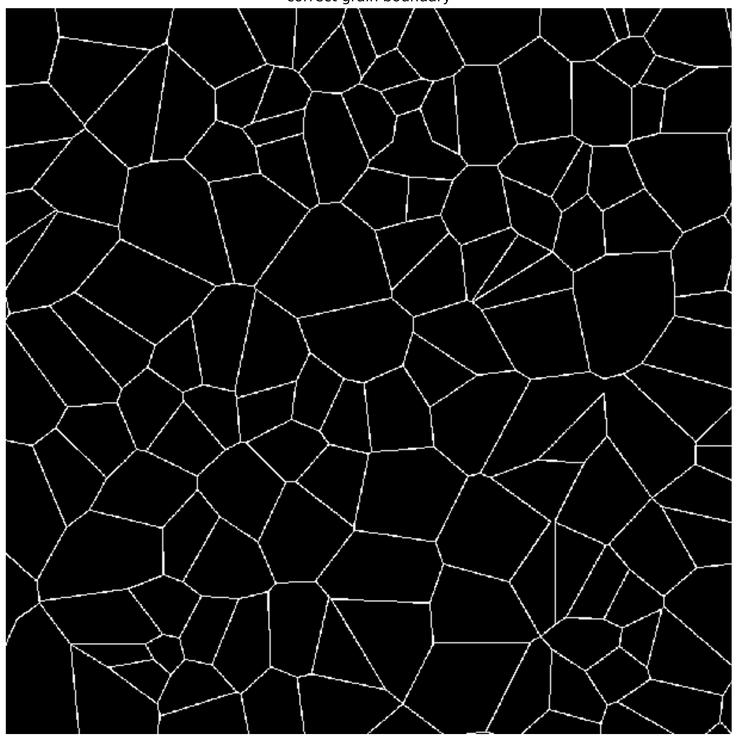
original



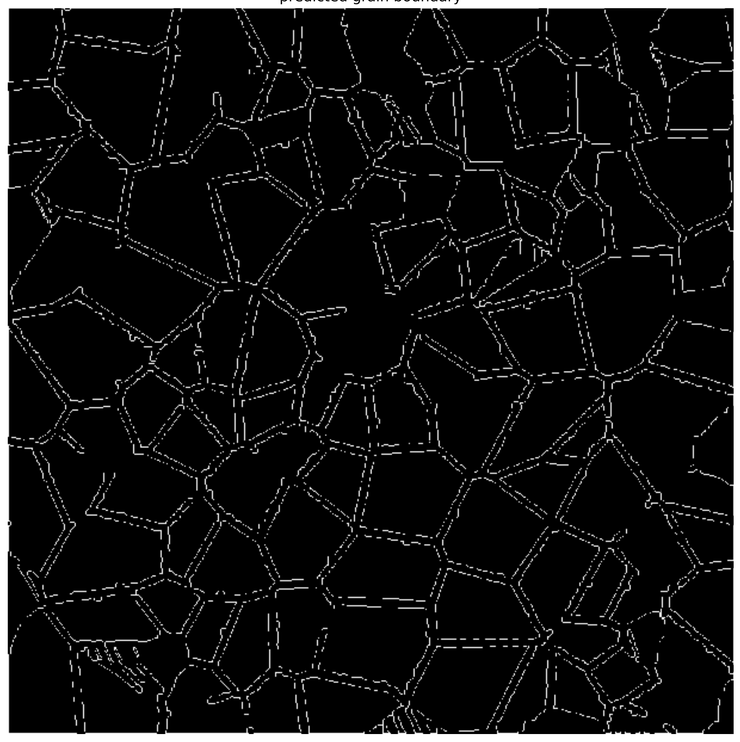
metrics

metric	correct	predicted	error
dark frac	0.295	0.288	0.720%
white frac	0.636	0.587	4.931%
line frac	0.068	0.046	2.224%
ave grain diameter	90.339	87.282	3.384%

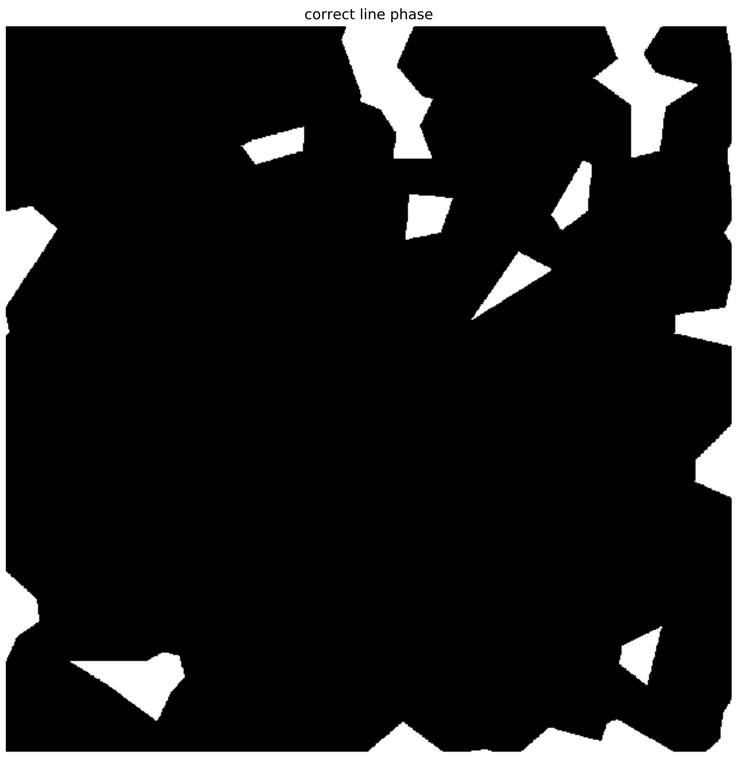
correct grain boundary



predicted grain boundary



correct line phase

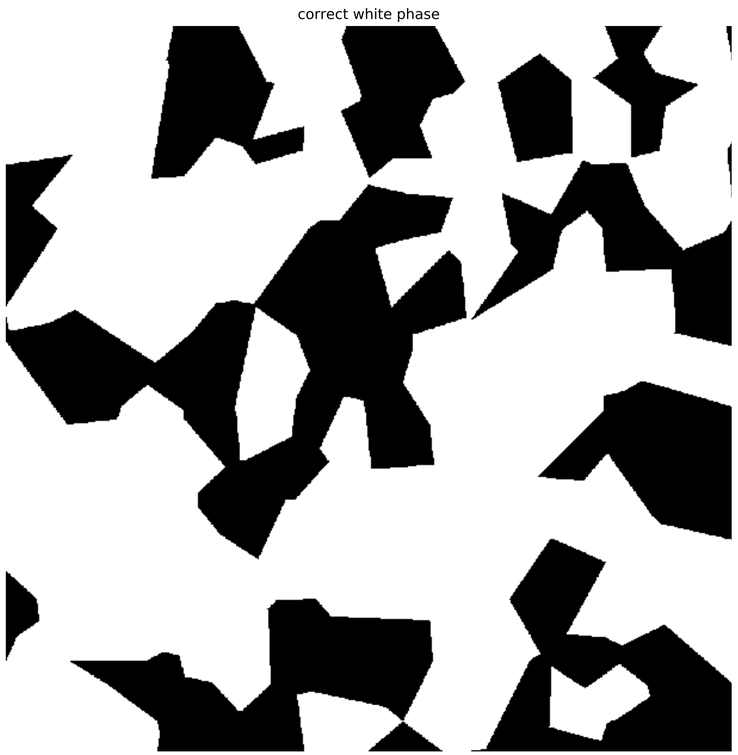


predicted line phase

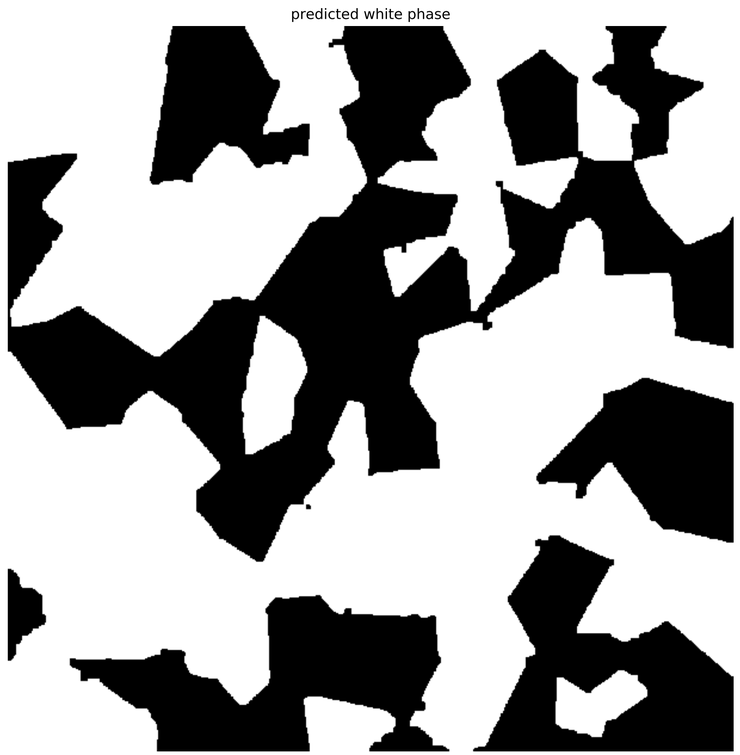
correct dark phase

predicted dark phase

correct white phase

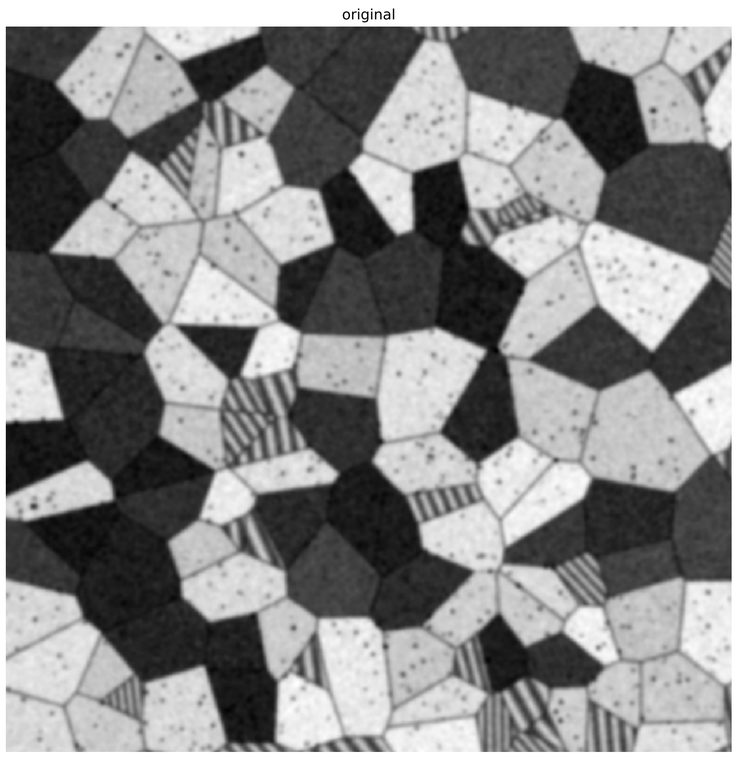


predicted white phase



data/base microstructure/image_60.png

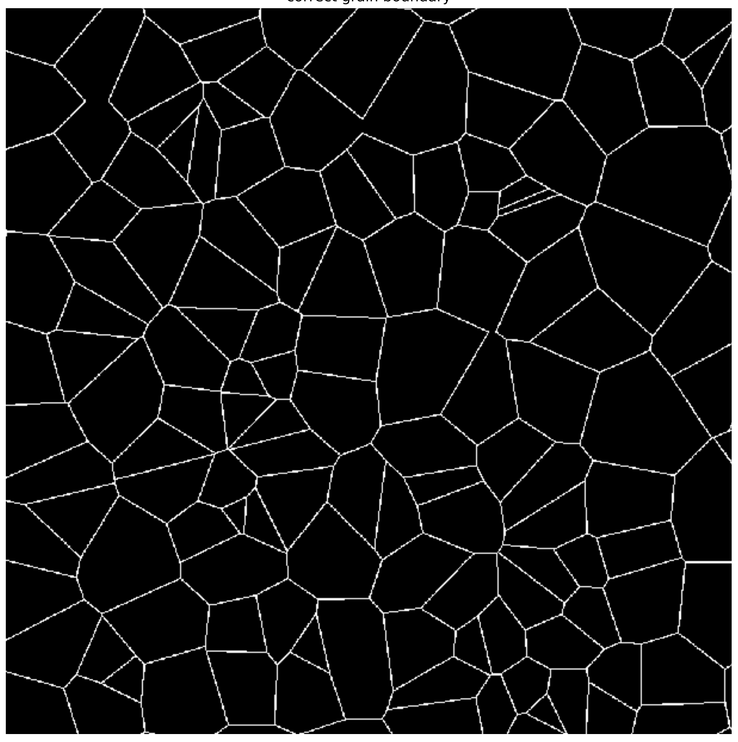
original



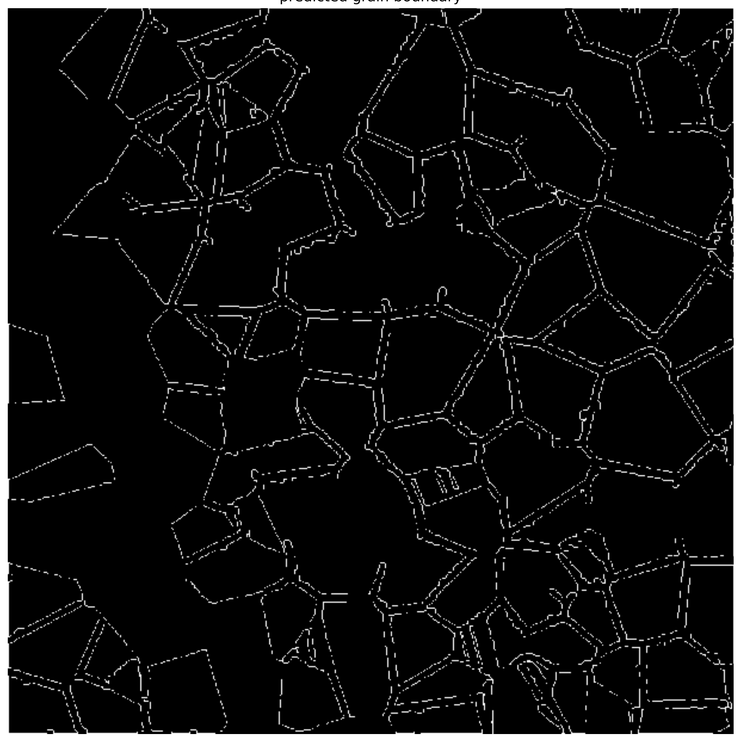
metrics

metric	correct	predicted	error
dark frac	0.428	0.418	0.963%
white frac	0.510	0.461	4.937%
line frac	0.062	0.038	2.471%
ave grain diameter	92.454	89.769	2.904%

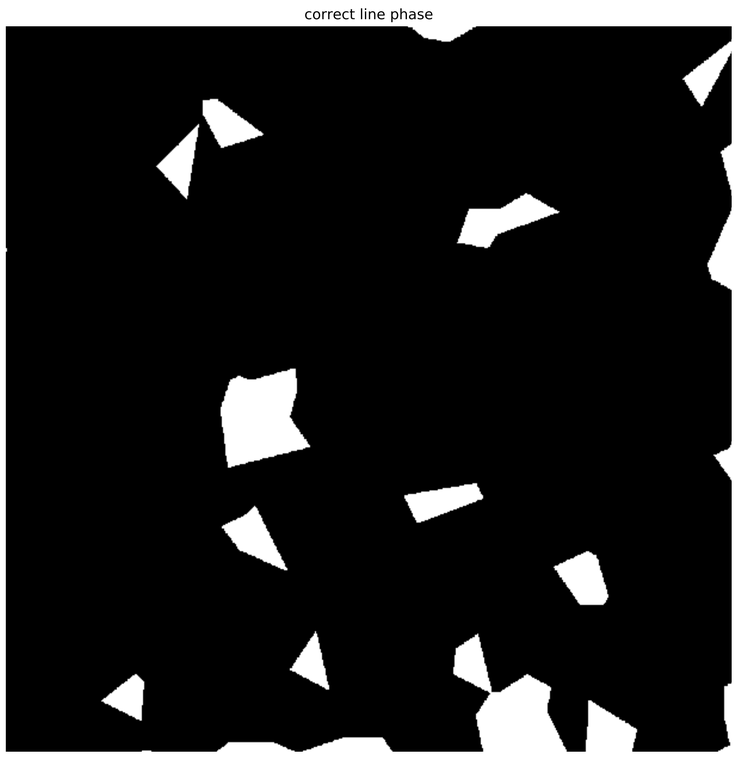
correct grain boundary



predicted grain boundary



correct line phase

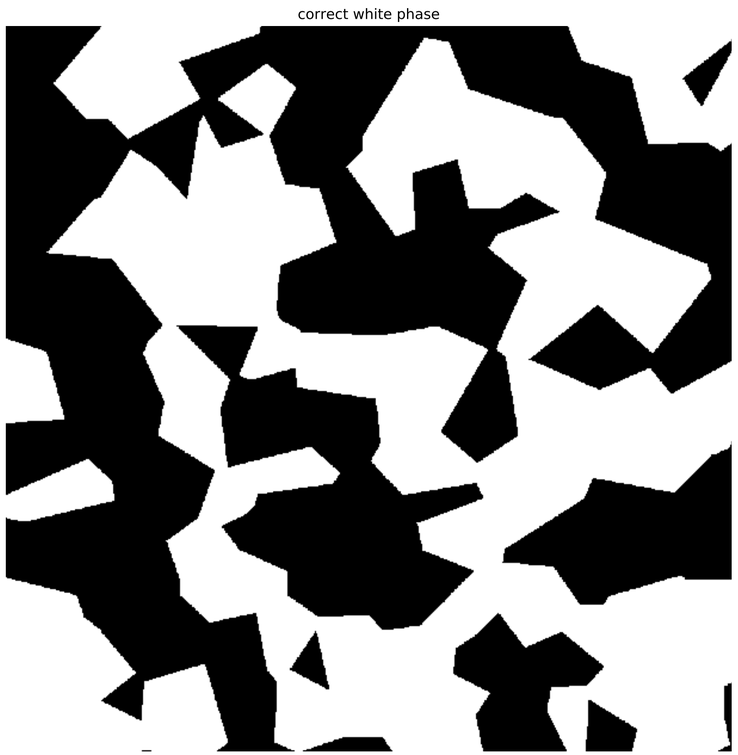


predicted line phase

correct dark phase

predicted dark phase

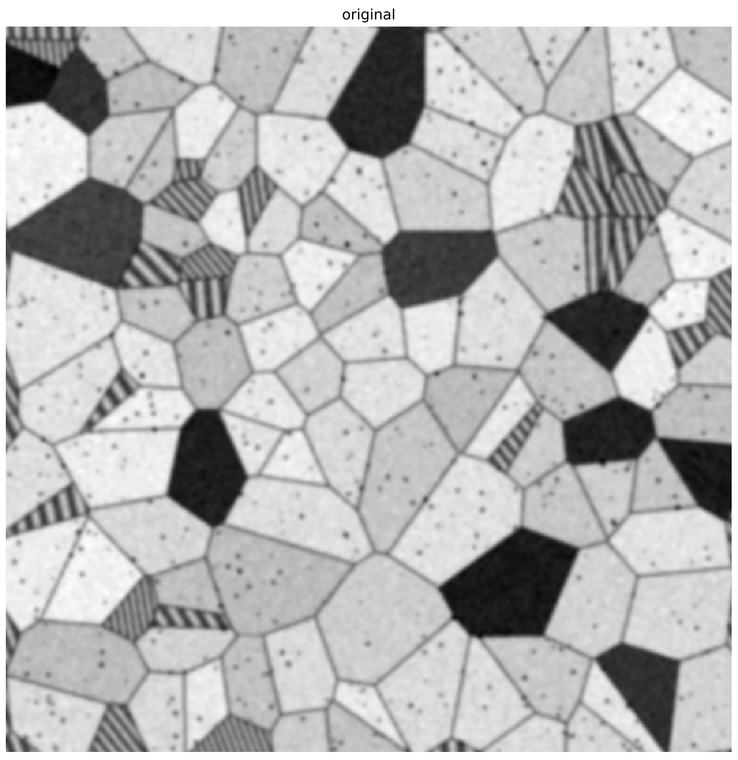
correct white phase



predicted white phase

data/base microstructure/image_61.png

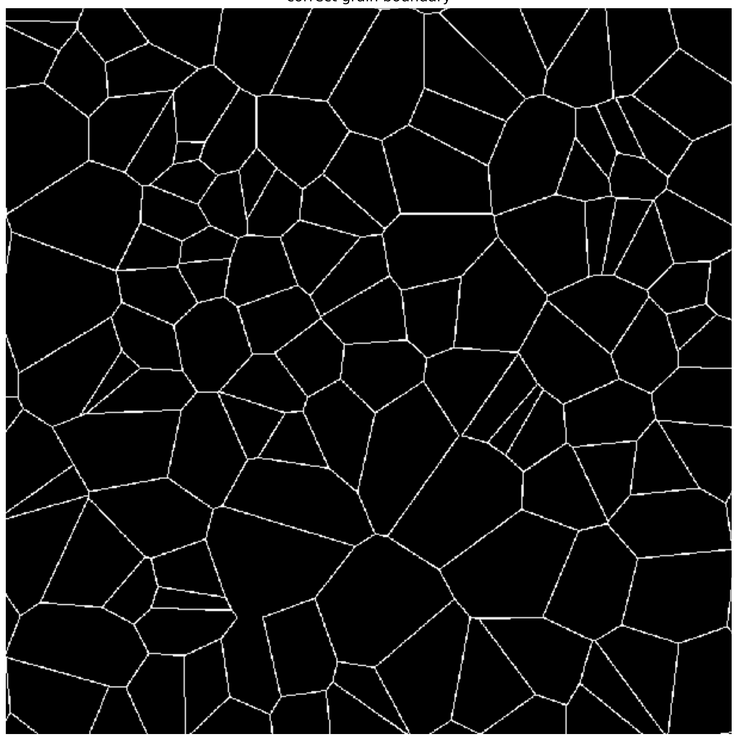
original



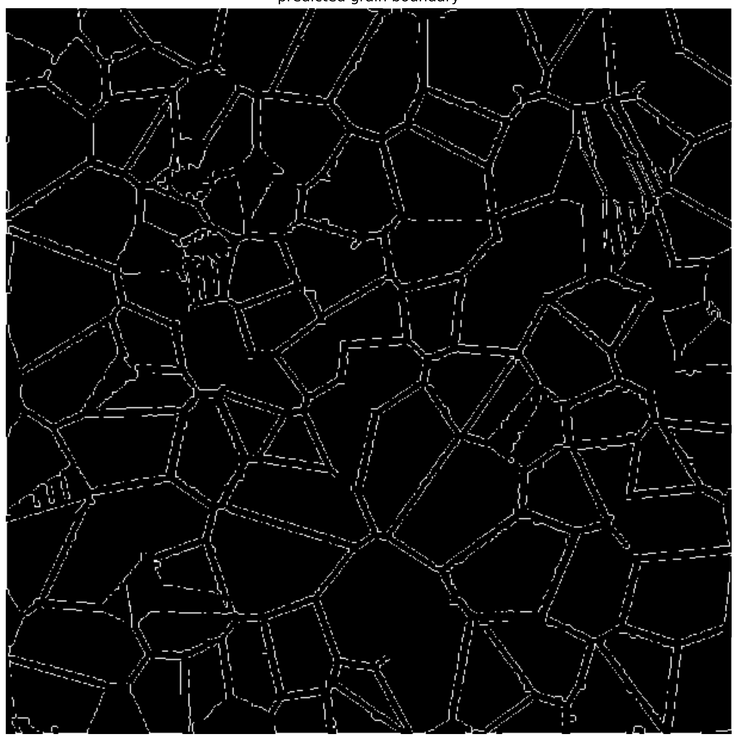
metrics

metric	correct	predicted	error
dark frac	0.121	0.118	0.294%
white frac	0.807	0.767	3.972%
line frac	0.072	0.054	1.779%
ave grain diameter	95.852	83.950	12.417%

correct grain boundary



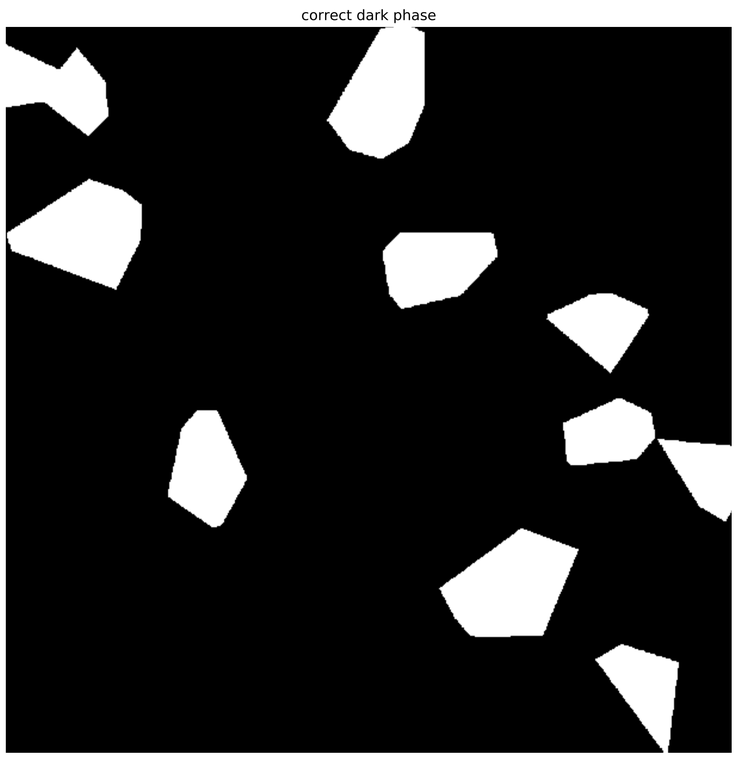
predicted grain boundary



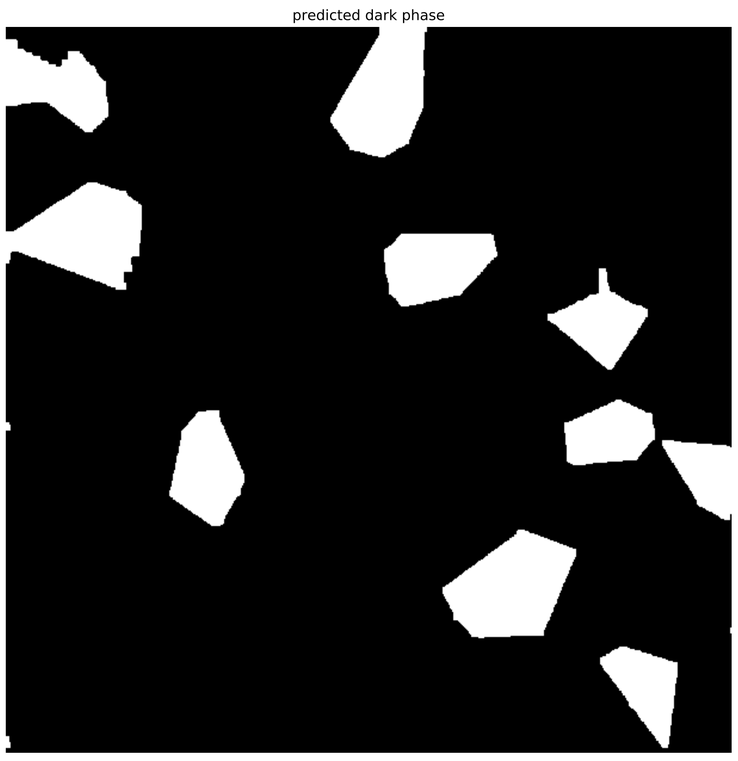
correct line phase

predicted line phase

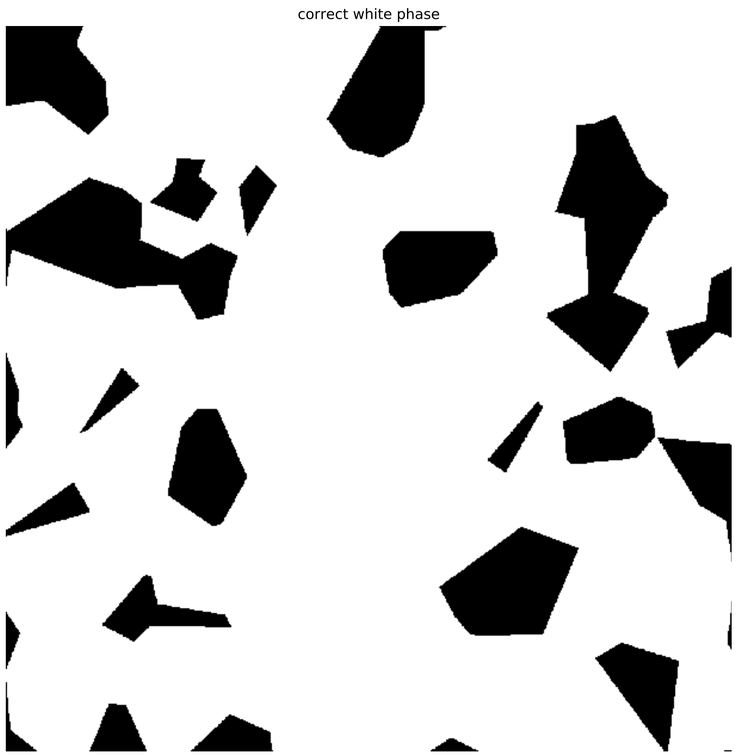
correct dark phase



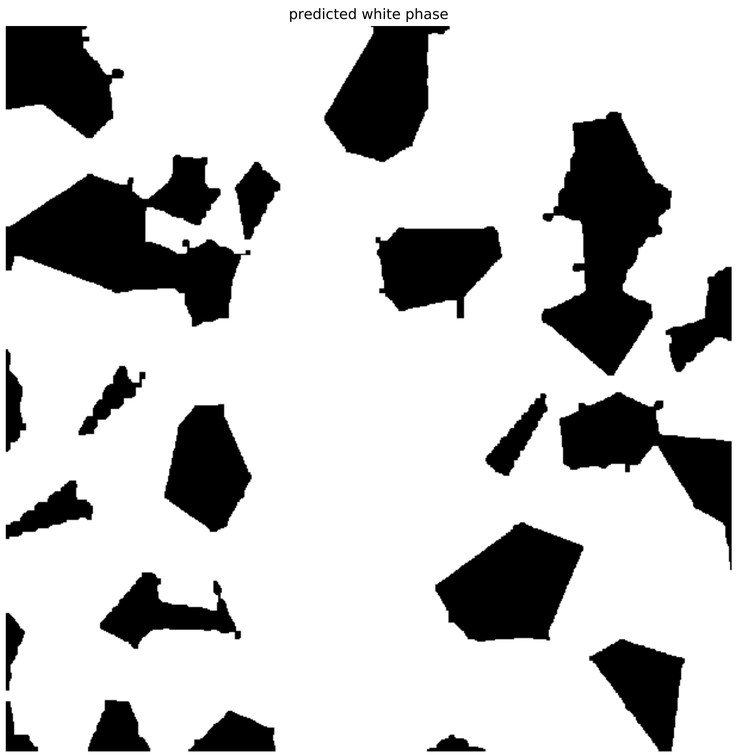
predicted dark phase



correct white phase

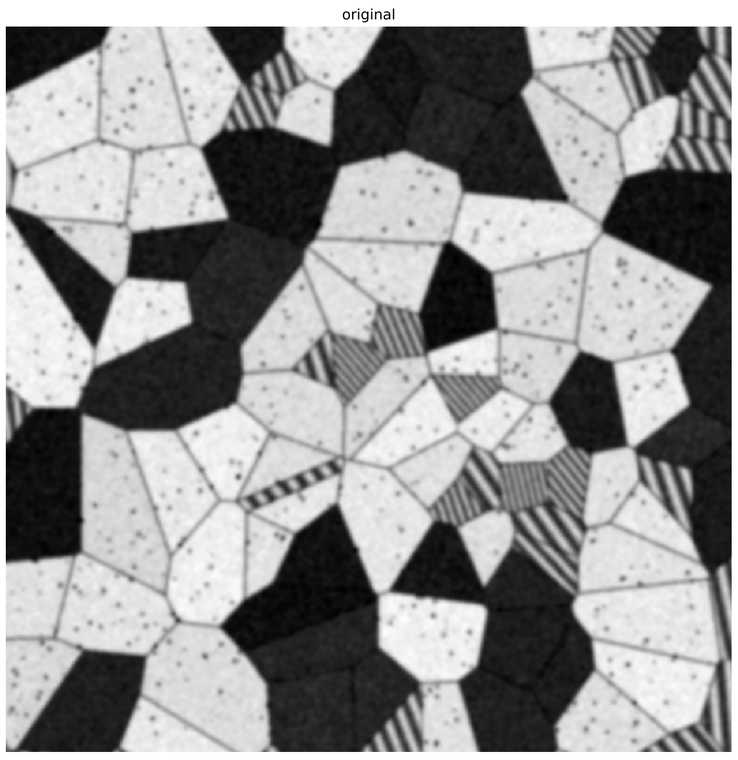


predicted white phase



data/base microstructure/image_62.png

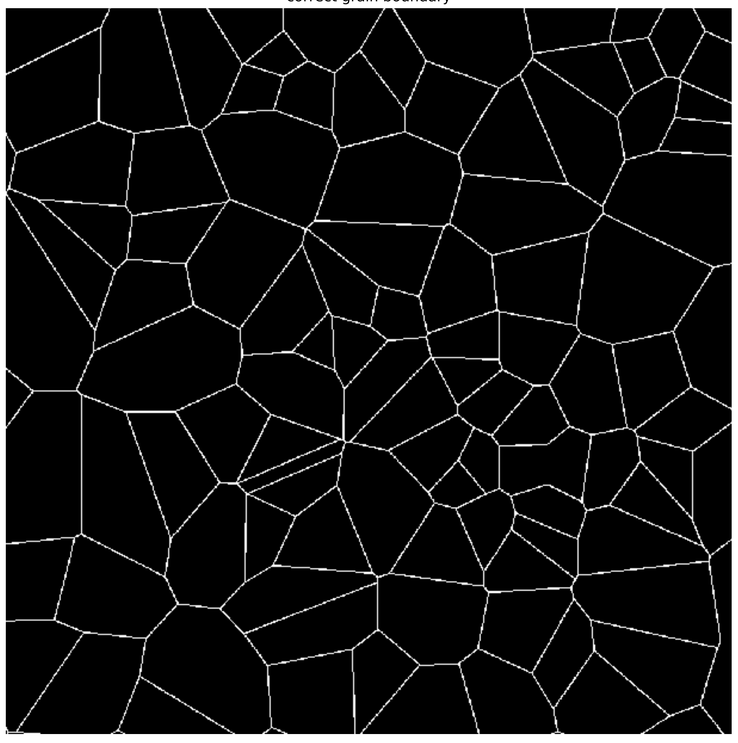
original



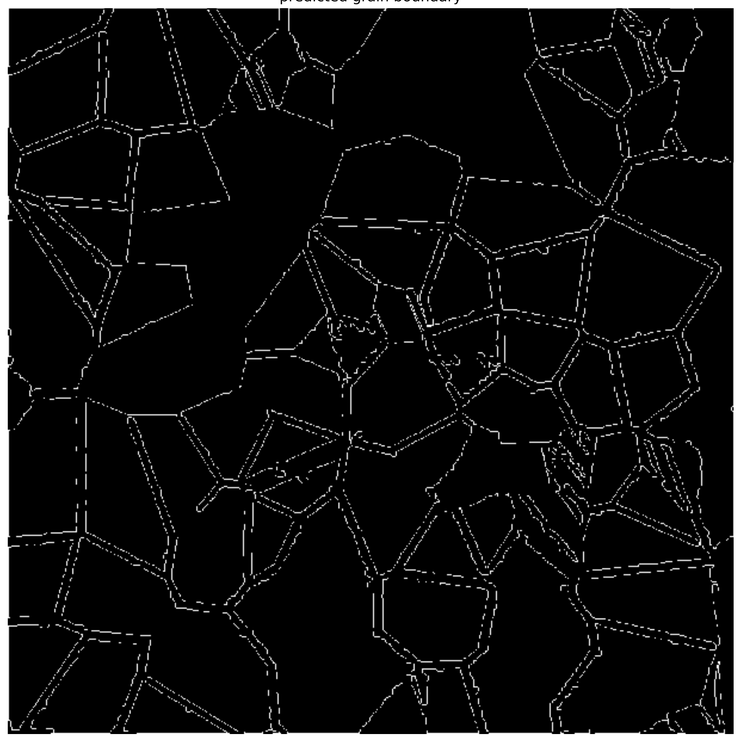
metrics

metric	correct	predicted	error
dark frac	0.347	0.339	0.811%
white frac	0.565	0.529	3.594%
line frac	0.088	0.058	3.032%
ave grain diameter	103.298	103.763	0.450%

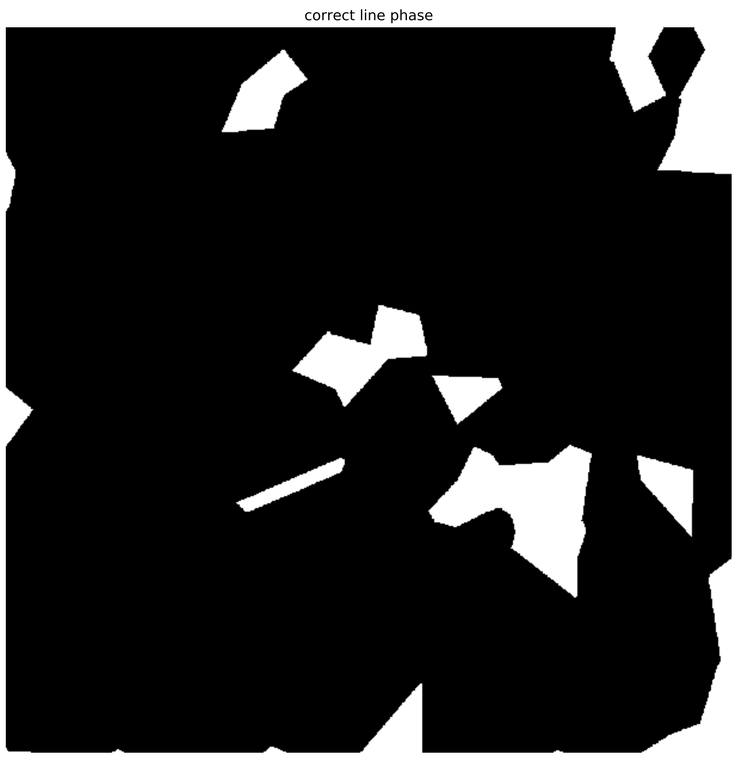
correct grain boundary



predicted grain boundary

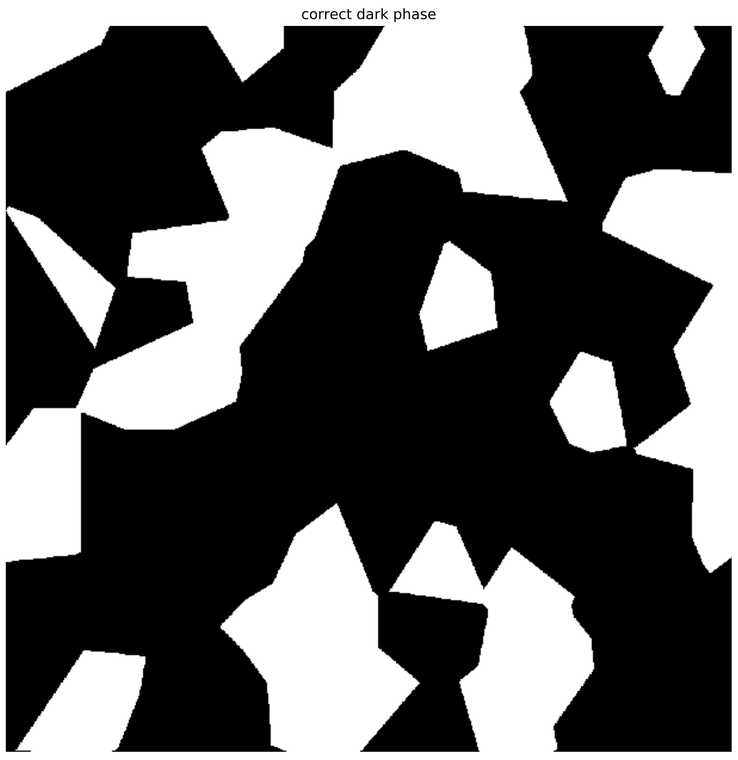


correct line phase



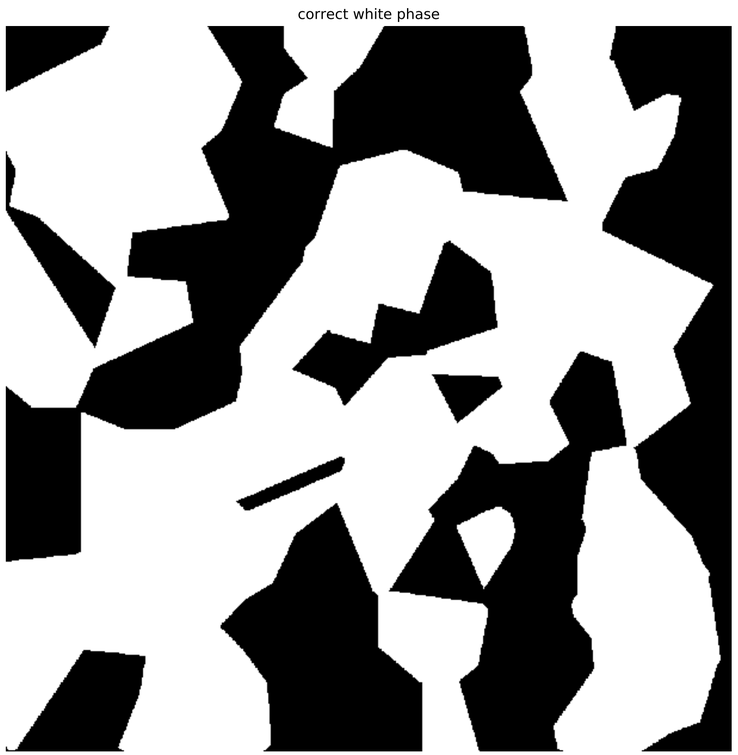
predicted line phase

correct dark phase



predicted dark phase

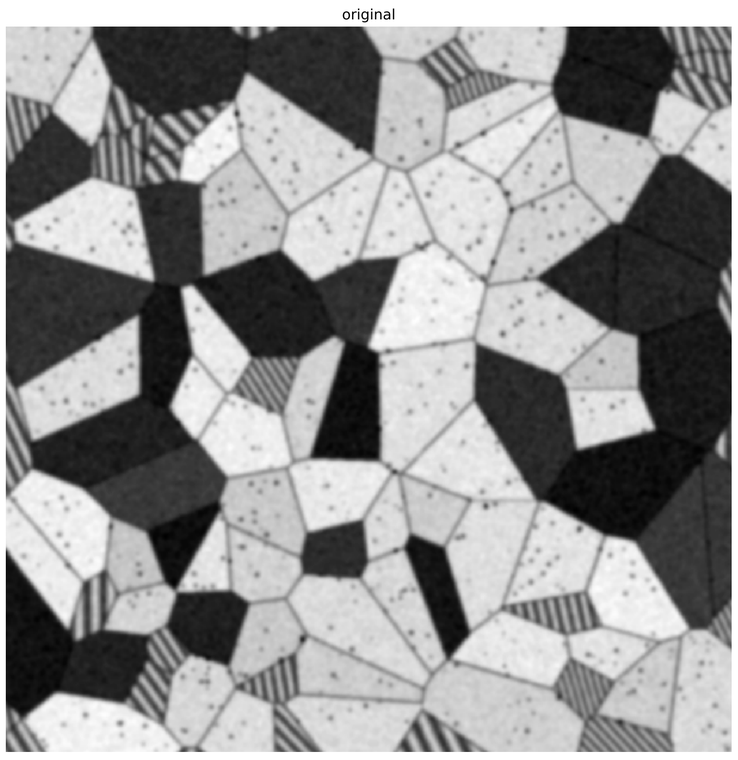
correct white phase



predicted white phase

data/base microstructure/image_63.png

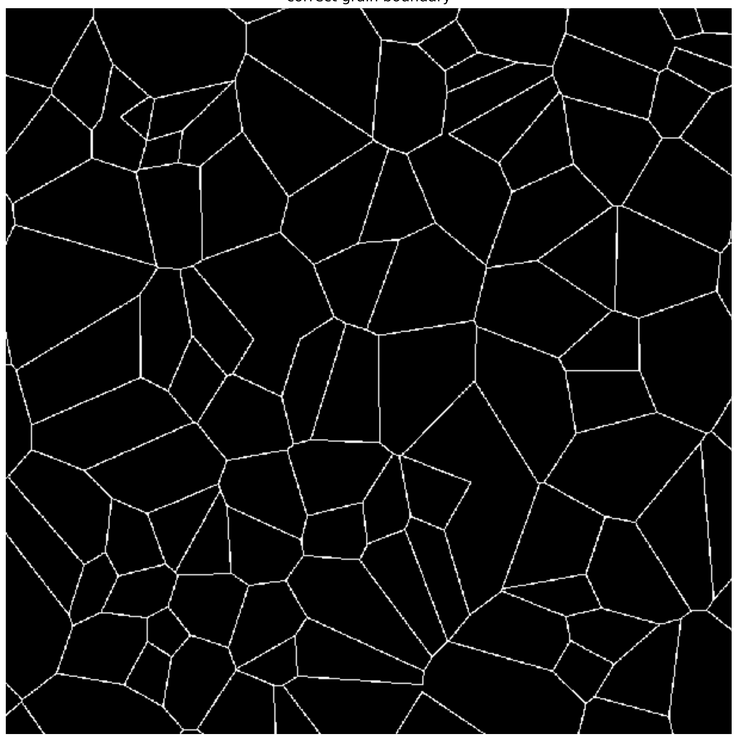
original



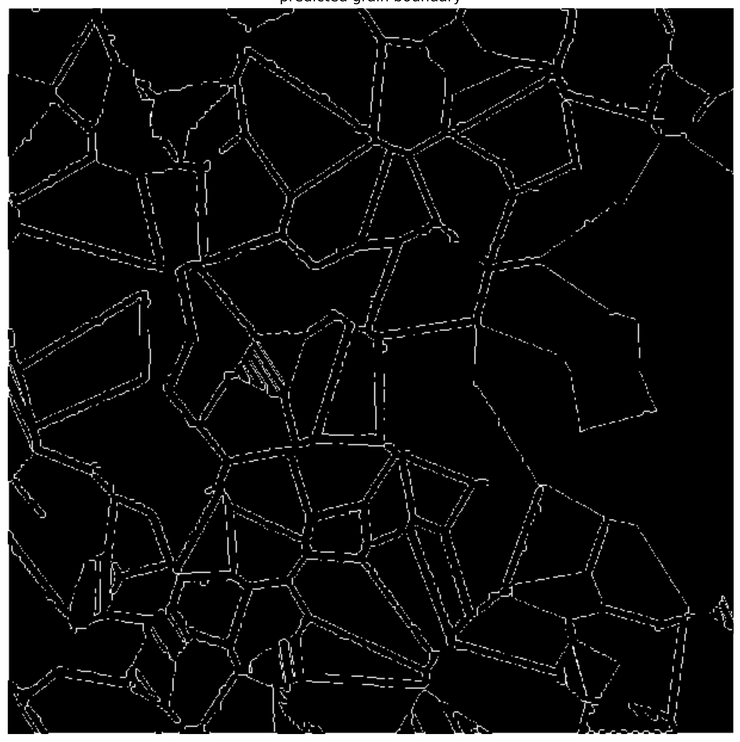
metrics

metric	correct	predicted	error
dark frac	0.347	0.340	0.731%
white frac	0.572	0.531	4.016%
line frac	0.081	0.054	2.687%
ave grain diameter	102.170	98.953	3.149%

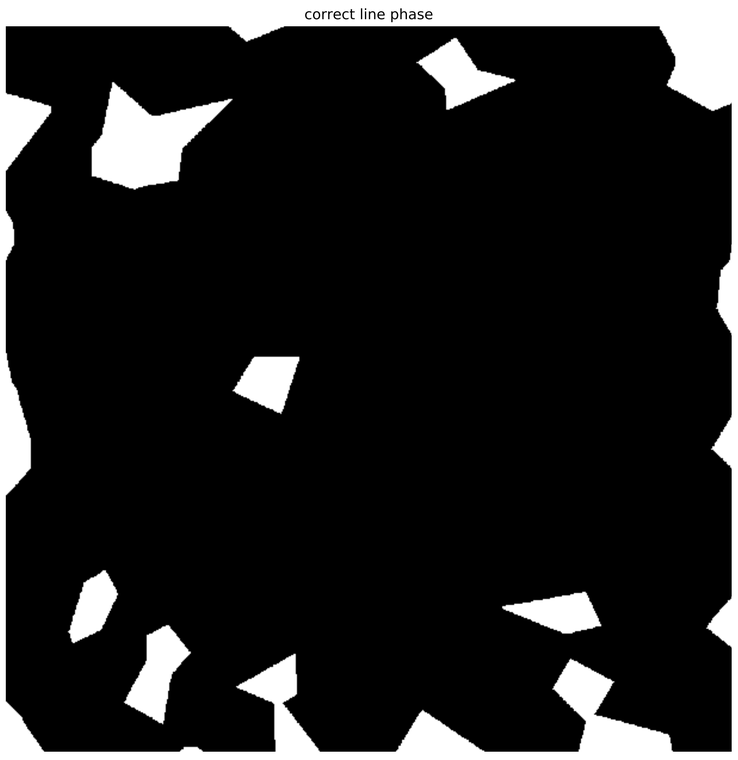
correct grain boundary



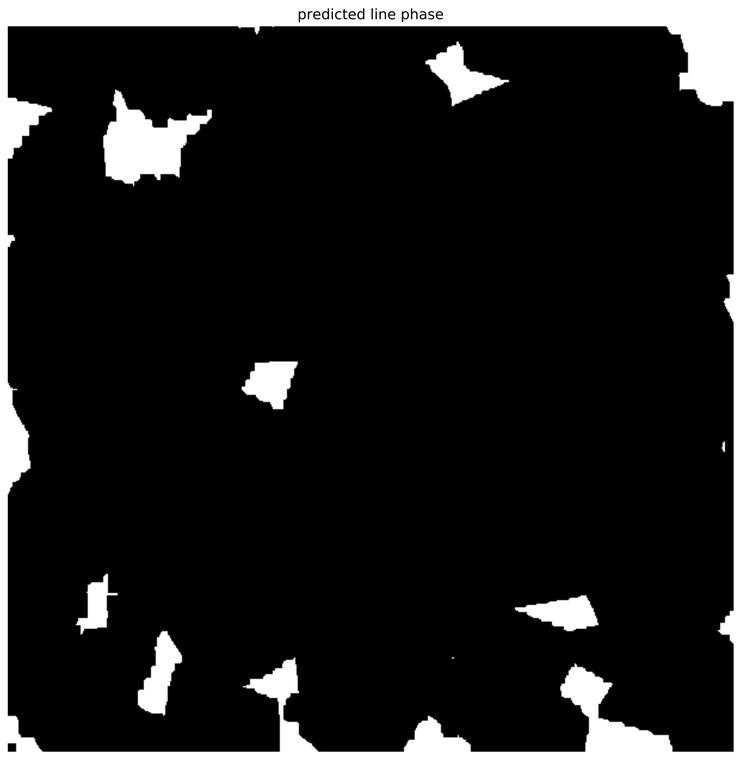
predicted grain boundary



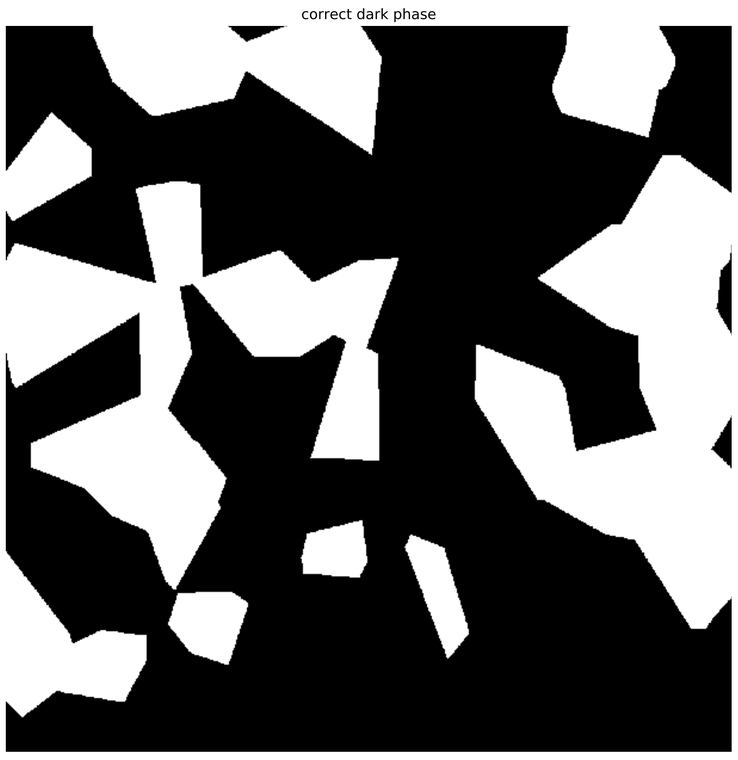
correct line phase



predicted line phase

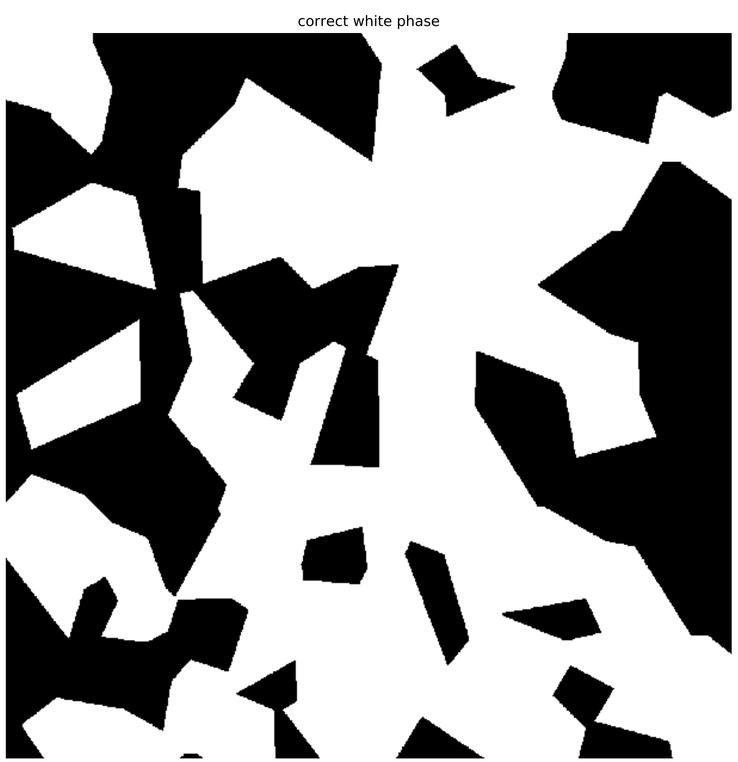


correct dark phase

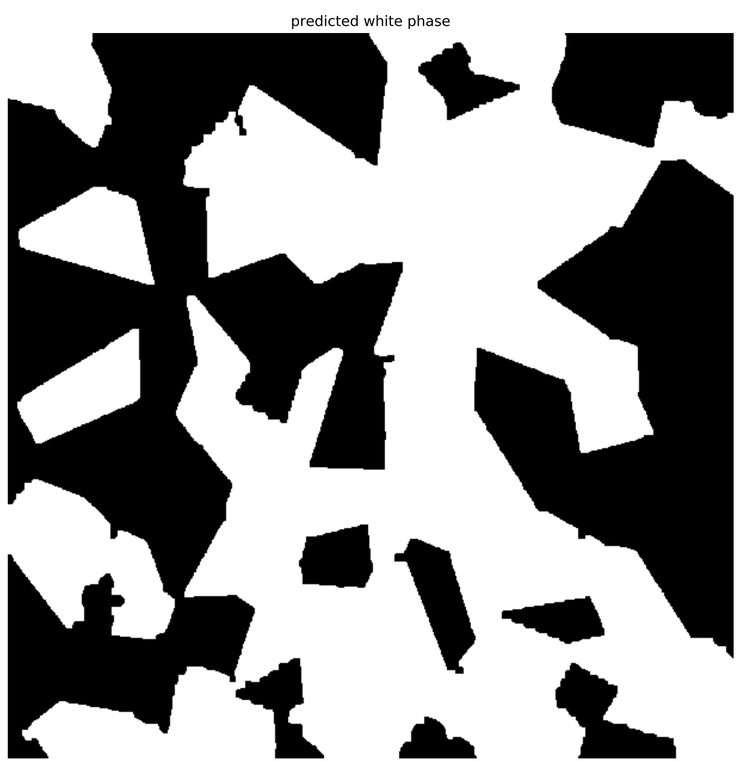


predicted dark phase

correct white phase

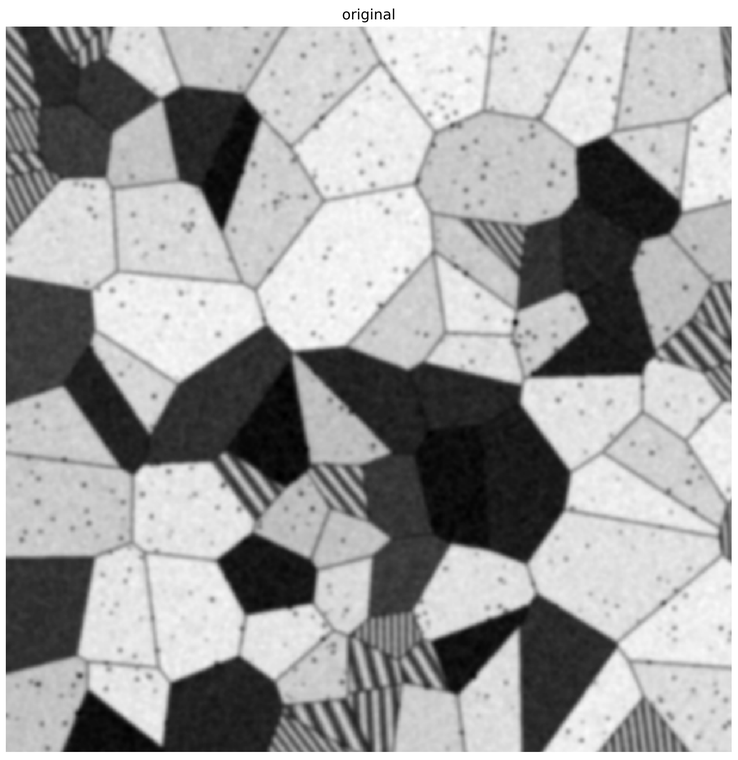


predicted white phase



data/base microstructure/image_64.png

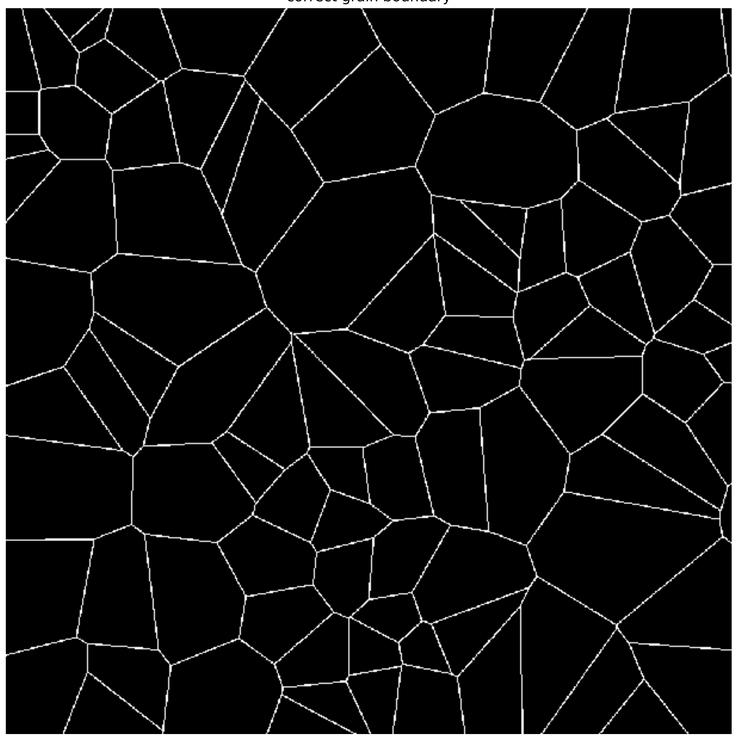
original



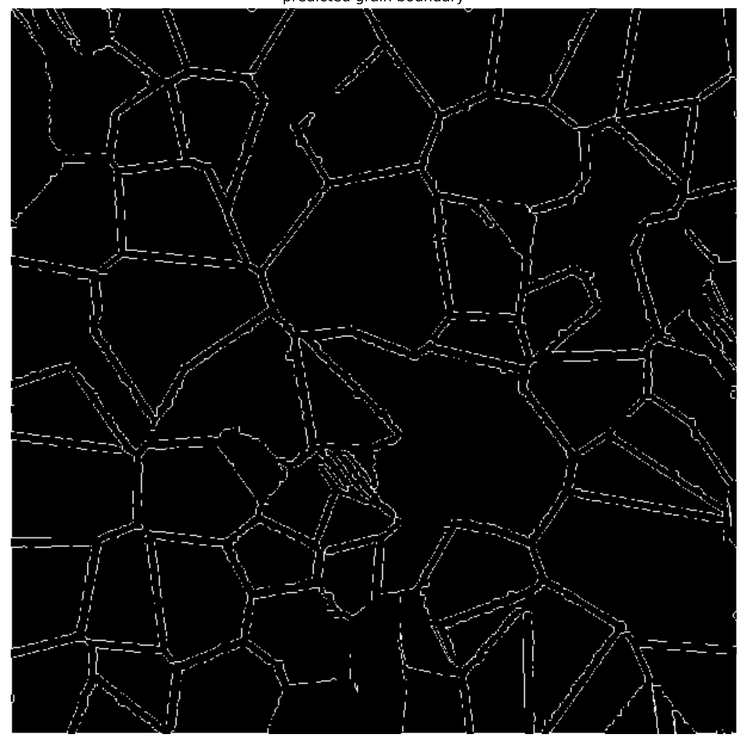
metrics

metric	correct	predicted	error
dark frac	0.277	0.270	0.665%
white frac	0.656	0.621	3.581%
line frac	0.067	0.049	1.812%
ave grain diameter	109.764	119.660	9.016%

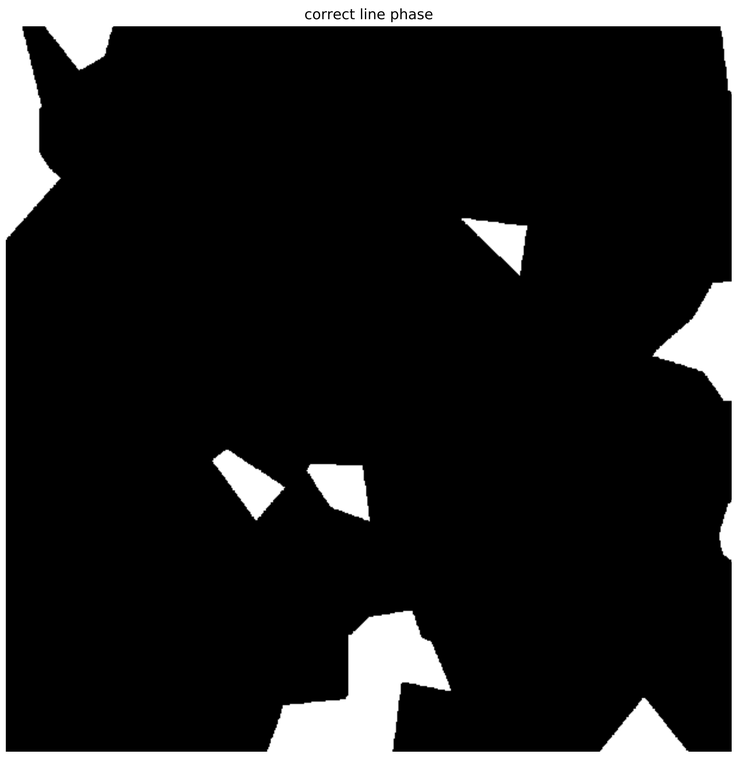
correct grain boundary



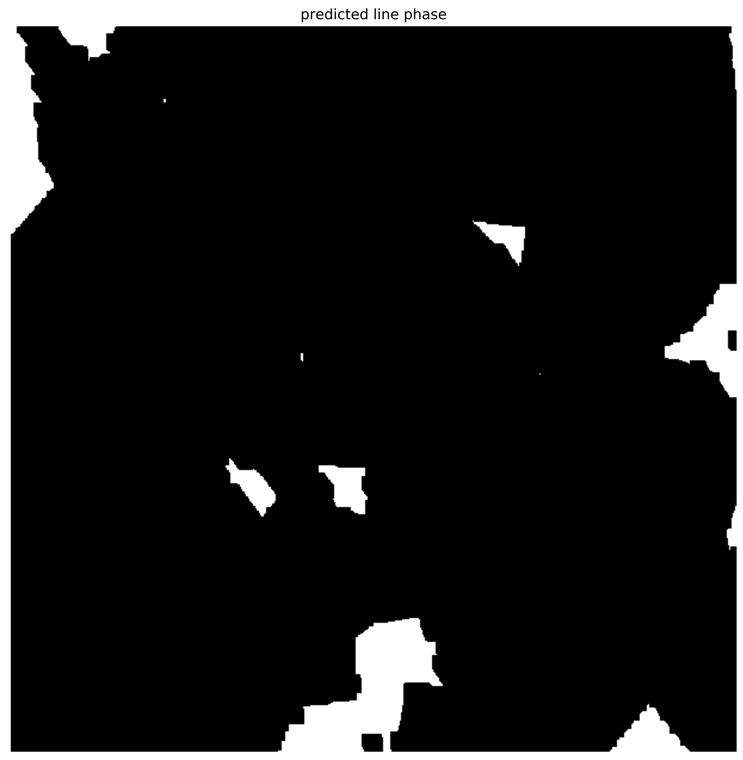
predicted grain boundary



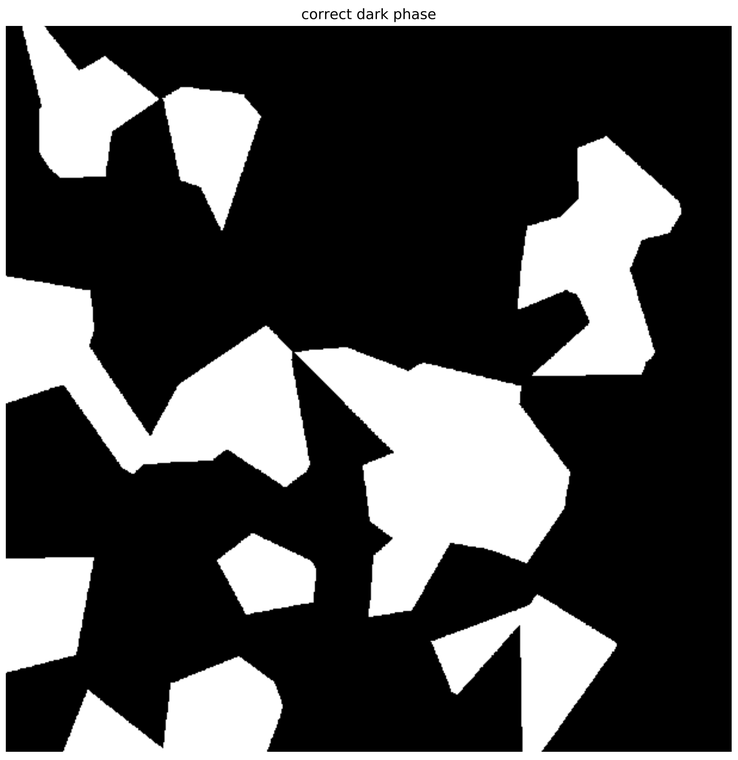
correct line phase



predicted line phase



correct dark phase



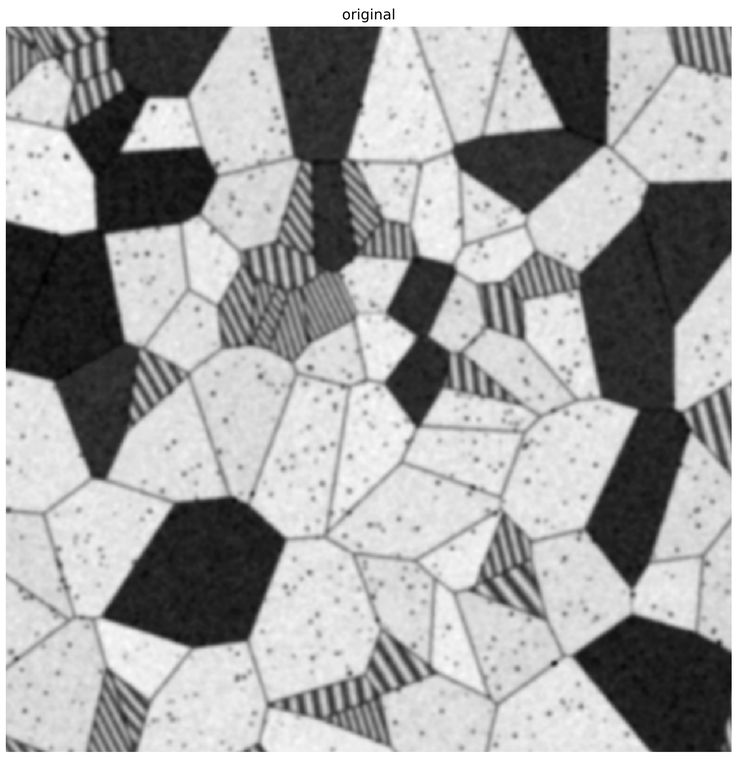
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_65.png

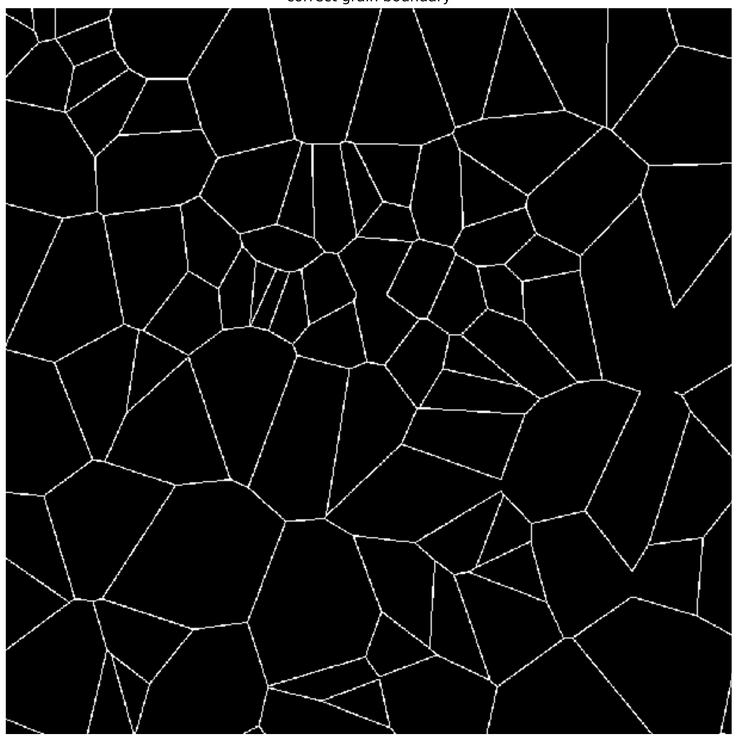
original



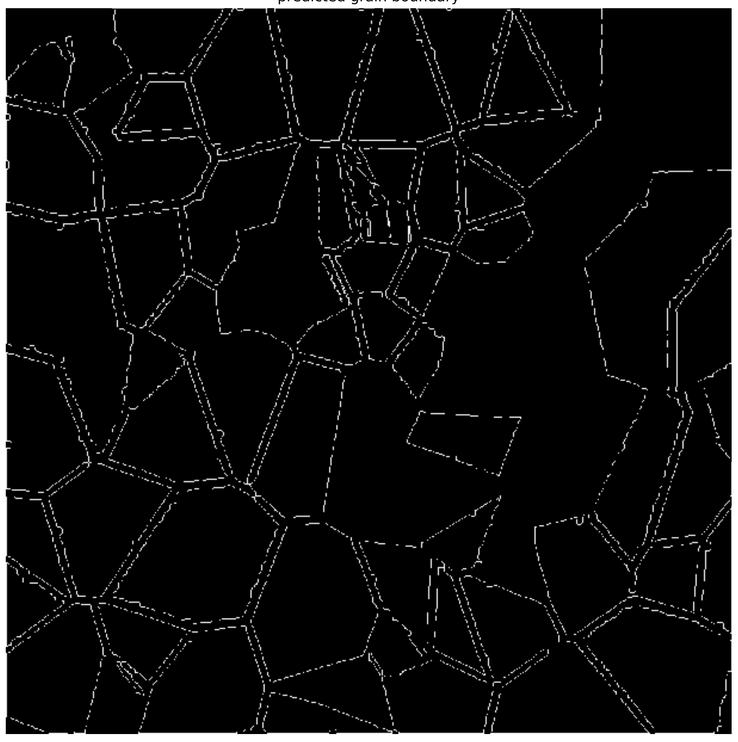
metrics

metric	correct	predicted	error
dark frac	0.266	0.260	0.593%
white frac	0.638	0.600	3.799%
line frac	0.097	0.072	2.439%
ave grain diameter	107.711	103.663	3.759%

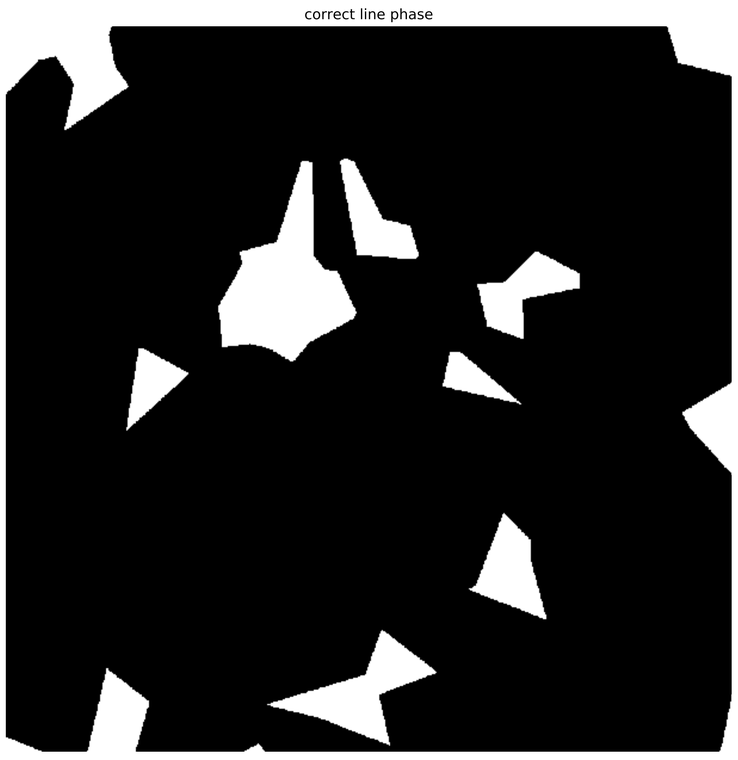
correct grain boundary



predicted grain boundary



correct line phase



predicted line phase

correct dark phase

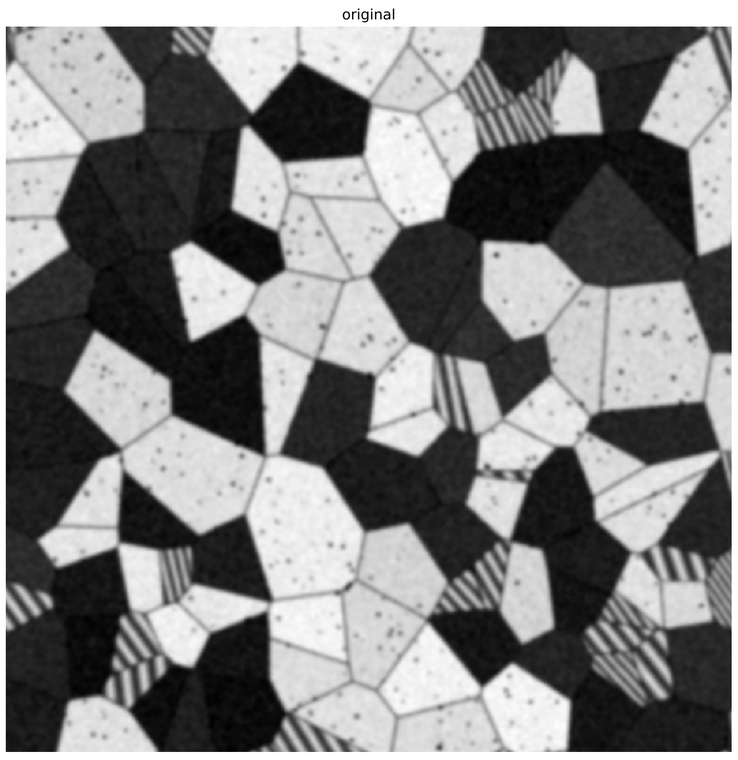
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_66.png

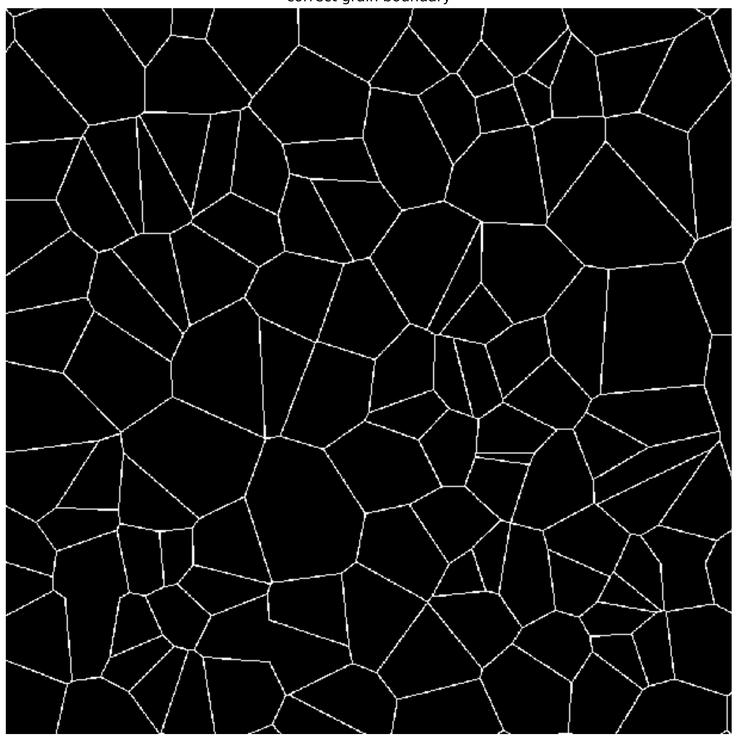
original



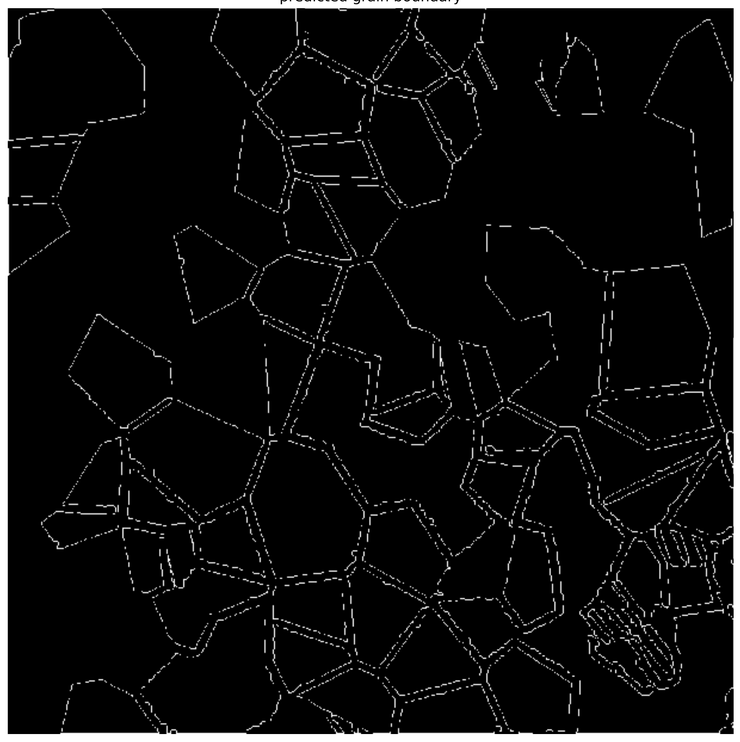
metrics

metric	correct	predicted	error
dark frac	0.457	0.445	1.206%
white frac	0.478	0.437	4.051%
line frac	0.065	0.038	2.707%
ave grain diameter	95.757	84.734	11.511%

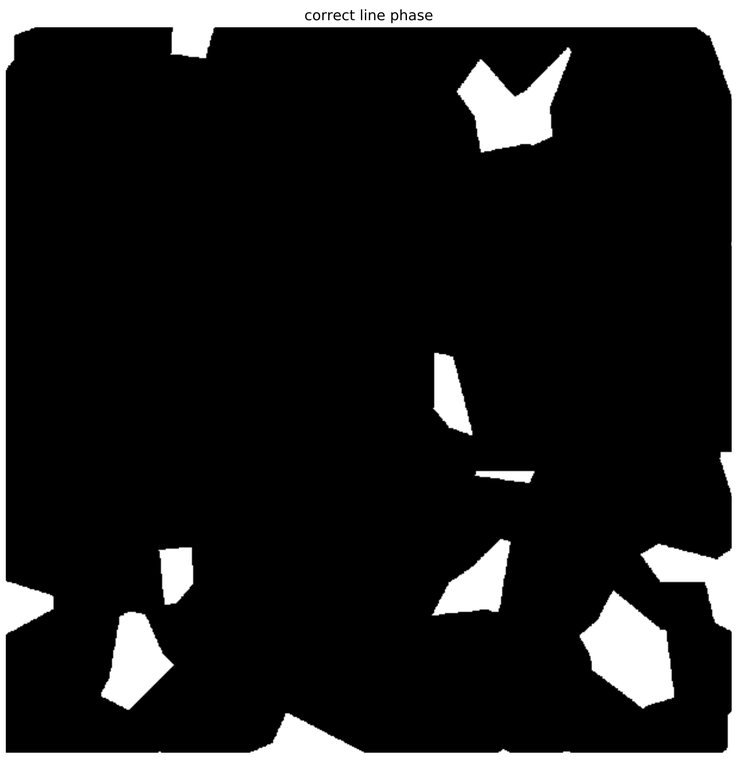
correct grain boundary



predicted grain boundary

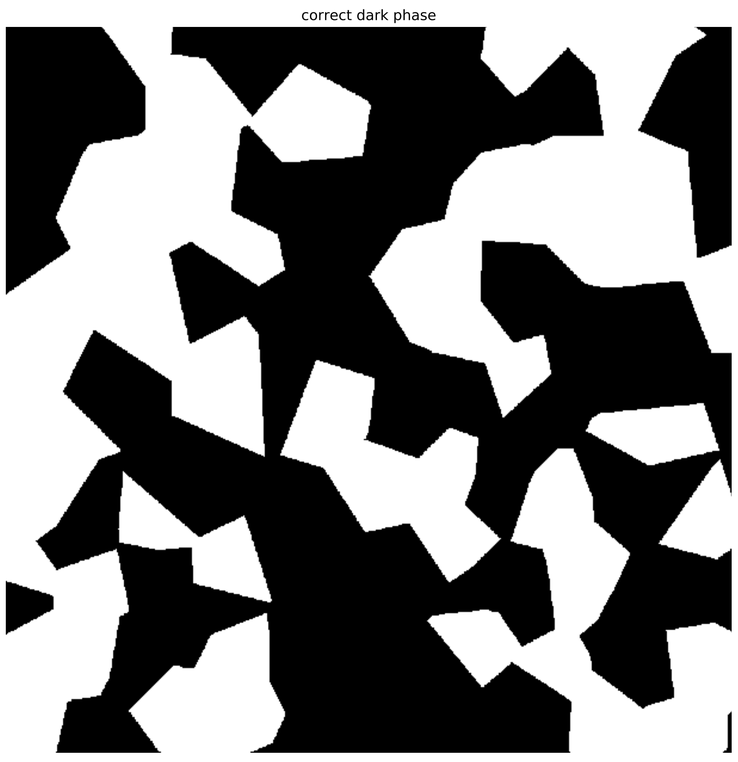


correct line phase



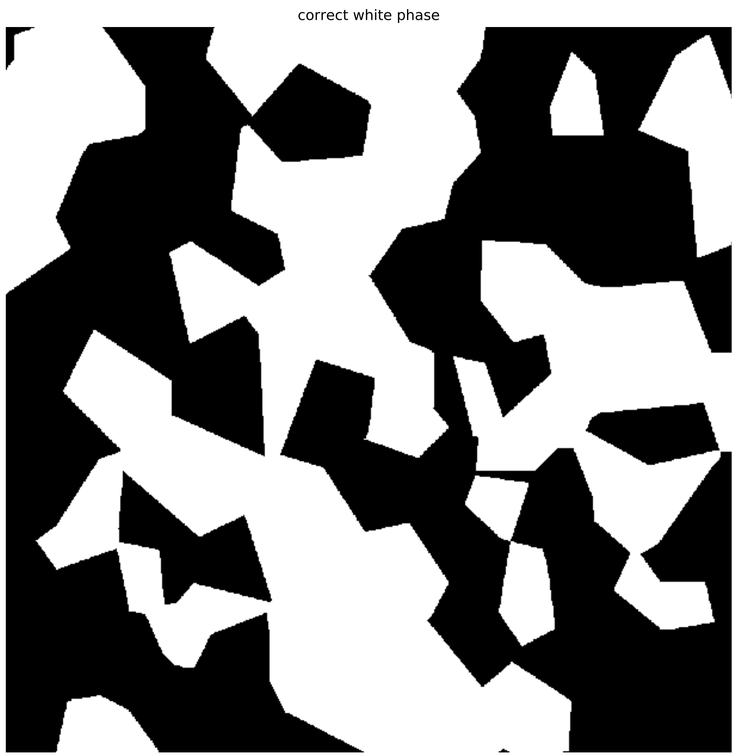
predicted line phase

correct dark phase



predicted dark phase

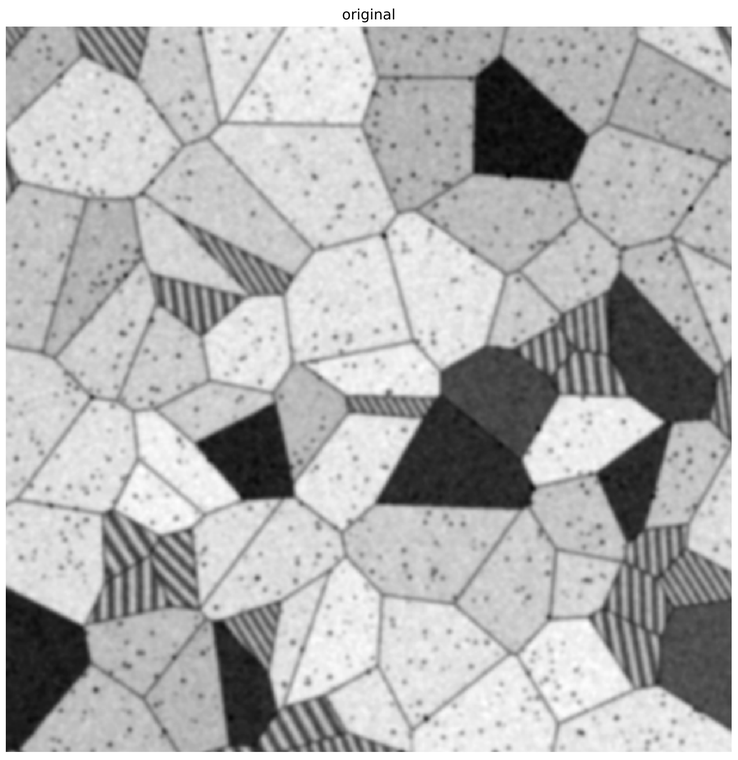
correct white phase



predicted white phase

data/base microstructure/image_67.png

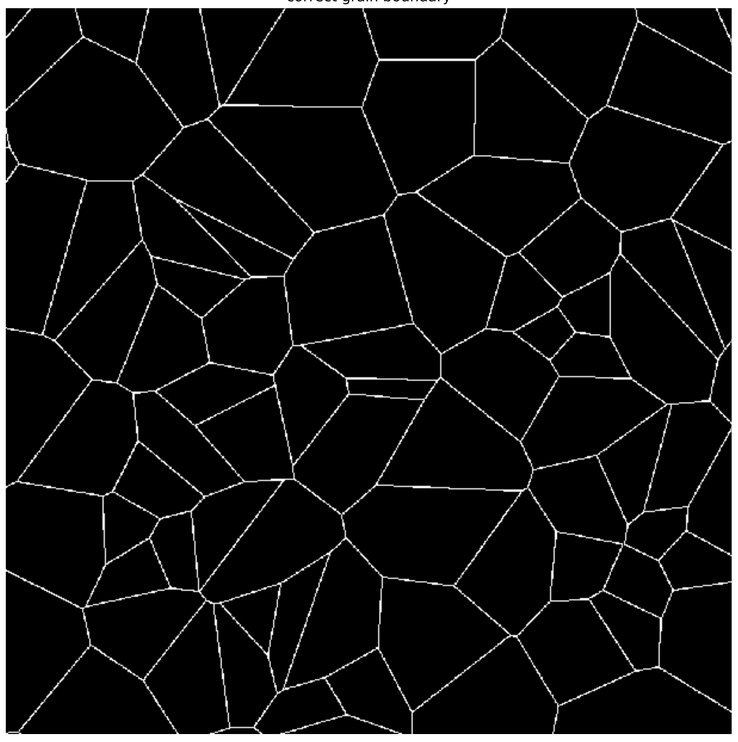
original



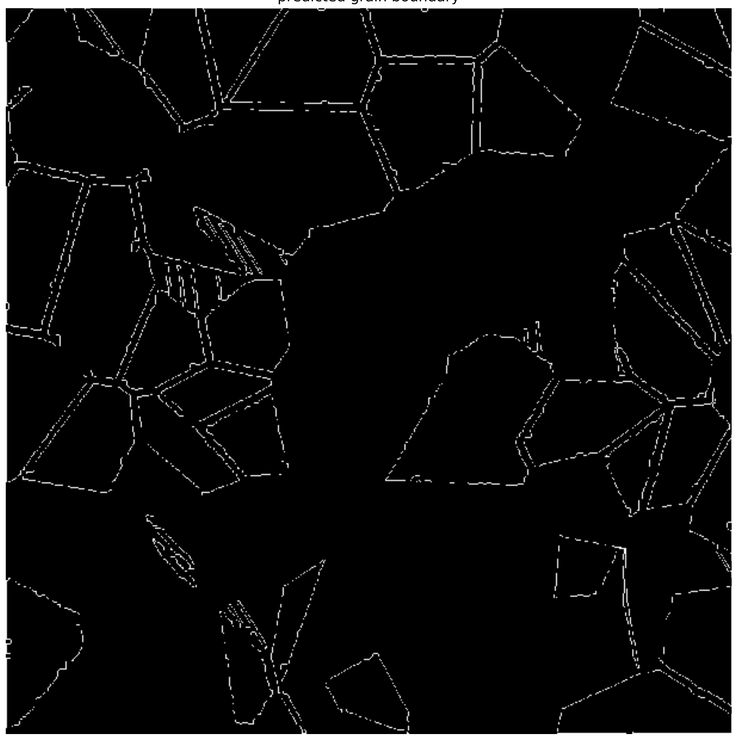
metrics

metric	correct	predicted	error
dark frac	0.128	0.128	0.012%
white frac	0.787	0.746	4.121%
line frac	0.085	0.065	1.923%
ave grain diameter	119.399	95.503	20.013%

correct grain boundary



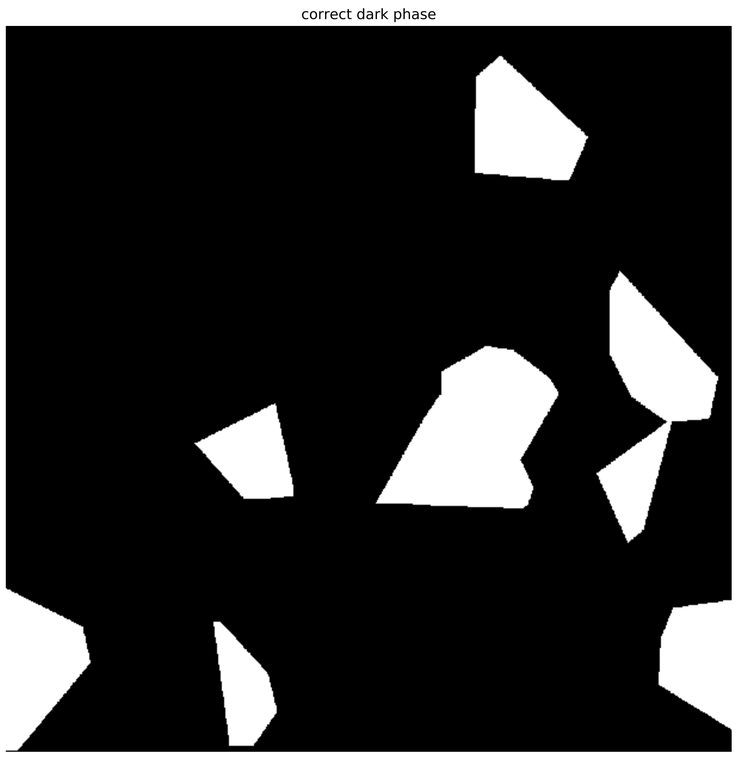
predicted grain boundary



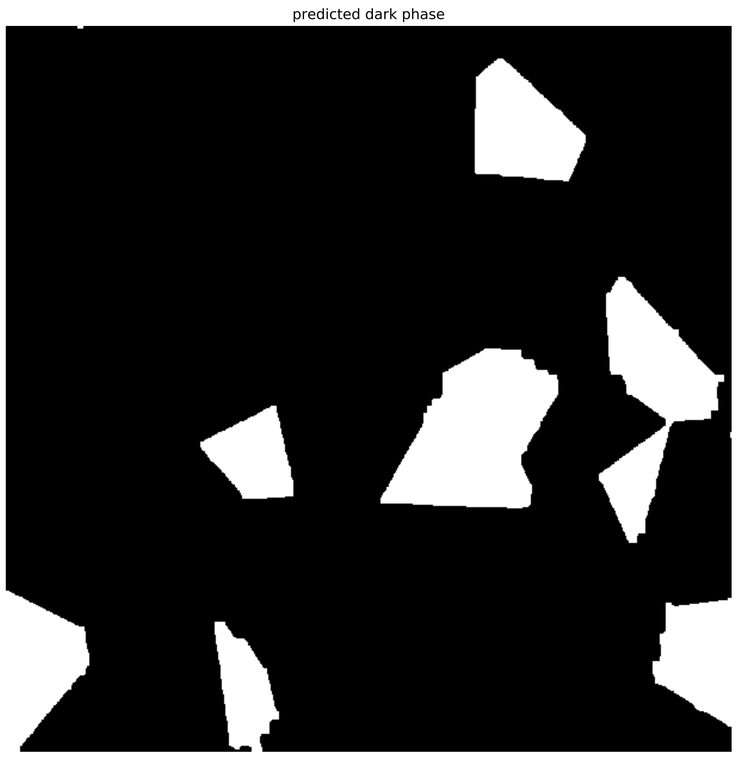
correct line phase

predicted line phase

correct dark phase



predicted dark phase

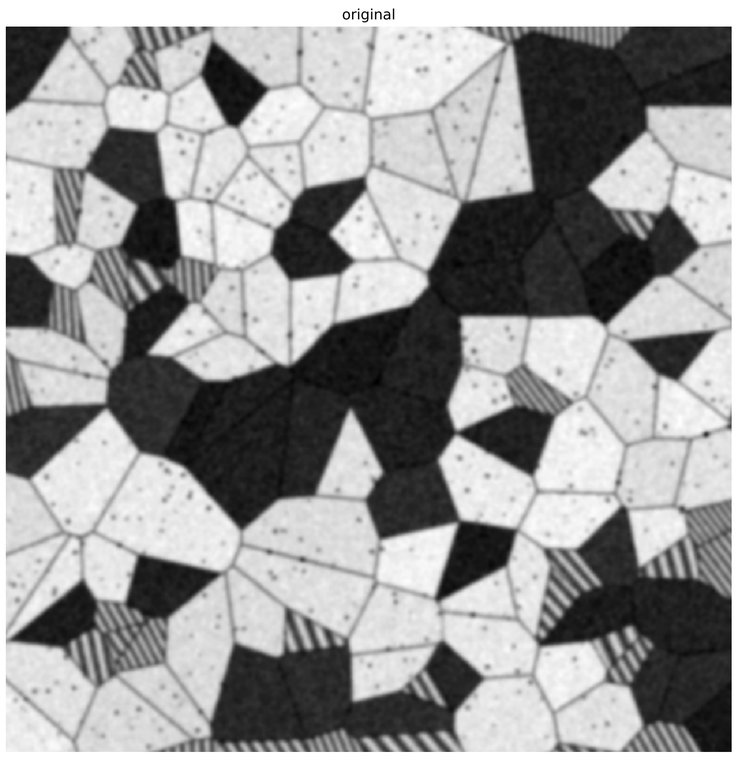


correct white phase

predicted white phase

data/base microstructure/image_68.png

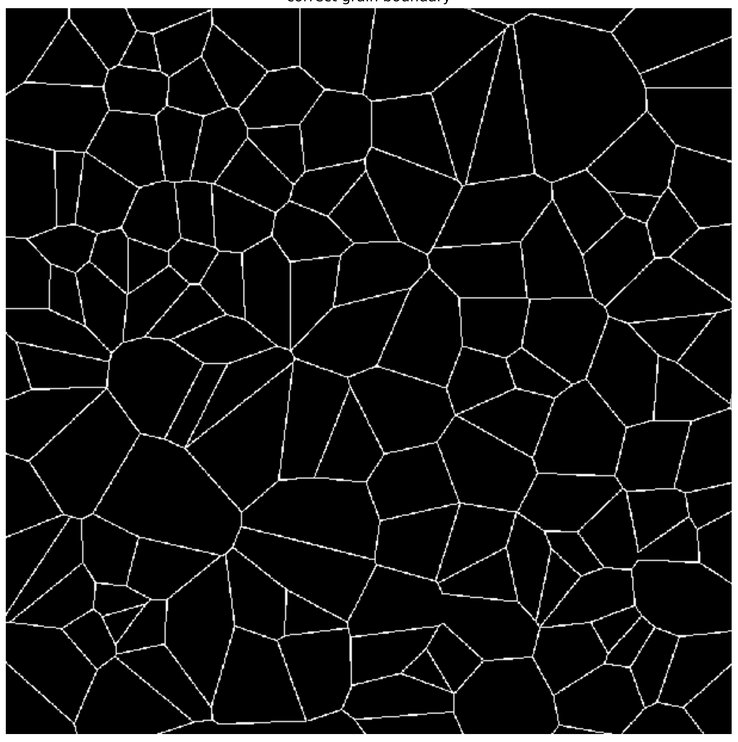
original



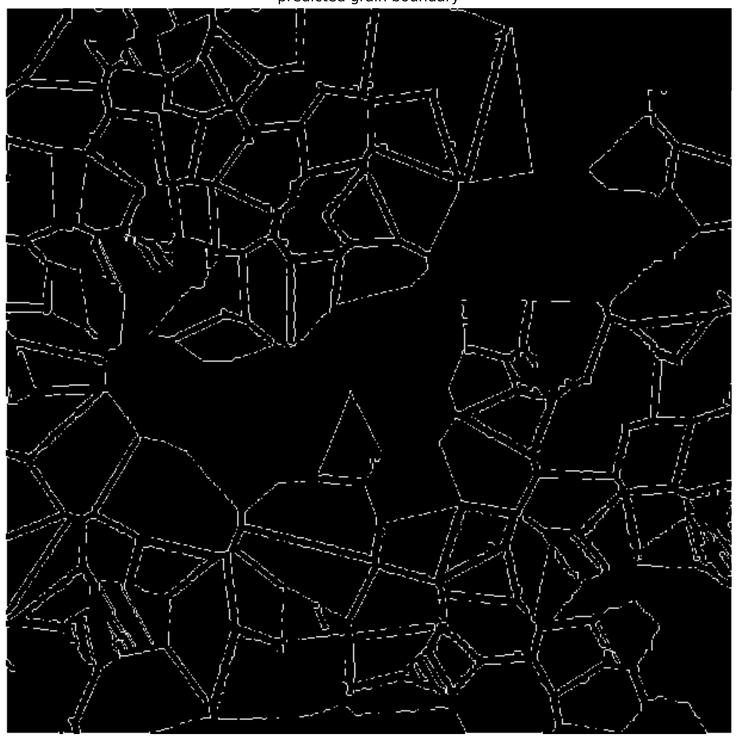
metrics

metric	correct	predicted	error
dark frac	0.339	0.330	0.894%
white frac	0.584	0.545	3.905%
line frac	0.077	0.047	3.010%
ave grain diameter	88.779	80.182	9.684%

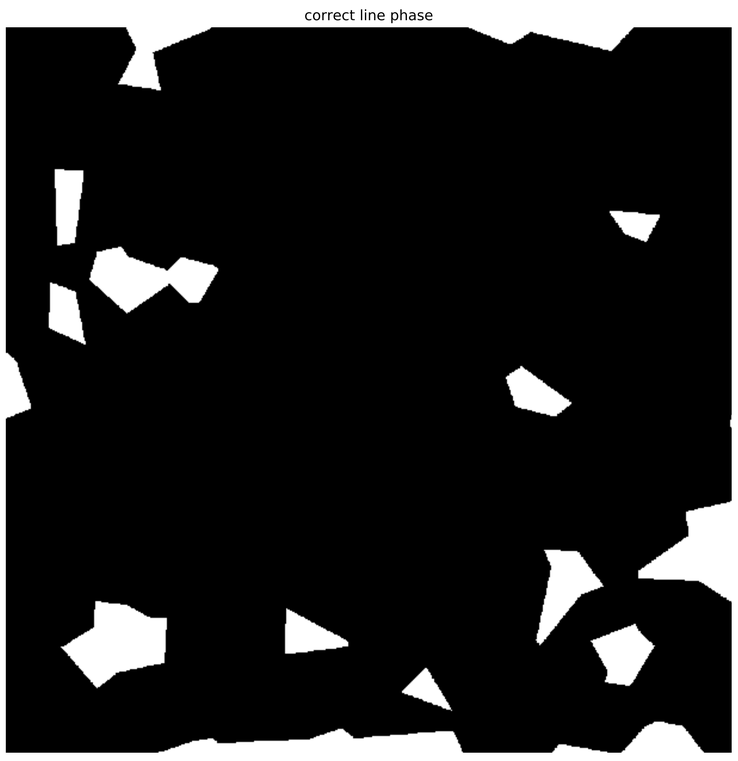
correct grain boundary



predicted grain boundary

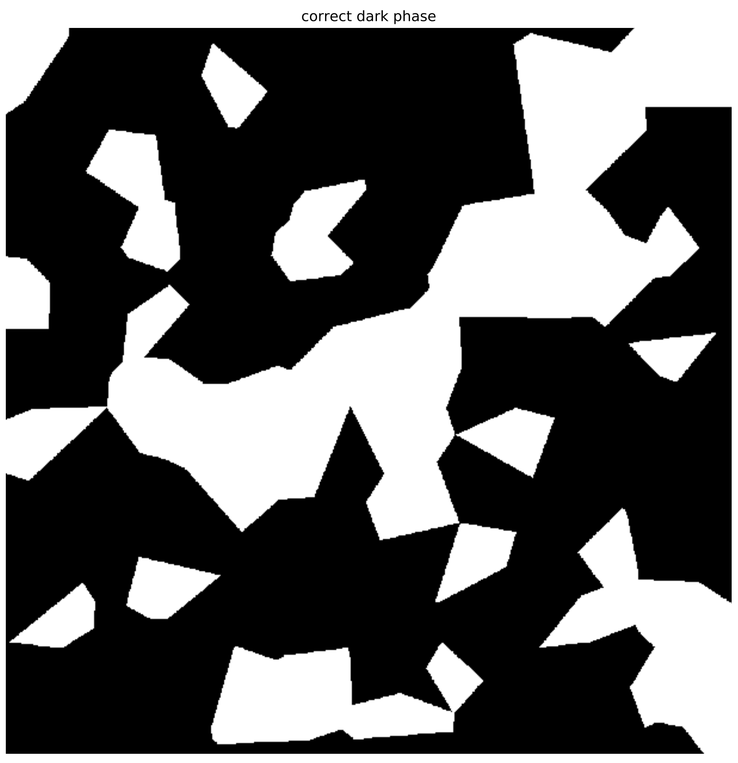


correct line phase



predicted line phase

correct dark phase



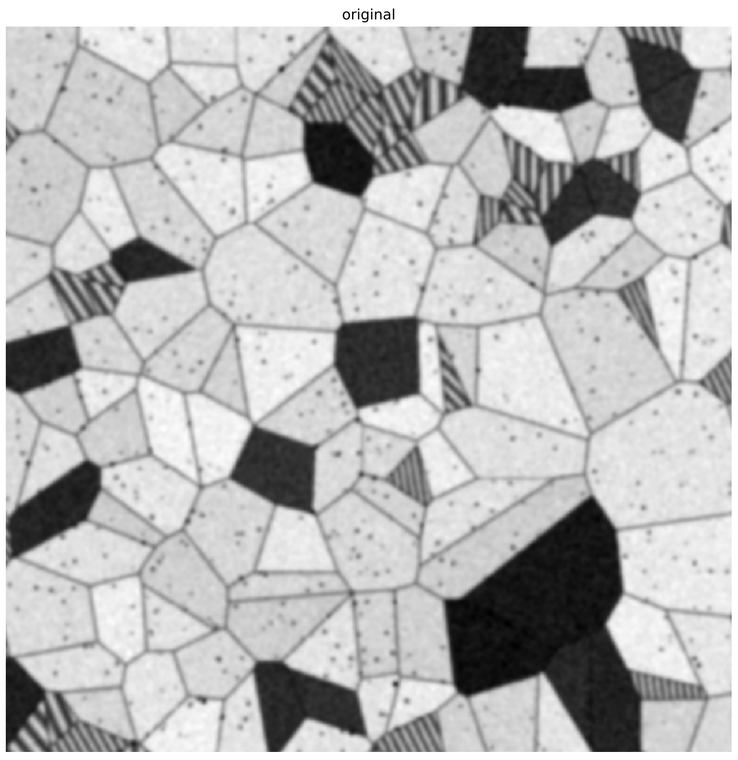
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_69.png

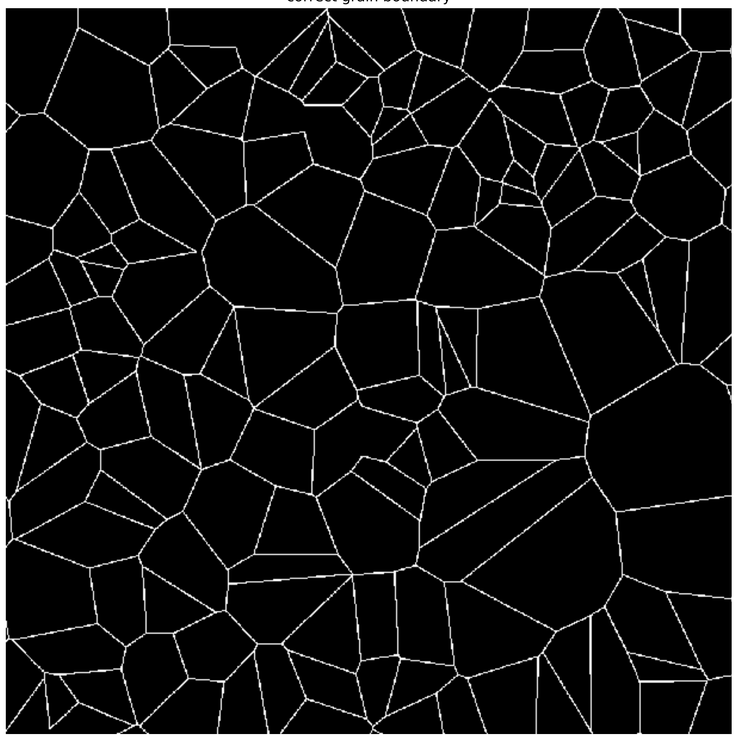
original



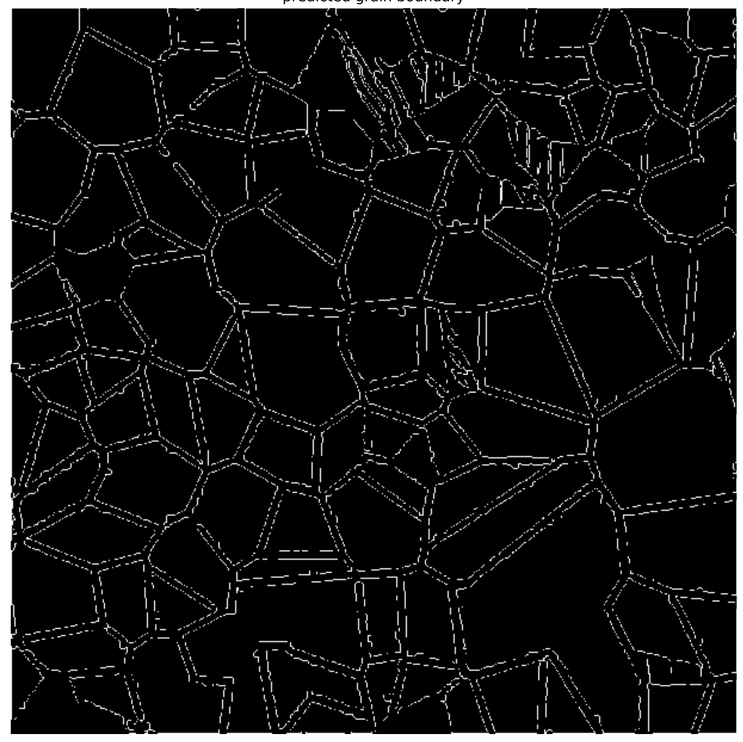
metrics

metric	correct	predicted	error
dark frac	0.145	0.140	0.484%
white frac	0.792	0.761	3.049%
line frac	0.063	0.043	1.969%
ave grain diameter	87.173	80.052	8.169%

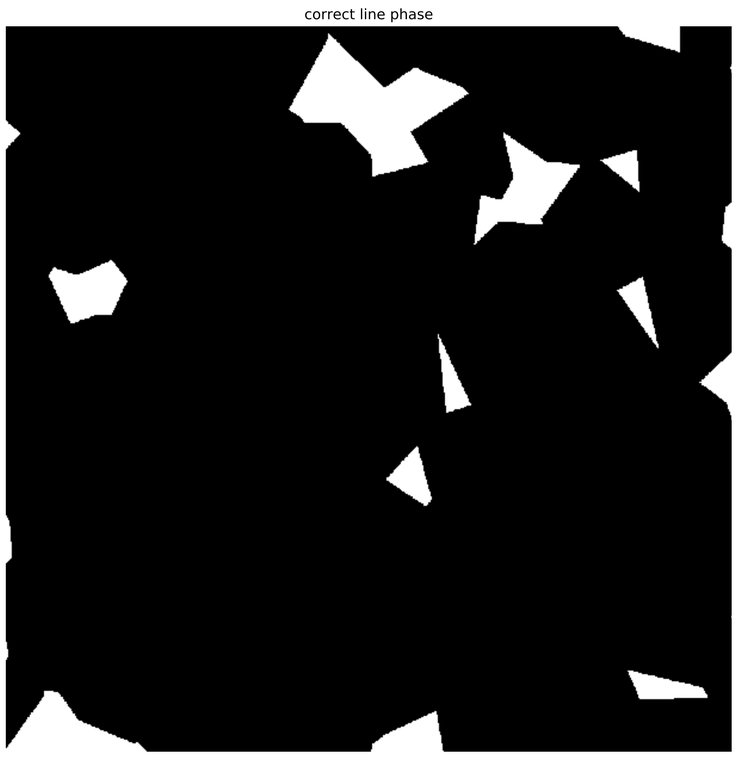
correct grain boundary



predicted grain boundary



correct line phase



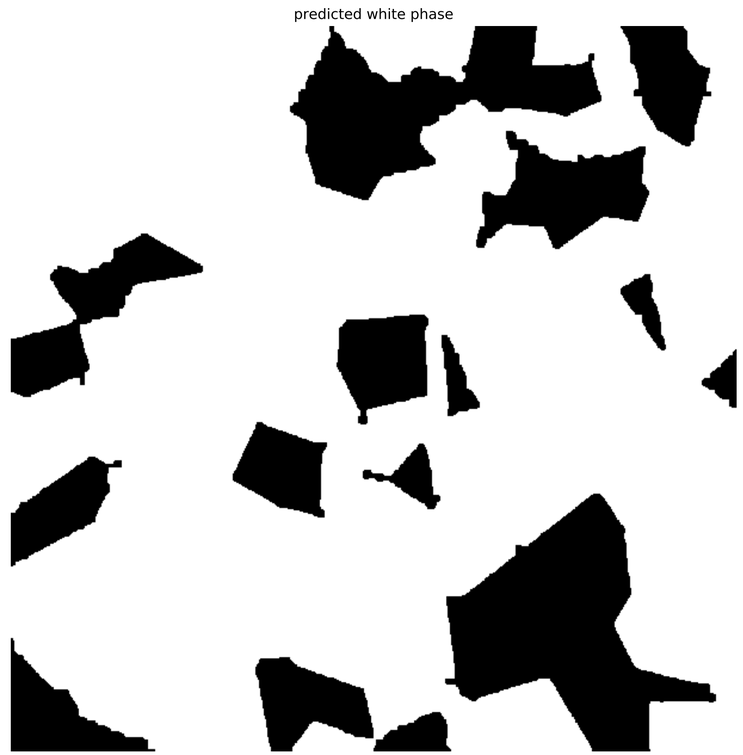
predicted line phase

correct dark phase

predicted dark phase

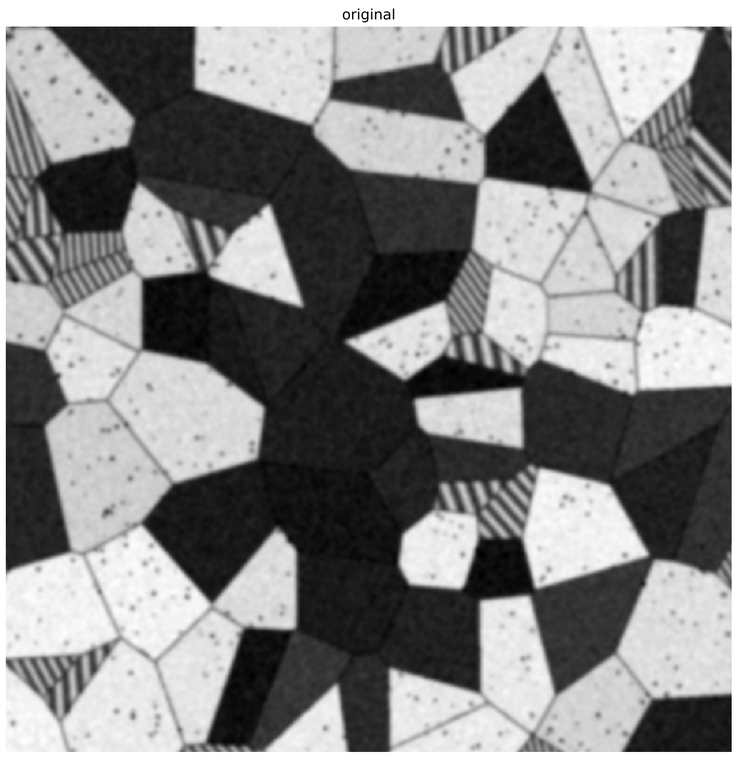
correct white phase

predicted white phase



data/base microstructure/image_7.png

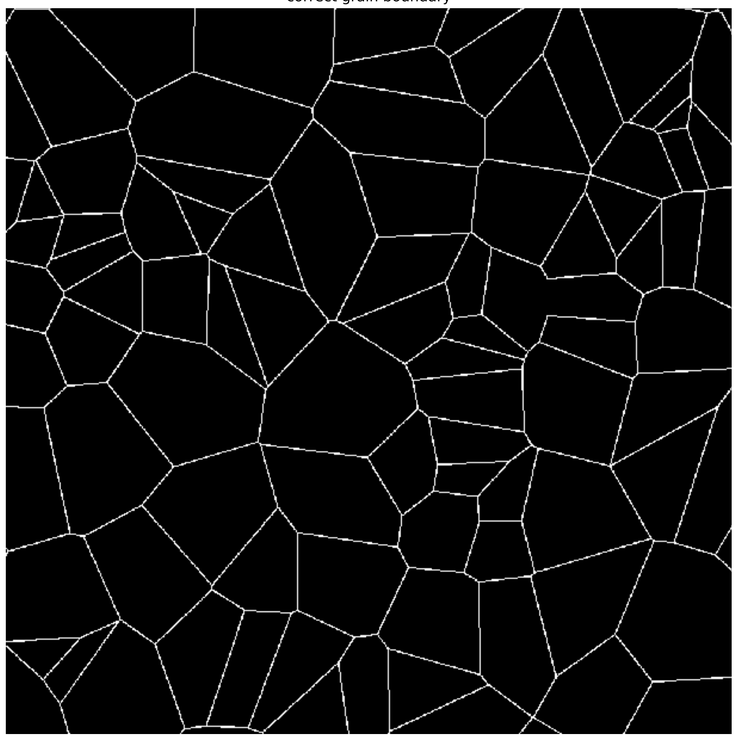
original



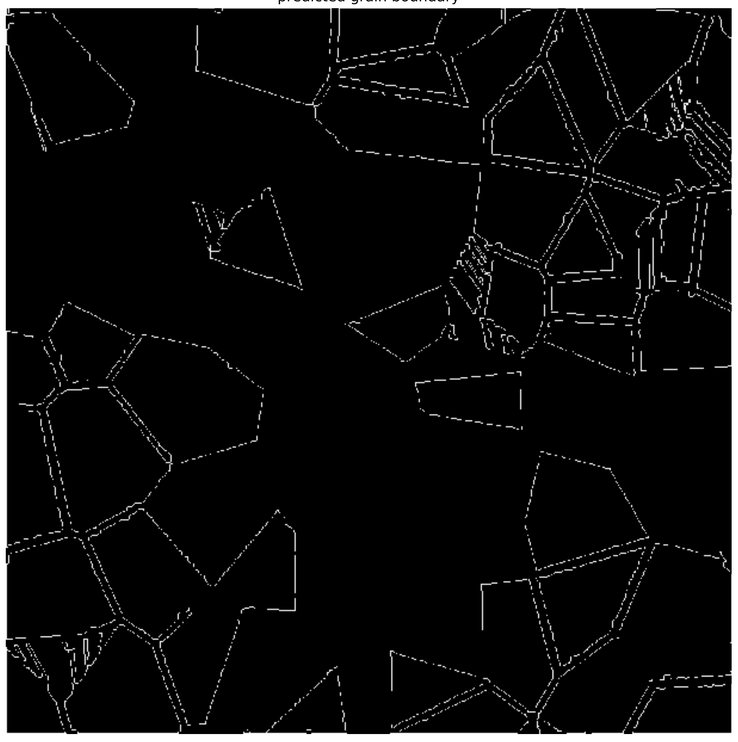
metrics

metric	correct	predicted	error
dark frac	0.432	0.424	0.889%
white frac	0.493	0.455	3.802%
line frac	0.074	0.050	2.419%
ave grain diameter	111.902	95.866	14.331%

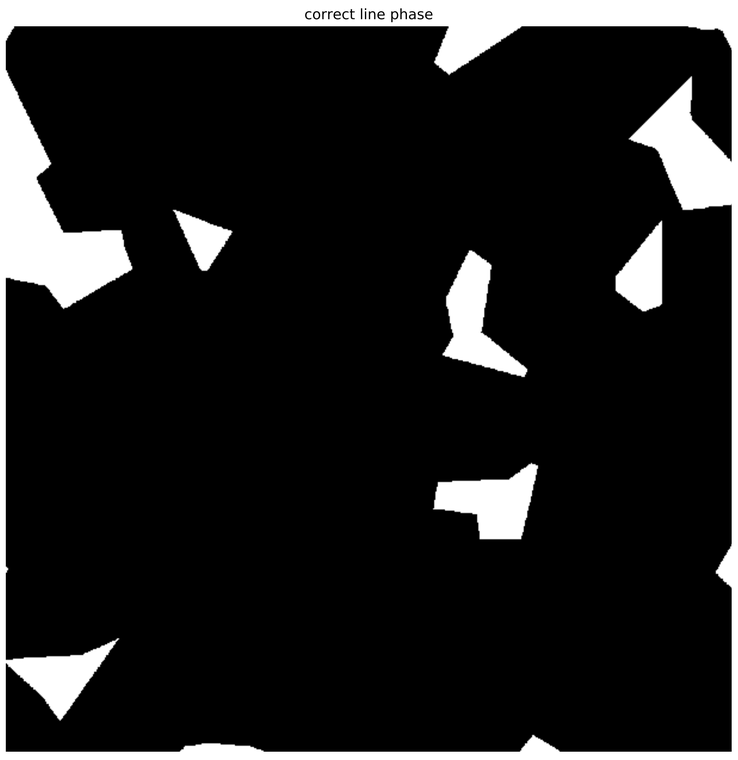
correct grain boundary



predicted grain boundary

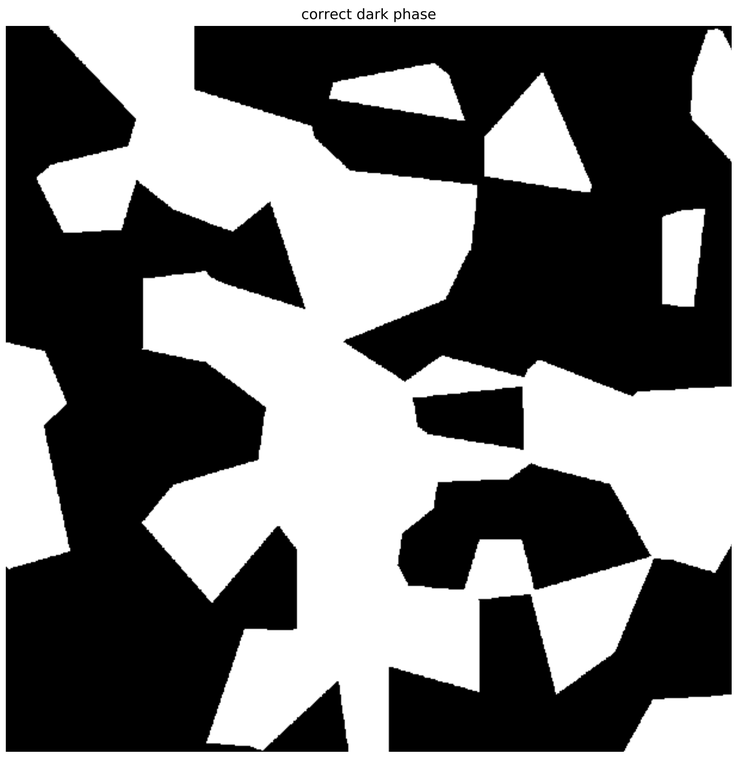


correct line phase

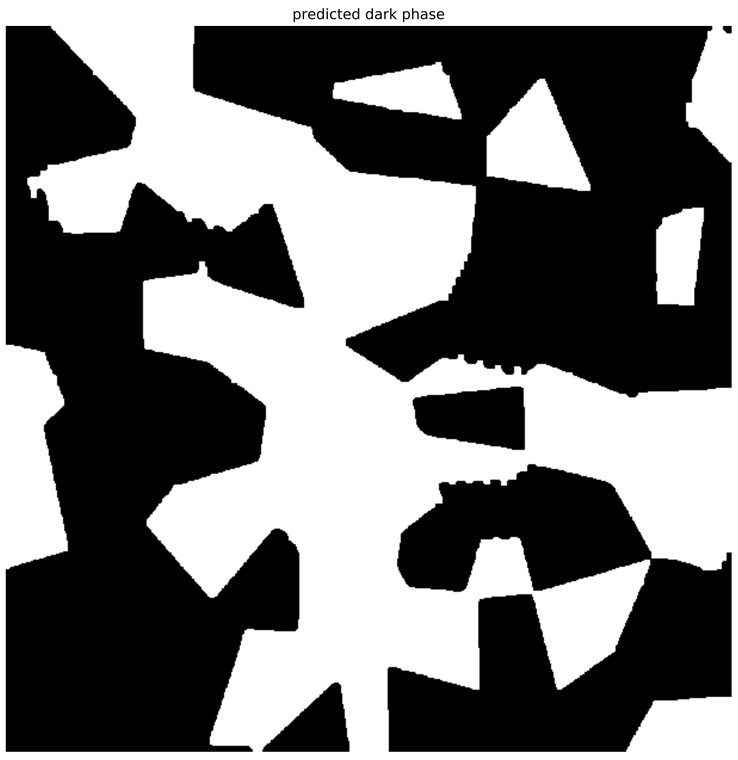


predicted line phase

correct dark phase



predicted dark phase

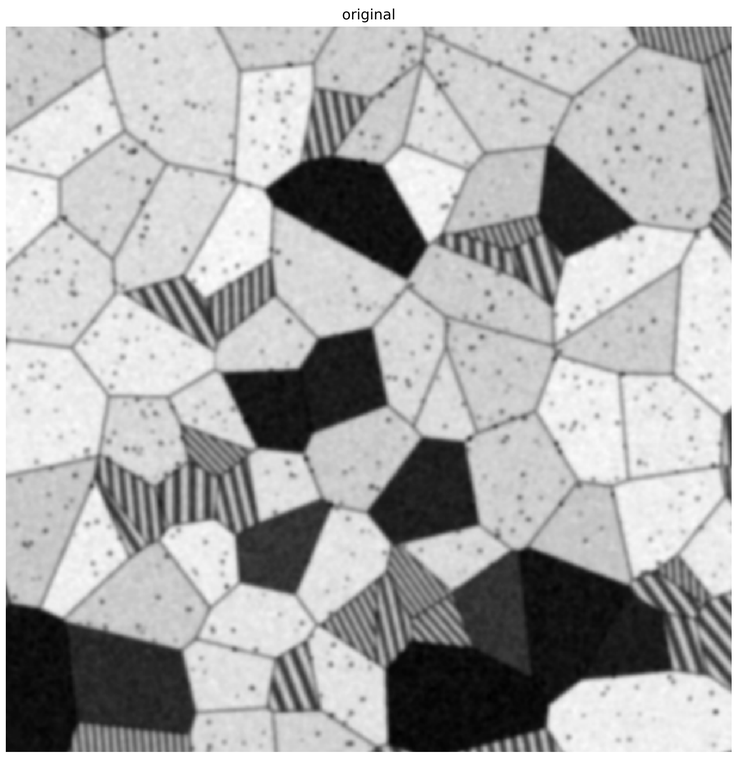


correct white phase

predicted white phase

data/base microstructure/image_70.png

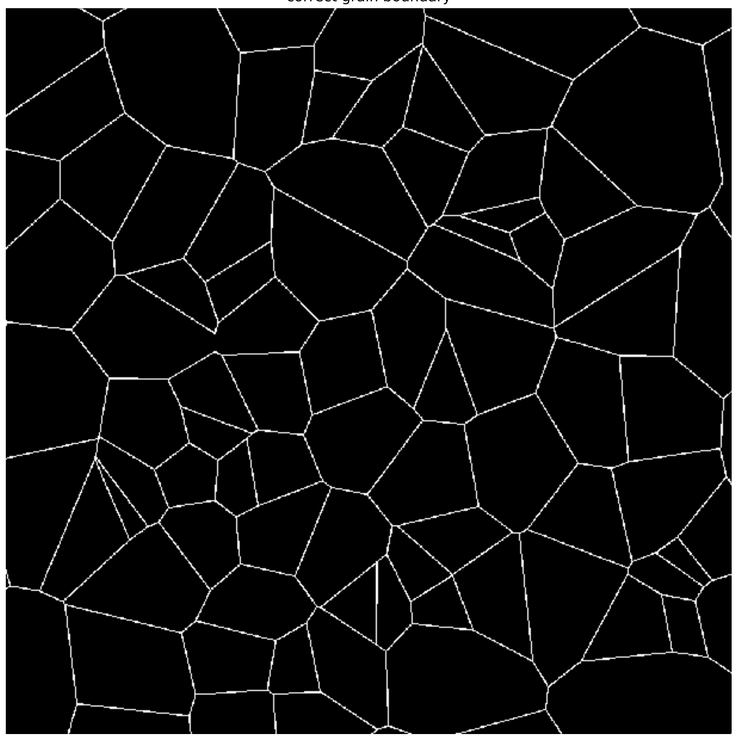
original



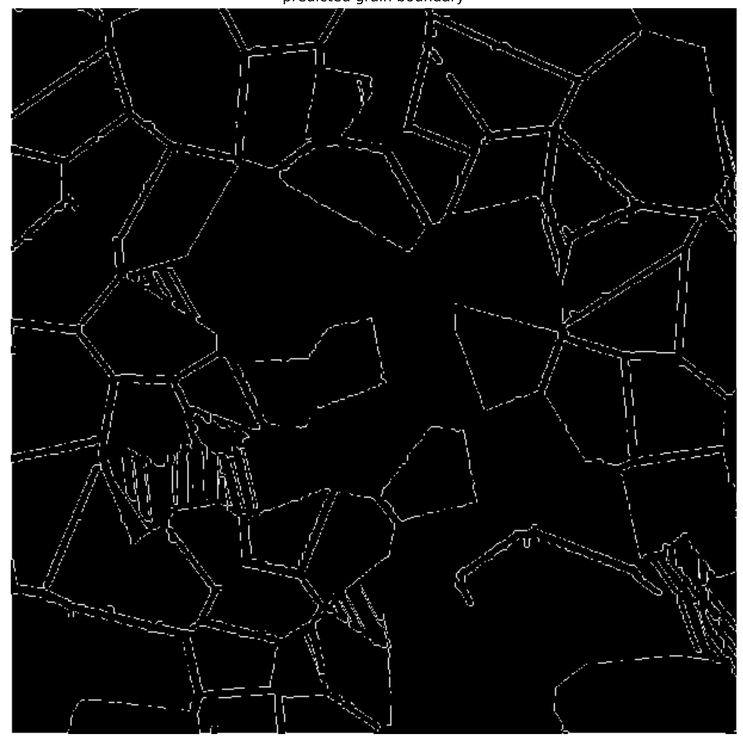
metrics

metric	correct	predicted	error
dark frac	0.181	0.178	0.283%
white frac	0.712	0.687	2.517%
line frac	0.107	0.080	2.741%
ave grain diameter	114.045	106.370	6.730%

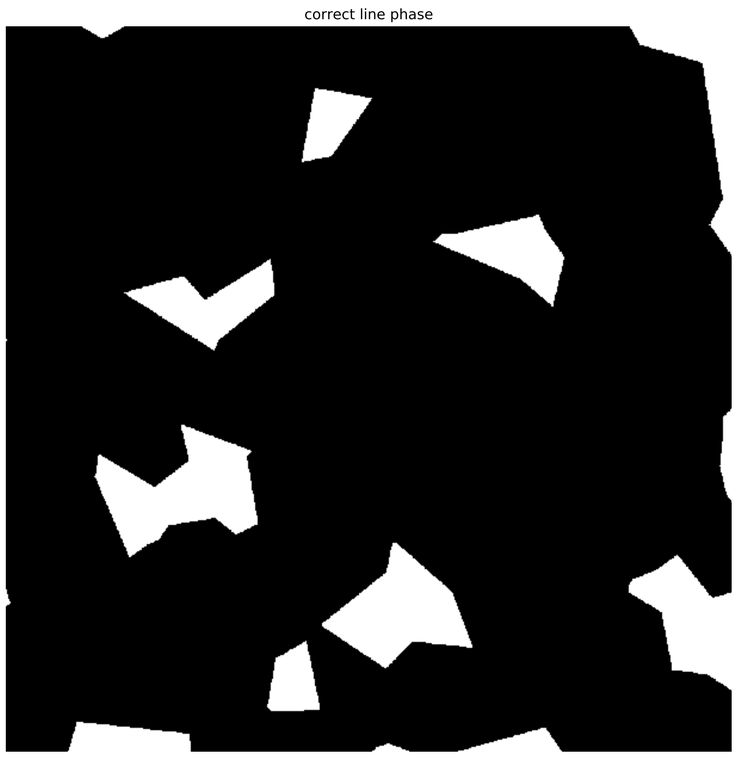
correct grain boundary



predicted grain boundary



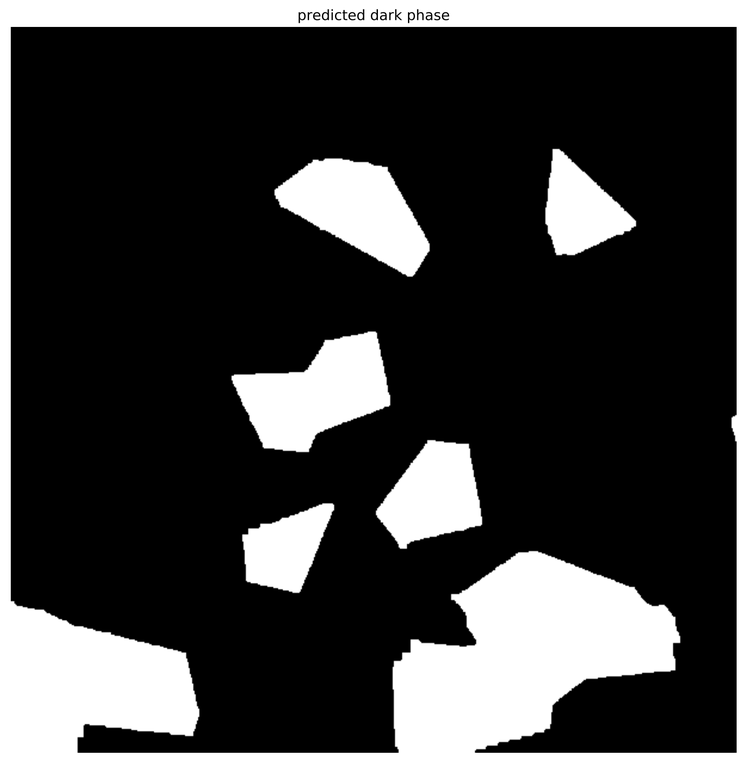
correct line phase



predicted line phase

correct dark phase

predicted dark phase

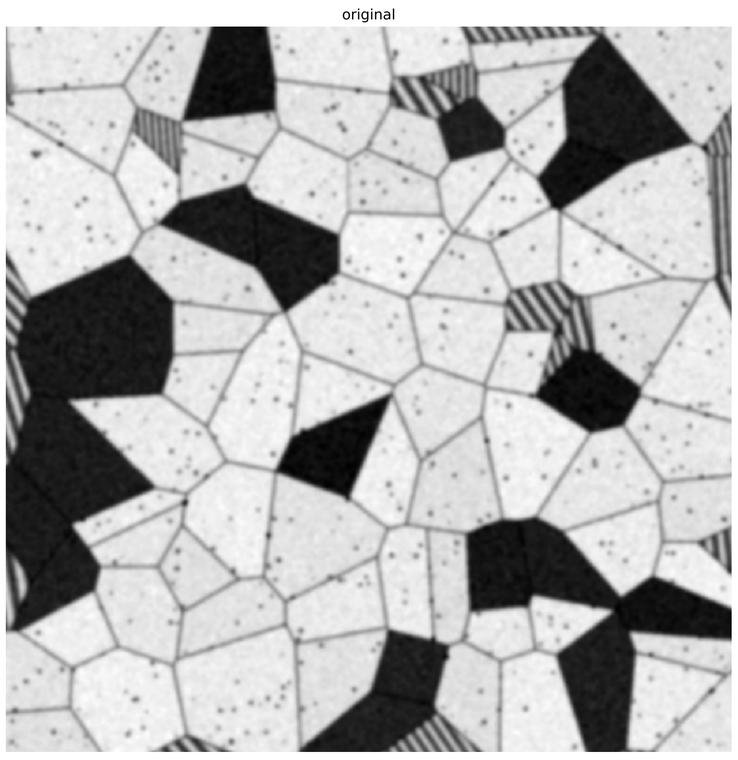


correct white phase

predicted white phase

data/base microstructure/image_71.png

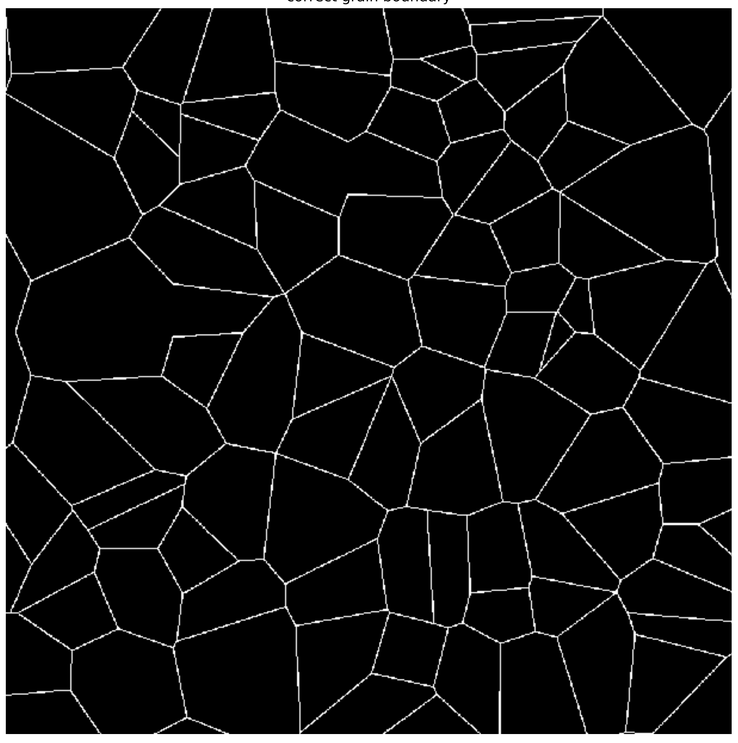
original



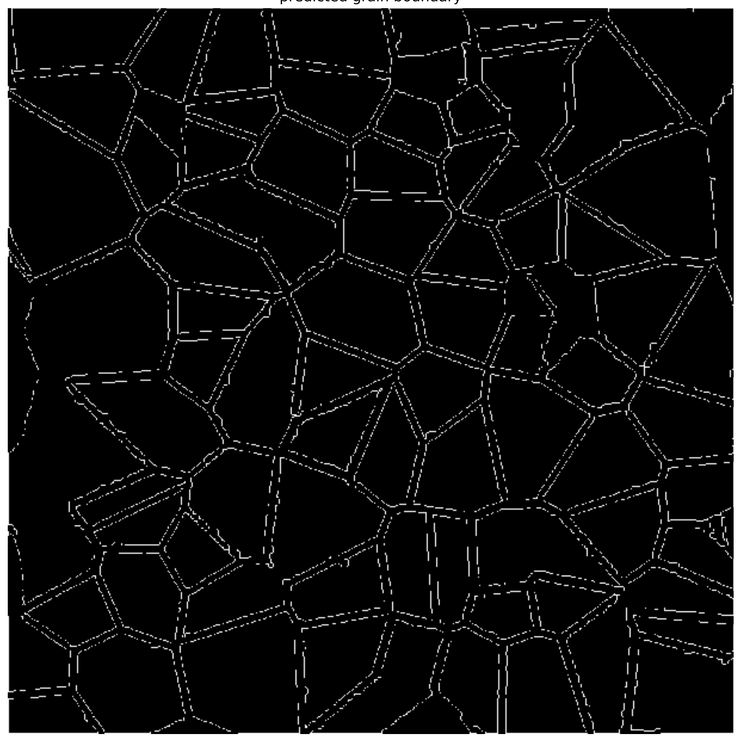
metrics

metric	correct	predicted	error
dark frac	0.209	0.202	0.707%
white frac	0.747	0.716	3.084%
line frac	0.044	0.028	1.592%
ave grain diameter	108.139	90.735	16.094%

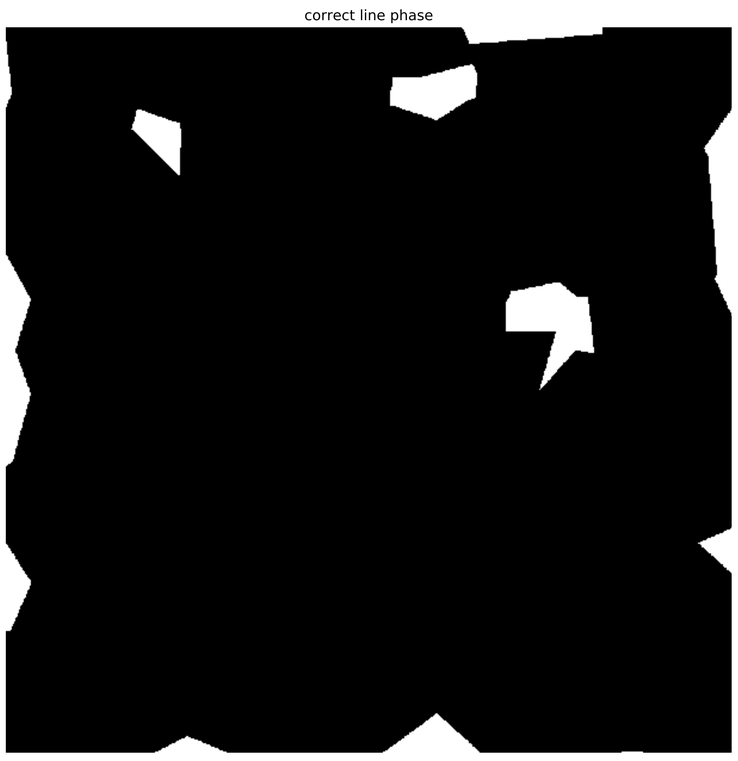
correct grain boundary



predicted grain boundary

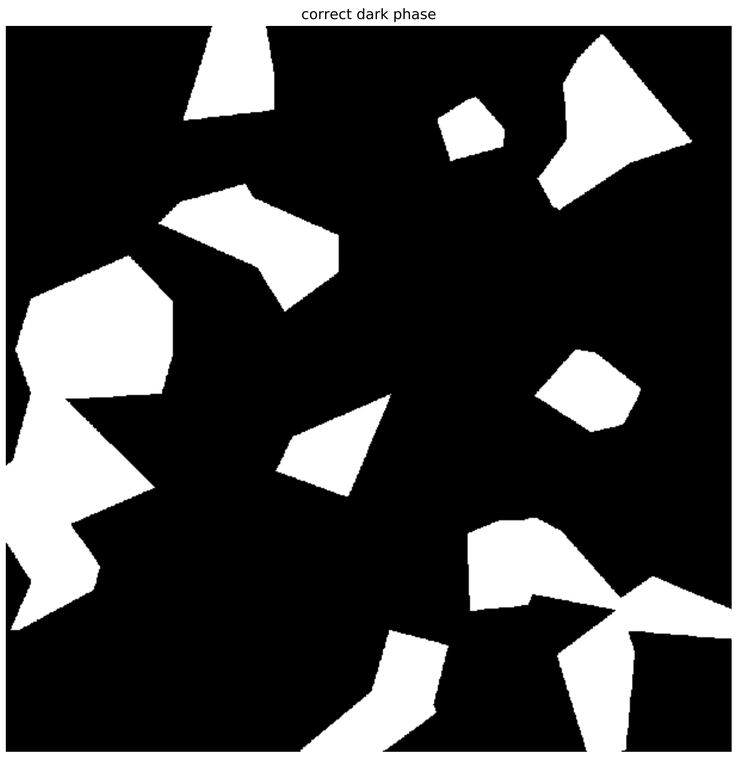


correct line phase



predicted line phase

correct dark phase



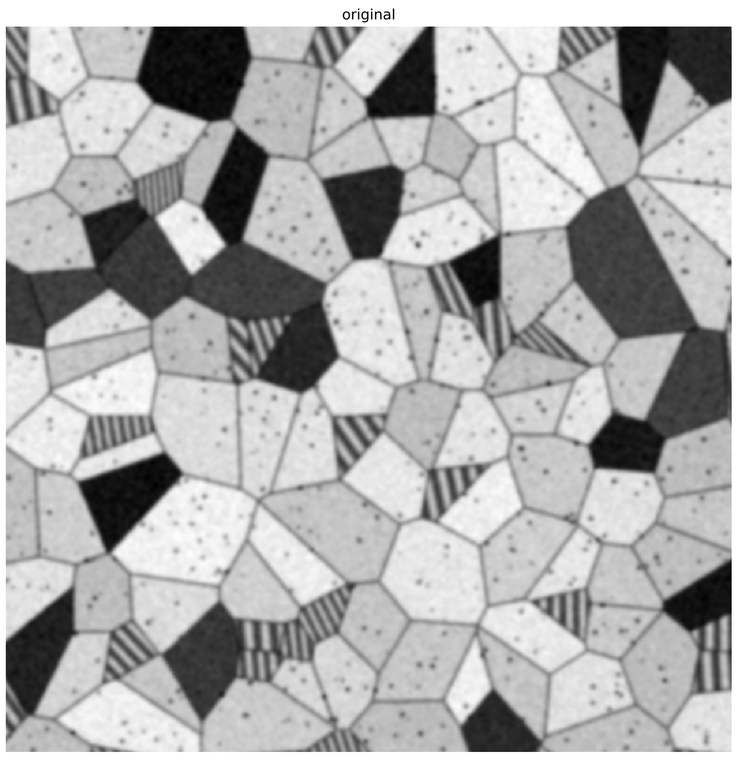
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_72.png

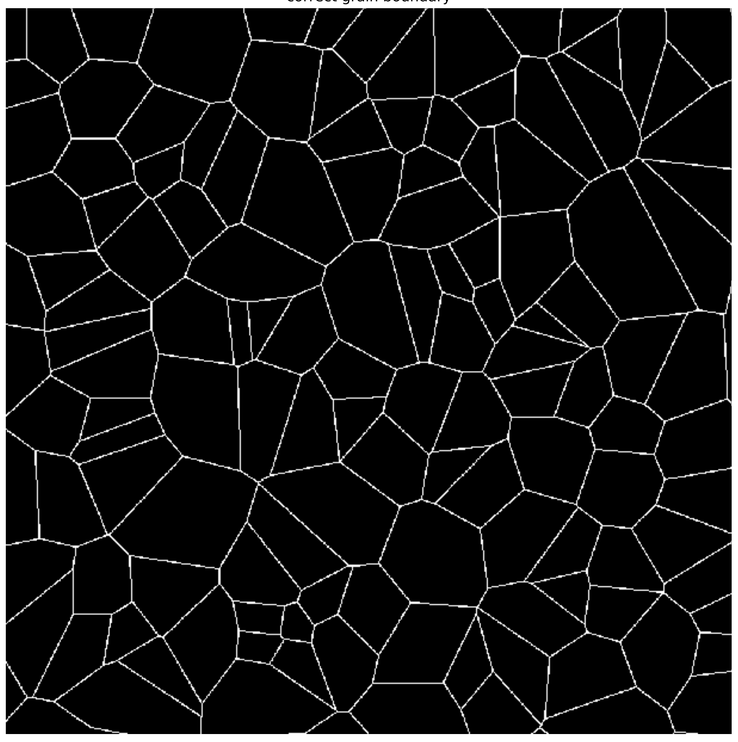
original



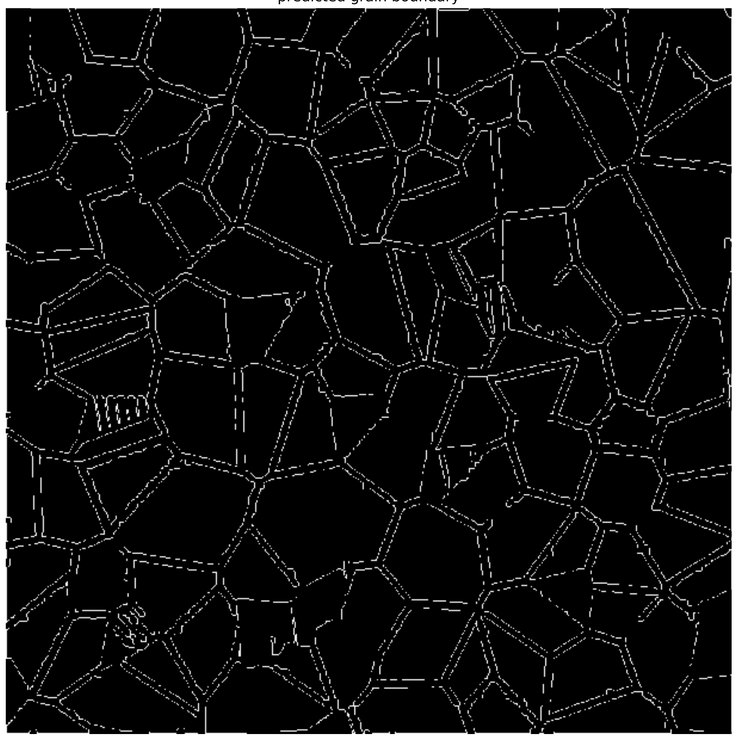
metrics

metric	correct	predicted	error
dark frac	0.186	0.180	0.551%
white frac	0.749	0.705	4.410%
line frac	0.065	0.043	2.215%
ave grain diameter	92.903	83.103	10.549%

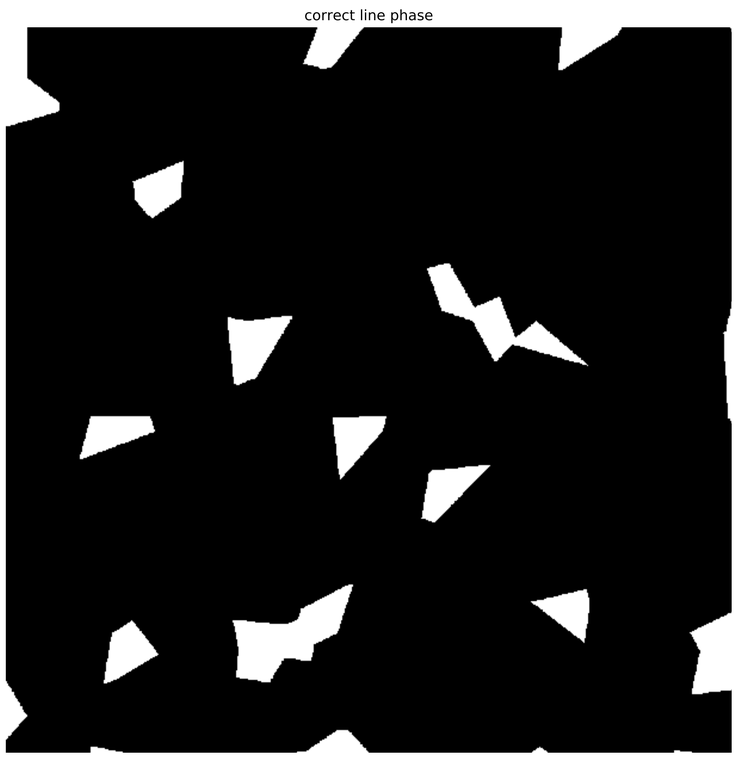
correct grain boundary



predicted grain boundary

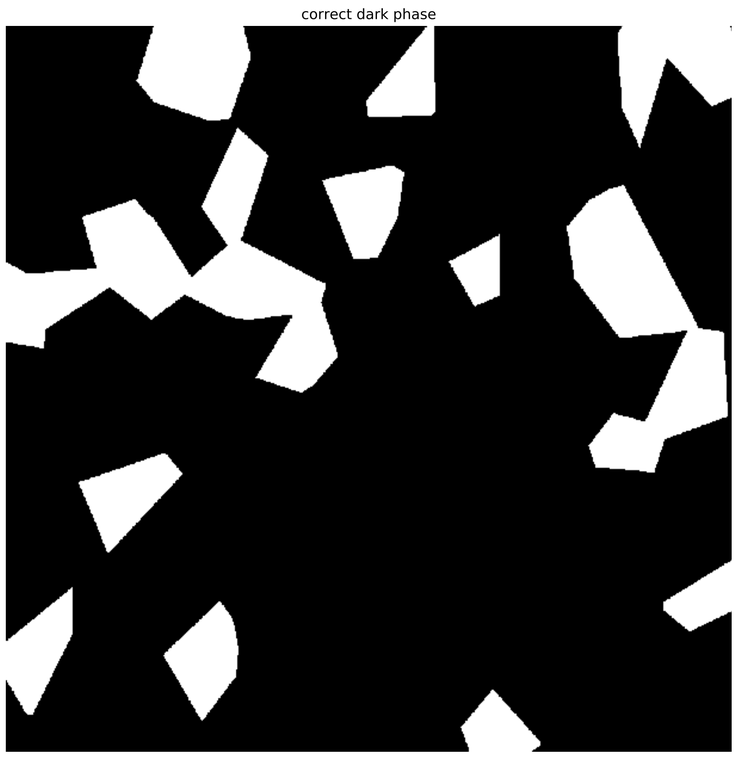


correct line phase

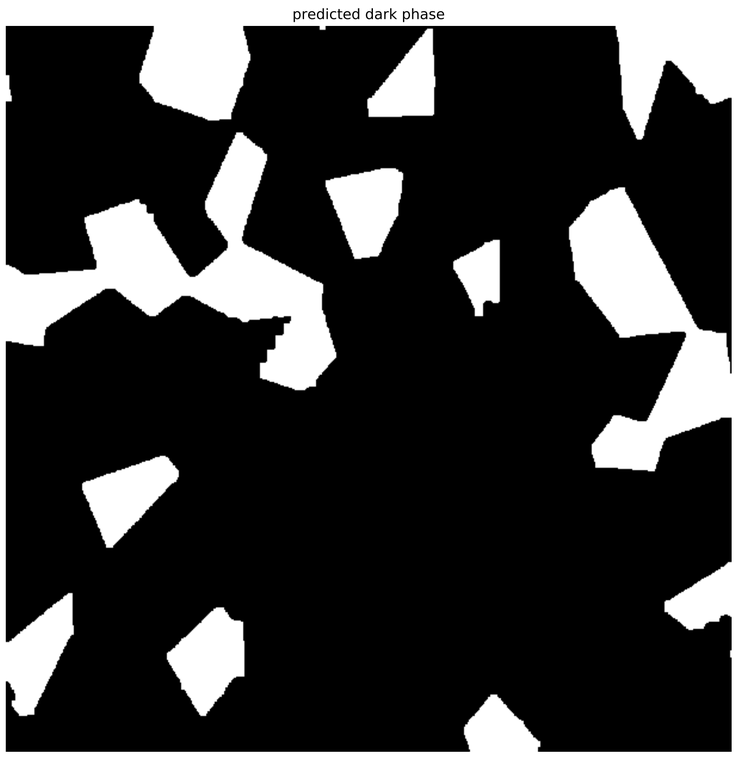


predicted line phase

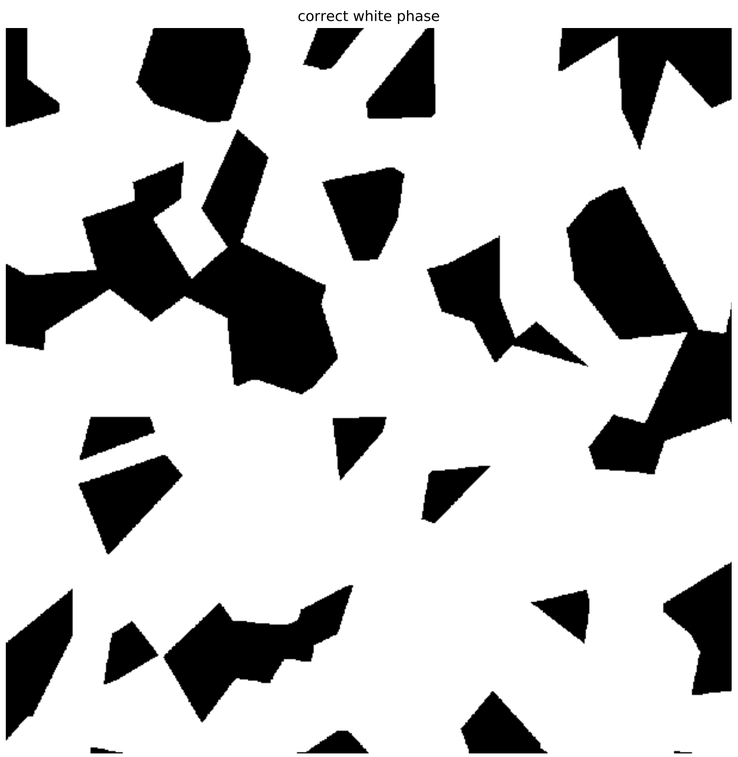
correct dark phase



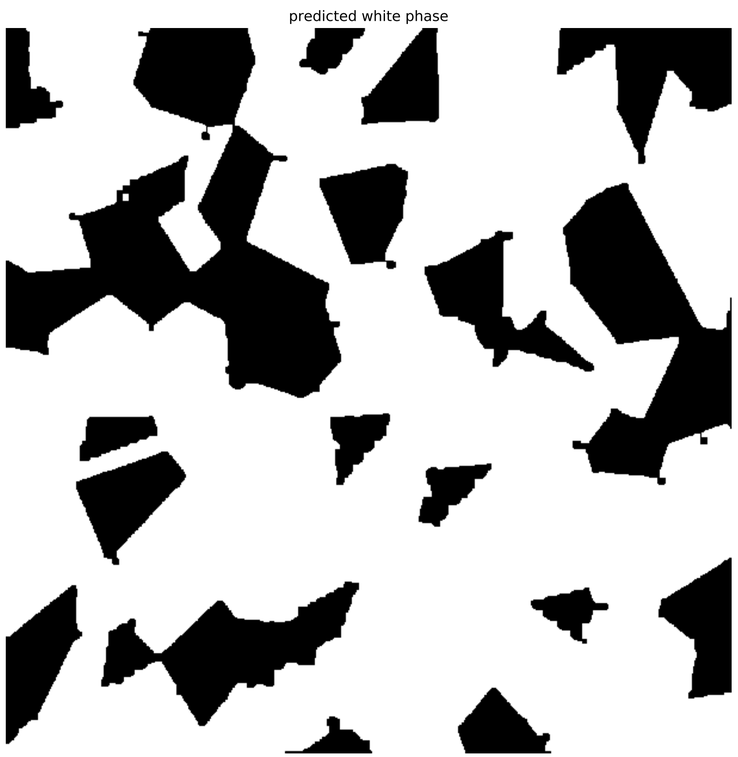
predicted dark phase



correct white phase

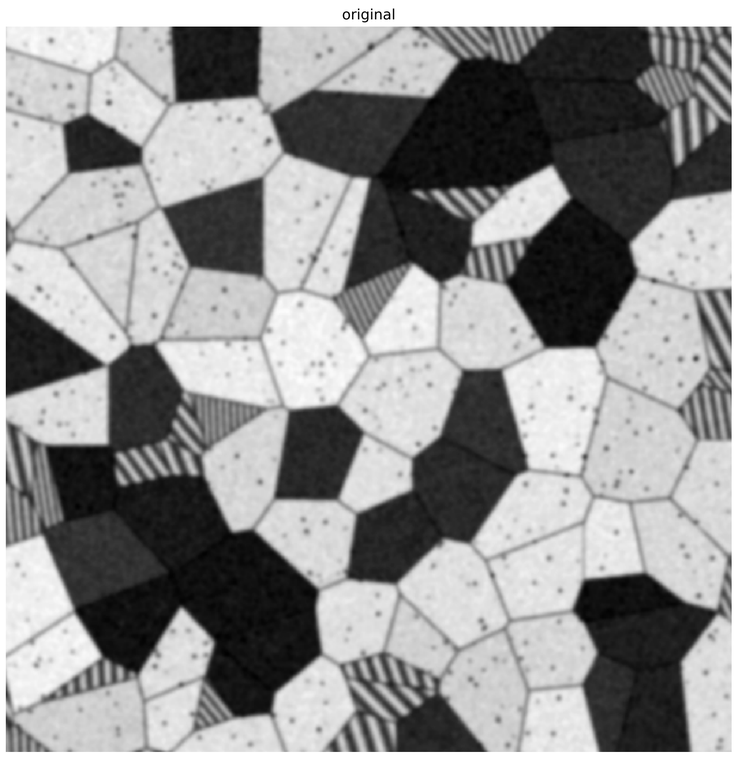


predicted white phase



data/base microstructure/image_73.png

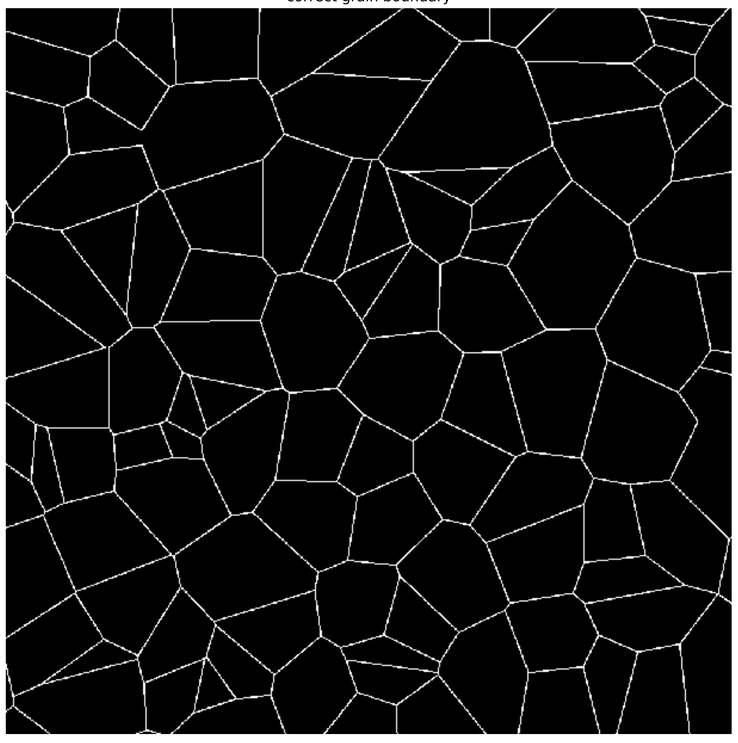
original



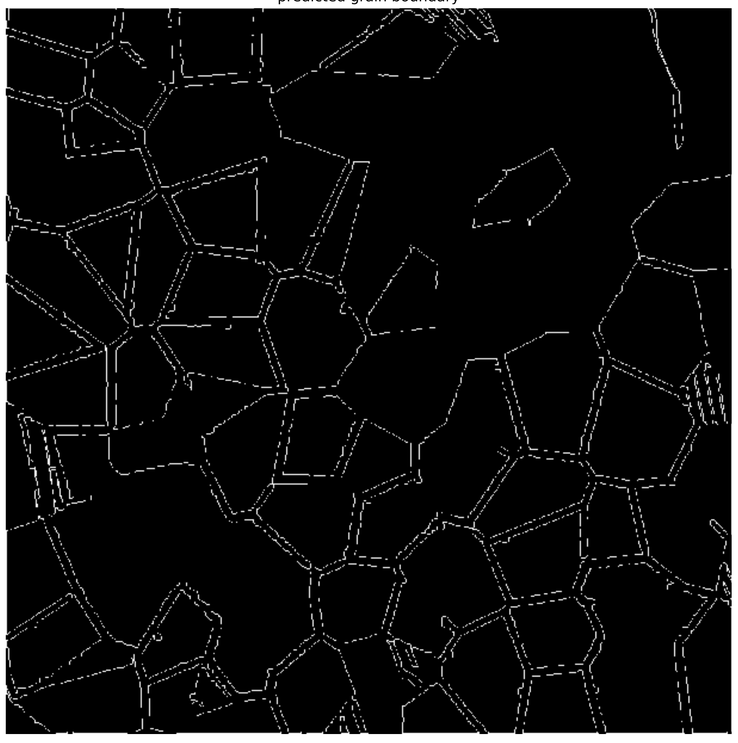
metrics

metric	correct	predicted	error
dark frac	0.349	0.342	0.669%
white frac	0.562	0.529	3.339%
line frac	0.088	0.062	2.686%
ave grain diameter	106.033	98.557	7.051%

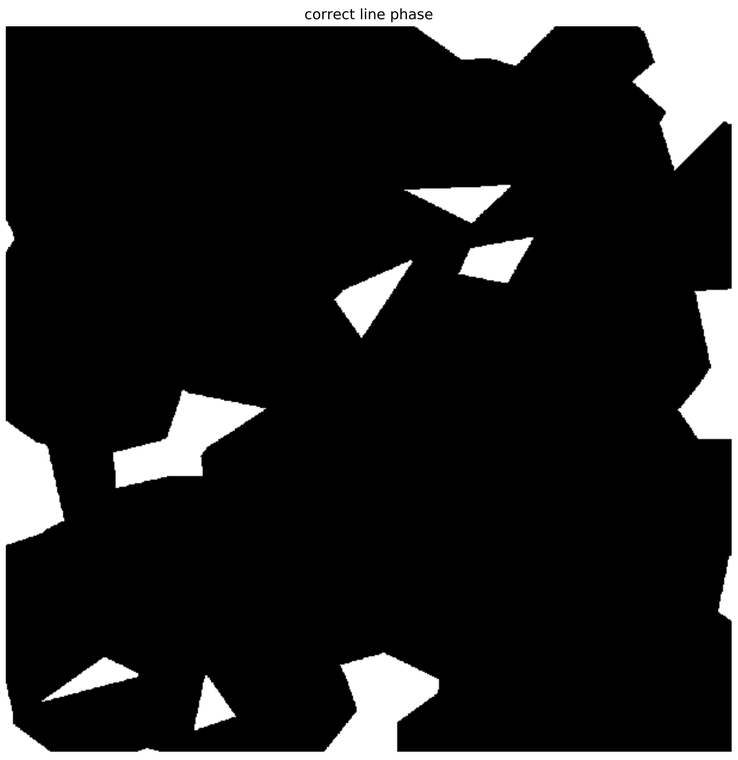
correct grain boundary



predicted grain boundary



correct line phase



predicted line phase

correct dark phase

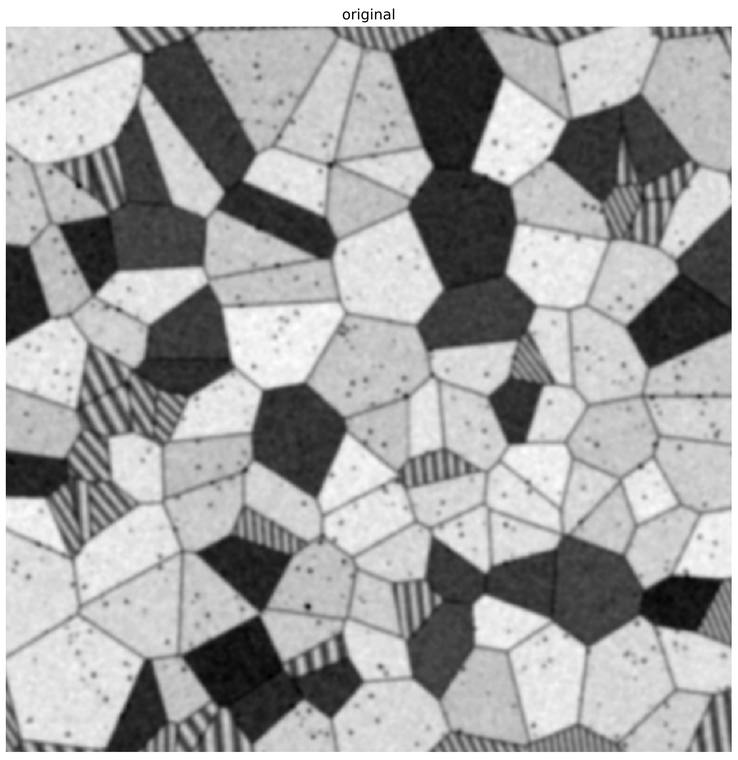
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_74.png

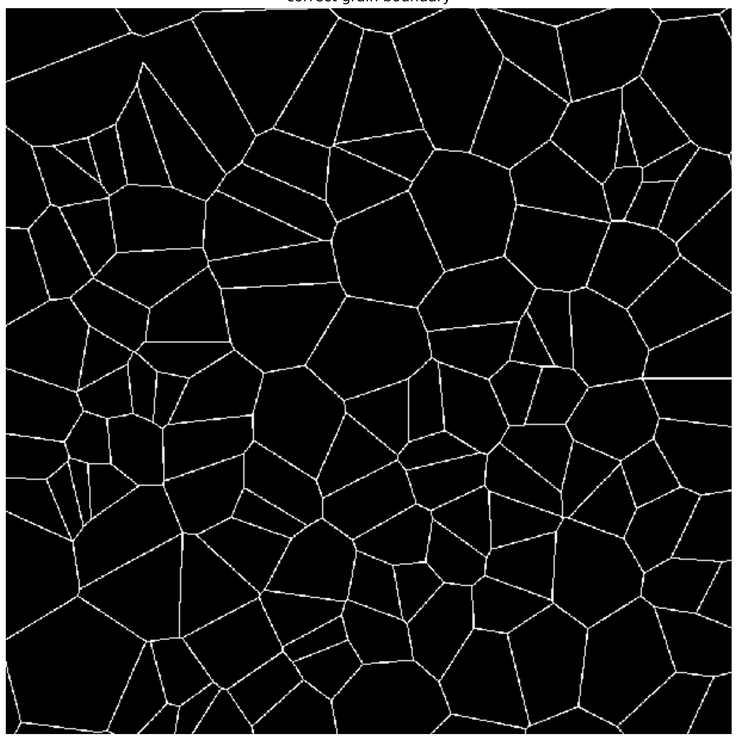
original



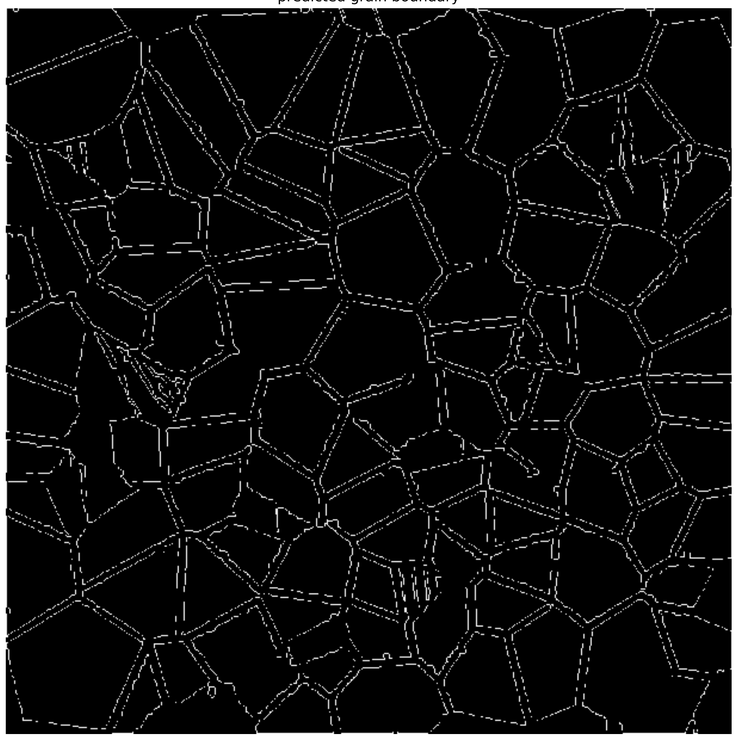
metrics

metric	correct	predicted	error
dark frac	0.237	0.232	0.493%
white frac	0.679	0.626	5.279%
line frac	0.084	0.057	2.774%
ave grain diameter	91.755	85.896	6.386%

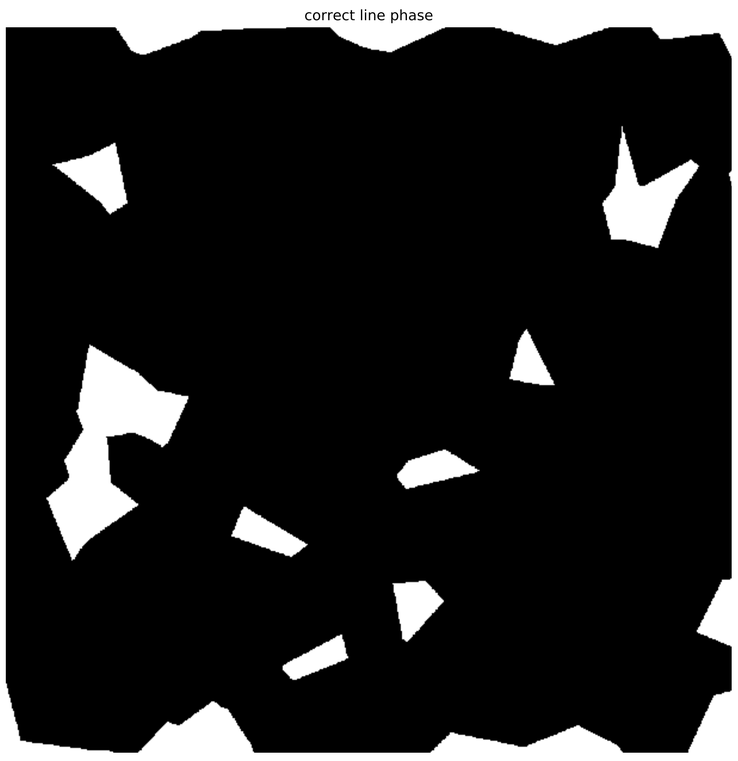
correct grain boundary



predicted grain boundary



correct line phase

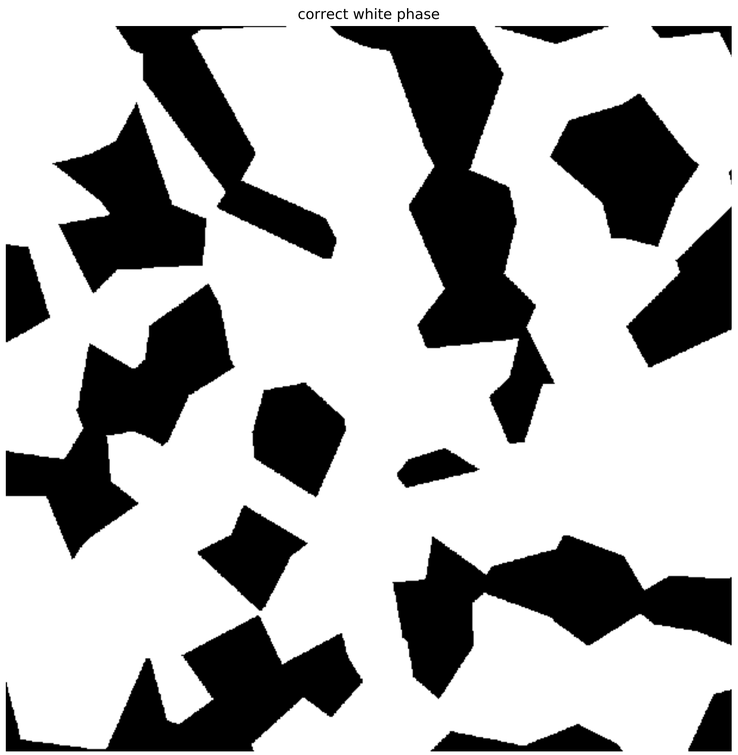


predicted line phase

correct dark phase

predicted dark phase

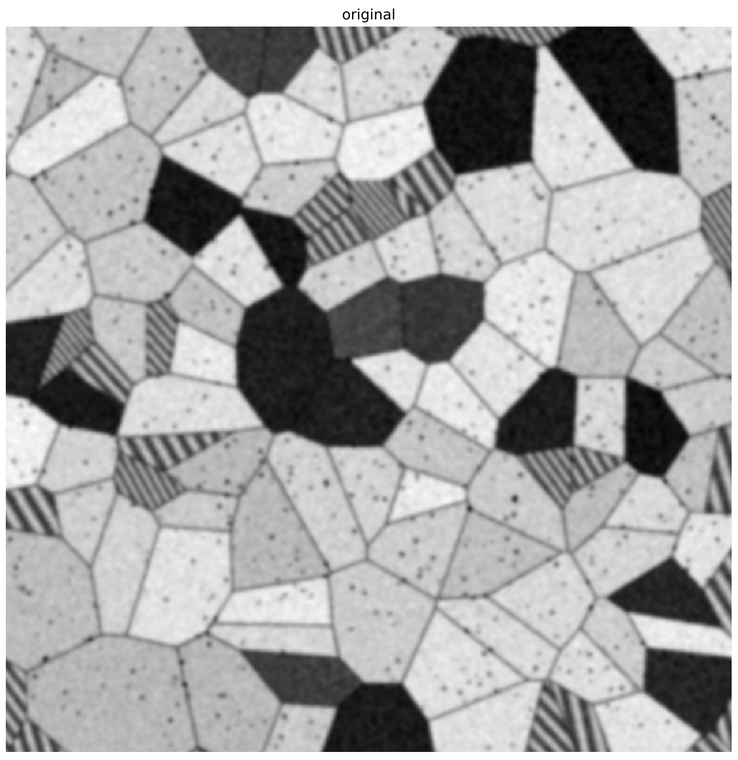
correct white phase



predicted white phase

data/base microstructure/image_75.png

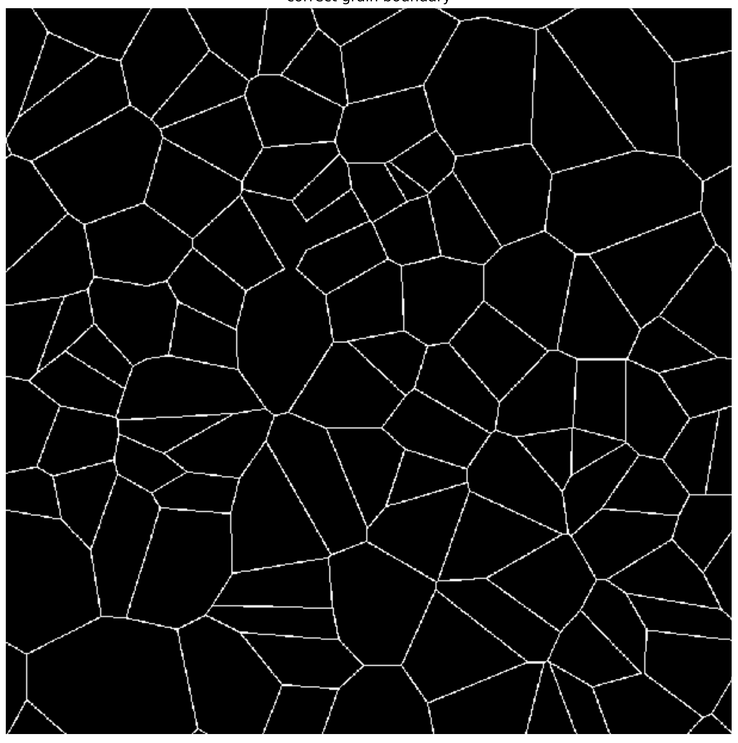
original



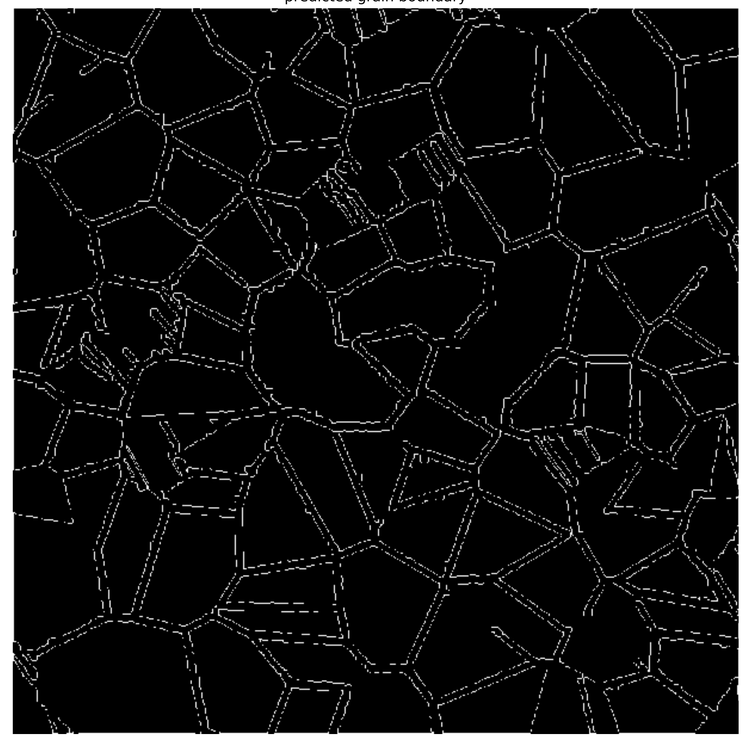
metrics

metric	correct	predicted	error
dark frac	0.192	0.185	0.767%
white frac	0.728	0.697	3.139%
line frac	0.079	0.056	2.354%
ave grain diameter	100.880	97.123	3.724%

correct grain boundary



predicted grain boundary



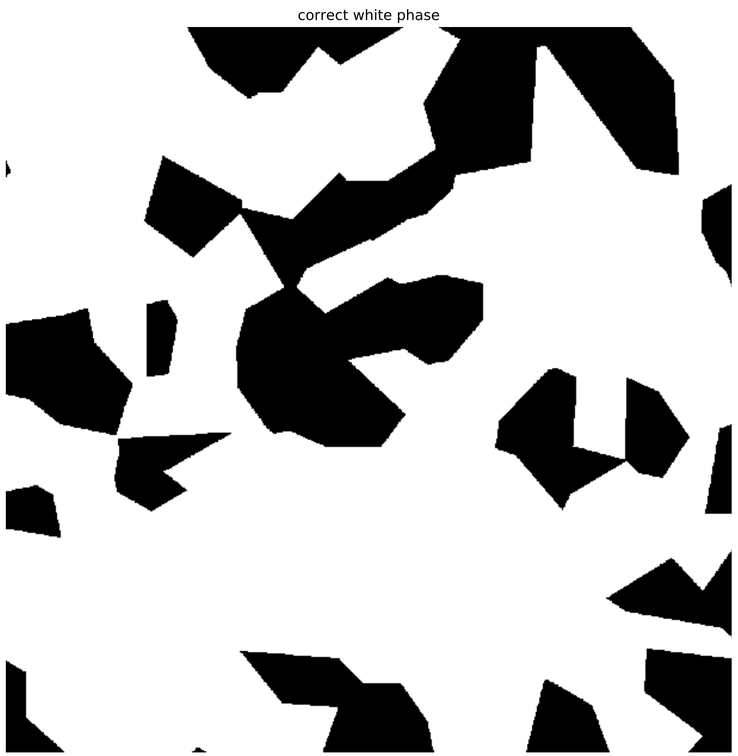
correct line phase

predicted line phase

correct dark phase

predicted dark phase

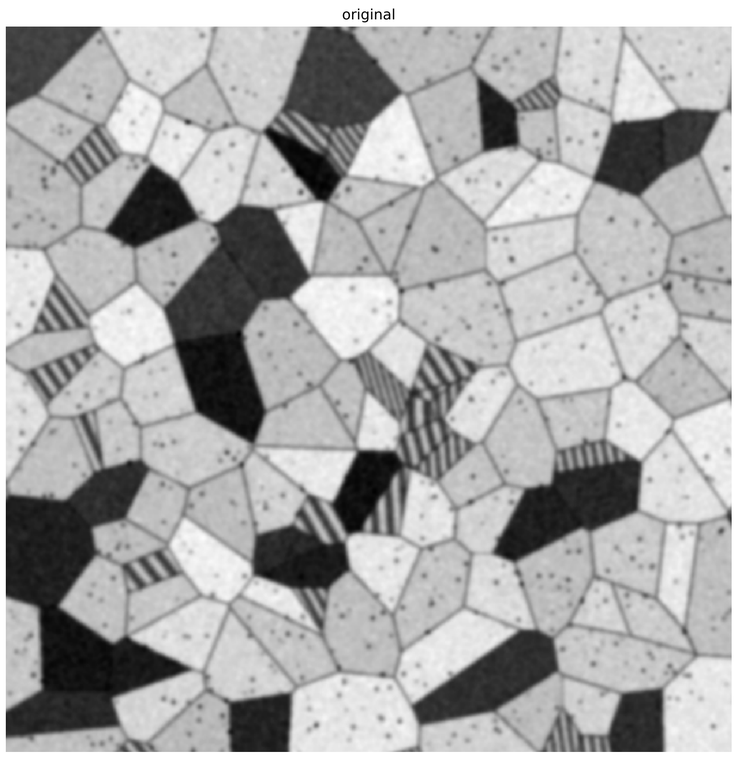
correct white phase



predicted white phase

data/base microstructure/image_76.png

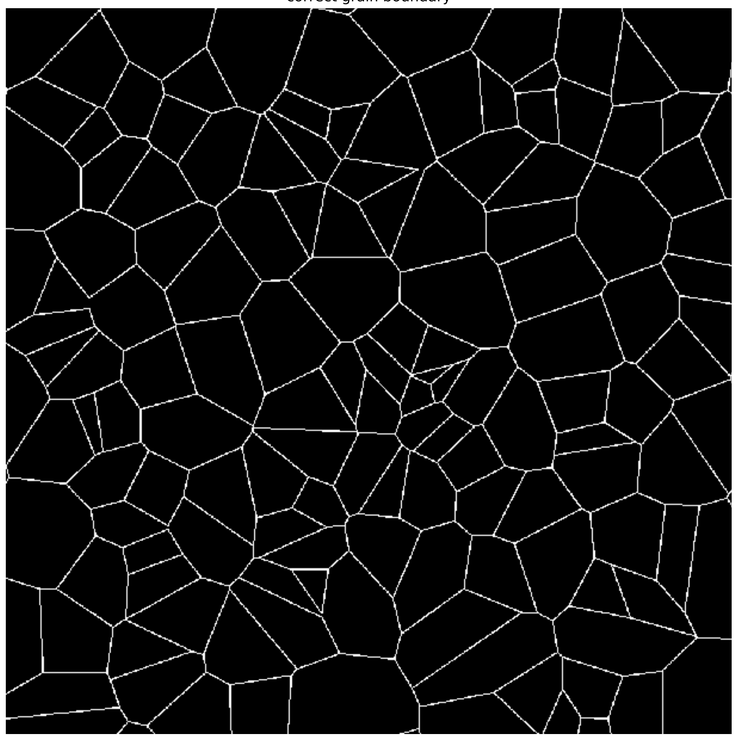
original



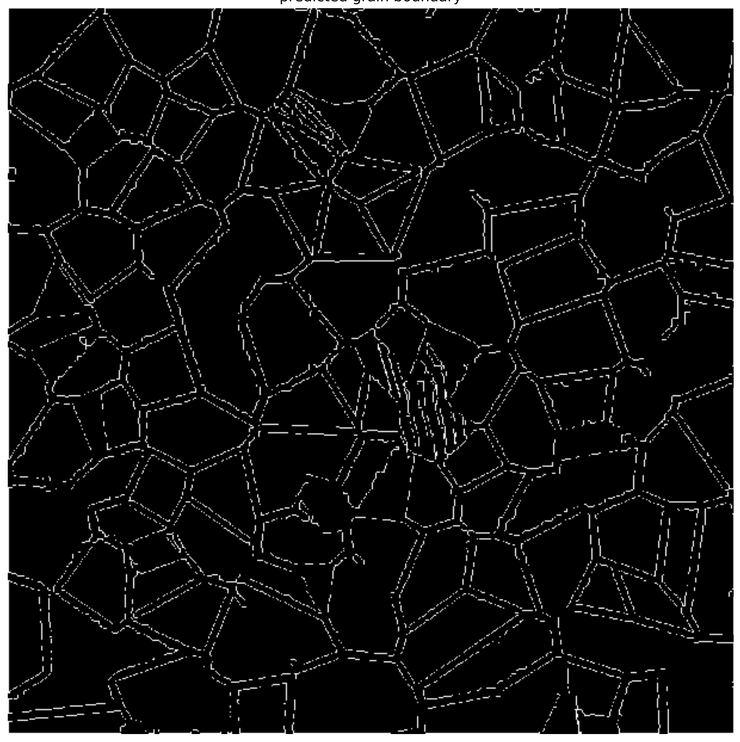
metrics

metric	correct	predicted	error
dark frac	0.178	0.172	0.660%
white frac	0.769	0.733	3.598%
line frac	0.052	0.031	2.179%
ave grain diameter	91.423	78.539	14.092%

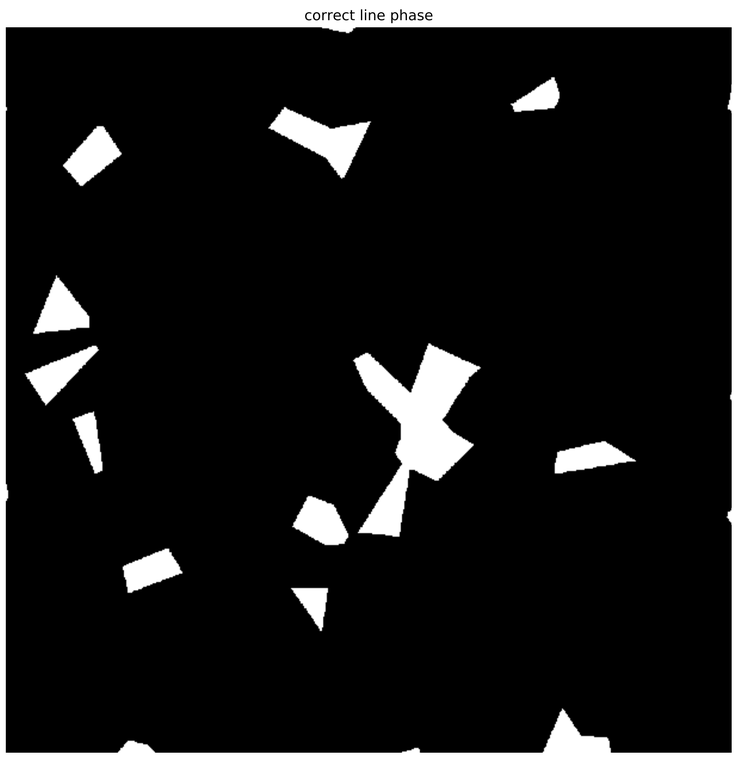
correct grain boundary



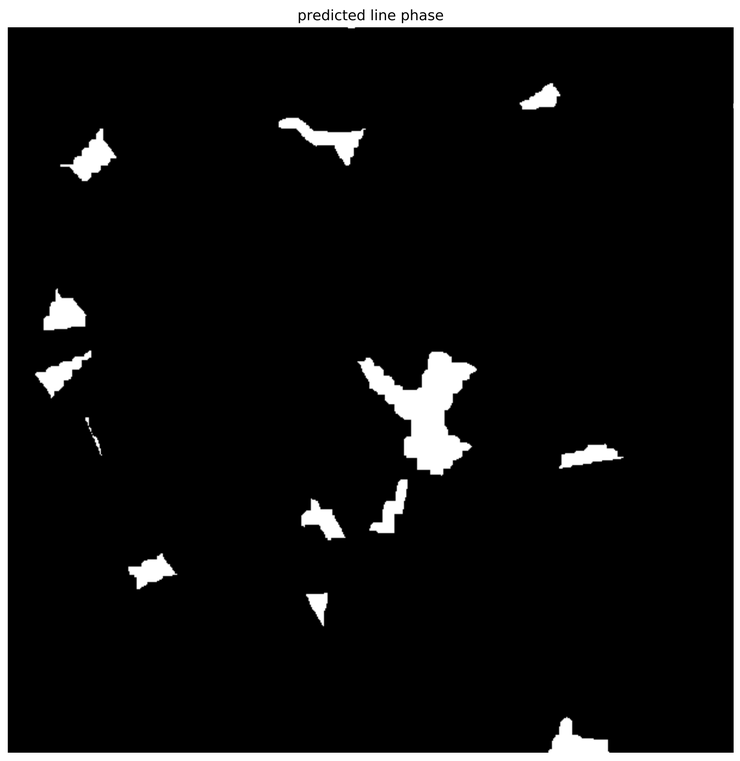
predicted grain boundary



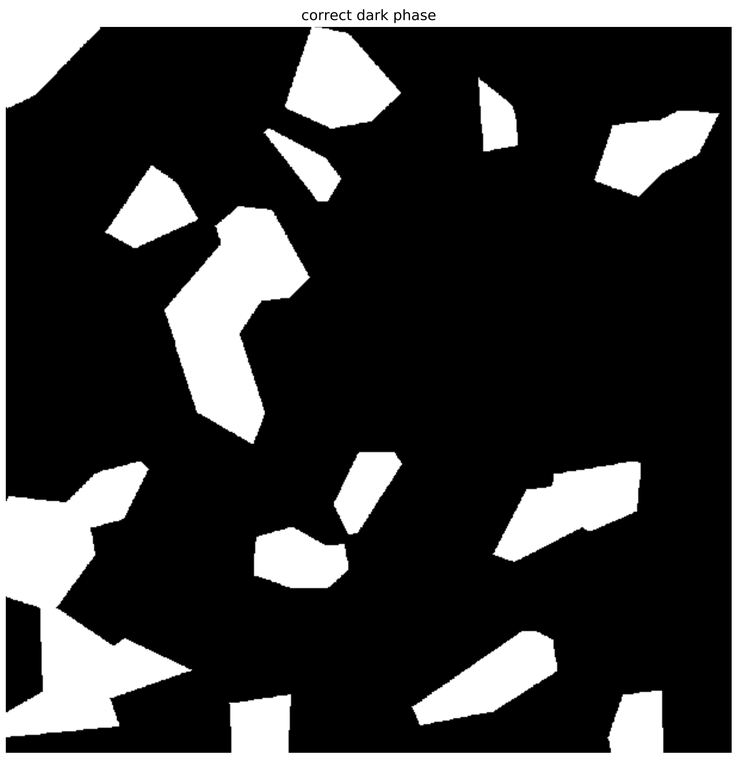
correct line phase



predicted line phase

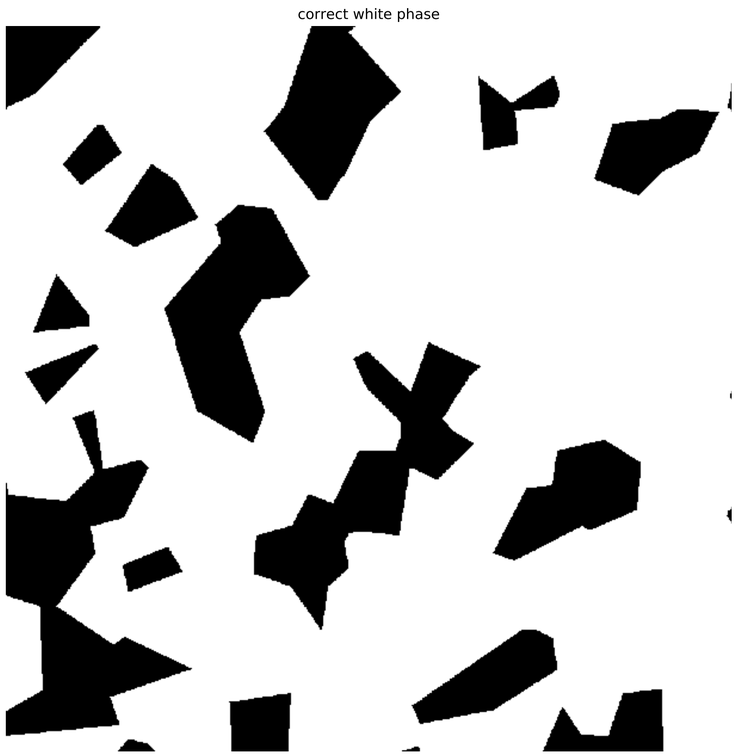


correct dark phase



predicted dark phase

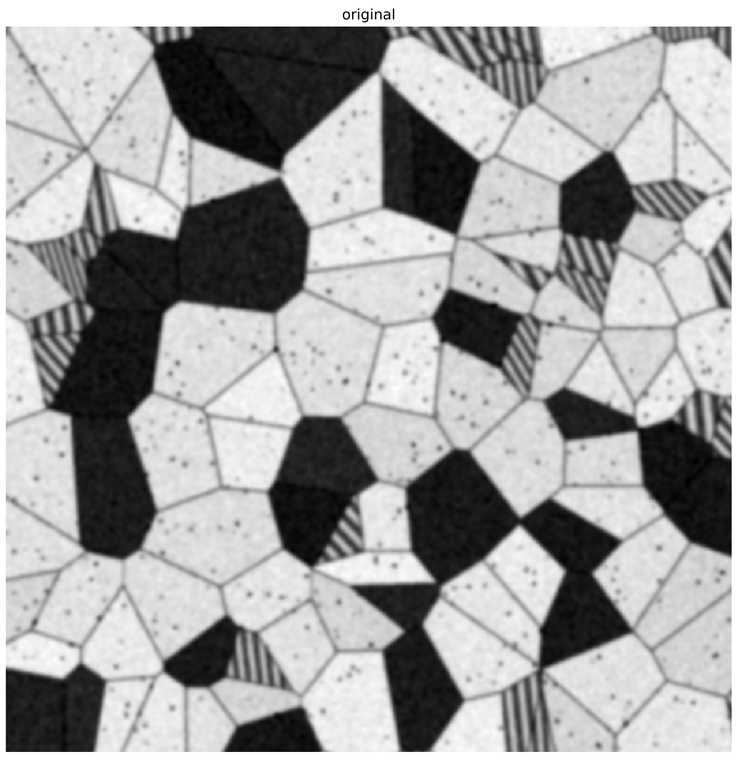
correct white phase



predicted white phase

data/base microstructure/image_77.png

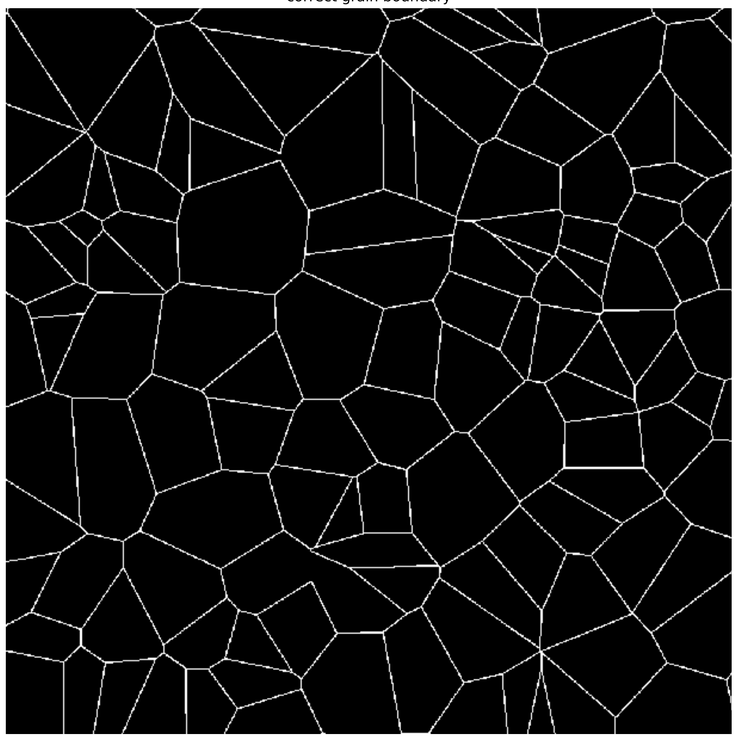
original



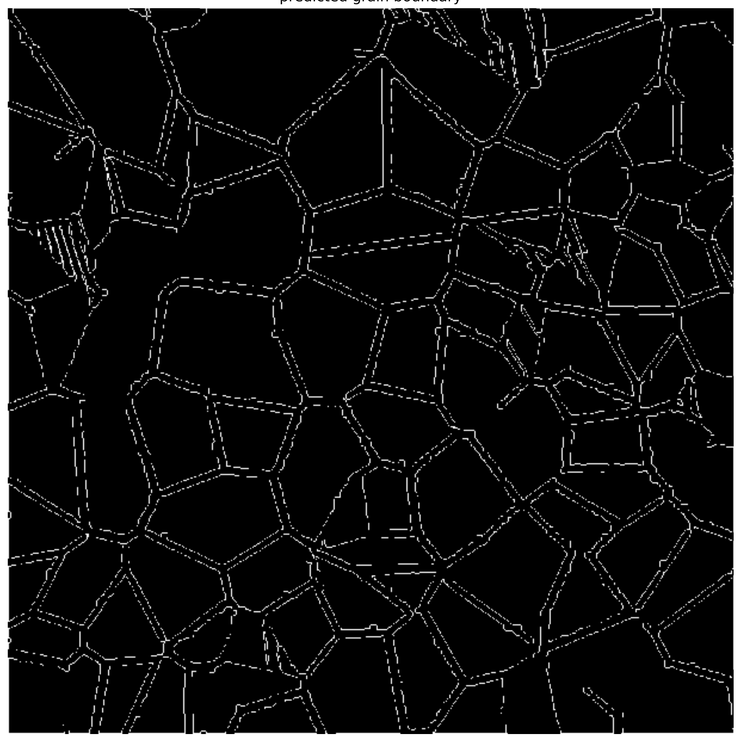
metrics

metric	correct	predicted	error
dark frac	0.266	0.257	0.909%
white frac	0.666	0.628	3.831%
line frac	0.068	0.046	2.226%
ave grain diameter	97.377	92.033	5.488%

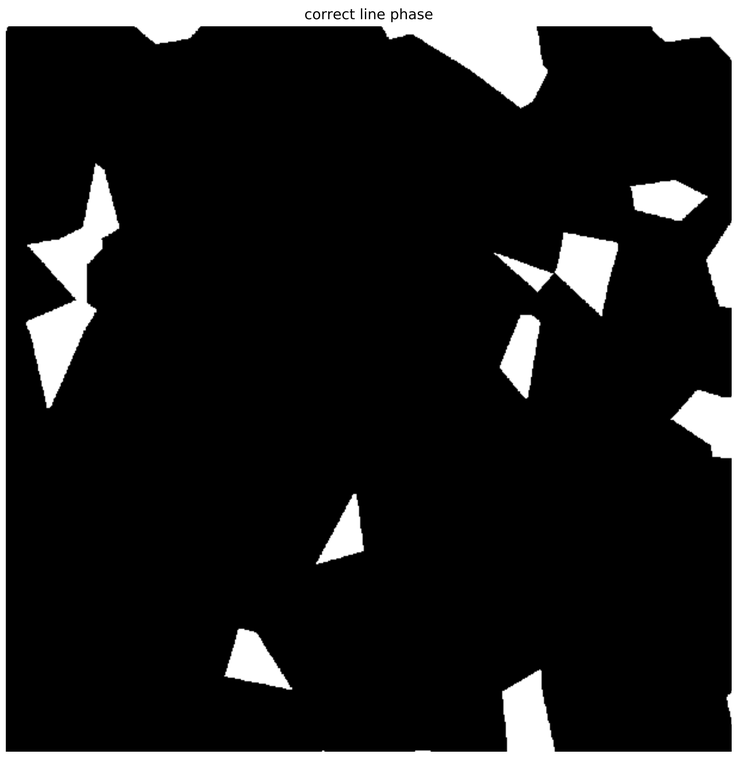
correct grain boundary



predicted grain boundary

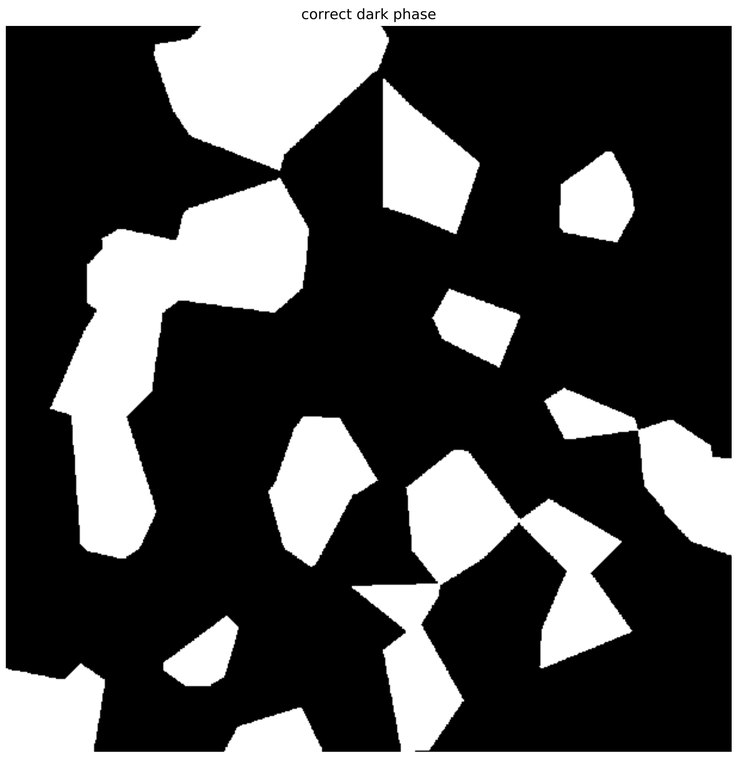


correct line phase



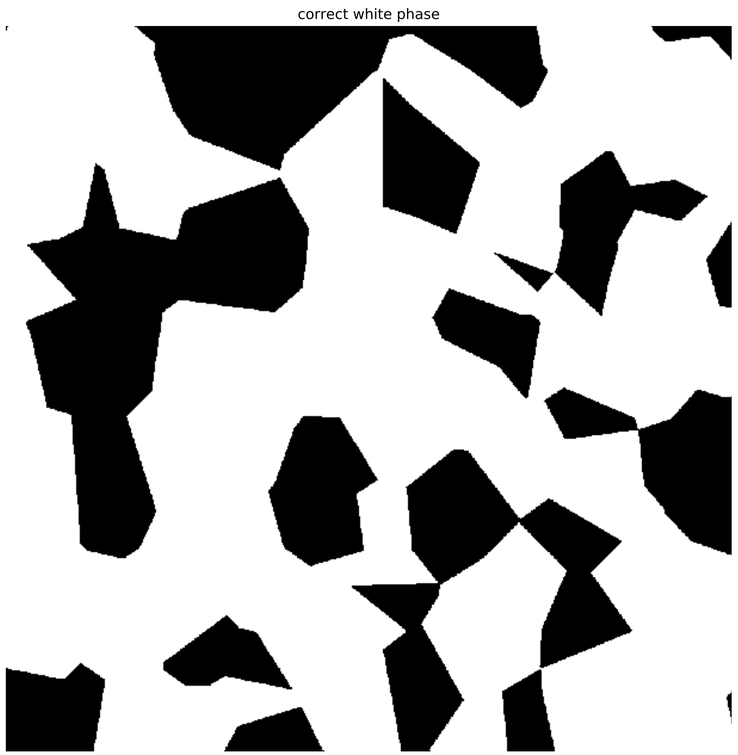
predicted line phase

correct dark phase



predicted dark phase

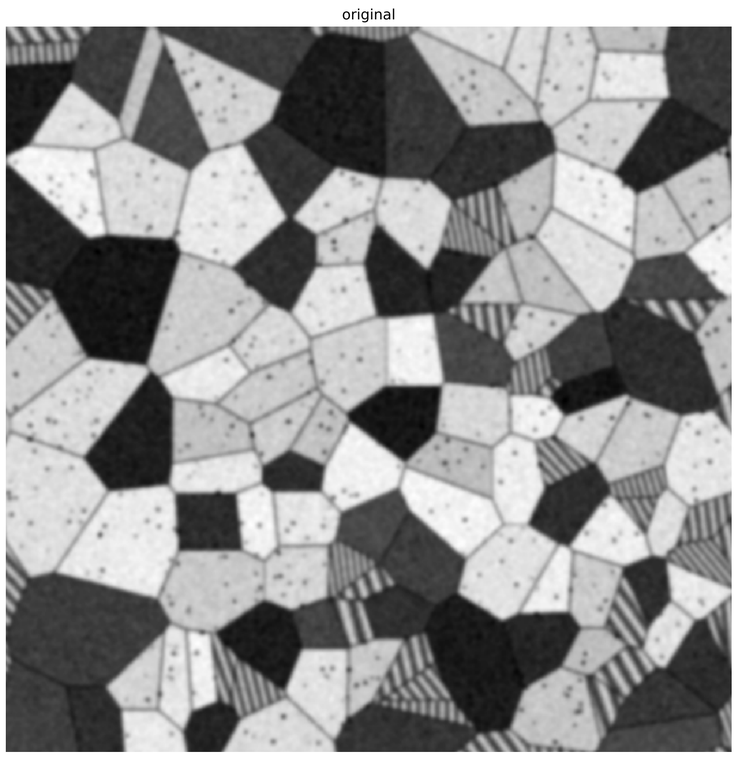
correct white phase



predicted white phase

data/base microstructure/image_78.png

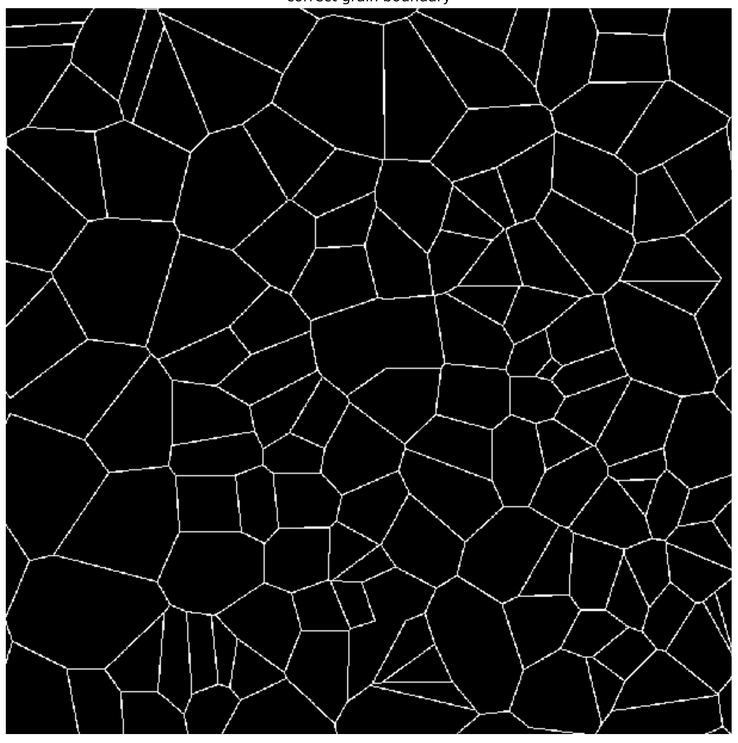
original



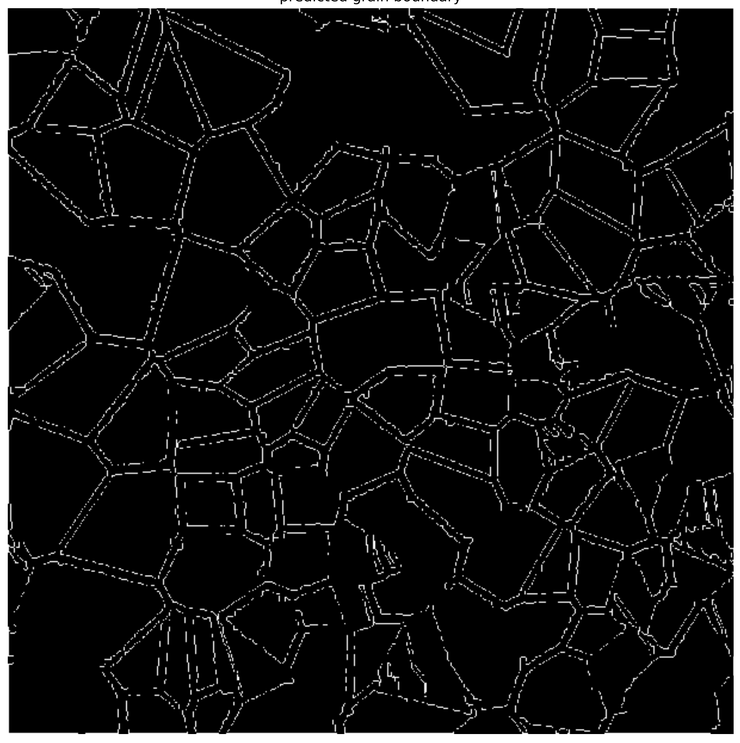
metrics

metric	correct	predicted	error
dark frac	0.379	0.372	0.722%
white frac	0.538	0.492	4.664%
line frac	0.083	0.048	3.509%
ave grain diameter	90.290	88.810	1.640%

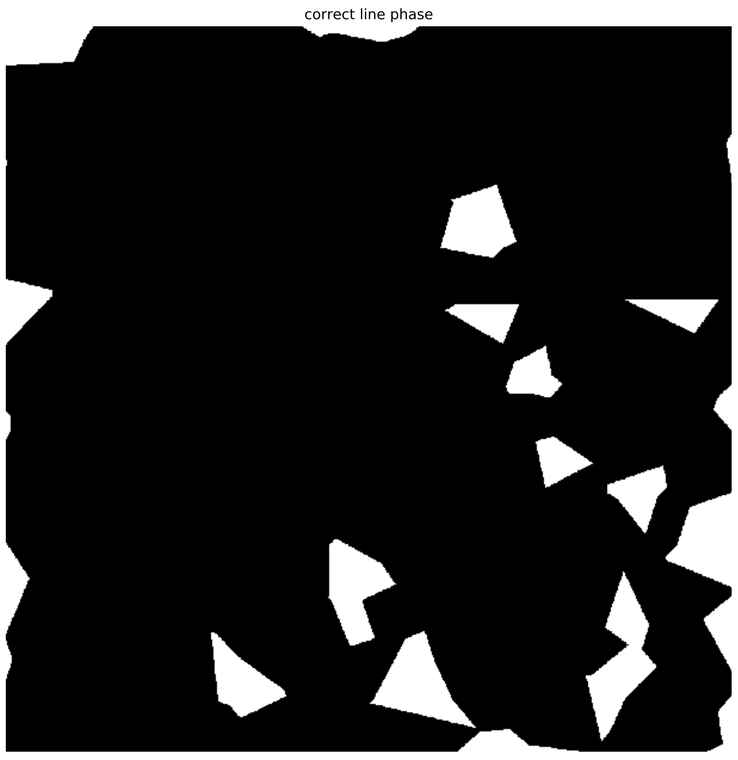
correct grain boundary



predicted grain boundary

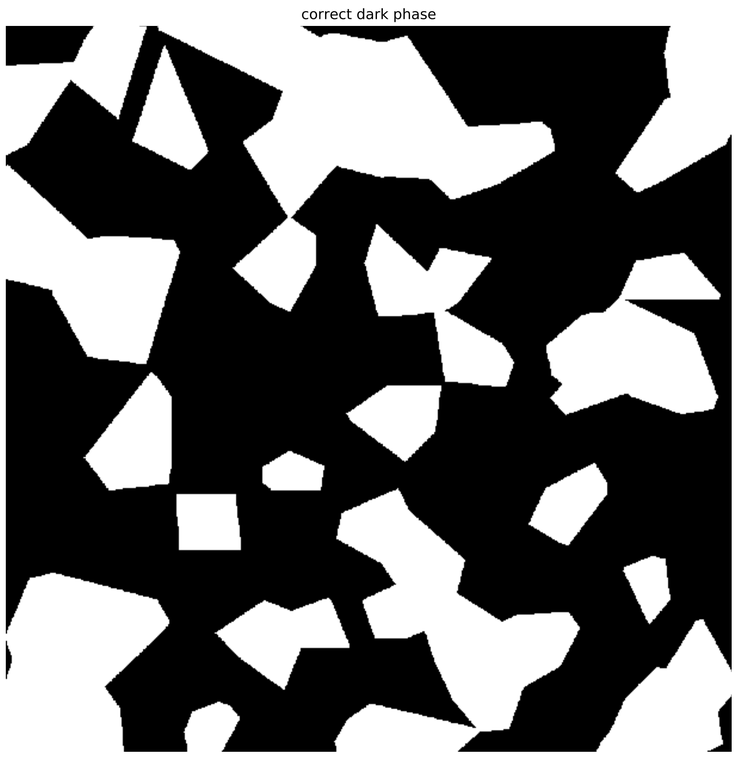


correct line phase



predicted line phase

correct dark phase



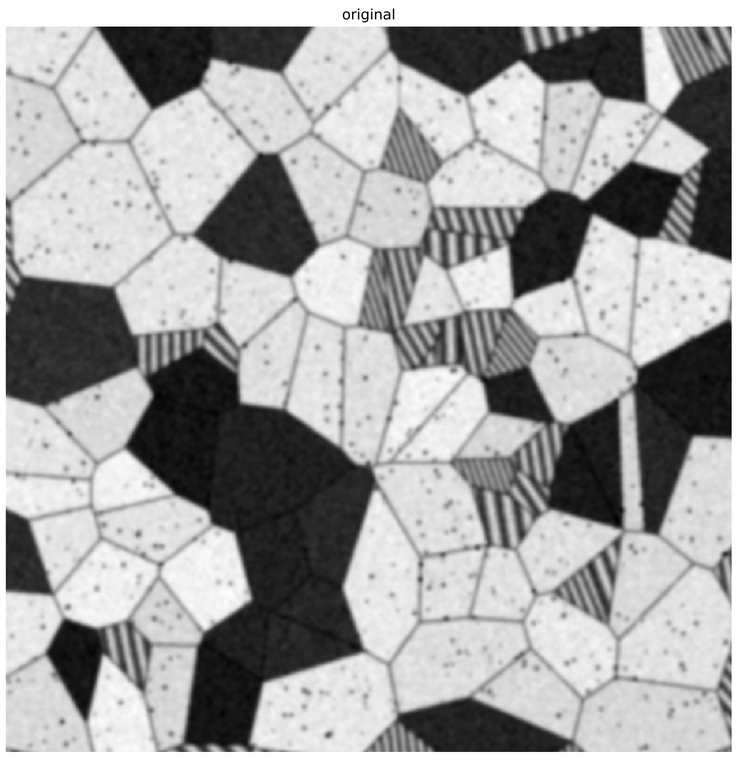
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_79.png

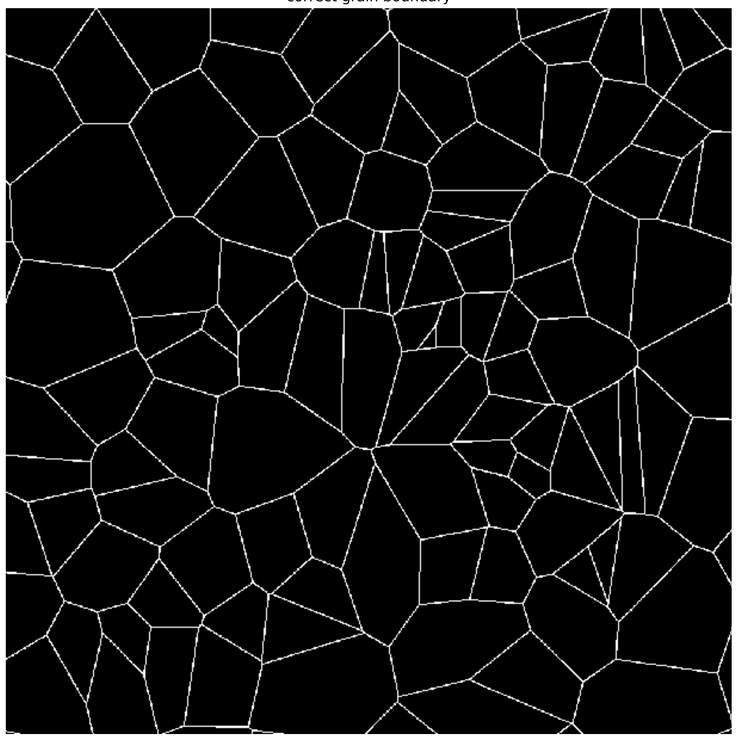
original



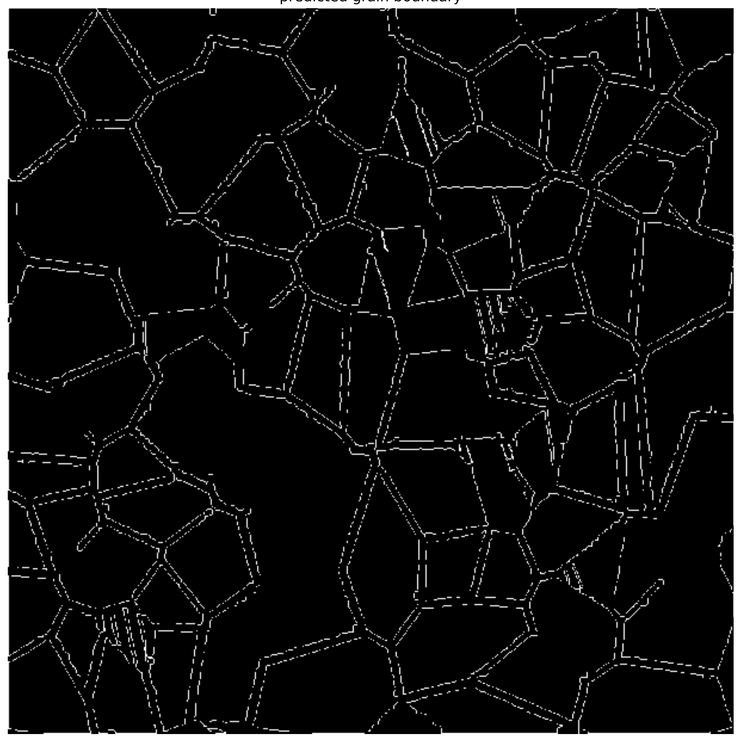
metrics

metric	correct	predicted	error
dark frac	0.272	0.265	0.695%
white frac	0.645	0.606	3.877%
line frac	0.083	0.058	2.463%
ave grain diameter	101.540	102.178	0.628%

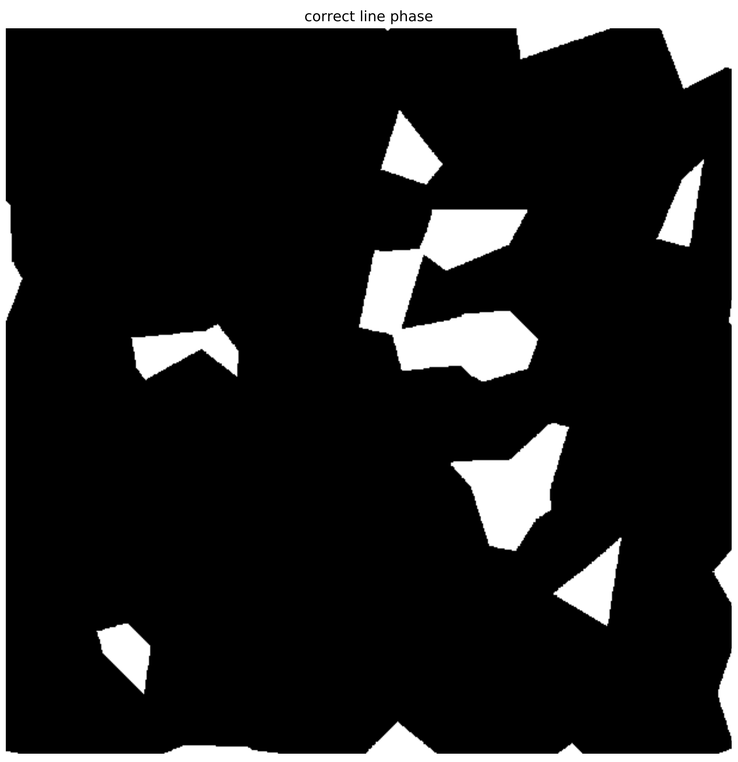
correct grain boundary



predicted grain boundary

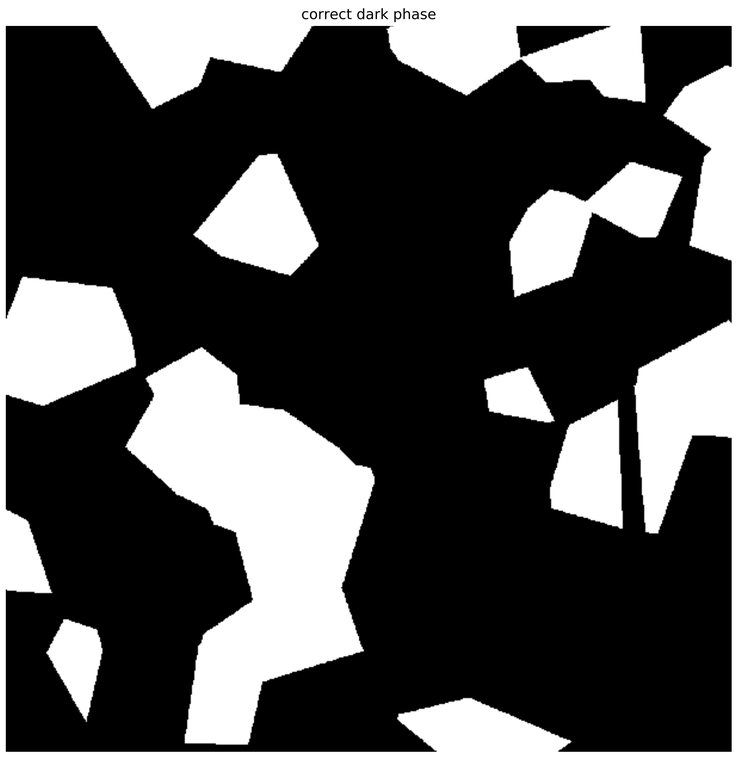


correct line phase



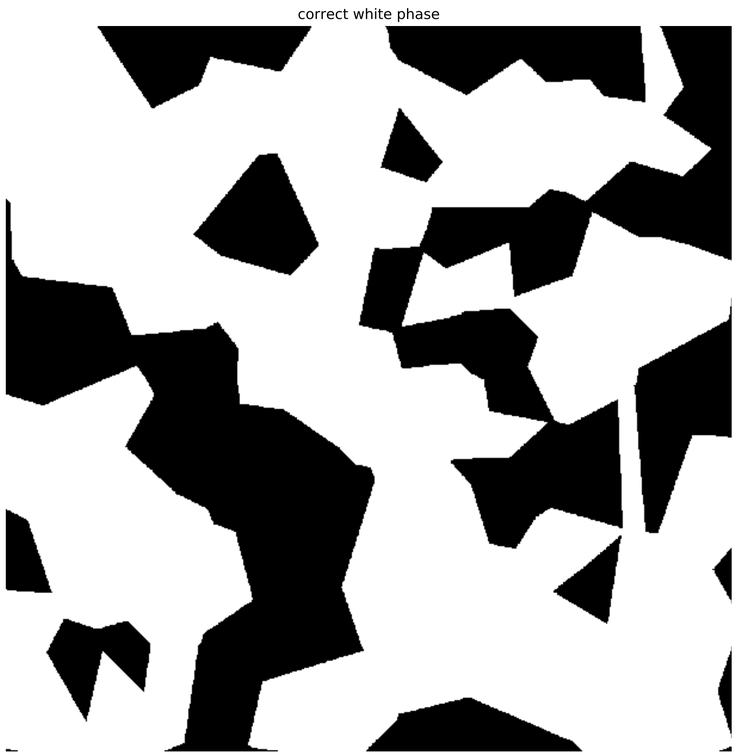
predicted line phase

correct dark phase



predicted dark phase

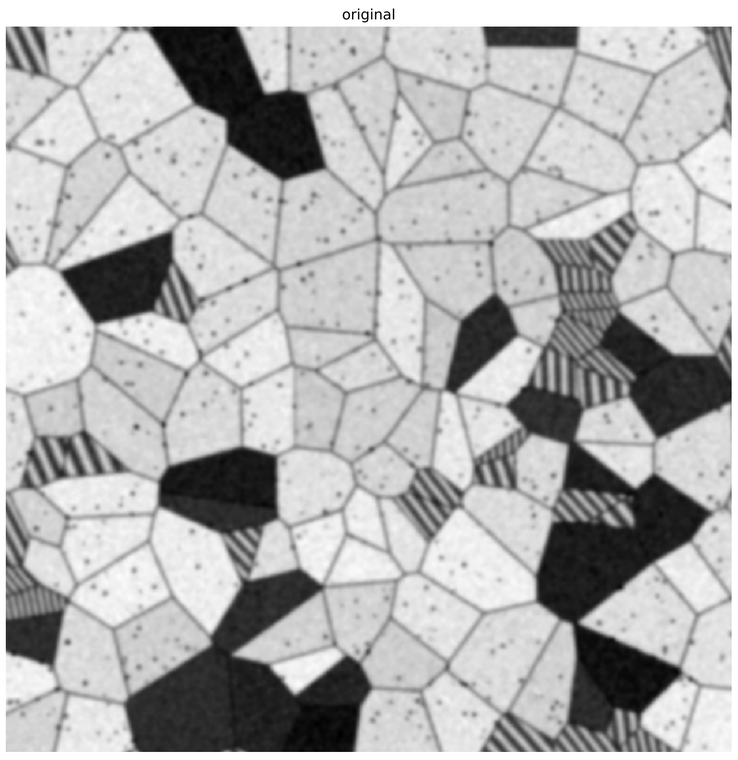
correct white phase



predicted white phase

data/base microstructure/image_8.png

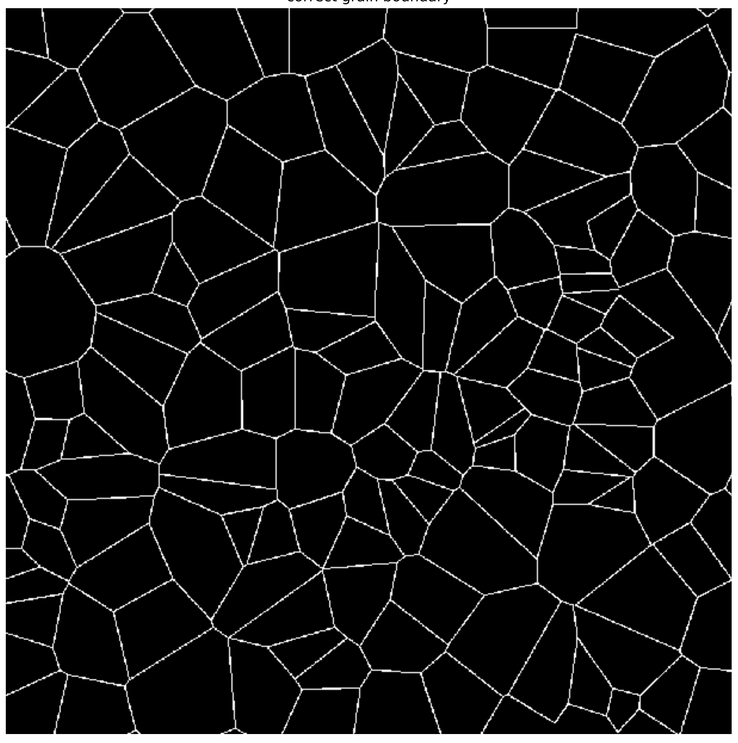
original



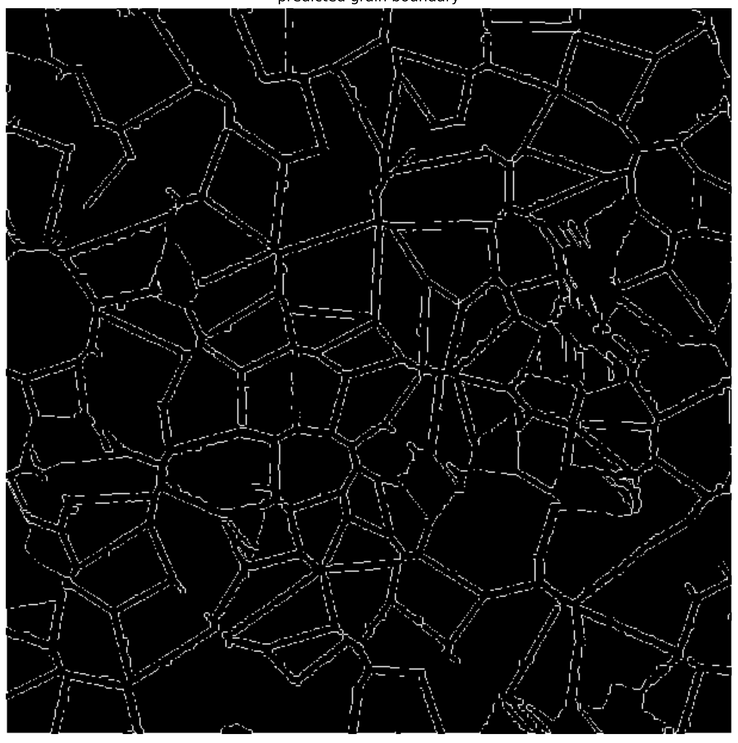
metrics

metric	correct	predicted	error
dark frac	0.168	0.162	0.531%
white frac	0.760	0.731	2.934%
line frac	0.072	0.049	2.233%
ave grain diameter	88.618	85.362	3.674%

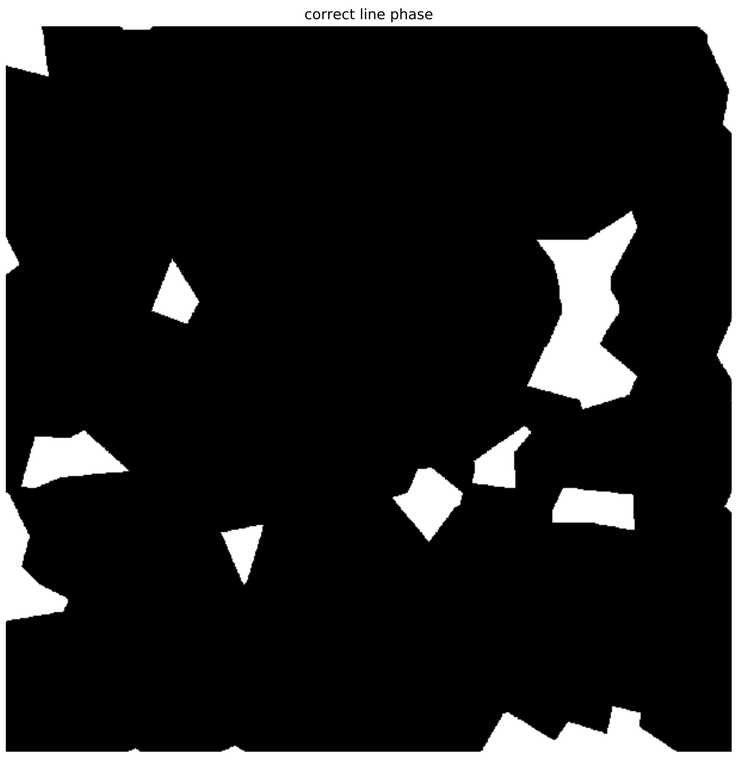
correct grain boundary



predicted grain boundary



correct line phase



predicted line phase

correct dark phase

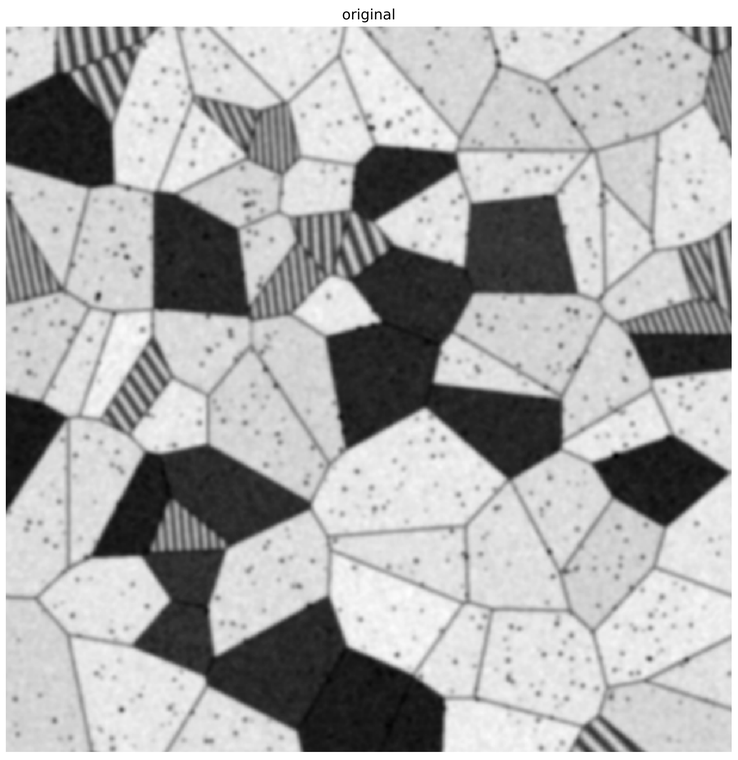
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_80.png

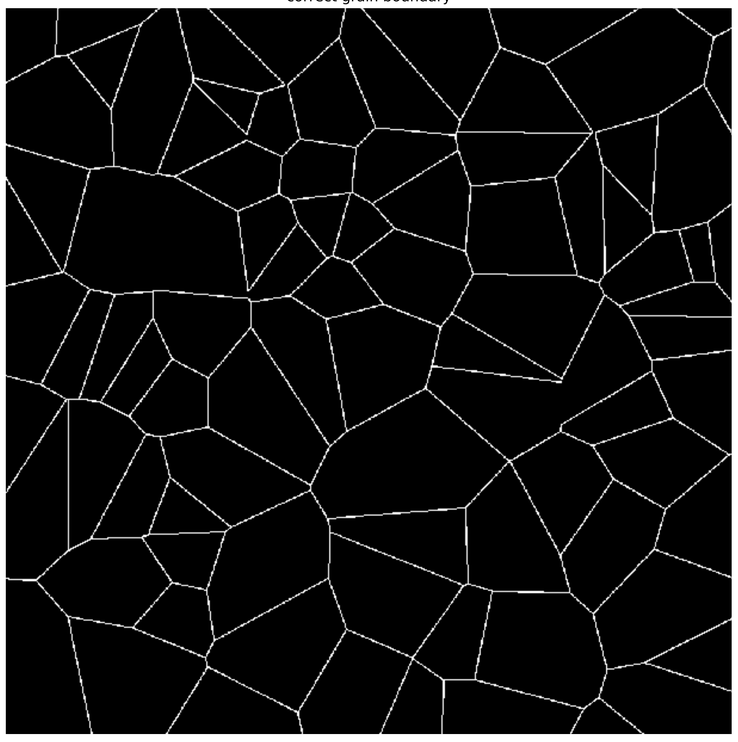
original



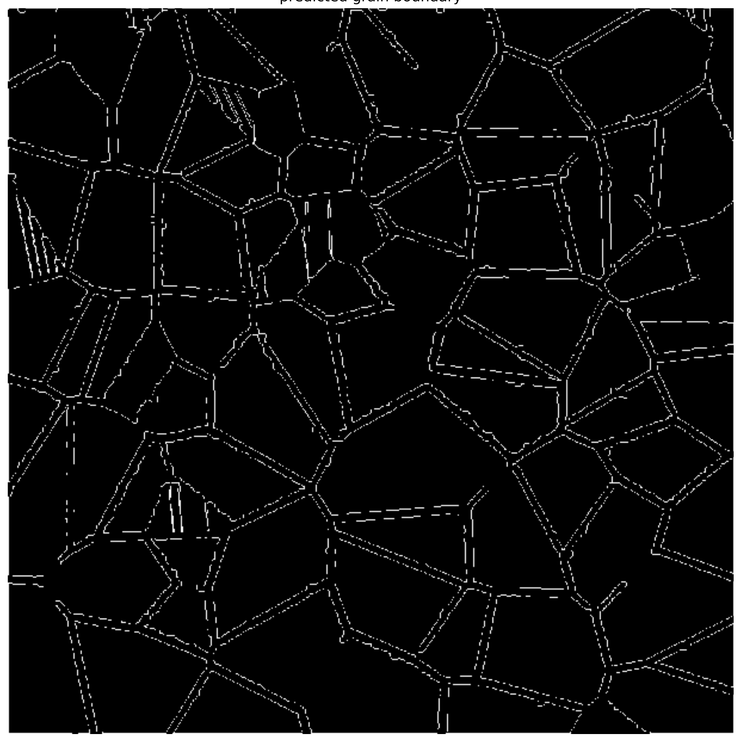
metrics

metric	correct	predicted	error
dark frac	0.212	0.205	0.660%
white frac	0.719	0.685	3.386%
line frac	0.069	0.052	1.704%
ave grain diameter	115.029	98.675	14.217%

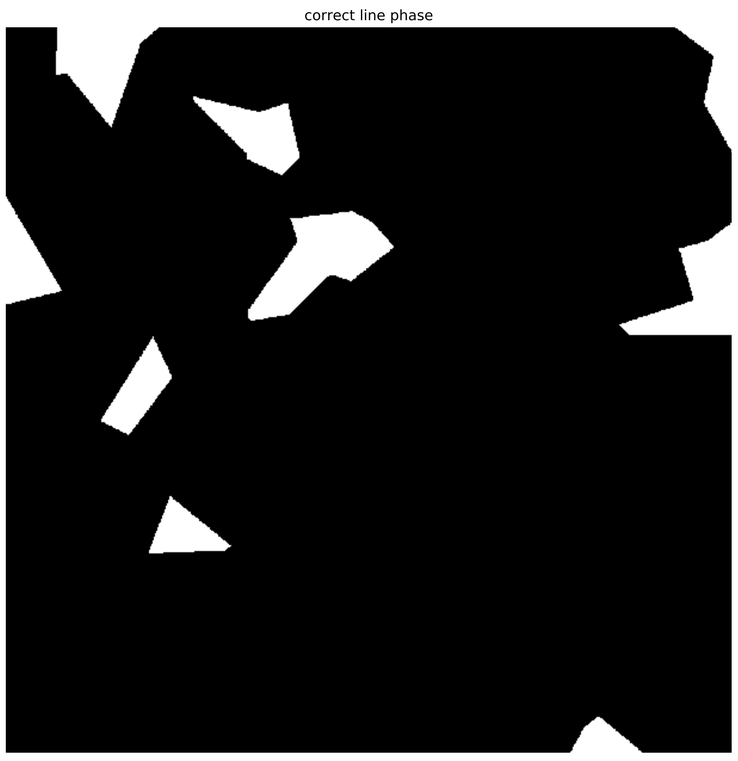
correct grain boundary



predicted grain boundary



correct line phase



predicted line phase

correct dark phase

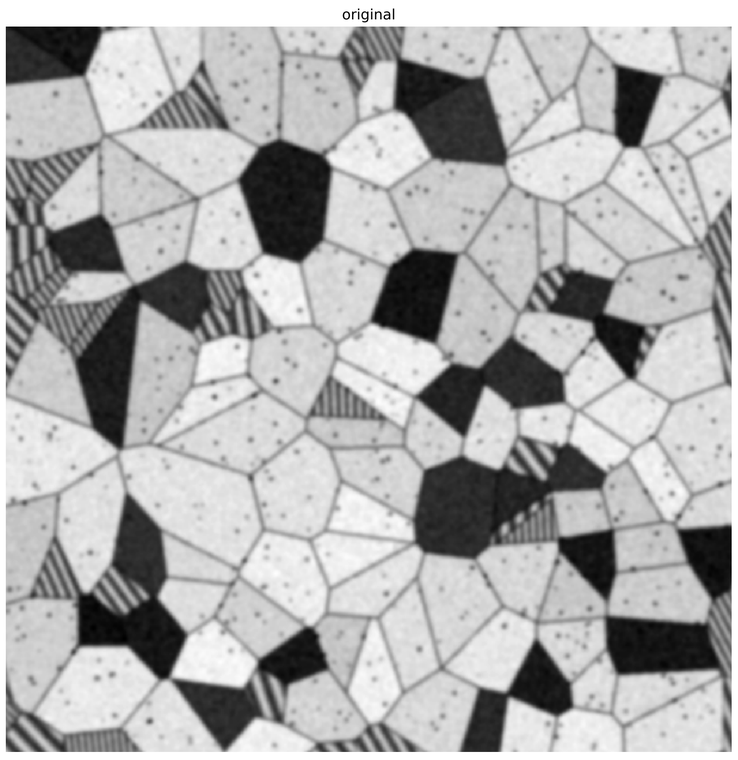
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_81.png

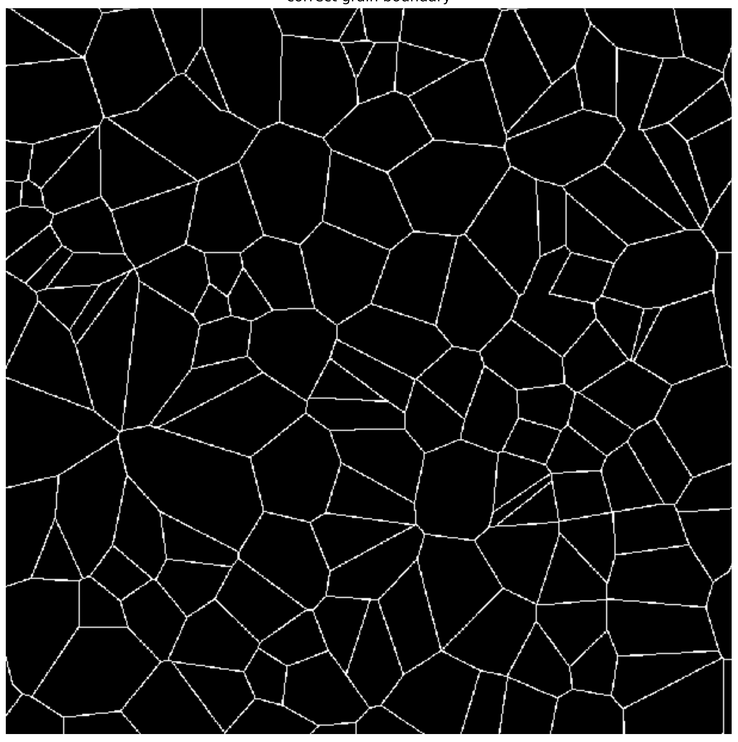
original



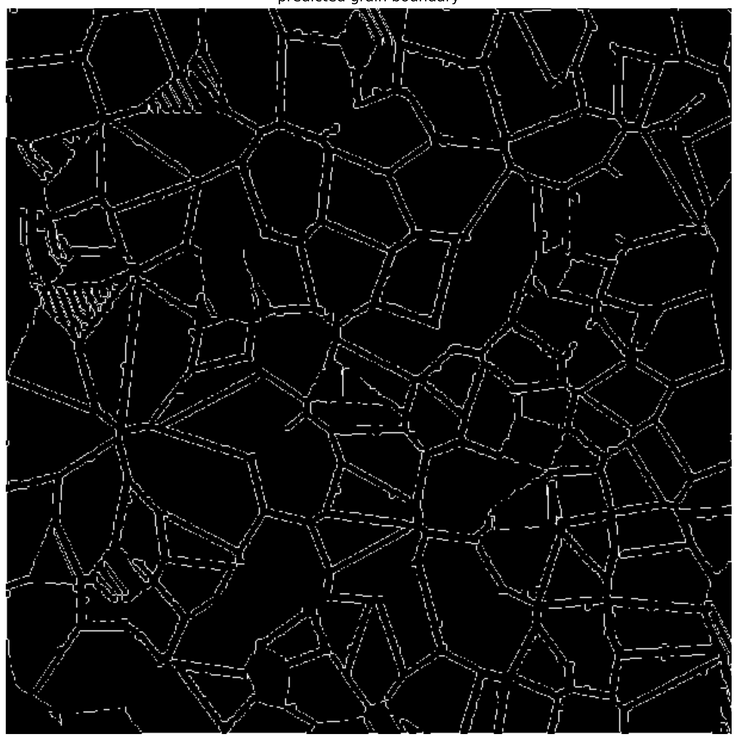
metrics

metric	correct	predicted	error
dark frac	0.169	0.165	0.456%
white frac	0.748	0.702	4.616%
line frac	0.083	0.056	2.697%
ave grain diameter	86.864	75.310	13.301%

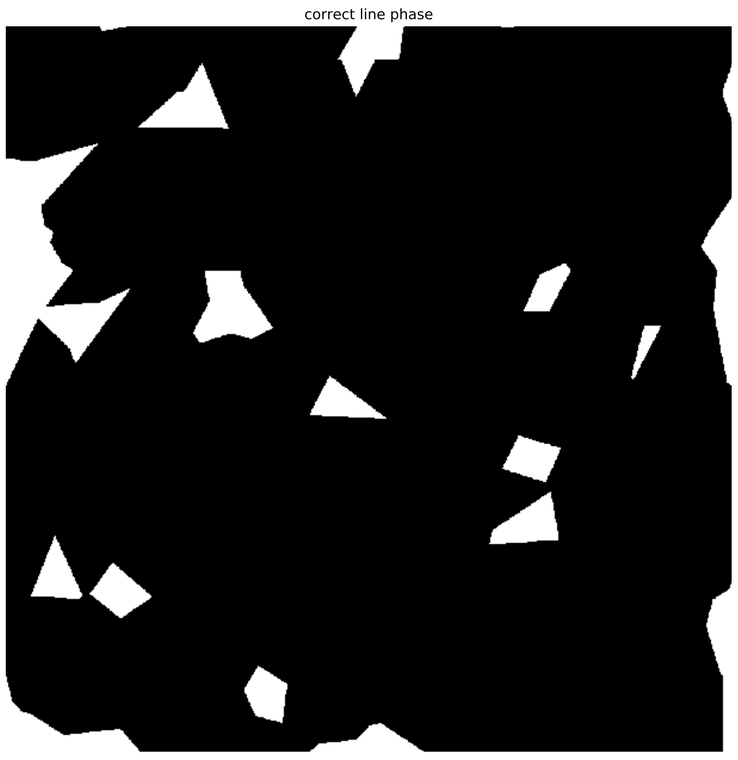
correct grain boundary



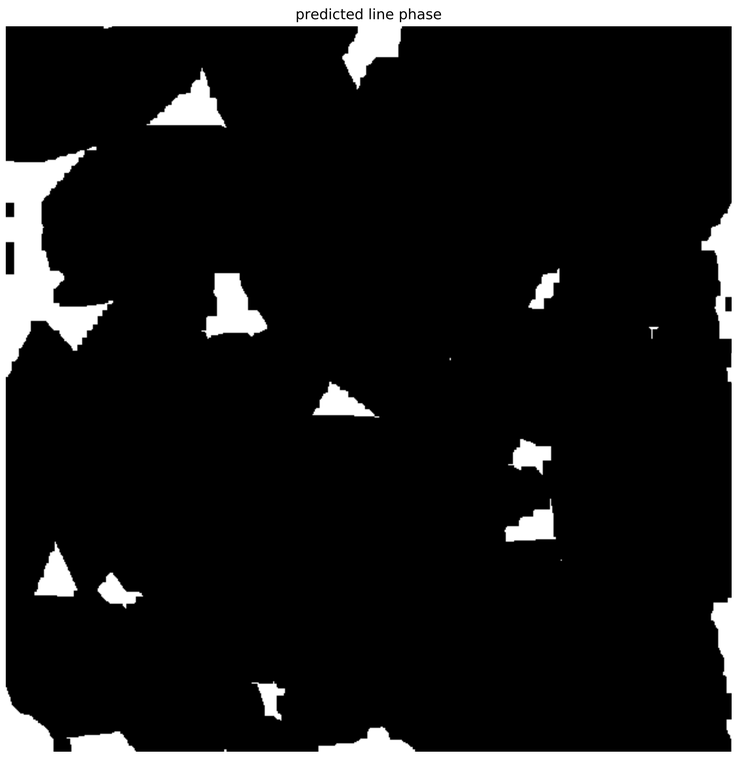
predicted grain boundary



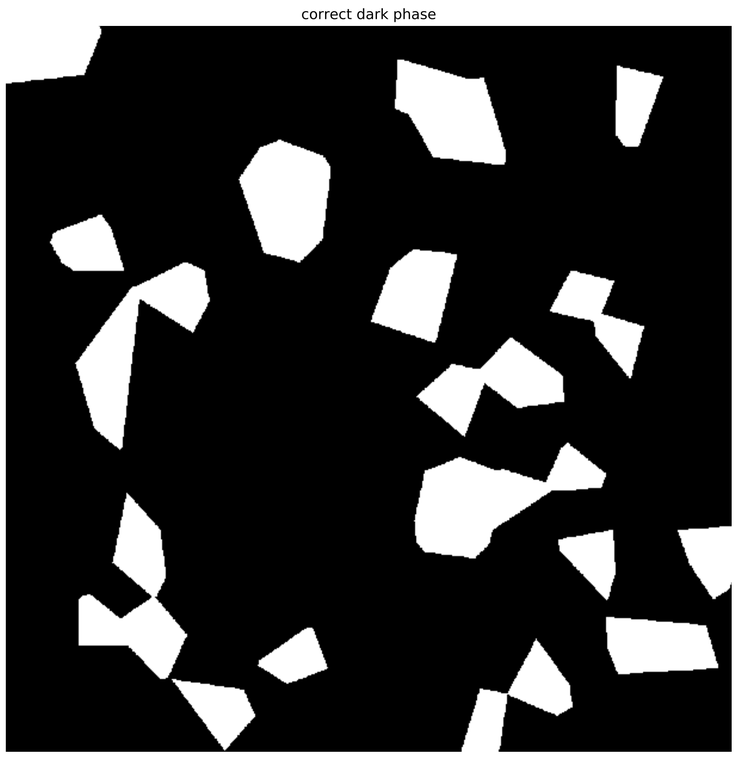
correct line phase



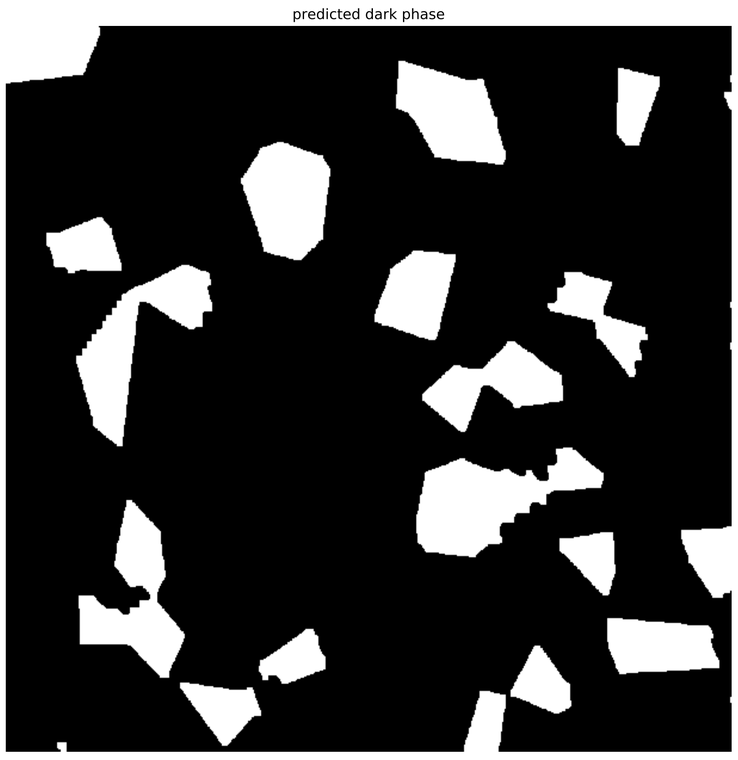
predicted line phase



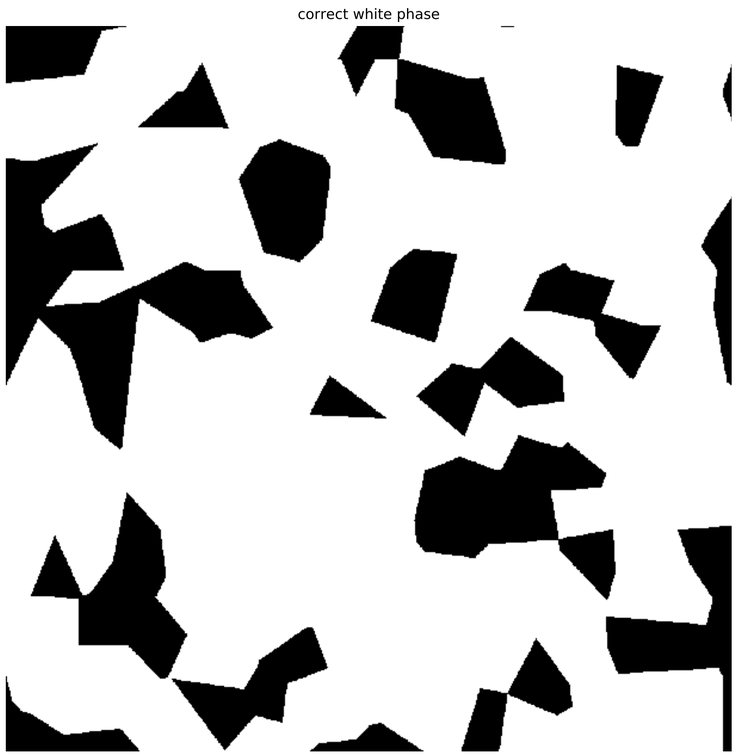
correct dark phase



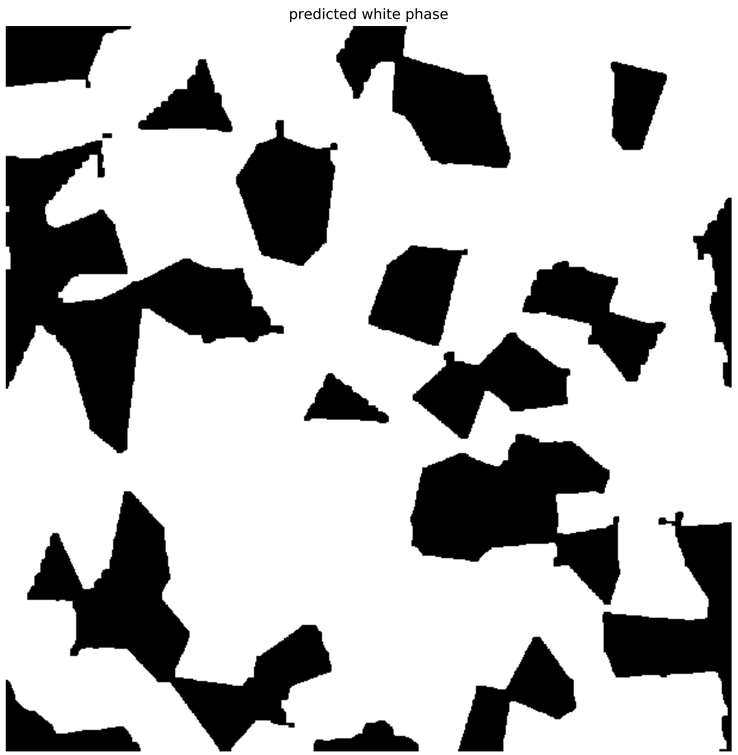
predicted dark phase



correct white phase

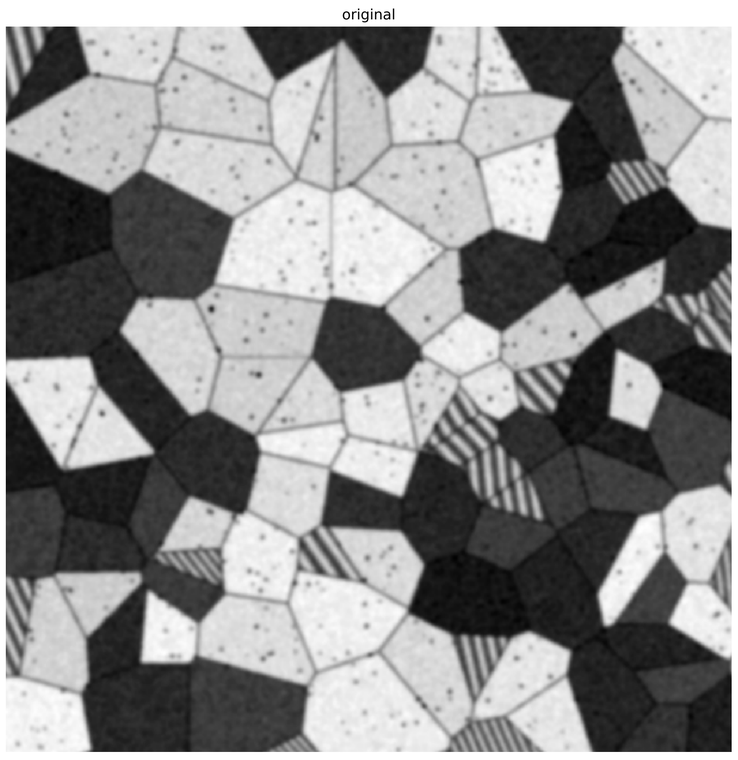


predicted white phase



data/base microstructure/image_82.png

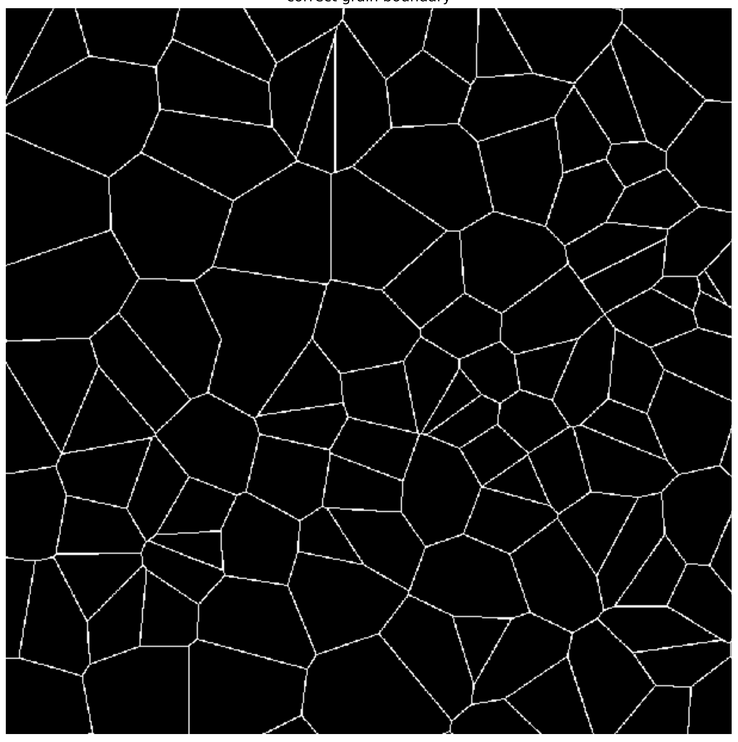
original



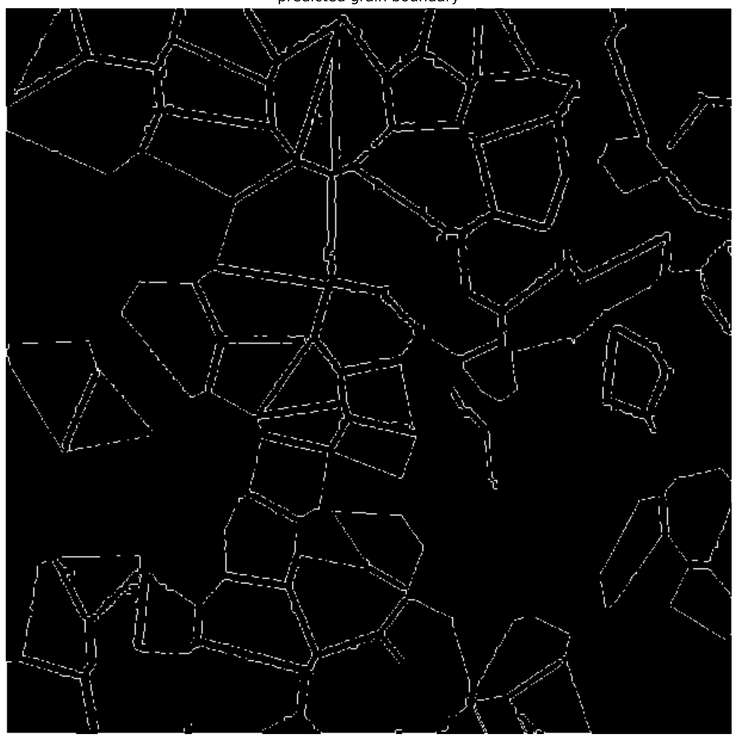
metrics

metric	correct	predicted	error
dark frac	0.420	0.412	0.747%
white frac	0.525	0.487	3.767%
line frac	0.055	0.034	2.137%
ave grain diameter	101.339	89.281	11.899%

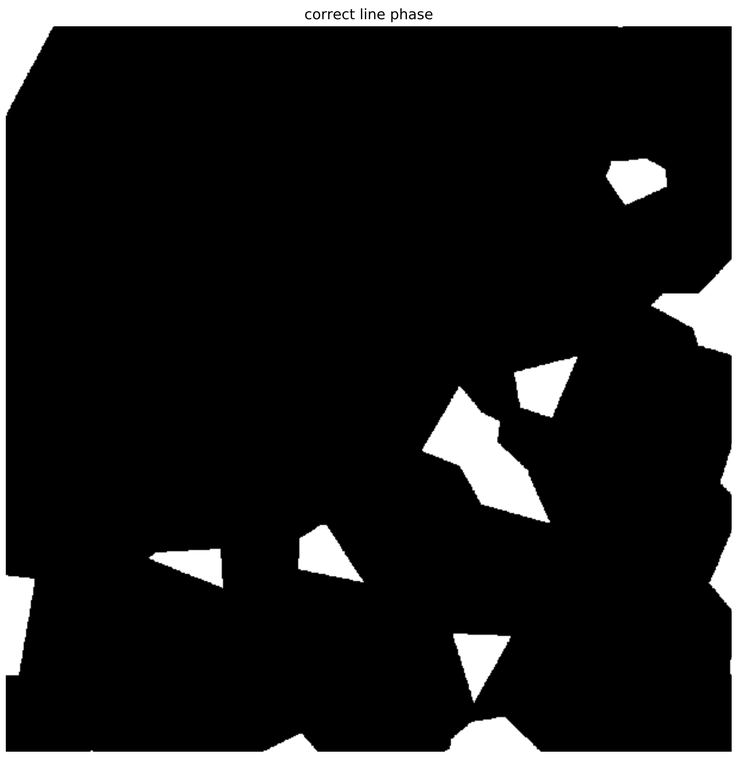
correct grain boundary



predicted grain boundary

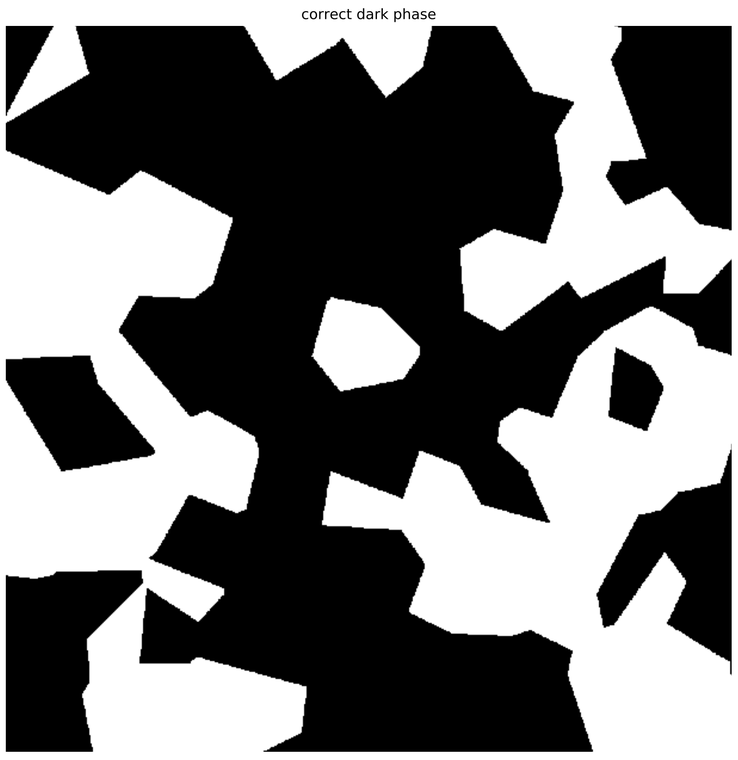


correct line phase



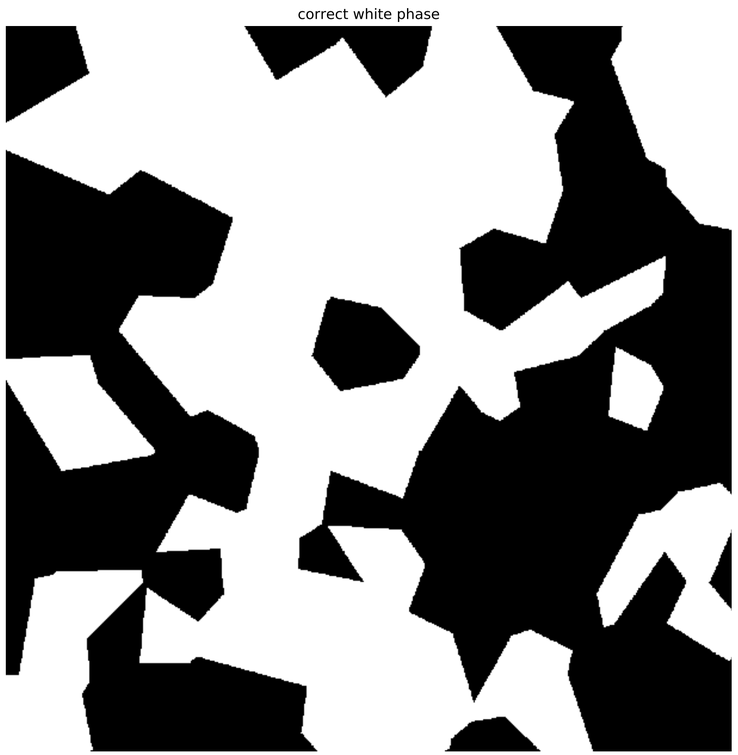
predicted line phase

correct dark phase



predicted dark phase

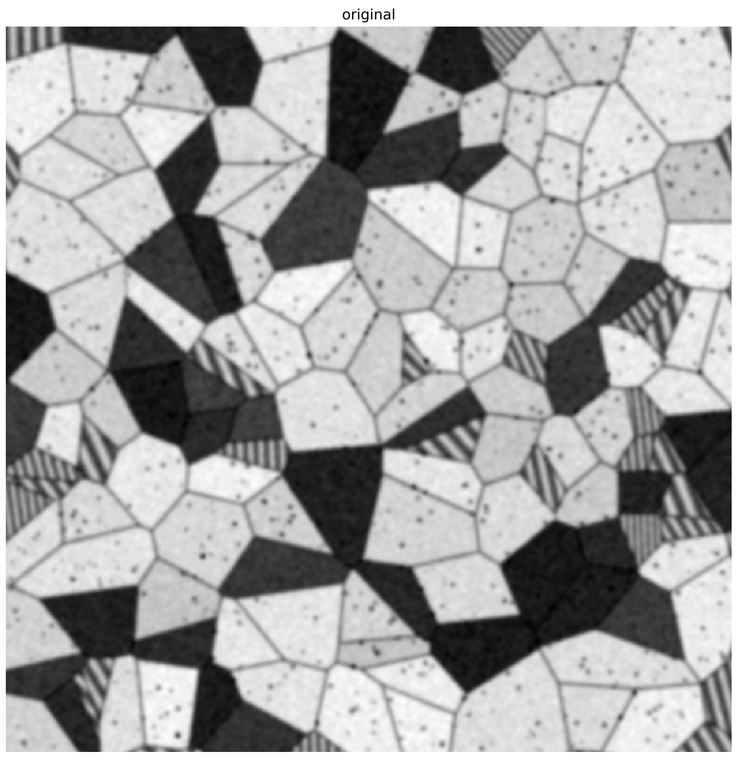
correct white phase



predicted white phase

data/base microstructure/image_83.png

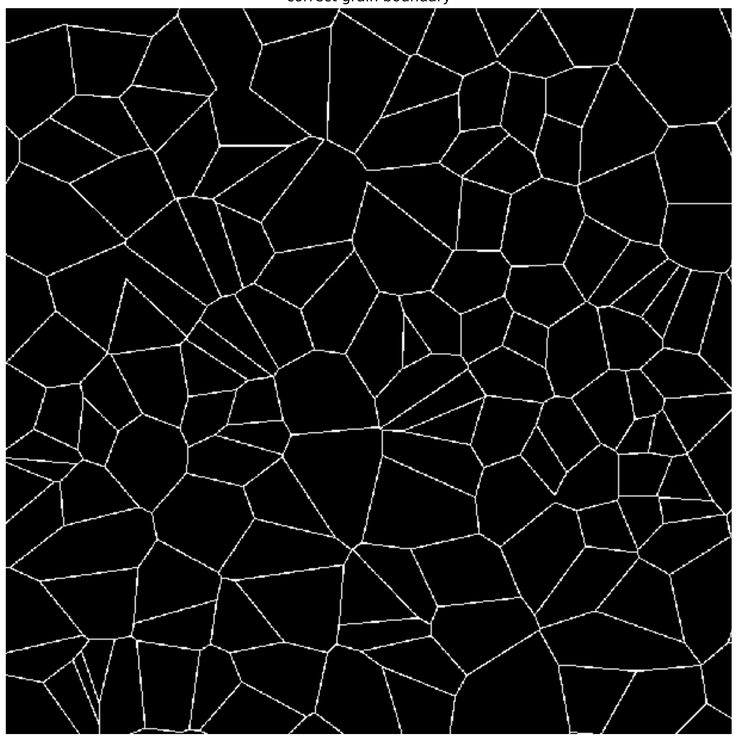
original



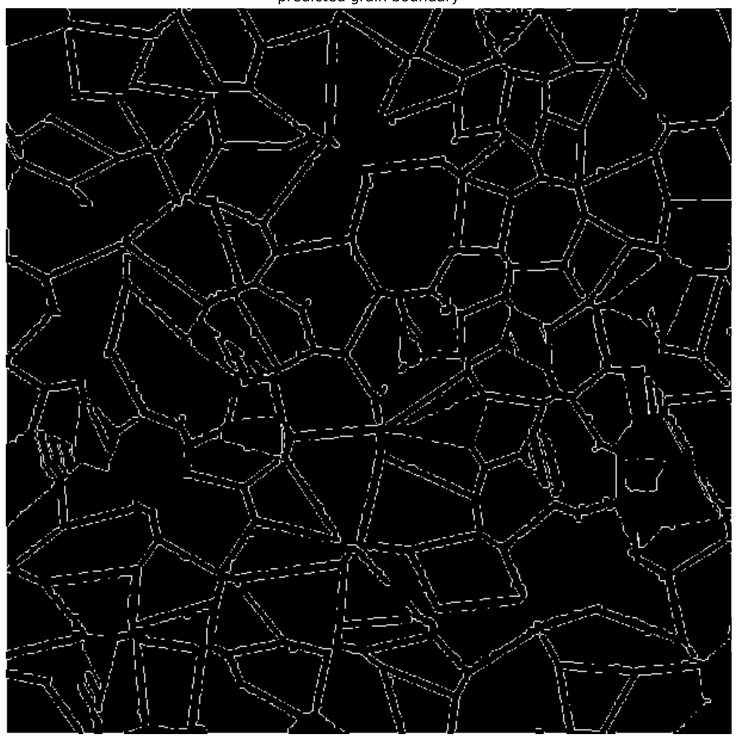
metrics

metric	correct	predicted	error
dark frac	0.253	0.247	0.569%
white frac	0.681	0.633	4.758%
line frac	0.066	0.038	2.842%
ave grain diameter	88.258	82.065	7.017%

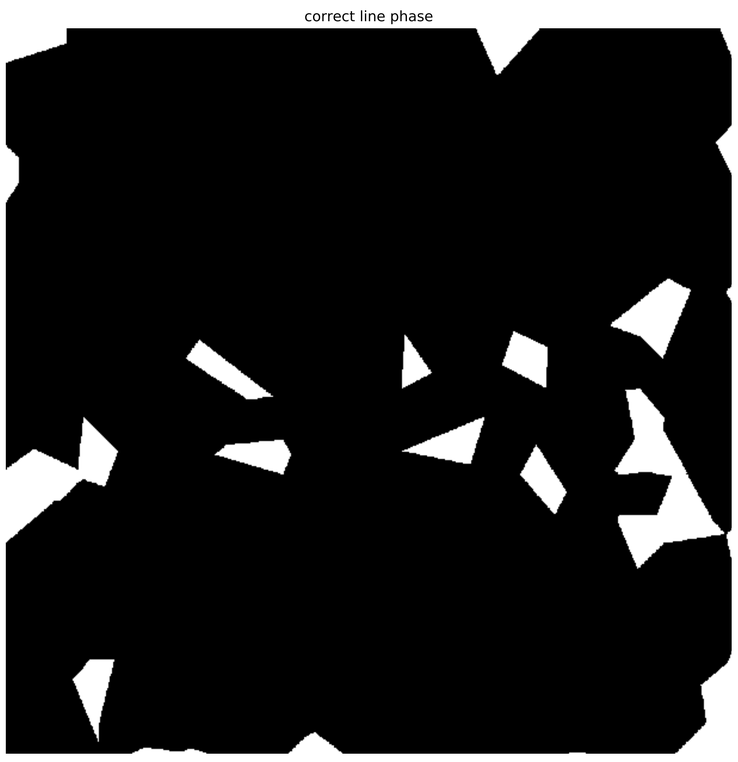
correct grain boundary



predicted grain boundary

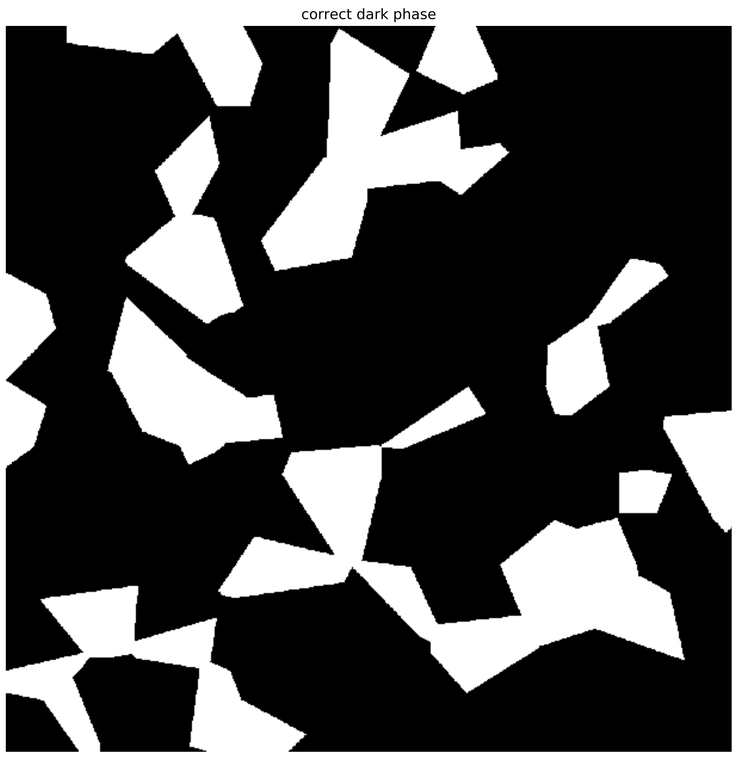


correct line phase



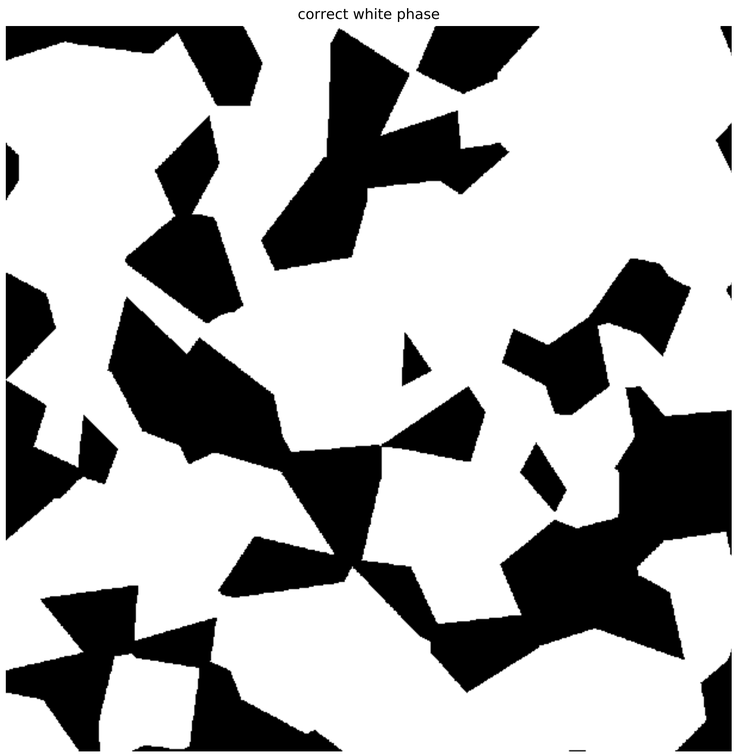
predicted line phase

correct dark phase



predicted dark phase

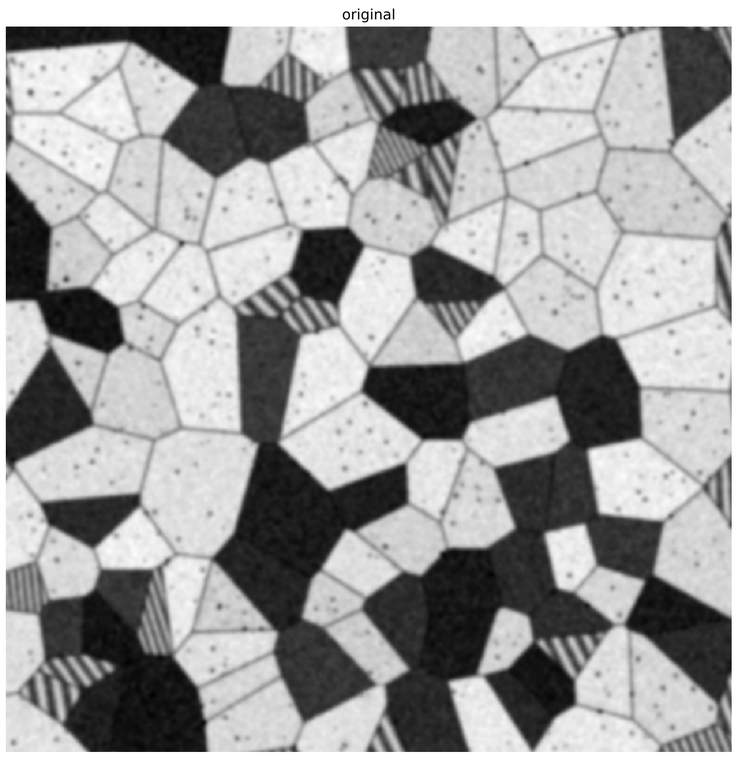
correct white phase



predicted white phase

data/base microstructure/image_84.png

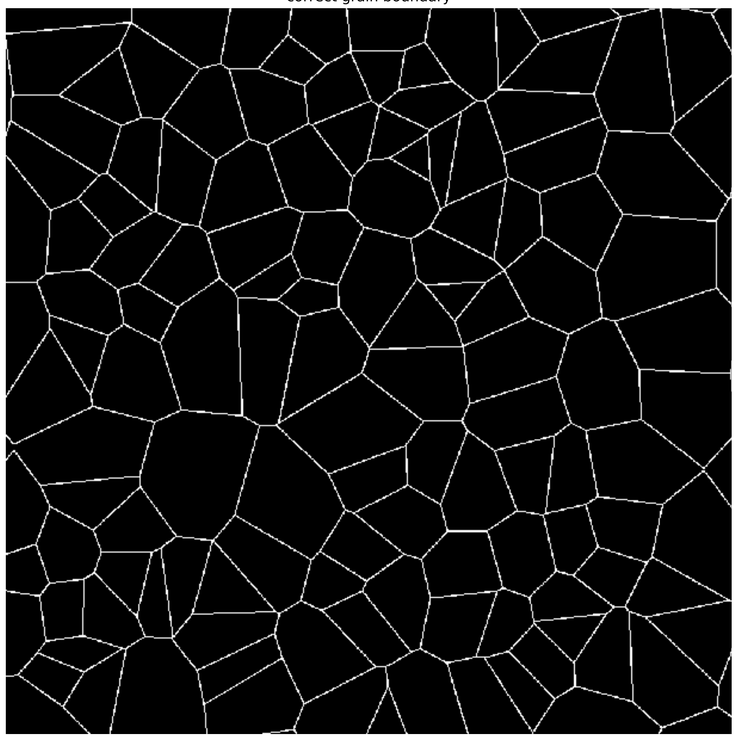
original



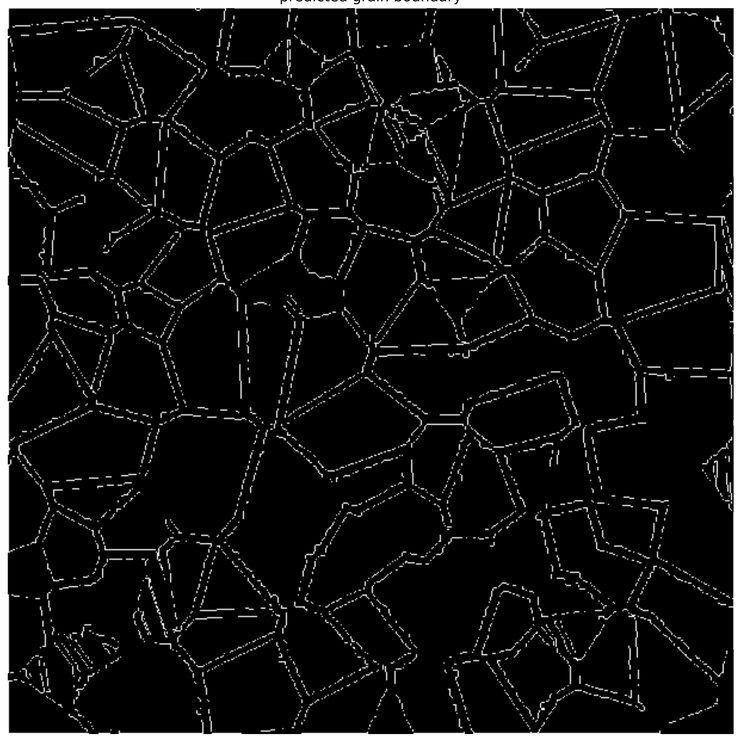
metrics

metric	correct	predicted	error
dark frac	0.308	0.297	1.061%
white frac	0.635	0.591	4.377%
line frac	0.057	0.032	2.517%
ave grain diameter	93.866	91.434	2.591%

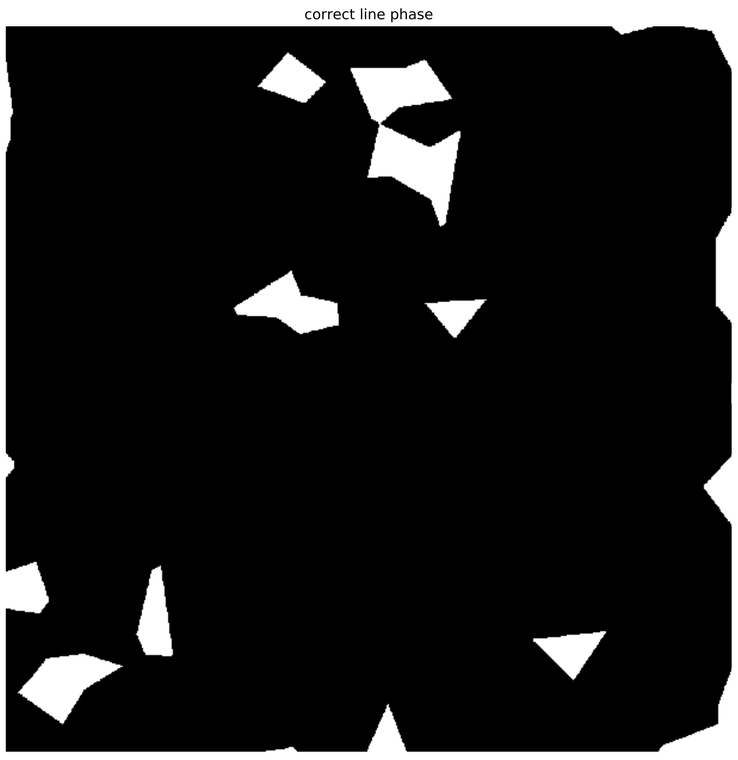
correct grain boundary



predicted grain boundary

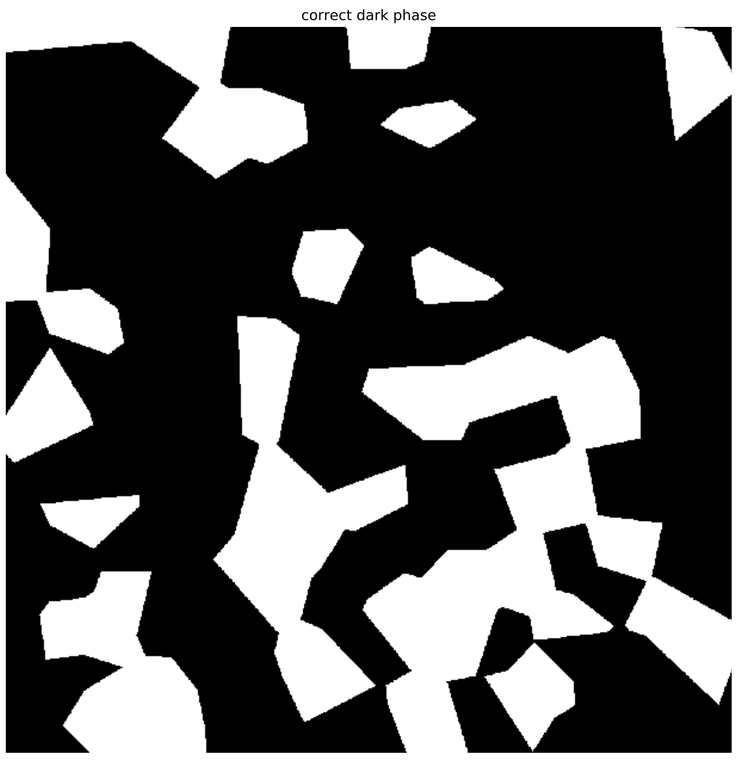


correct line phase



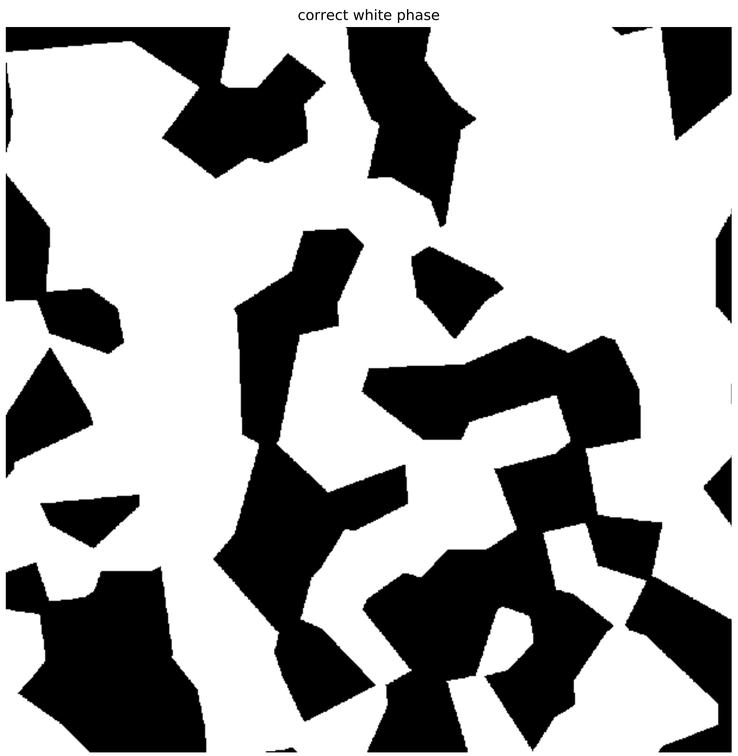
predicted line phase

correct dark phase



predicted dark phase

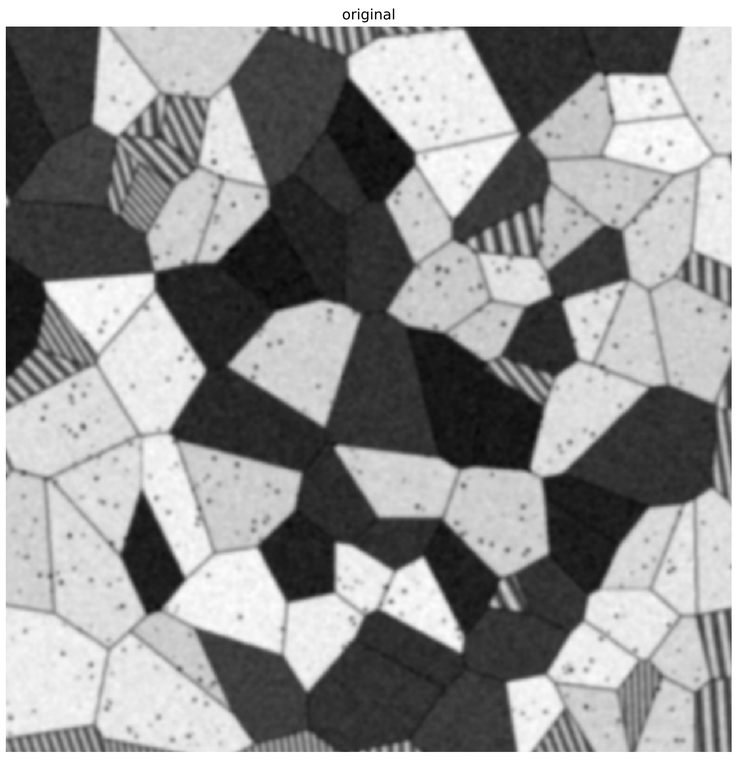
correct white phase



predicted white phase

data/base microstructure/image_85.png

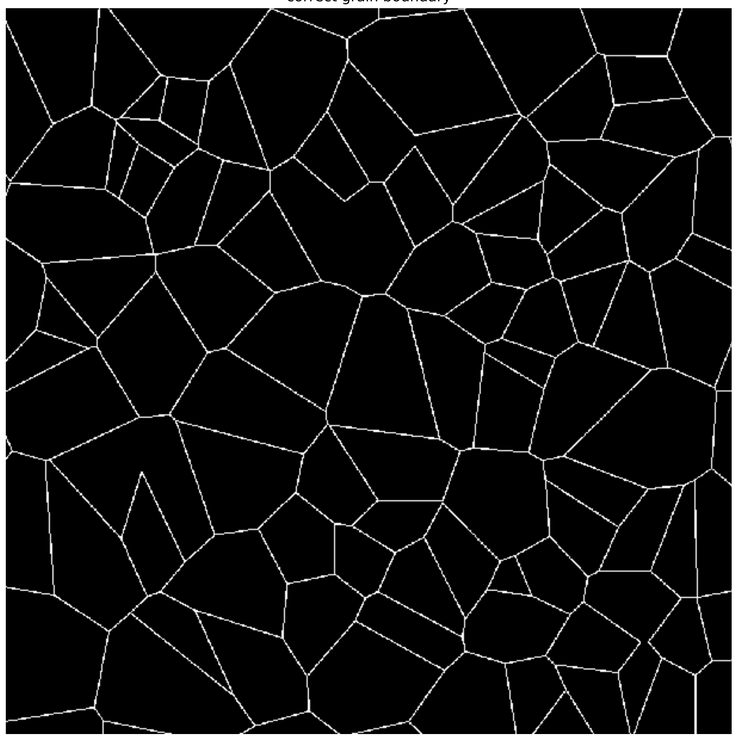
original



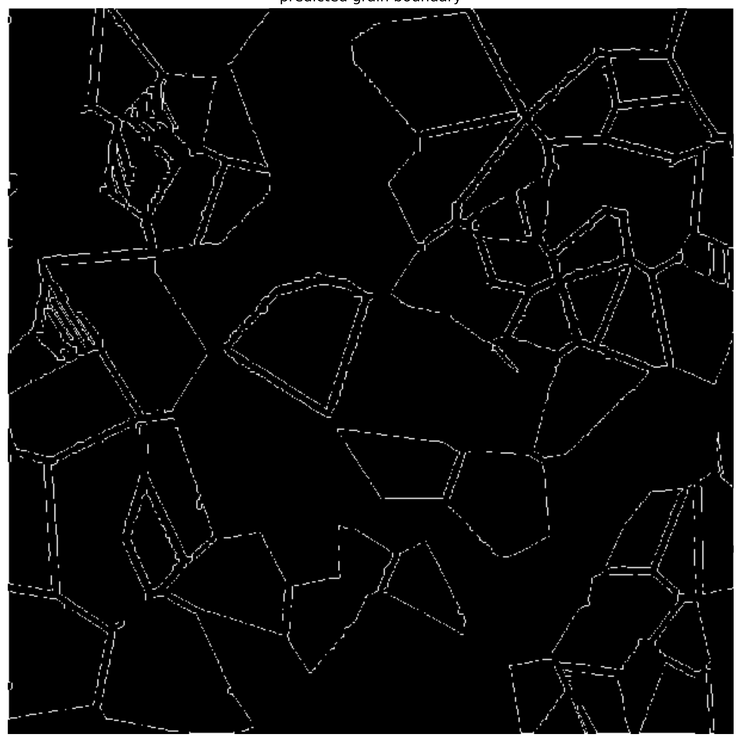
metrics

metric	correct	predicted	error
dark frac	0.393	0.385	0.779%
white frac	0.537	0.496	4.050%
line frac	0.070	0.046	2.432%
ave grain diameter	105.660	100.328	5.046%

correct grain boundary



predicted grain boundary



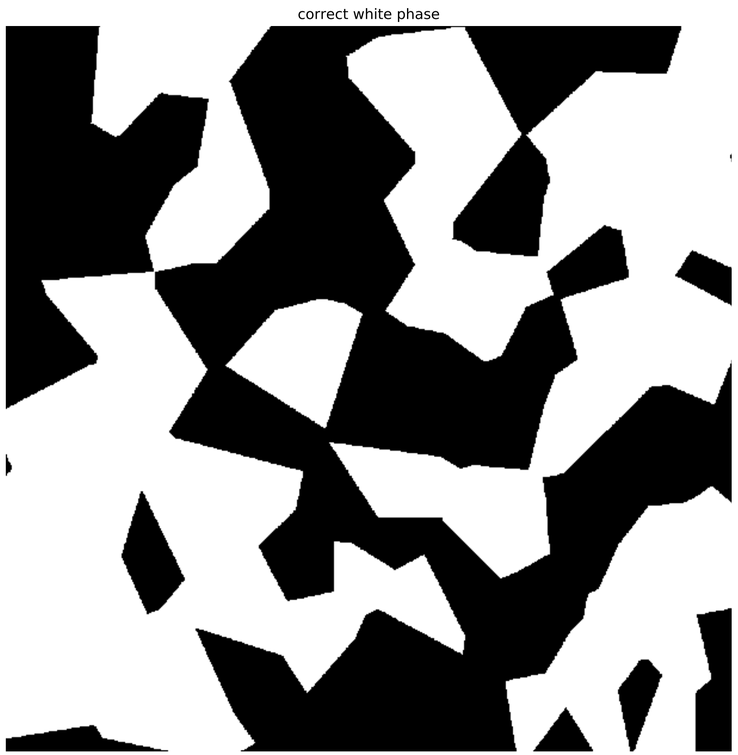
correct line phase

predicted line phase

correct dark phase

predicted dark phase

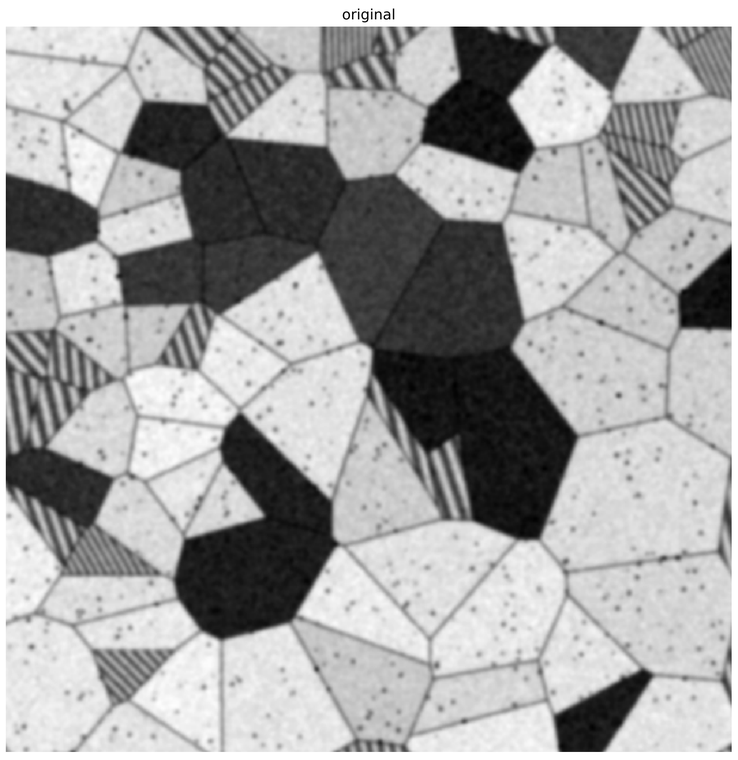
correct white phase



predicted white phase

data/base microstructure/image_86.png

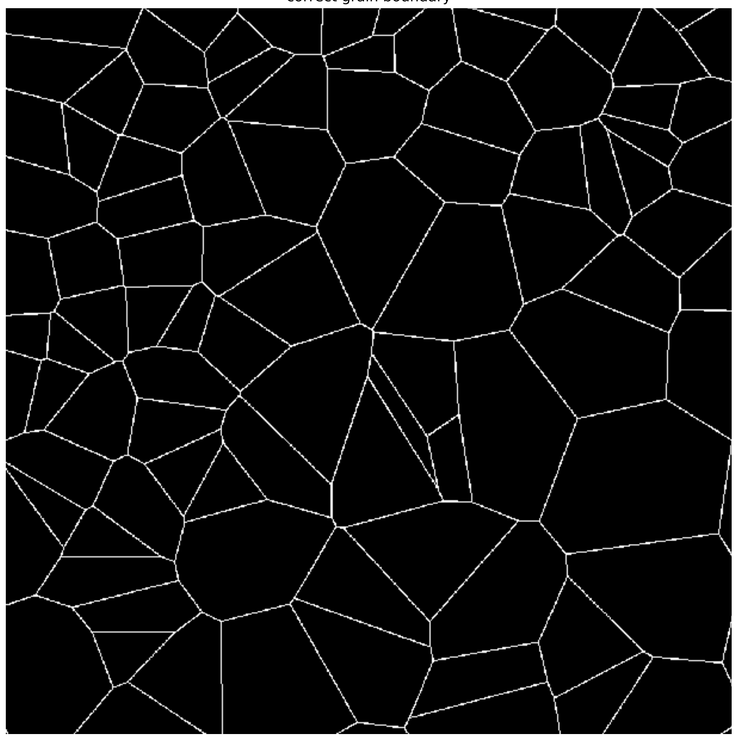
original



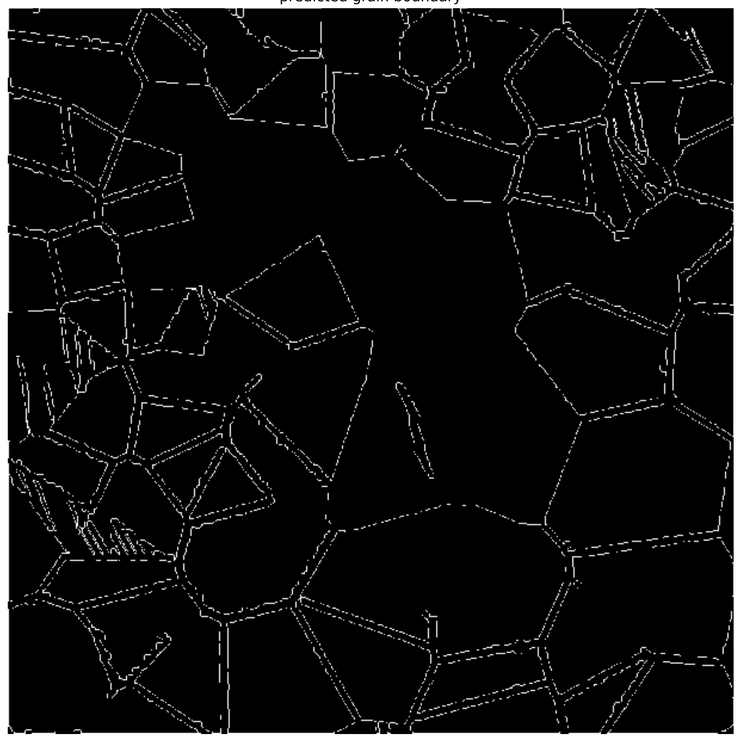
metrics

metric	correct	predicted	error
dark frac	0.245	0.240	0.455%
white frac	0.664	0.632	3.238%
line frac	0.091	0.068	2.315%
ave grain diameter	108.581	93.508	13.882%

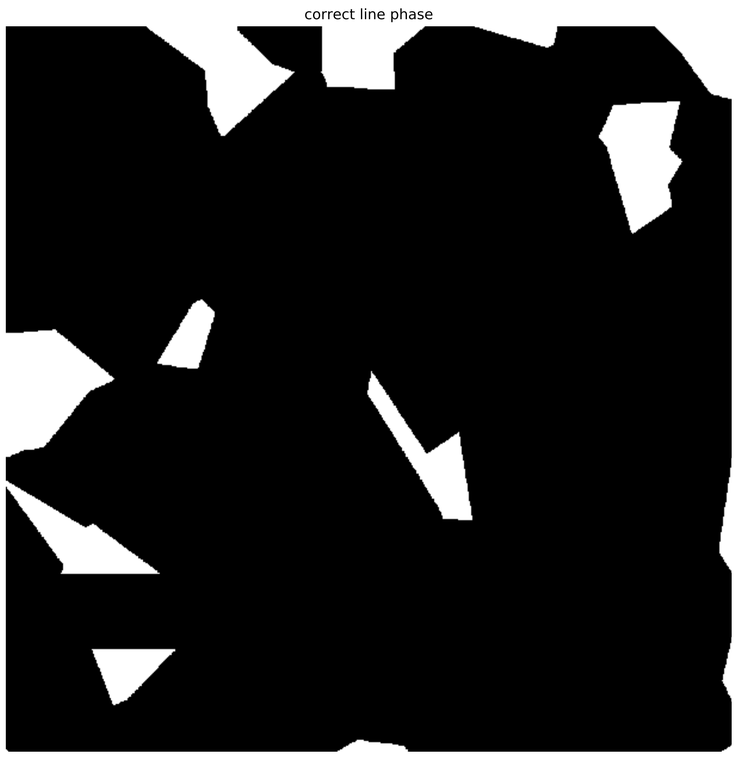
correct grain boundary



predicted grain boundary



correct line phase

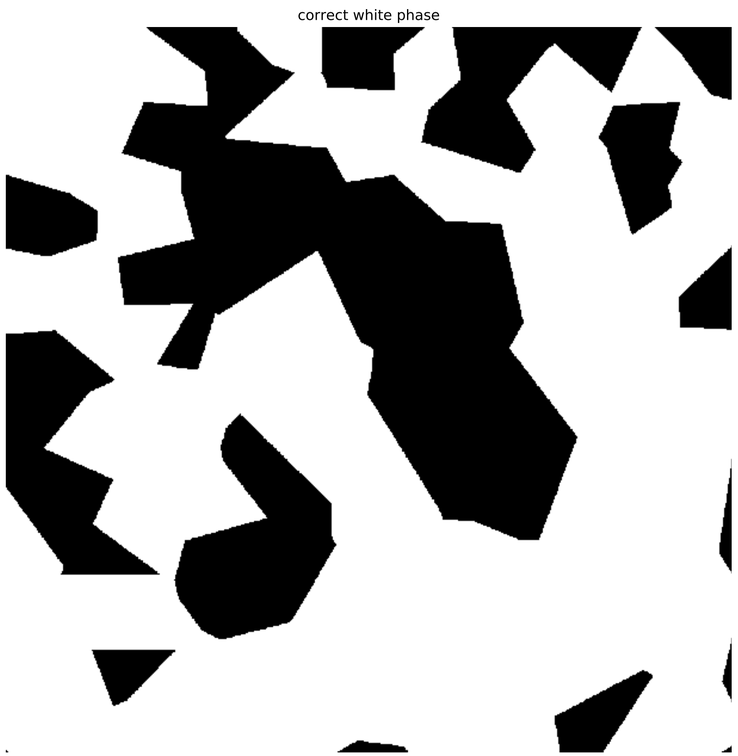


predicted line phase

correct dark phase

predicted dark phase

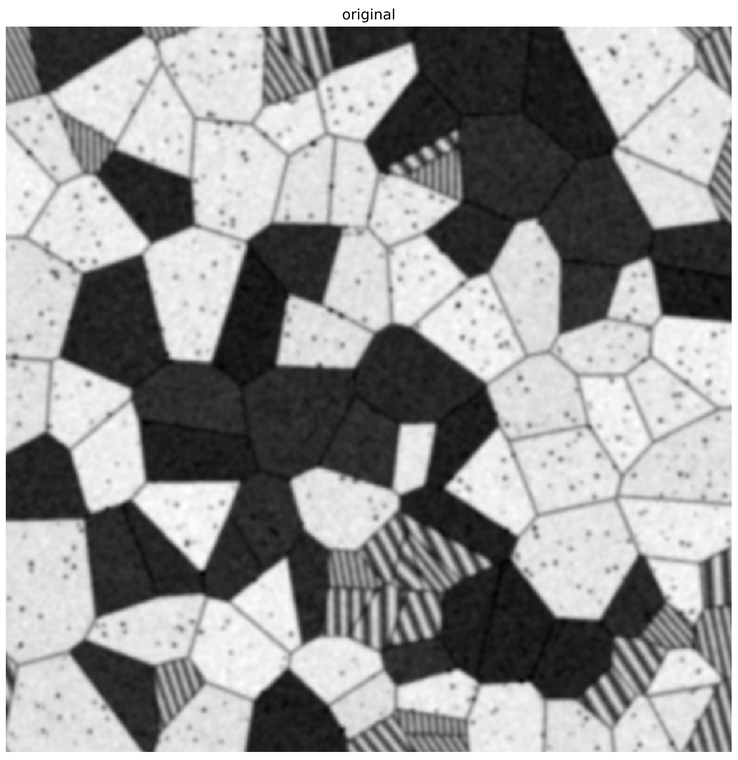
correct white phase



predicted white phase

data/base microstructure/image_87.png

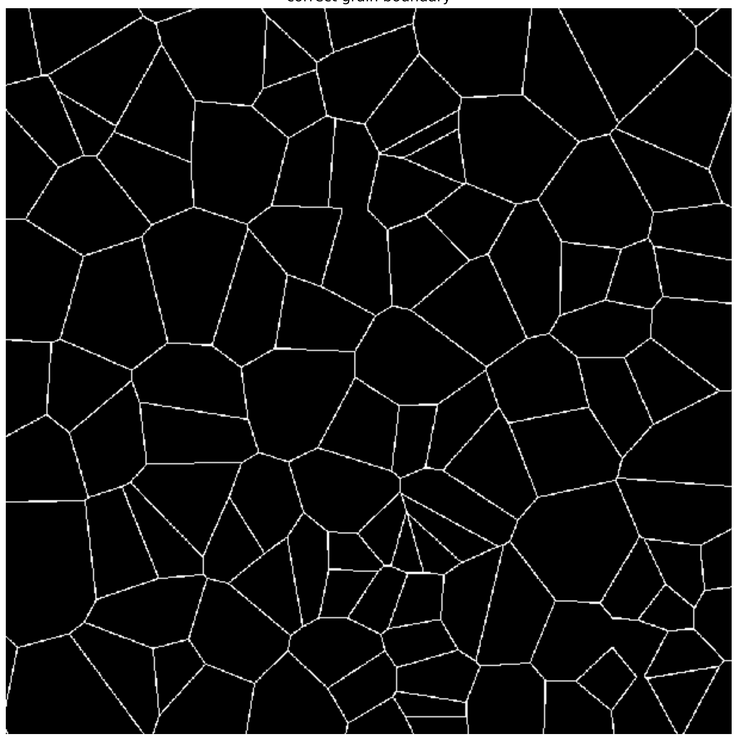
original



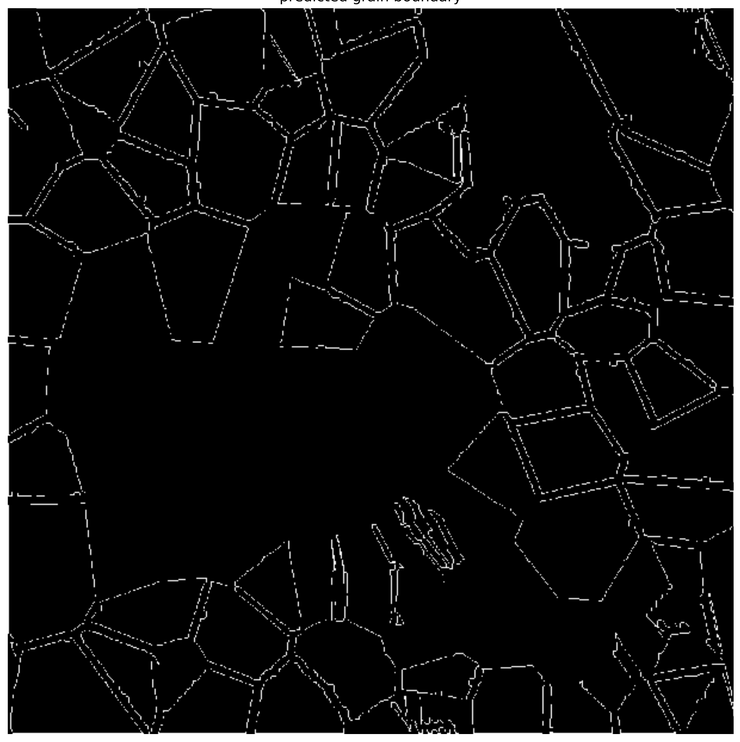
metrics

metric	correct	predicted	error
dark frac	0.350	0.343	0.723%
white frac	0.560	0.520	4.044%
line frac	0.090	0.065	2.513%
ave grain diameter	100.462	91.958	8.464%

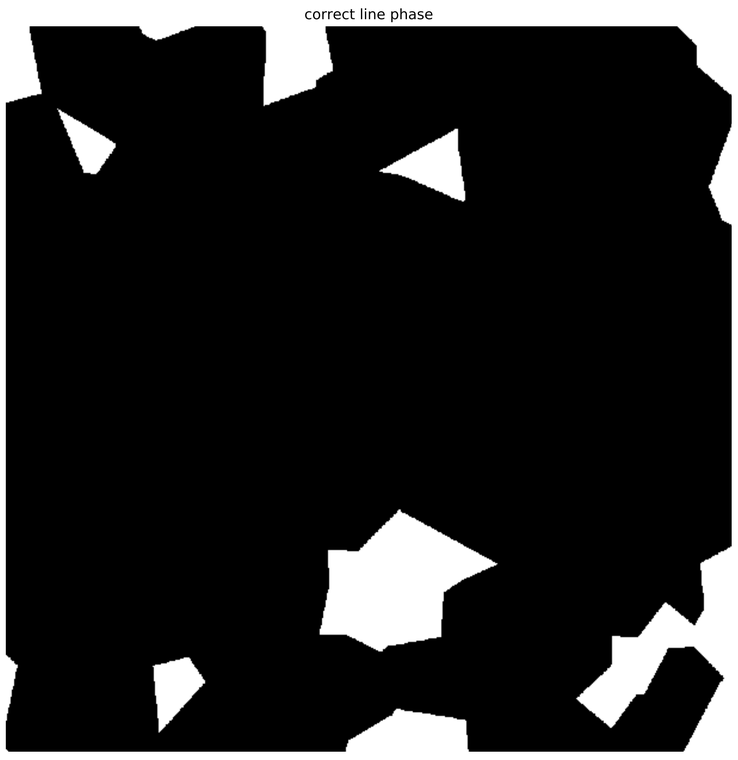
correct grain boundary



predicted grain boundary

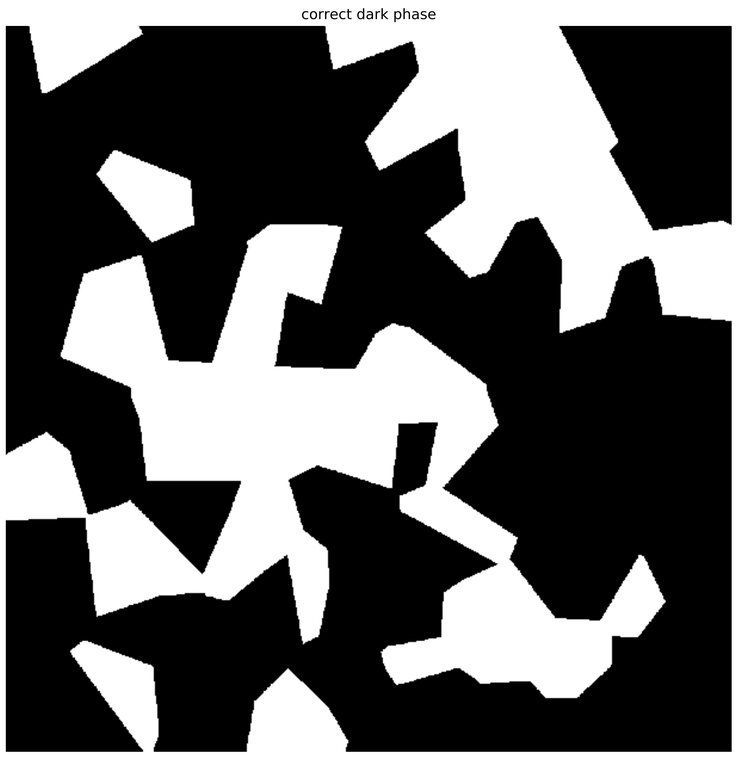


correct line phase

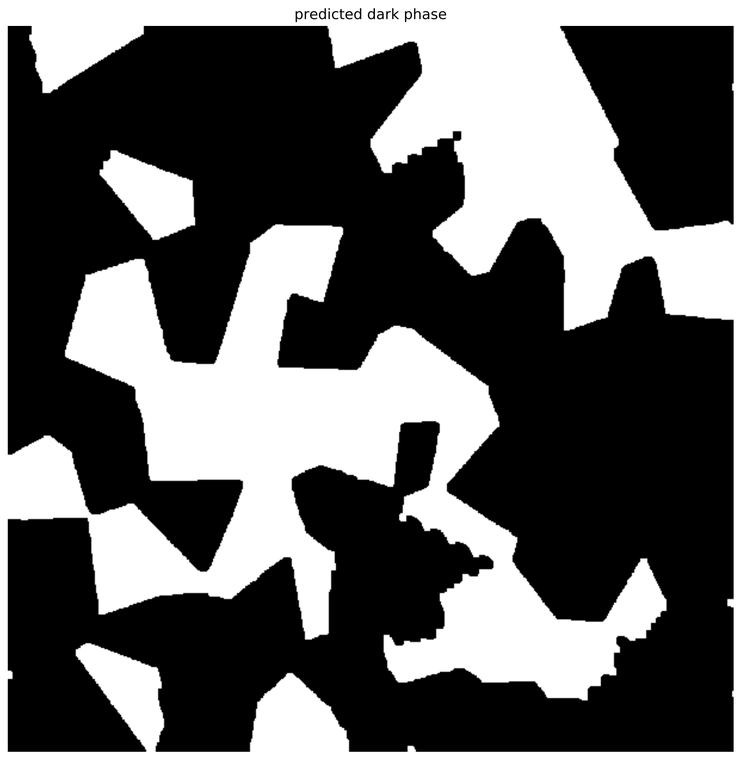


predicted line phase

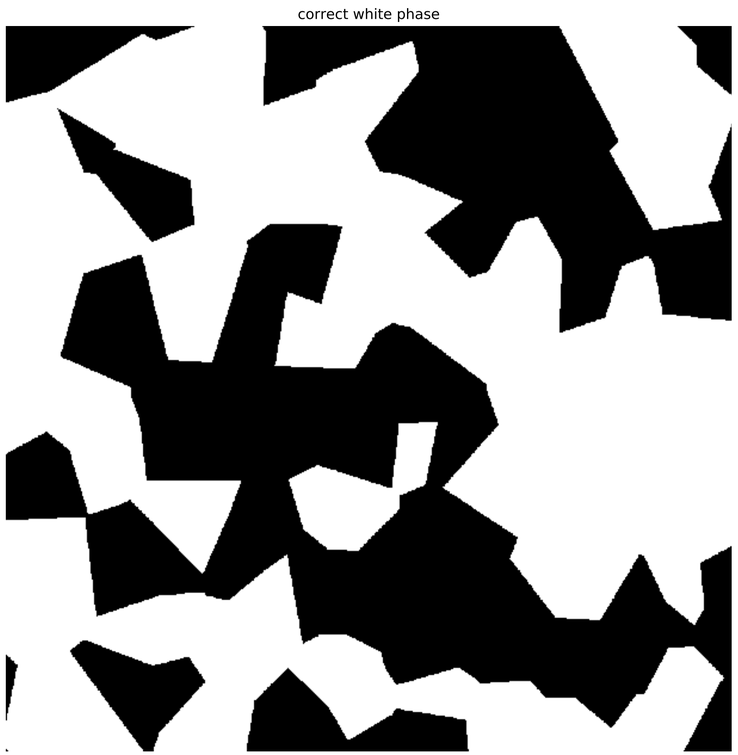
correct dark phase



predicted dark phase



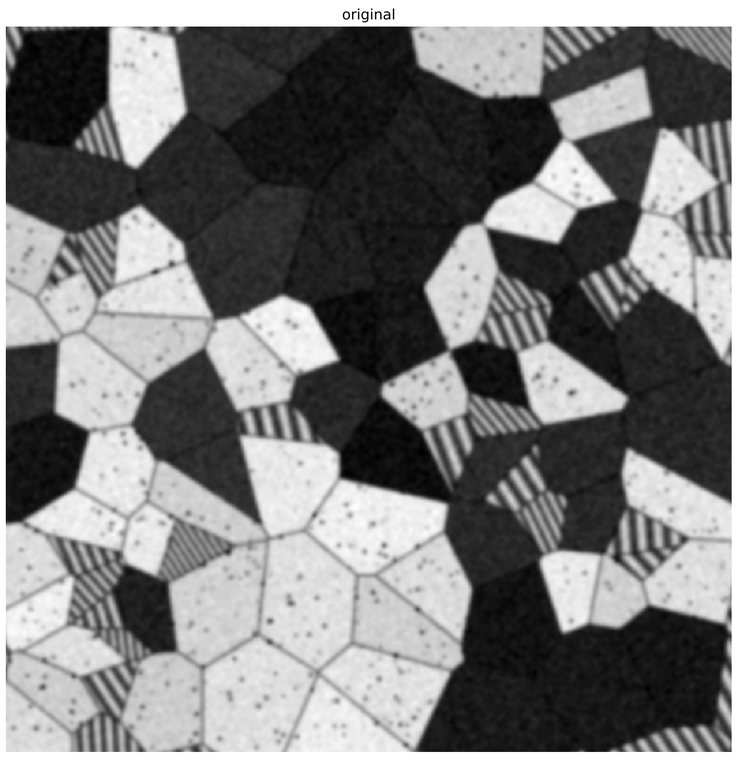
correct white phase



predicted white phase

data/base microstructure/image_88.png

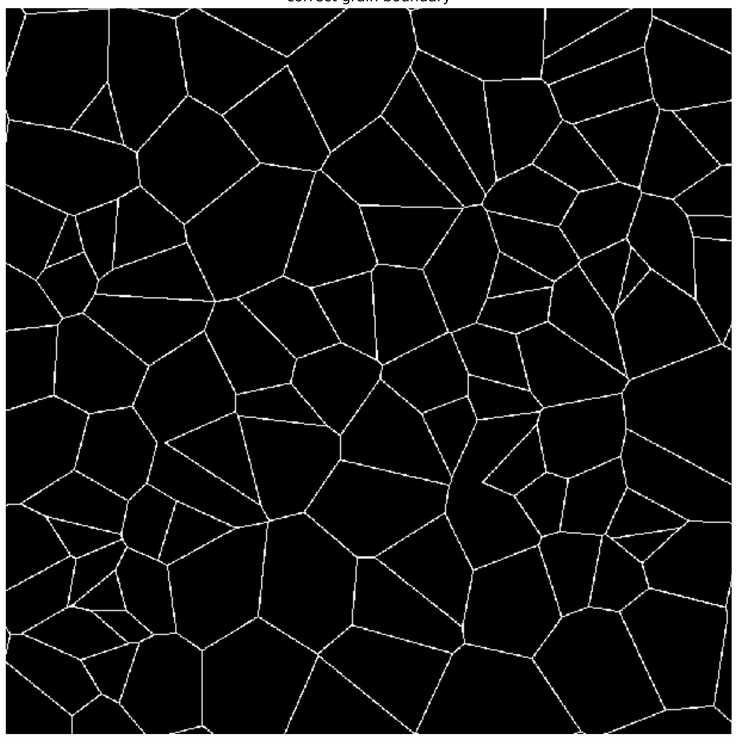
original



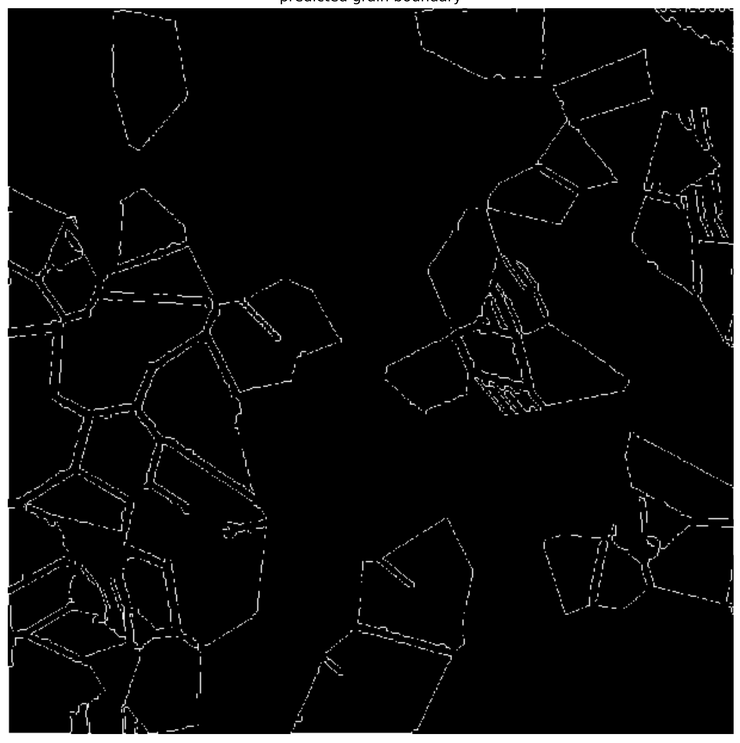
metrics

metric	correct	predicted	error
dark frac	0.476	0.471	0.501%
white frac	0.423	0.391	3.247%
line frac	0.101	0.063	3.802%
ave grain diameter	101.278	93.083	8.092%

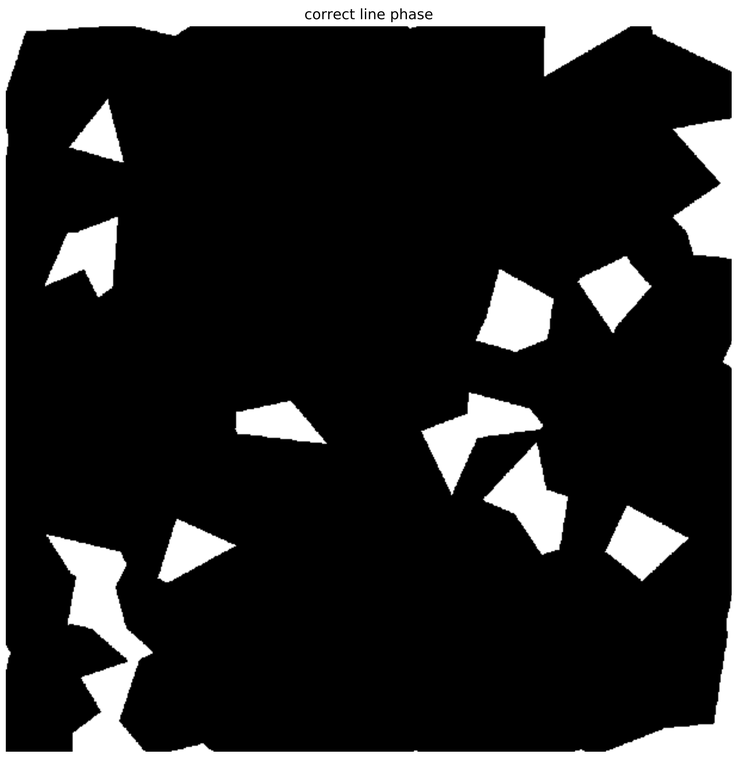
correct grain boundary



predicted grain boundary



correct line phase



predicted line phase

correct dark phase

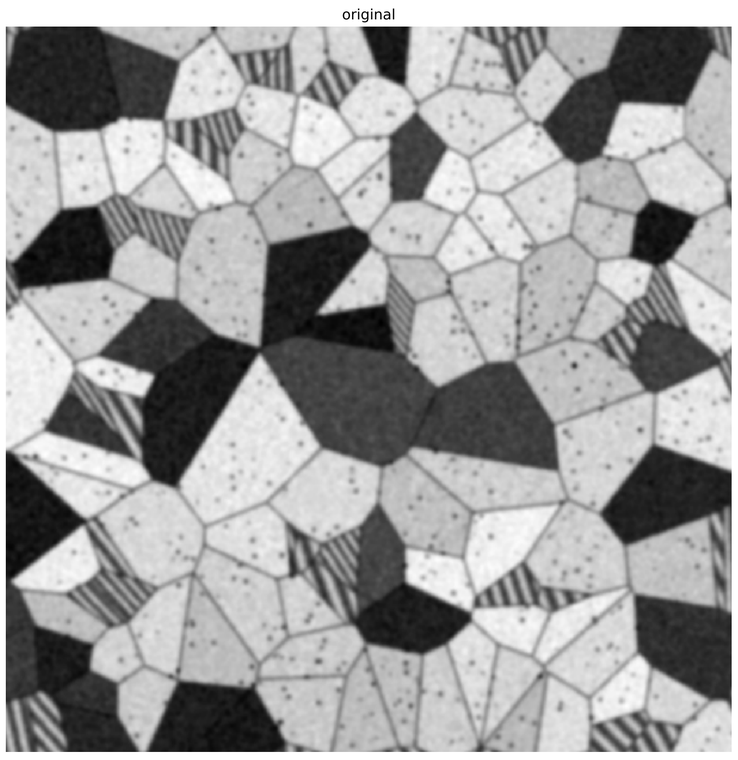
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_89.png

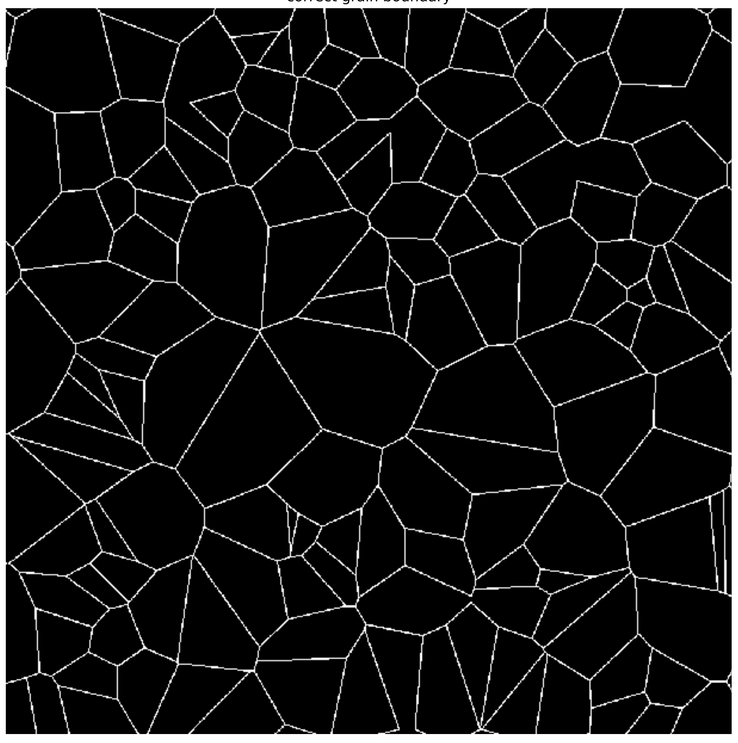
original



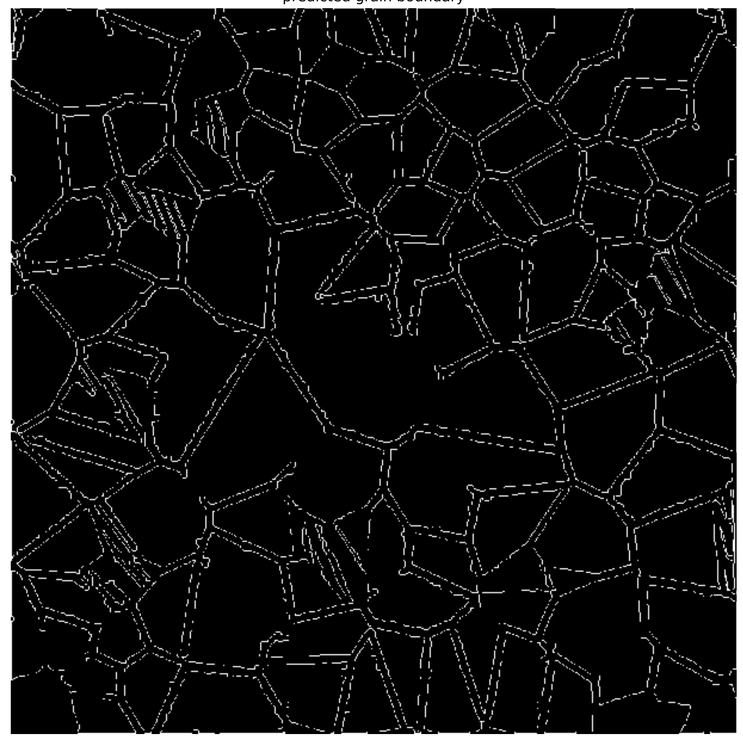
metrics

metric	correct	predicted	error
dark frac	0.268	0.261	0.700%
white frac	0.654	0.610	4.470%
line frac	0.078	0.049	2.936%
ave grain diameter	89.331	92.720	3.794%

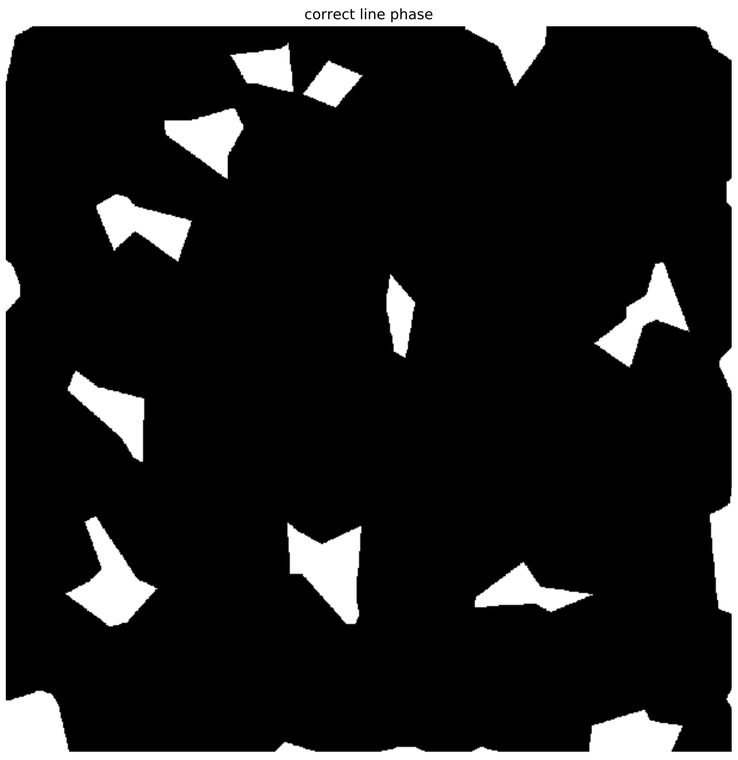
correct grain boundary



predicted grain boundary

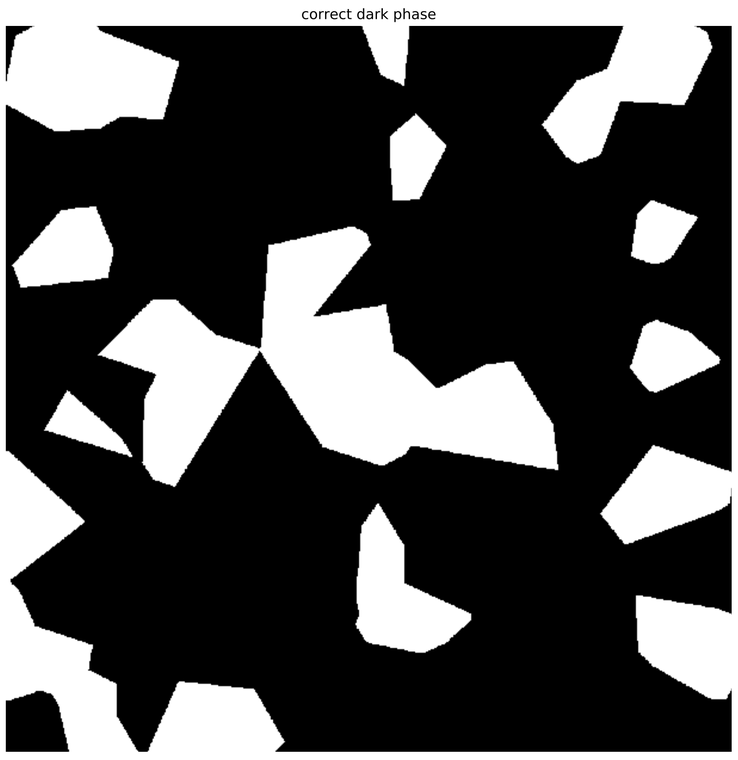


correct line phase

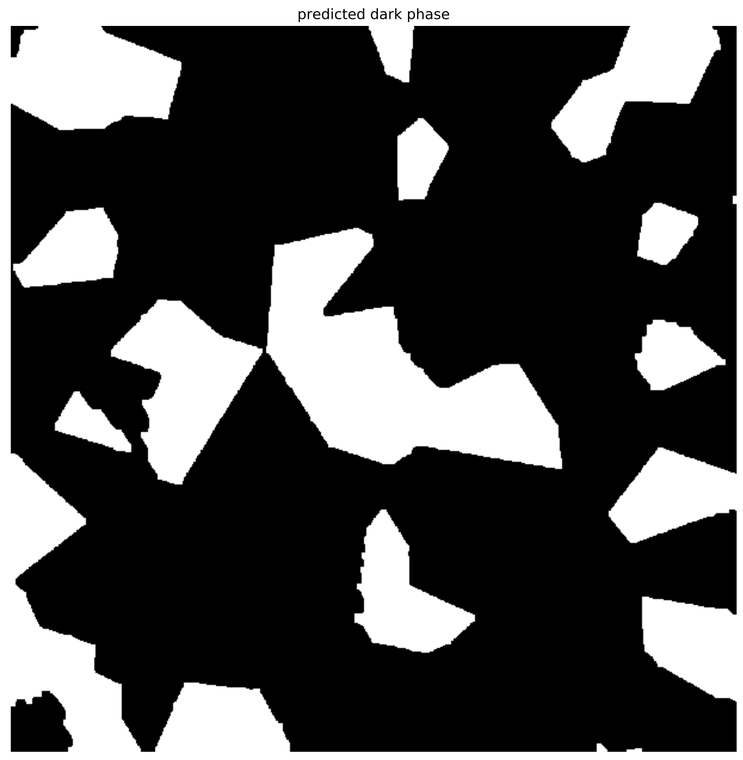


predicted line phase

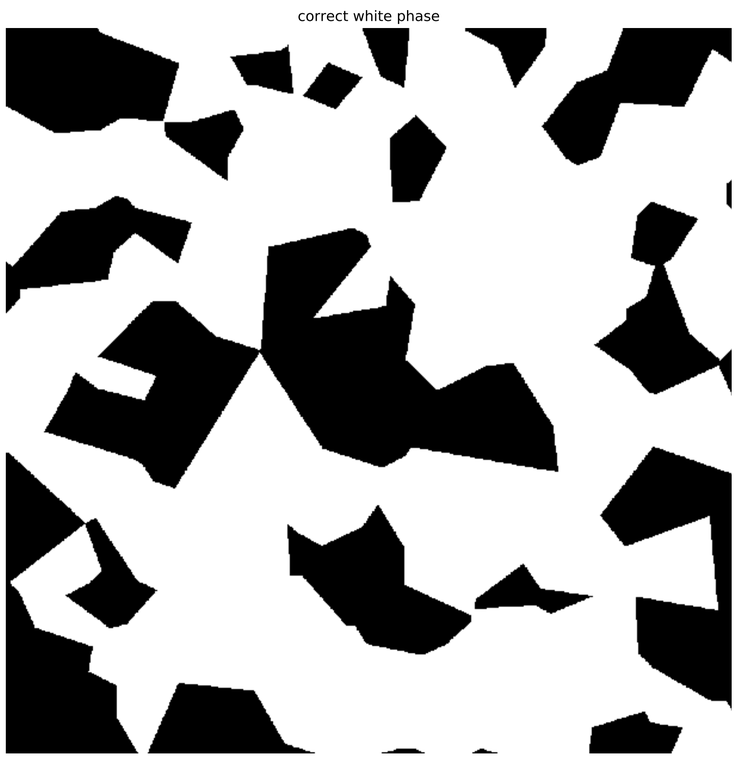
correct dark phase



predicted dark phase



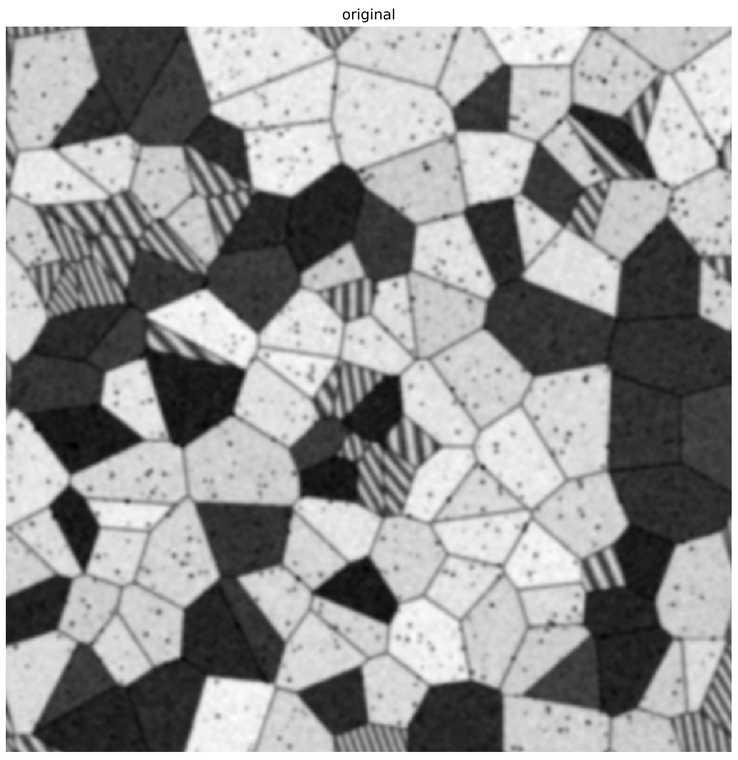
correct white phase



predicted white phase

data/base microstructure/image_9.png

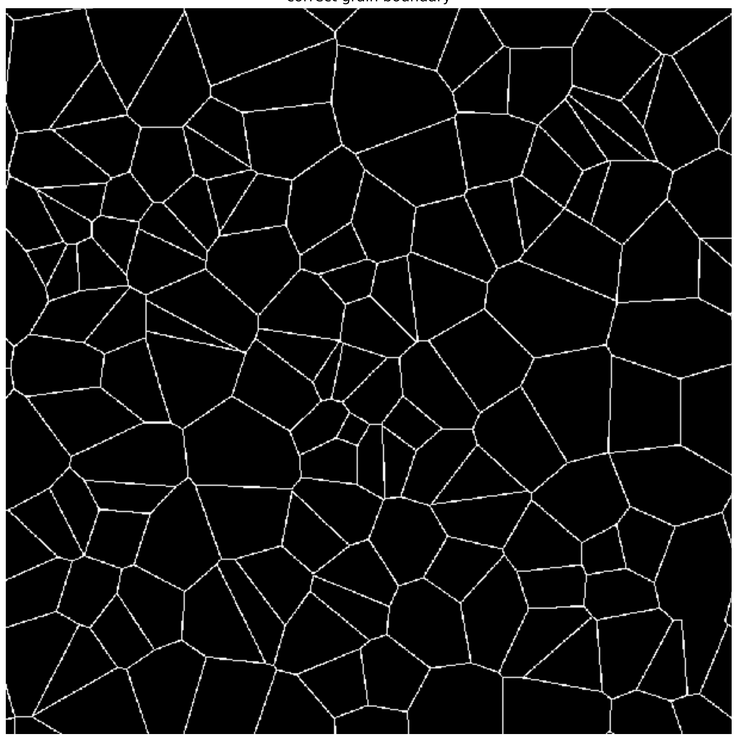
original



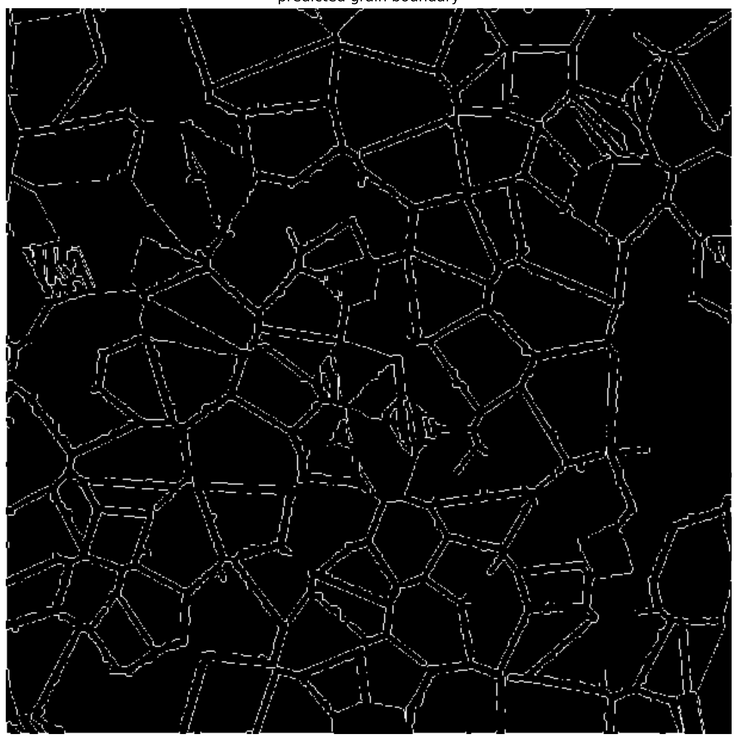
metrics

metric	correct	predicted	error
dark frac	0.322	0.315	0.691%
white frac	0.600	0.549	5.101%
line frac	0.079	0.050	2.844%
ave grain diameter	89.293	84.405	5.474%

correct grain boundary



predicted grain boundary



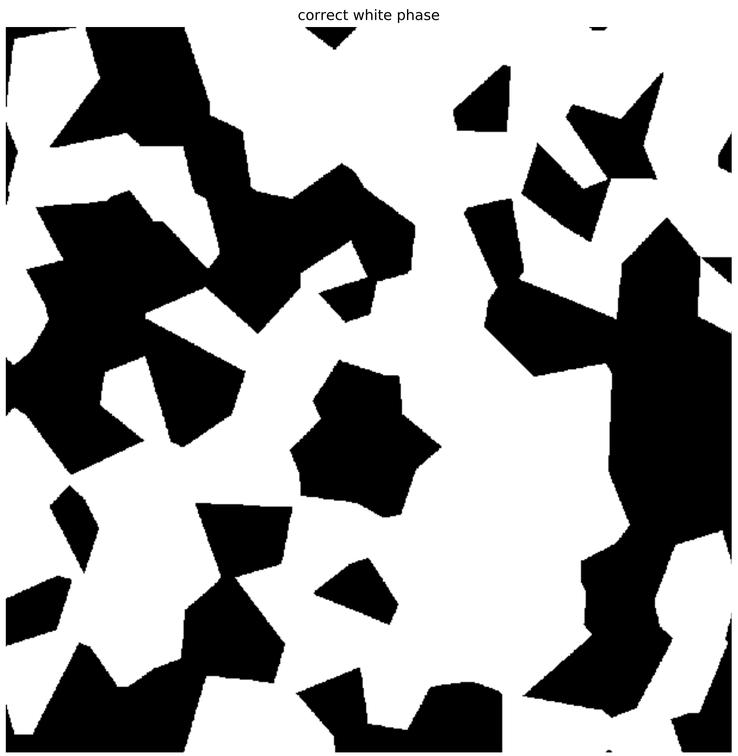
correct line phase

predicted line phase

correct dark phase

predicted dark phase

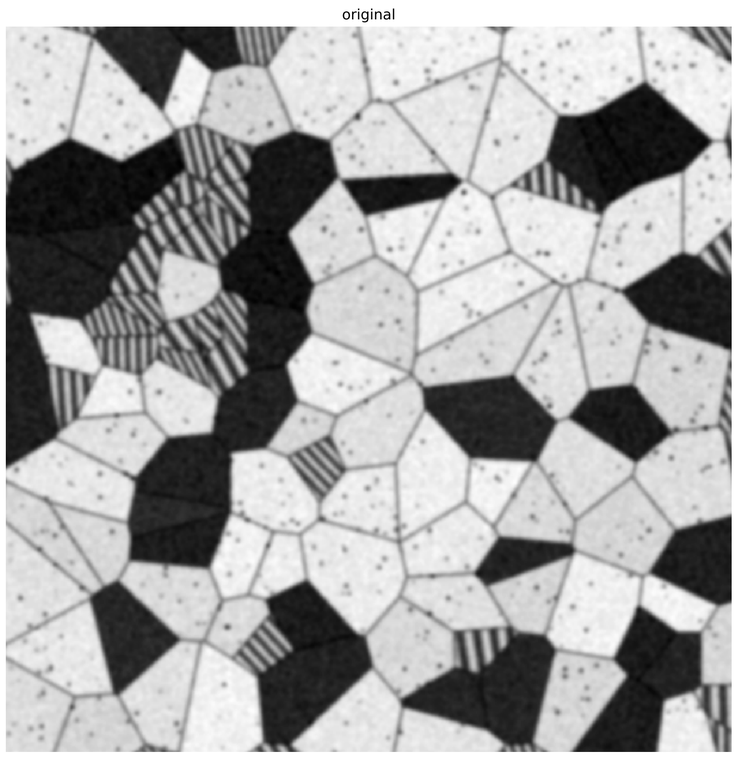
correct white phase



predicted white phase

data/base microstructure/image_90.png

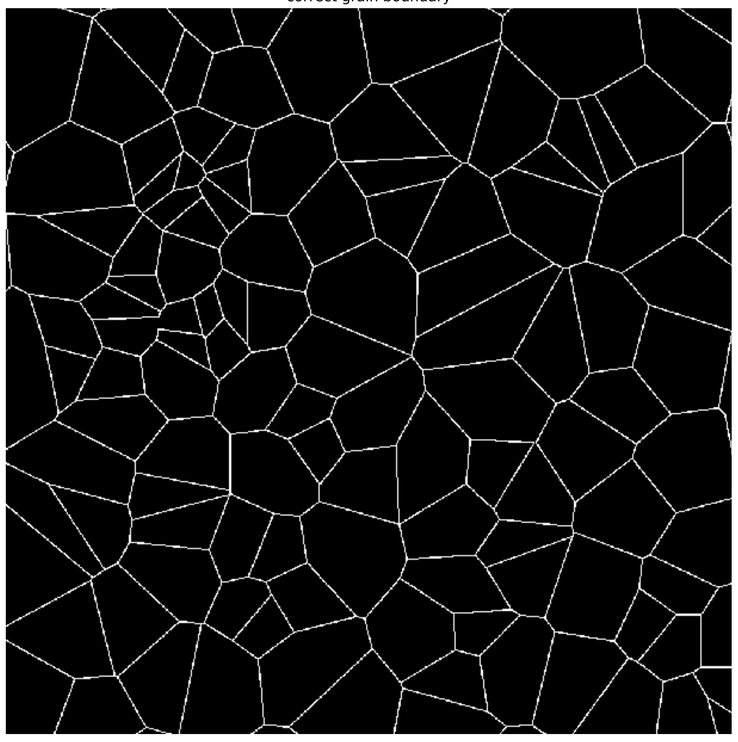
original



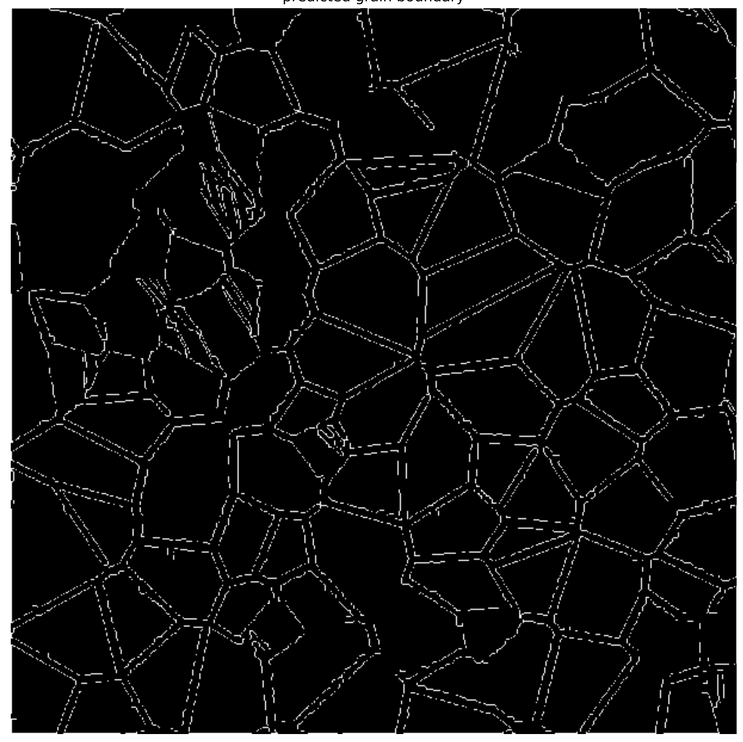
metrics

metric	correct	predicted	error
dark frac	0.265	0.258	0.726%
white frac	0.656	0.618	3.787%
line frac	0.079	0.054	2.520%
ave grain diameter	97.469	90.505	7.145%

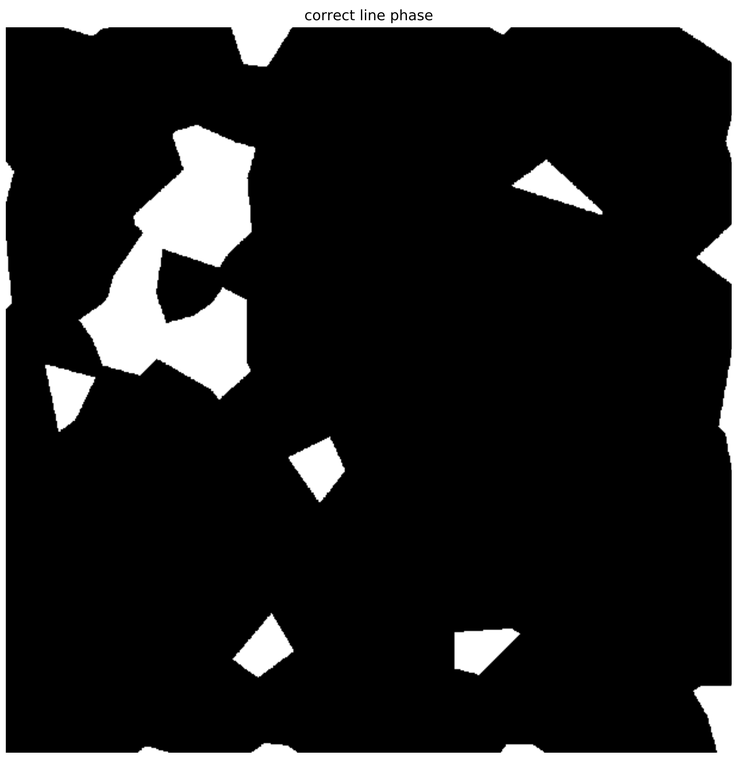
correct grain boundary



predicted grain boundary

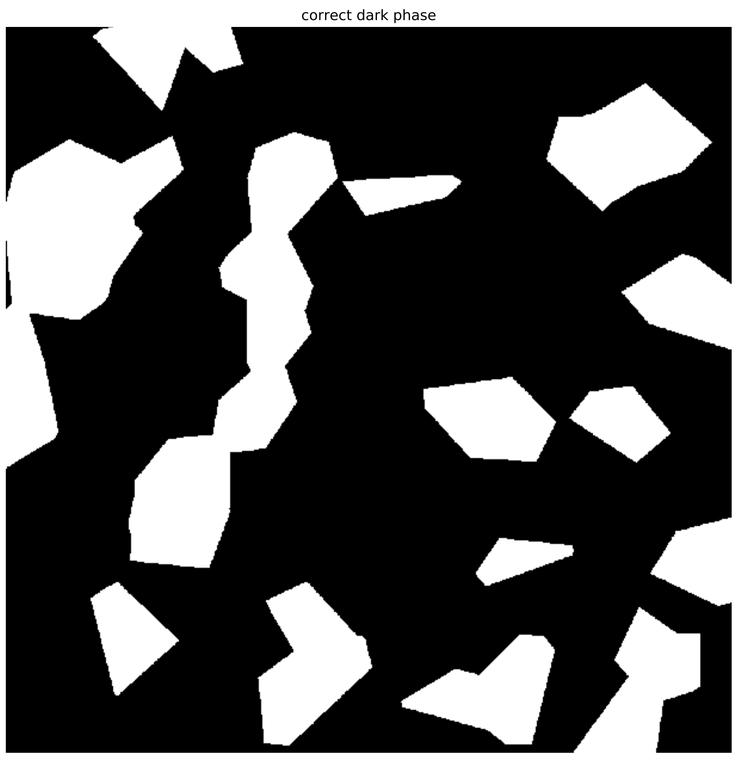


correct line phase



predicted line phase

correct dark phase



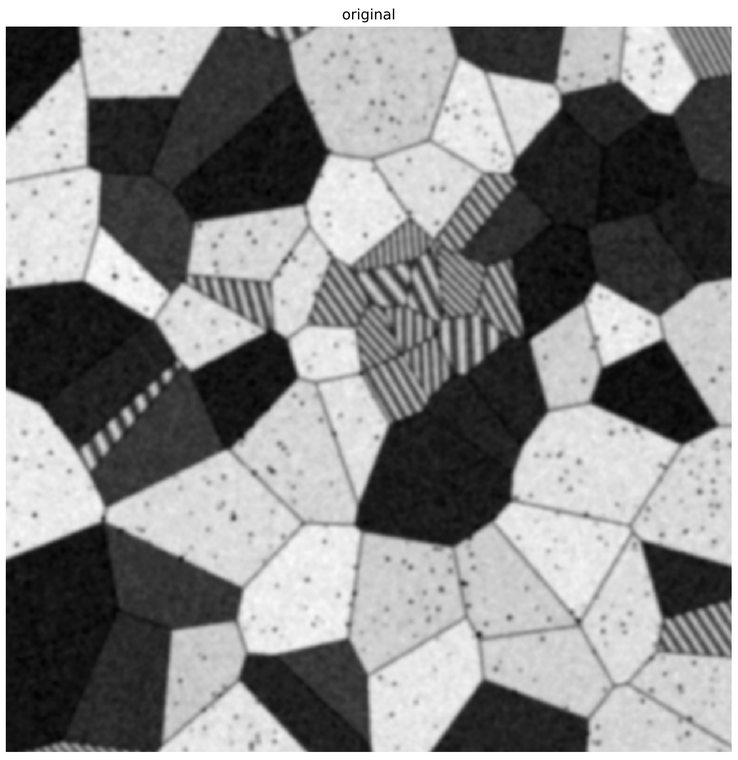
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_91.png

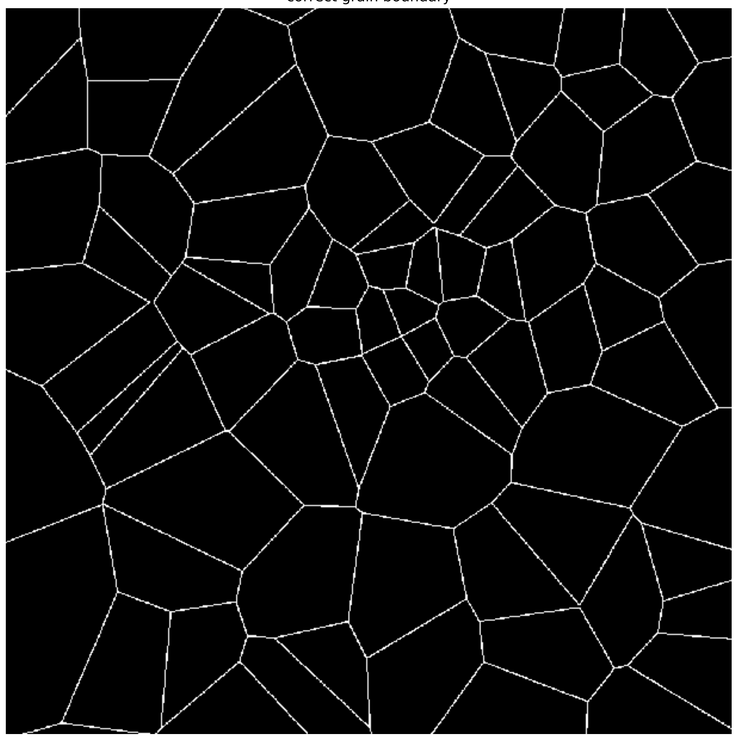
original



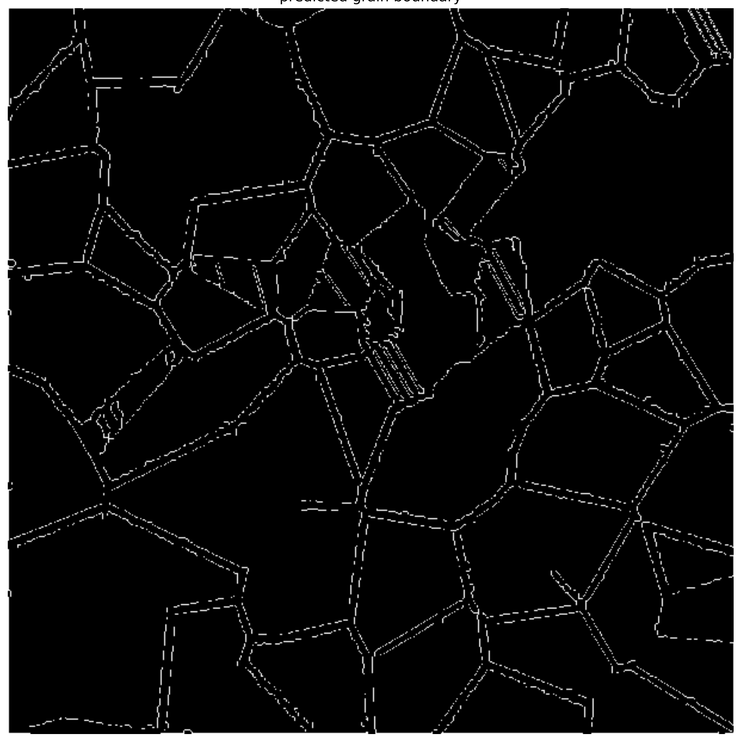
metrics

metric	correct	predicted	error
dark frac	0.410	0.402	0.804%
white frac	0.515	0.484	3.102%
line frac	0.075	0.057	1.806%
ave grain diameter	118.911	124.611	4.793%

correct grain boundary



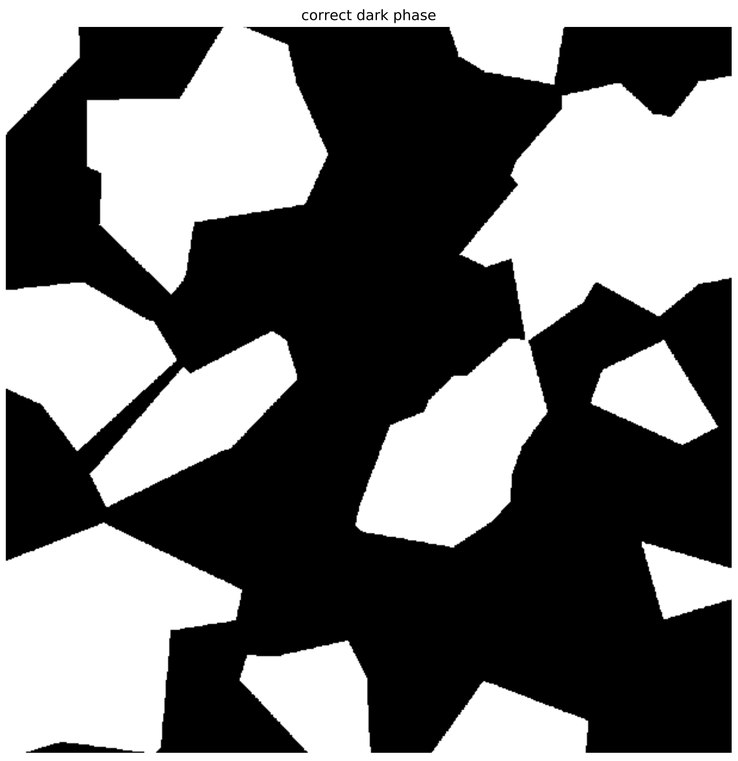
predicted grain boundary



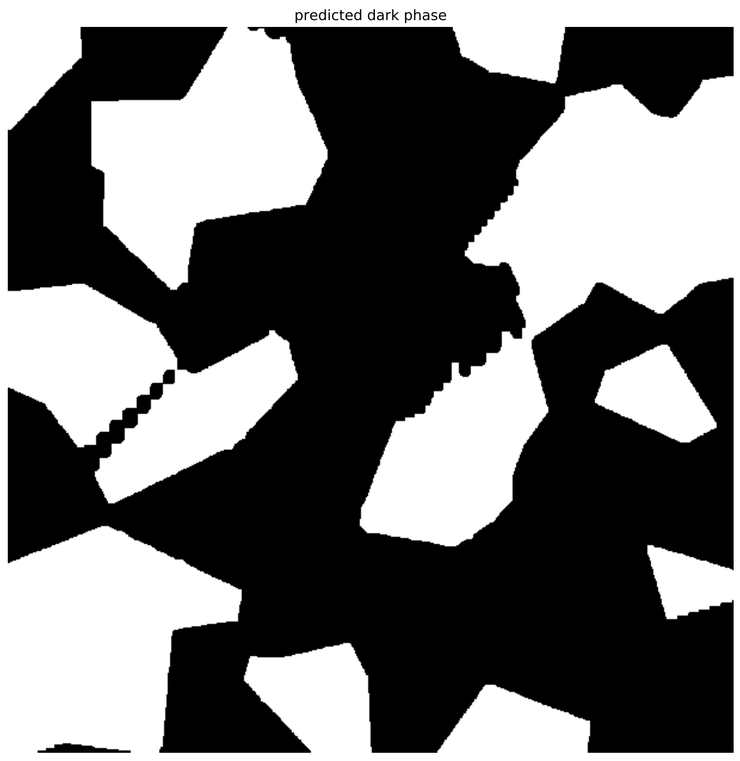
correct line phase

predicted line phase

correct dark phase



predicted dark phase

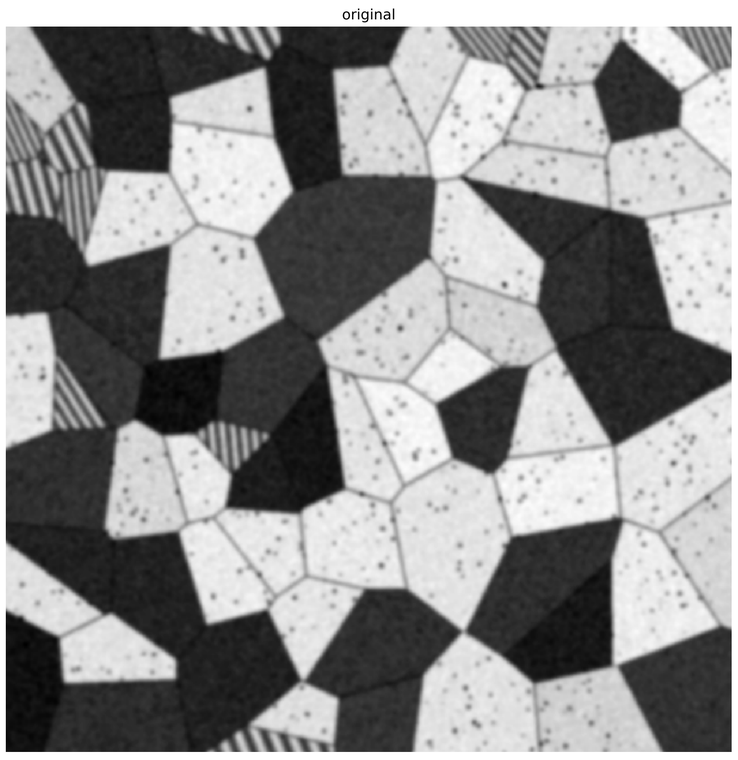


correct white phase

predicted white phase

data/base microstructure/image_92.png

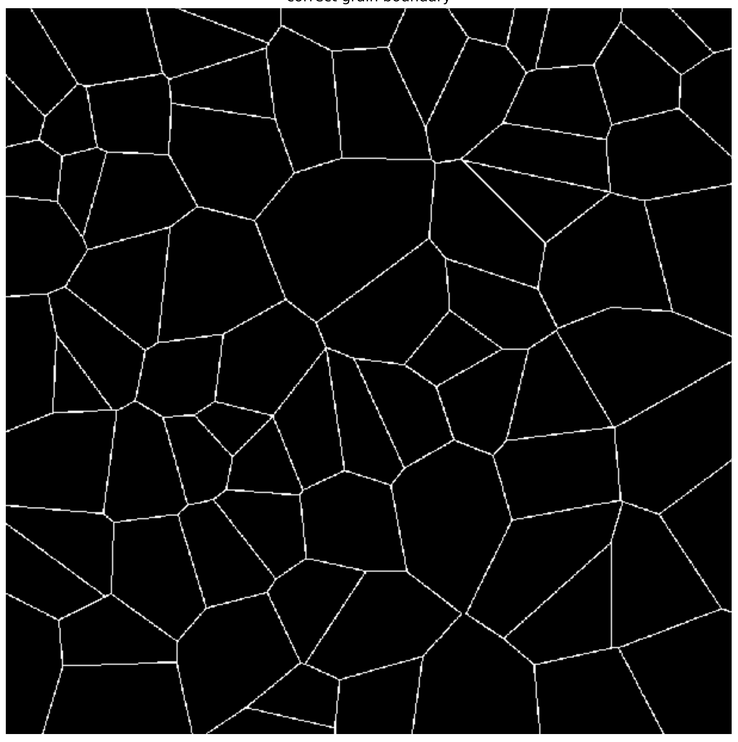
original



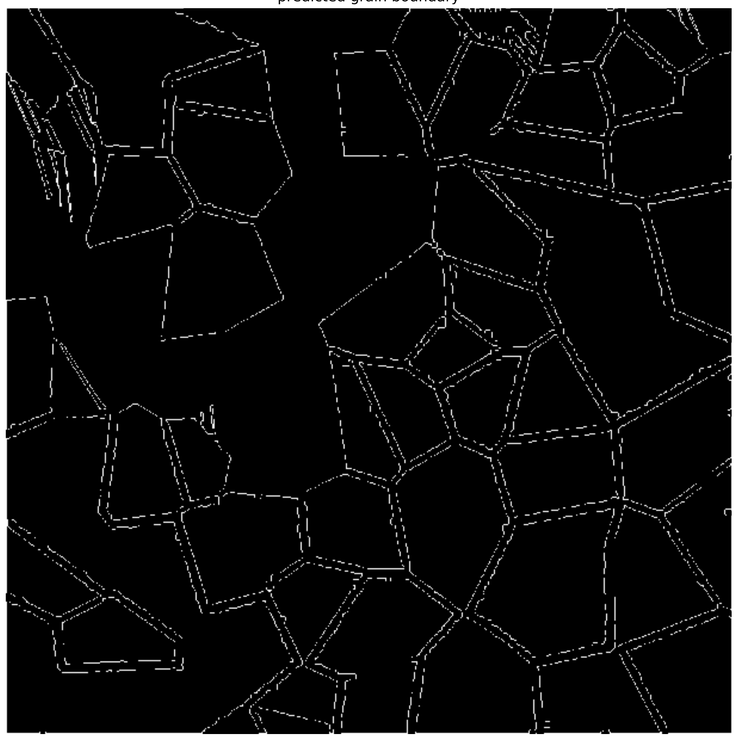
metrics

metric	correct	predicted	error
dark frac	0.433	0.422	1.117%
white frac	0.522	0.484	3.815%
line frac	0.045	0.034	1.165%
ave grain diameter	122.171	116.166	4.915%

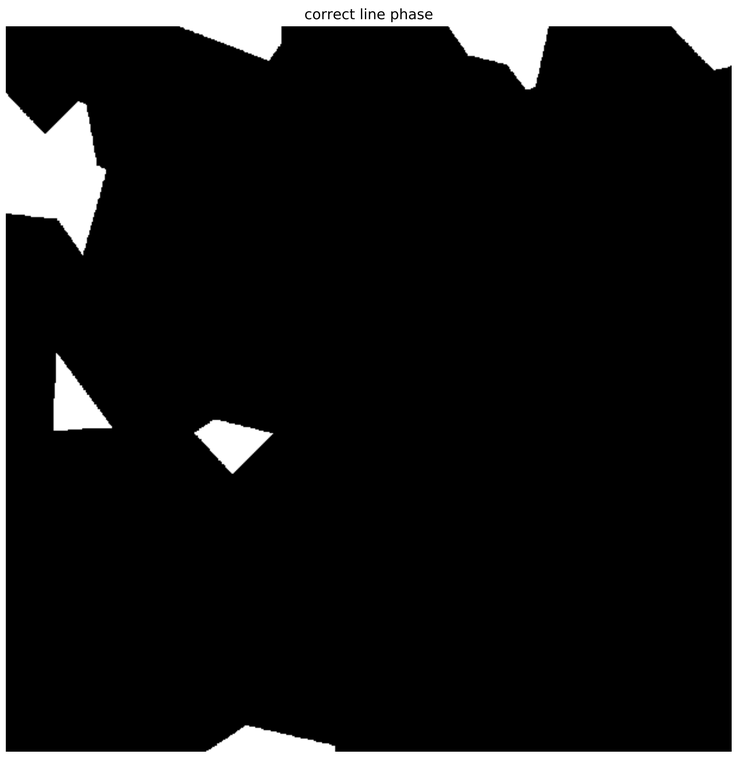
correct grain boundary



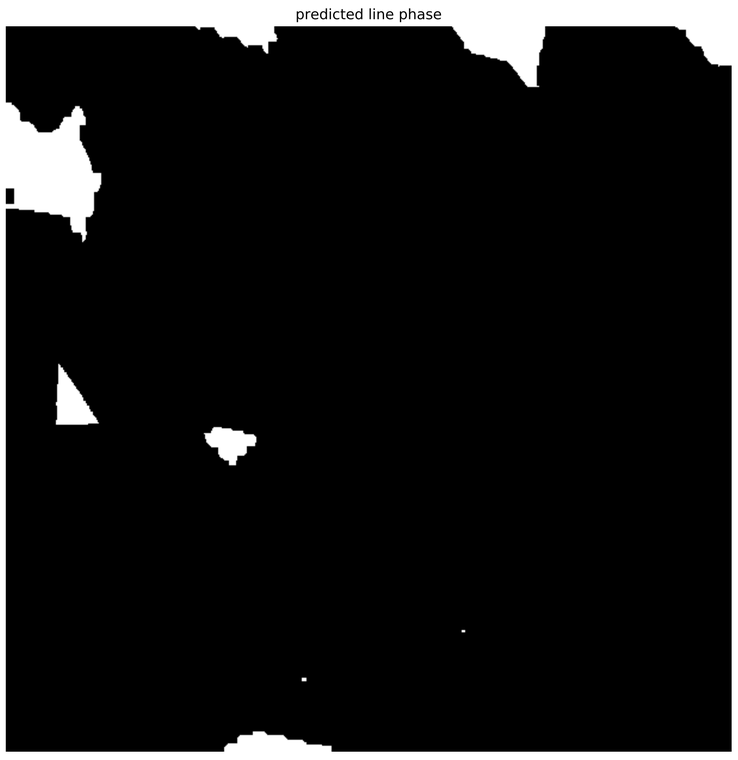
predicted grain boundary



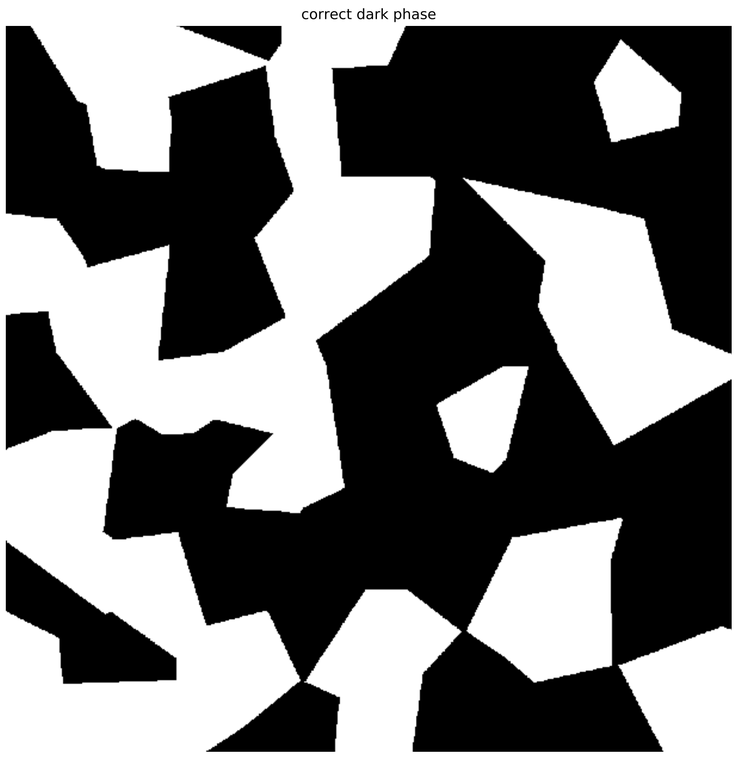
correct line phase



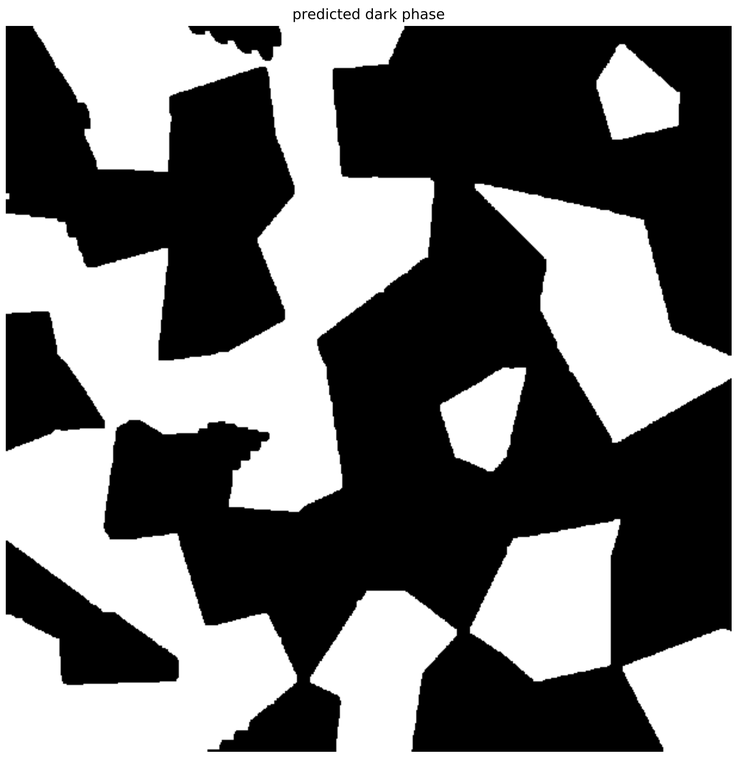
predicted line phase



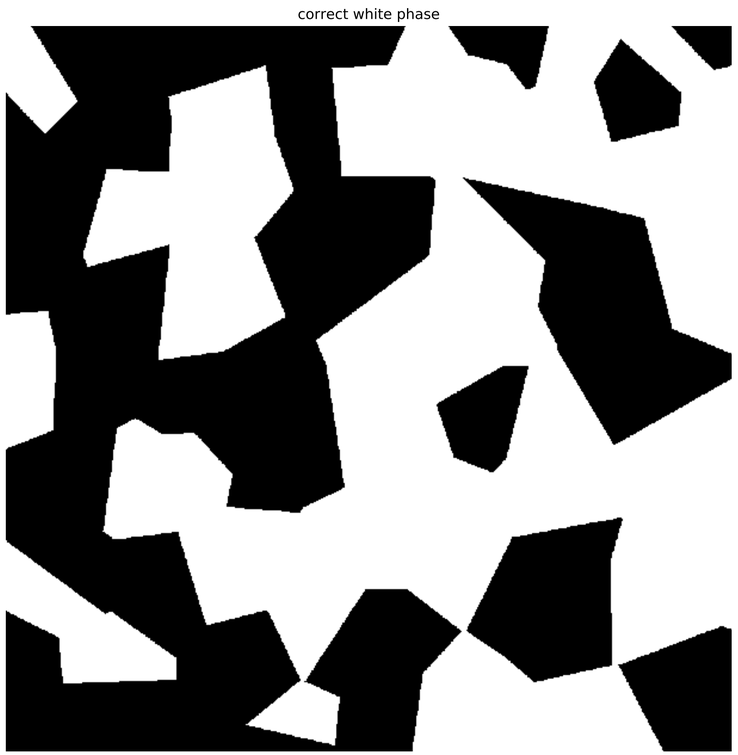
correct dark phase



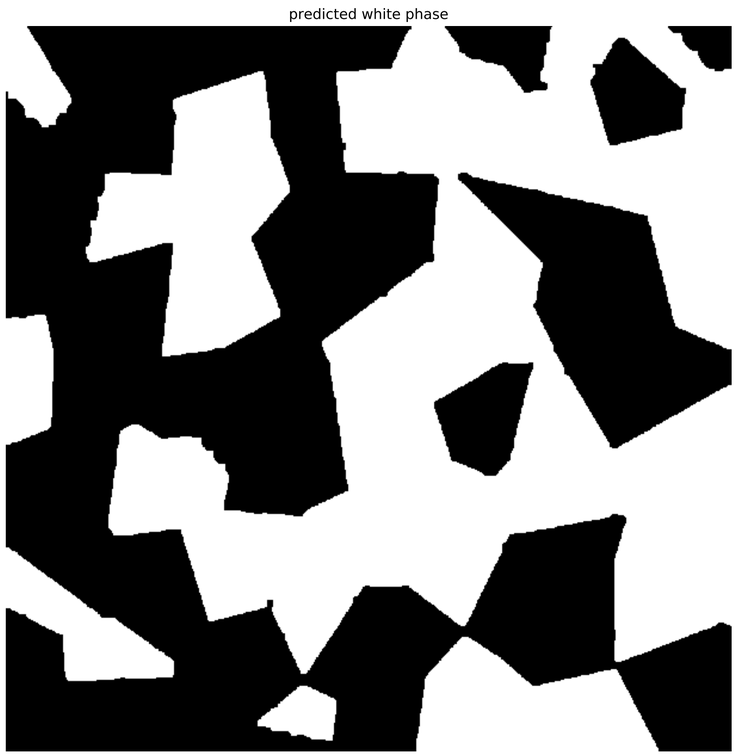
predicted dark phase



correct white phase

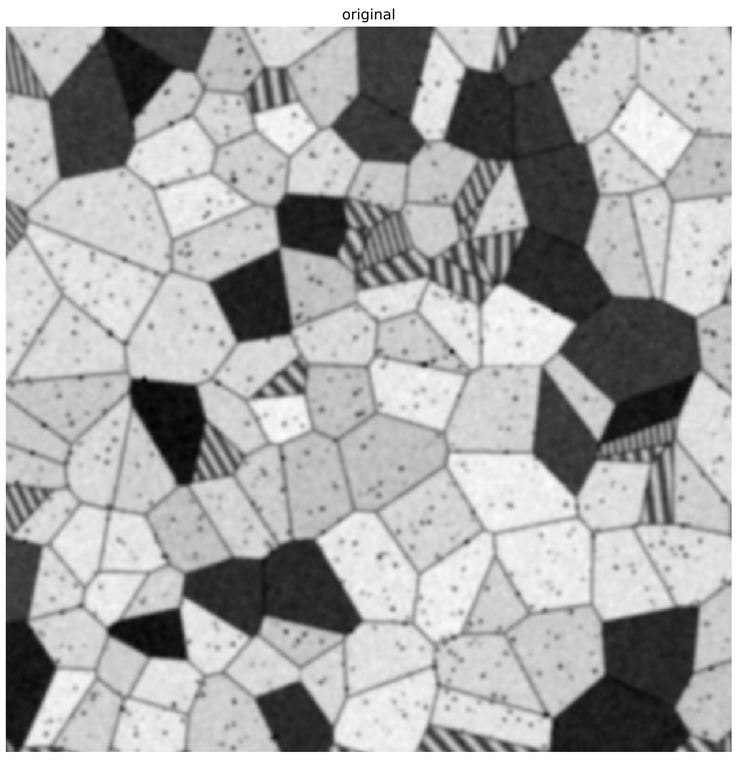


predicted white phase



data/base microstructure/image_93.png

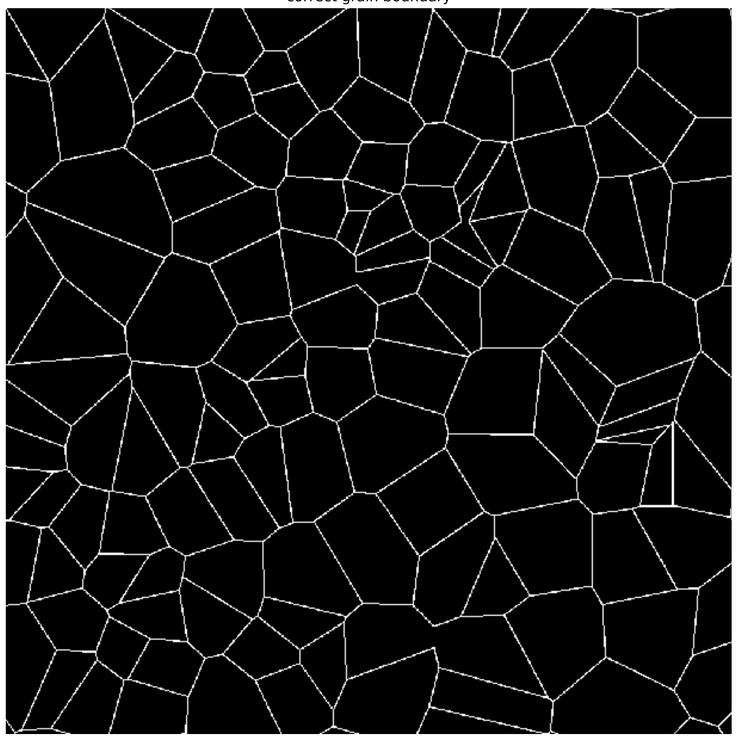
original



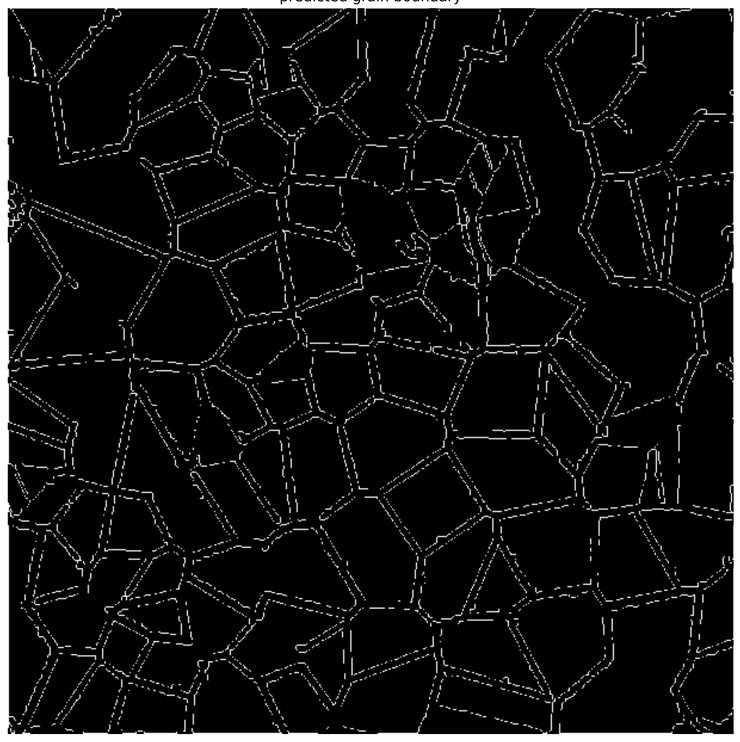
metrics

metric	correct	predicted	error
dark frac	0.219	0.213	0.641%
white frac	0.728	0.689	3.851%
line frac	0.053	0.035	1.801%
ave grain diameter	93.517	87.920	5.985%

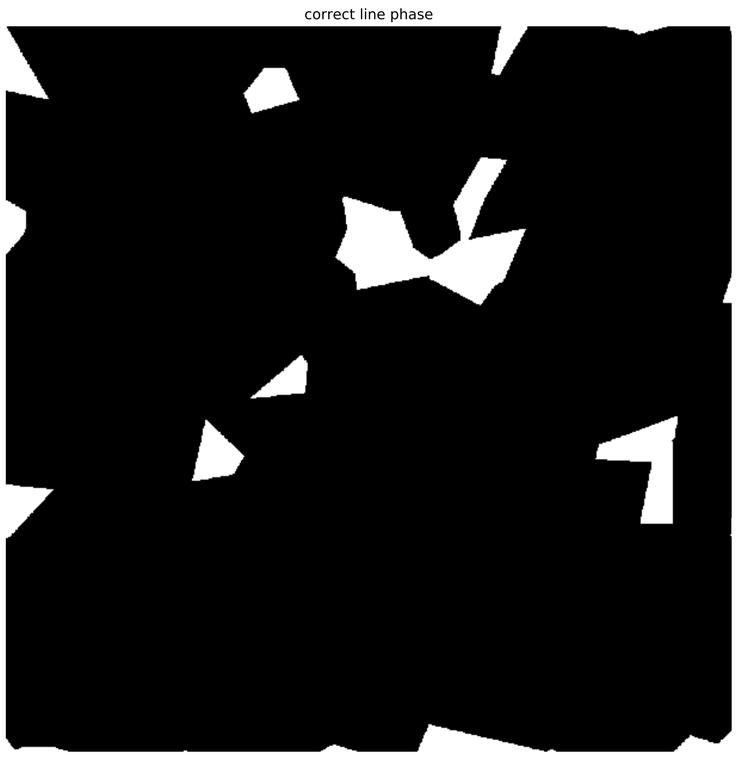
correct grain boundary



predicted grain boundary

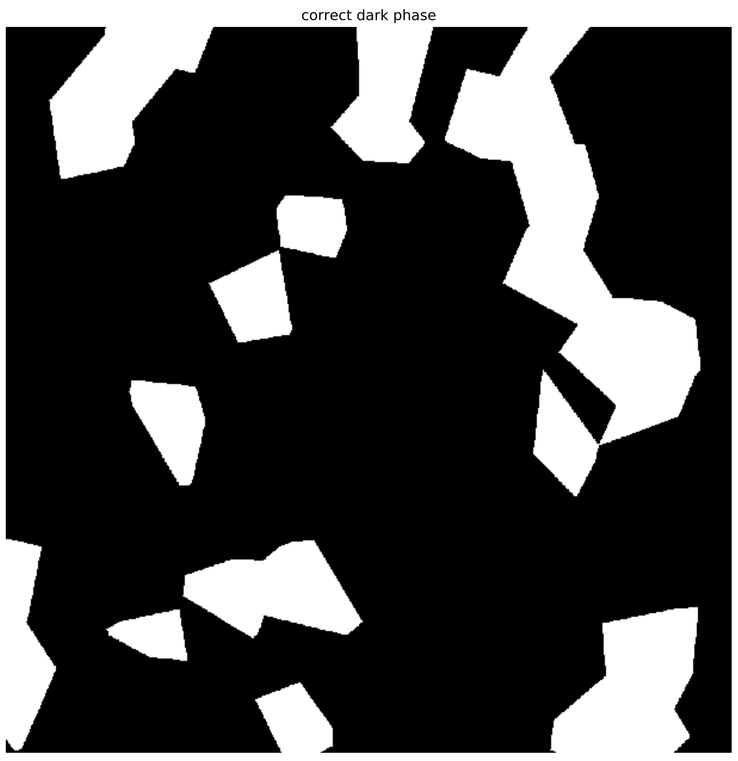


correct line phase



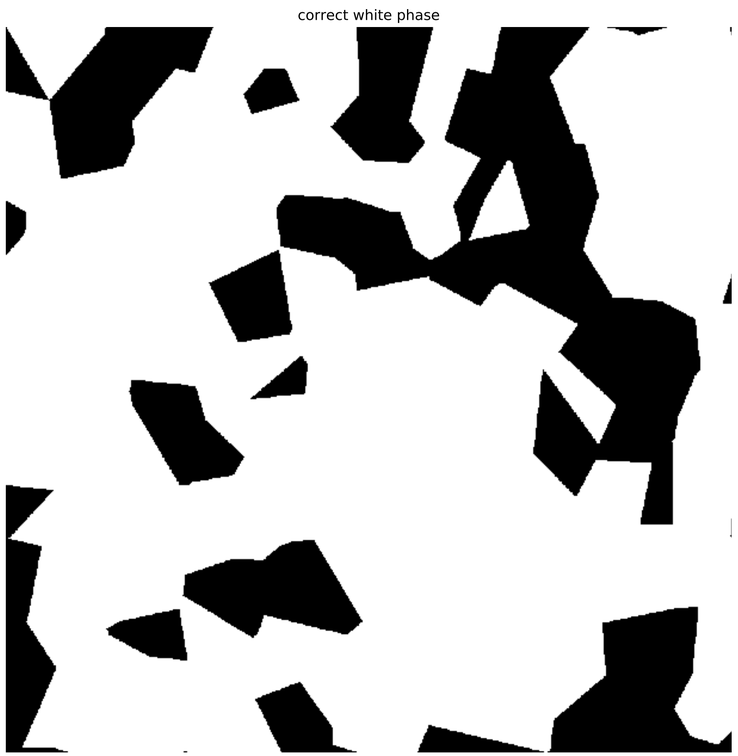
predicted line phase

correct dark phase



predicted dark phase

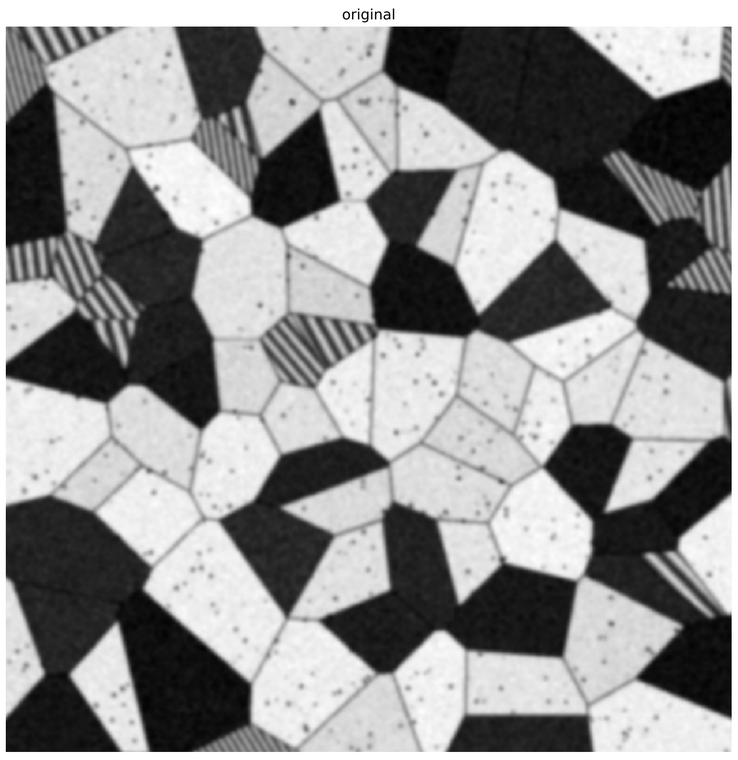
correct white phase



predicted white phase

data/base microstructure/image_94.png

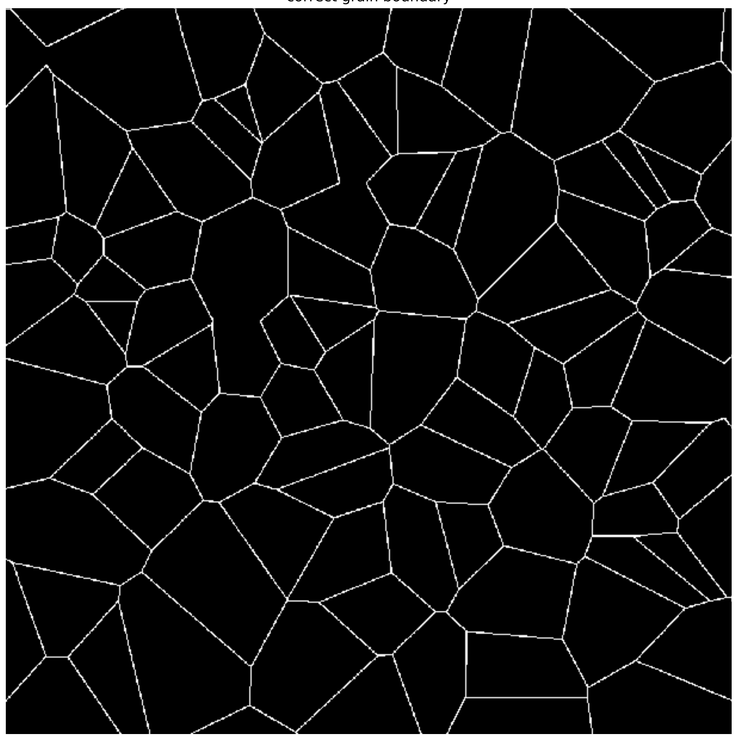
original



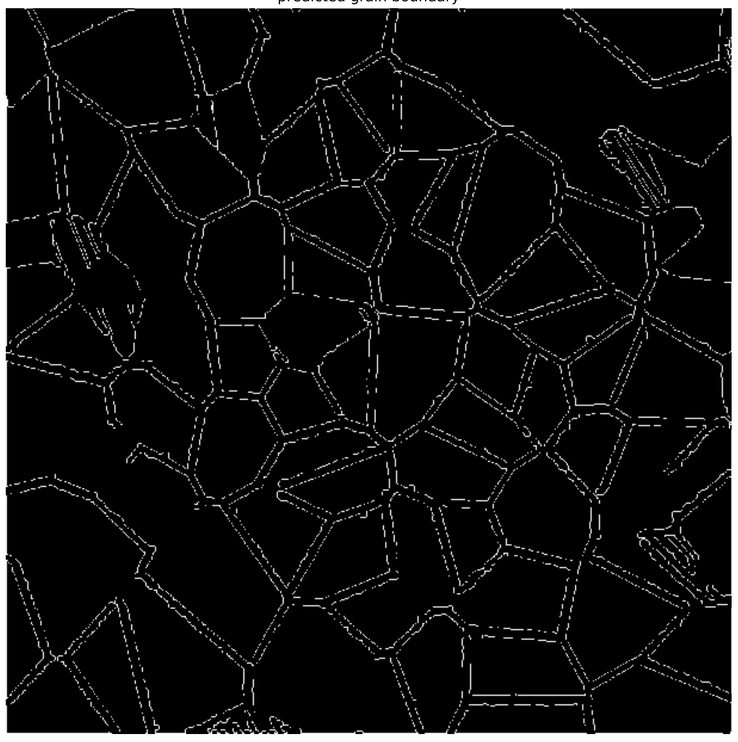
metrics

metric	correct	predicted	error
dark frac	0.385	0.372	1.320%
white frac	0.550	0.509	4.101%
line frac	0.065	0.043	2.167%
ave grain diameter	110.954	112.398	1.301%

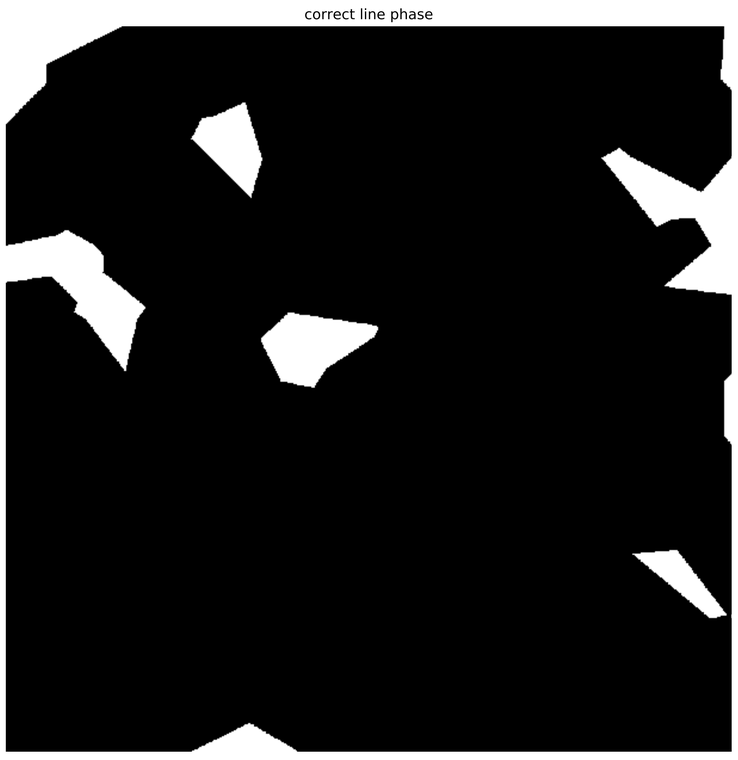
correct grain boundary



predicted grain boundary



correct line phase

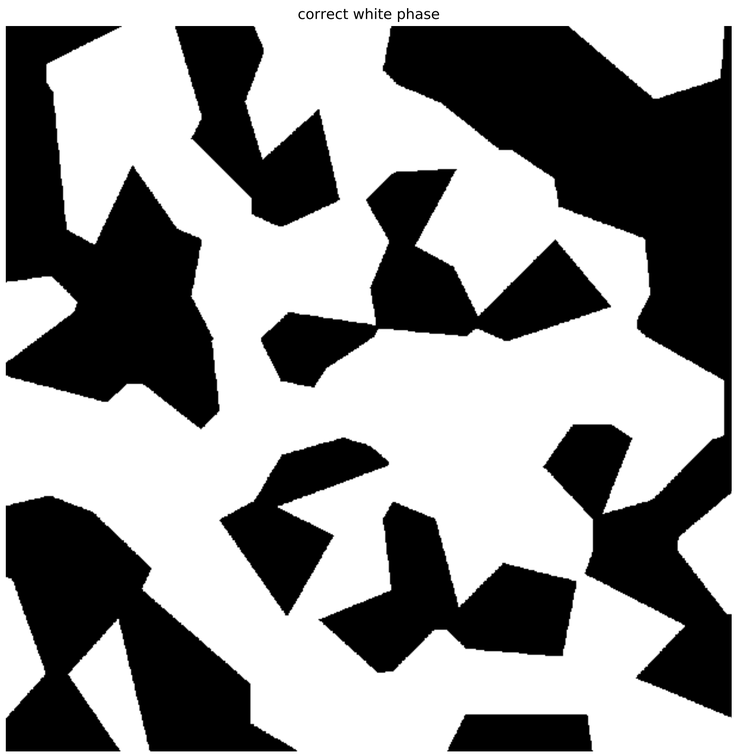


predicted line phase

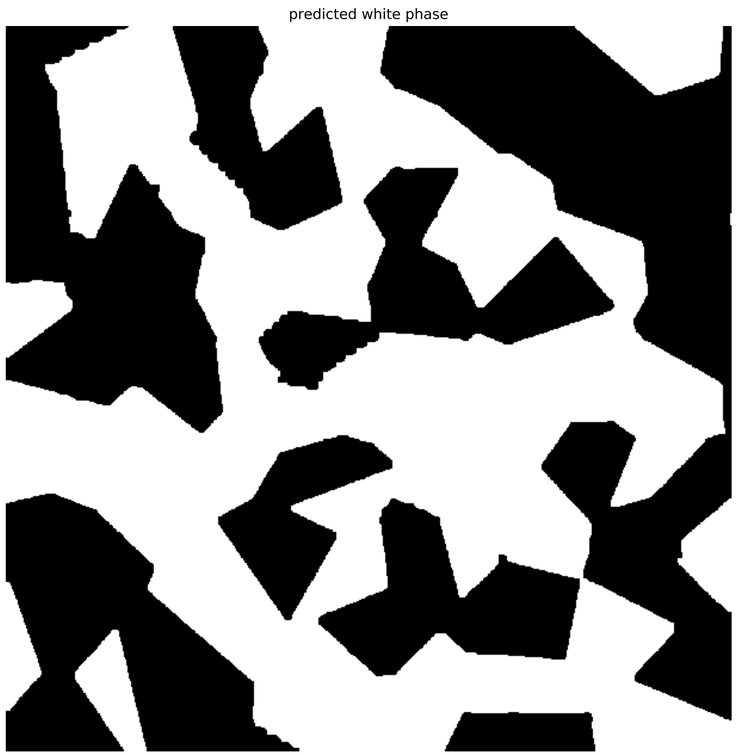
correct dark phase

predicted dark phase

correct white phase

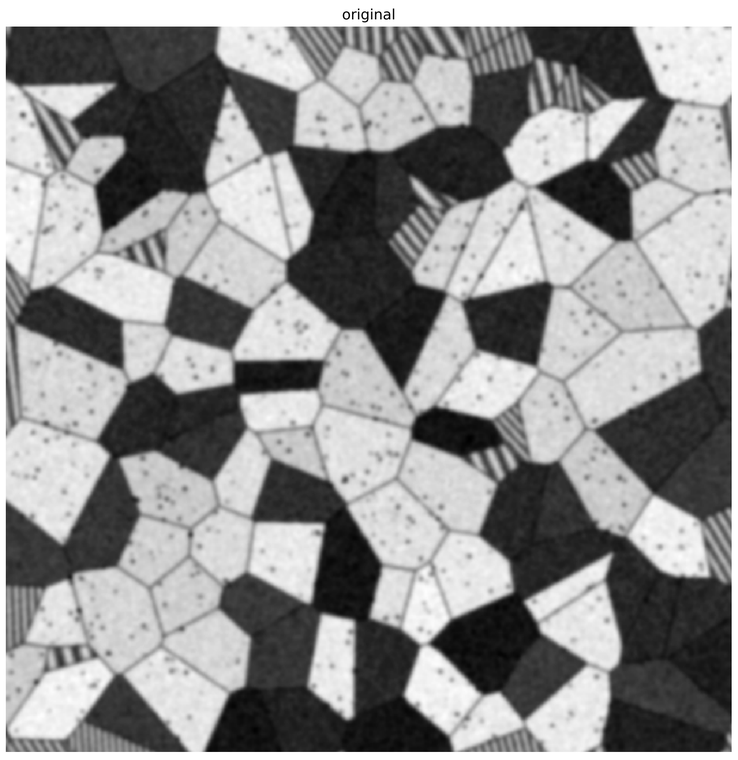


predicted white phase



data/base microstructure/image_95.png

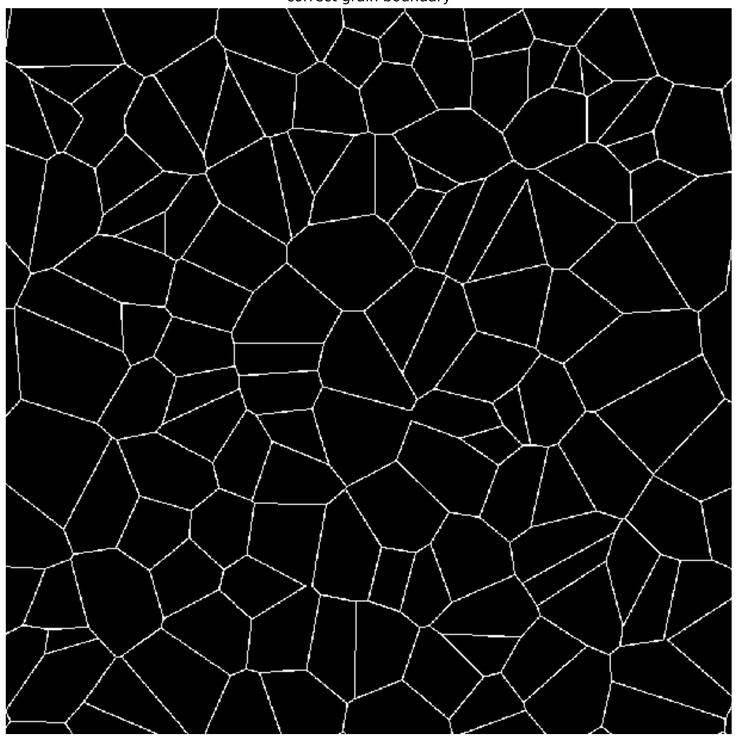
original



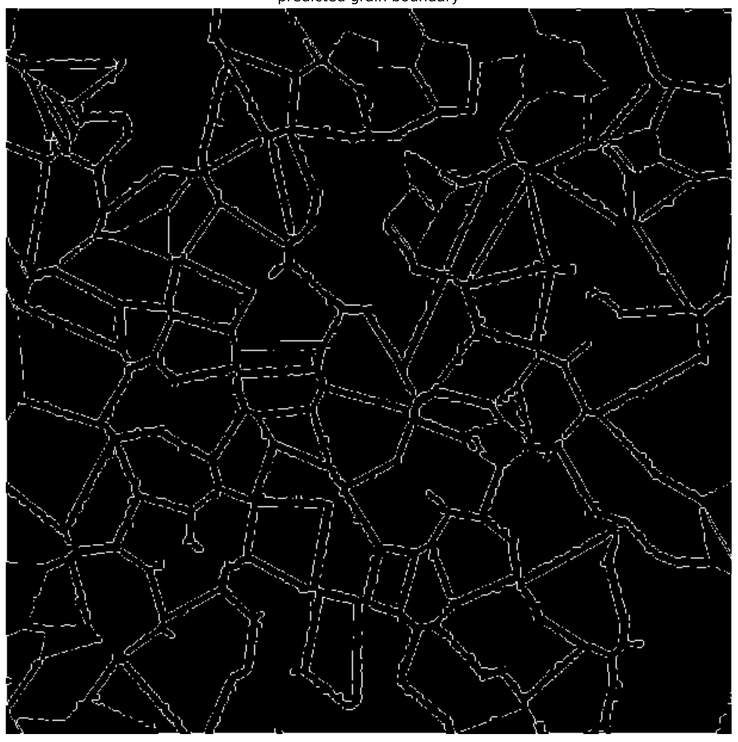
metrics

metric	correct	predicted	error
dark frac	0.387	0.374	1.338%
white frac	0.551	0.501	5.046%
line frac	0.062	0.038	2.391%
ave grain diameter	90.273	97.218	7.693%

correct grain boundary



predicted grain boundary

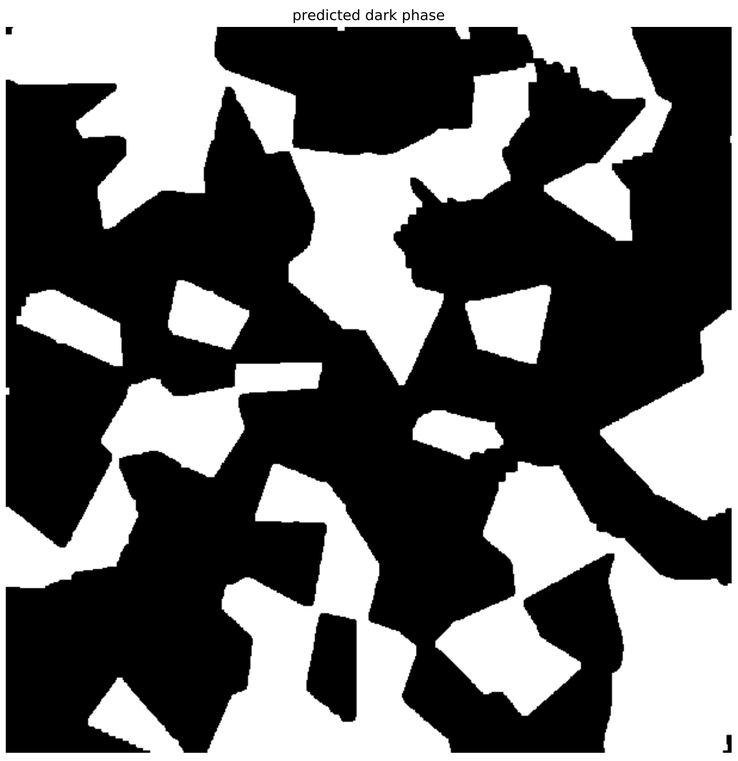


correct line phase

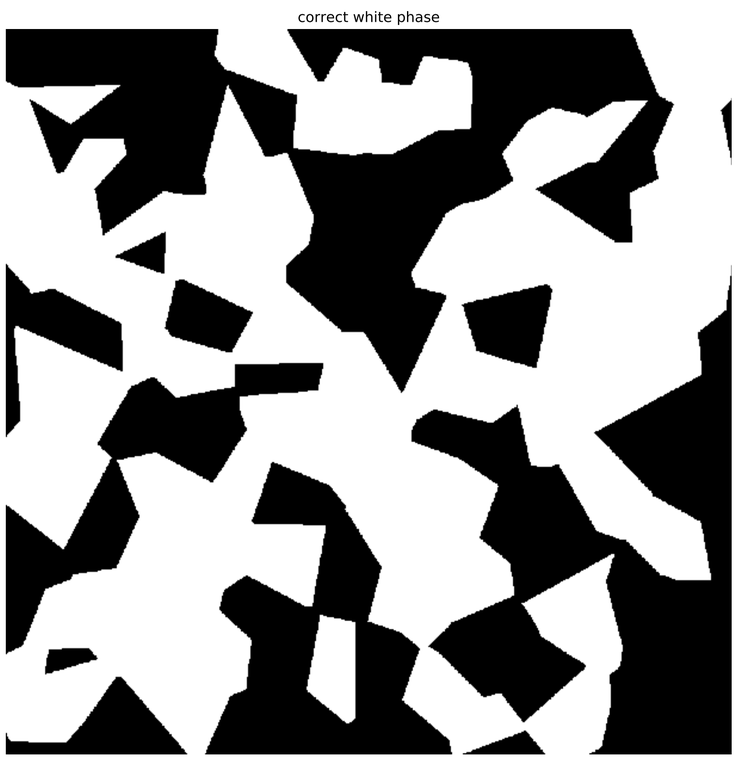
predicted line phase

correct dark phase

predicted dark phase



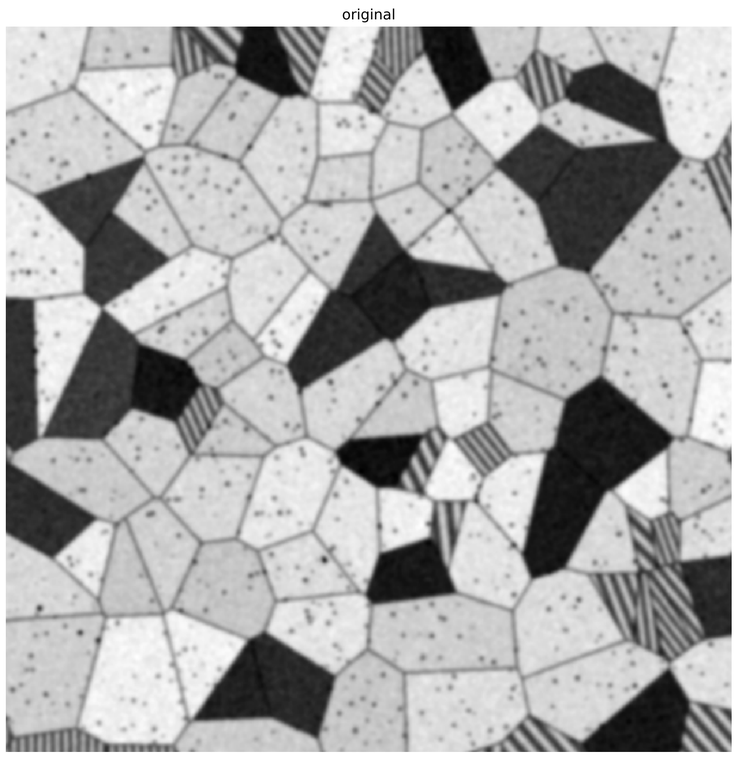
correct white phase



predicted white phase

data/base microstructure/image_96.png

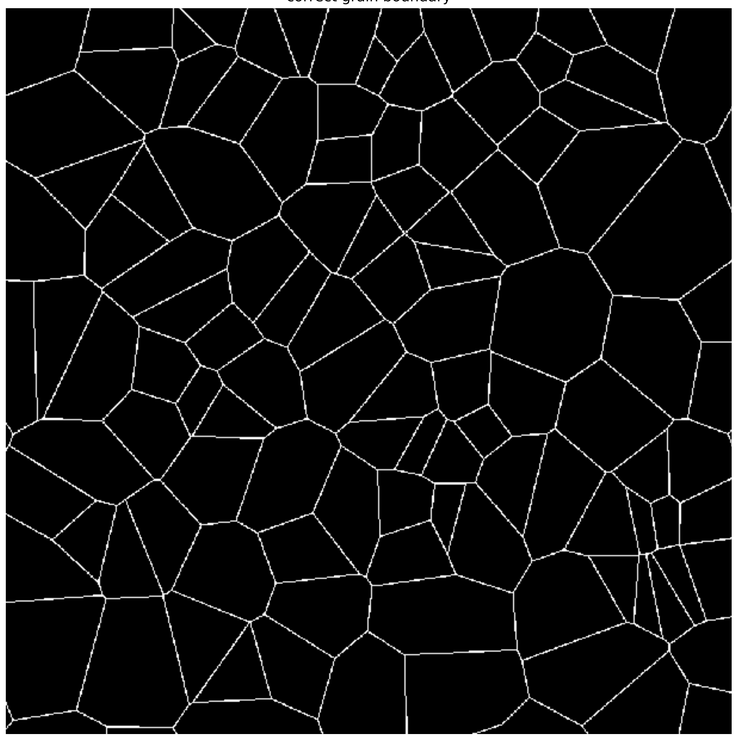
original



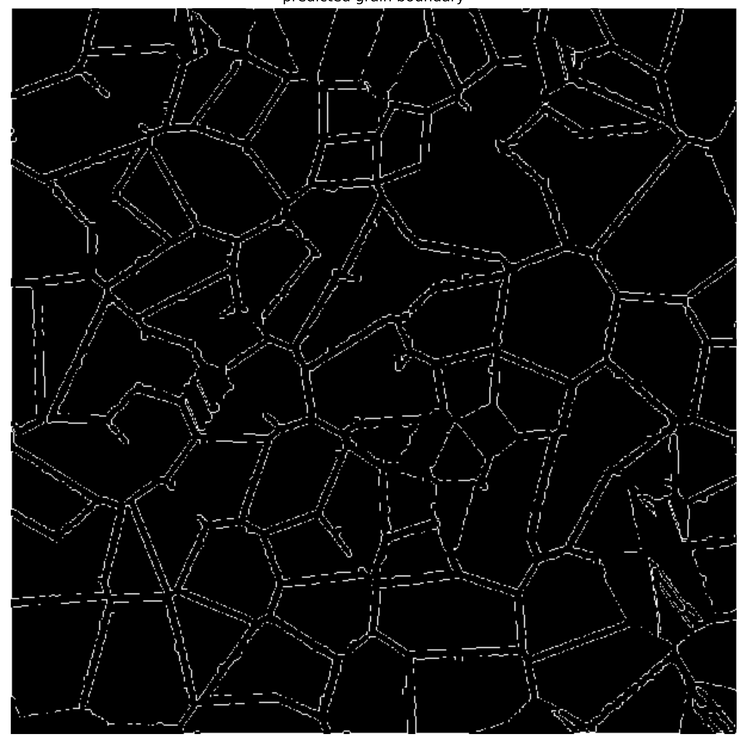
metrics

metric	correct	predicted	error
dark frac	0.196	0.188	0.718%
white frac	0.740	0.699	4.078%
line frac	0.065	0.044	2.020%
ave grain diameter	99.483	91.109	8.417%

correct grain boundary



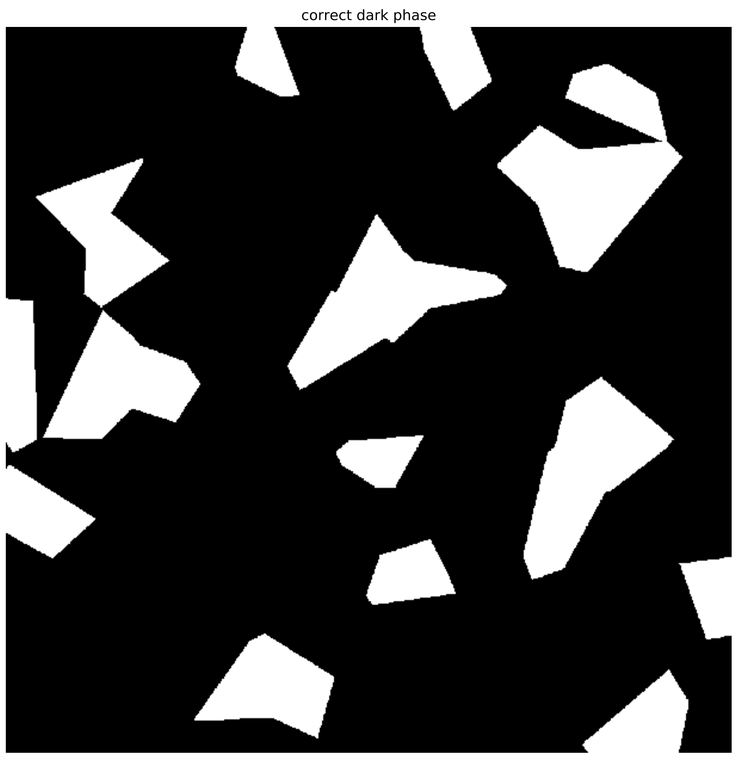
predicted grain boundary



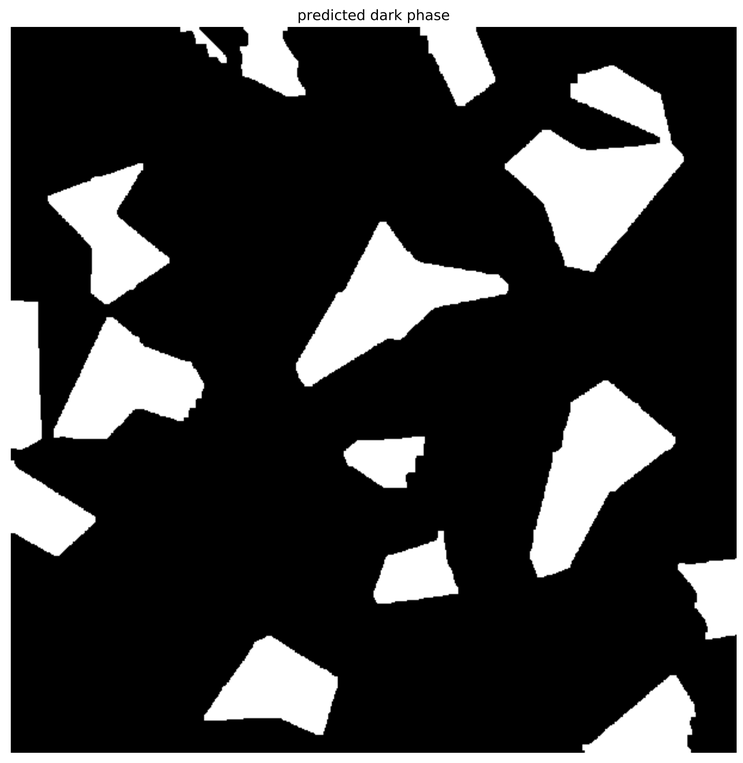
correct line phase

predicted line phase

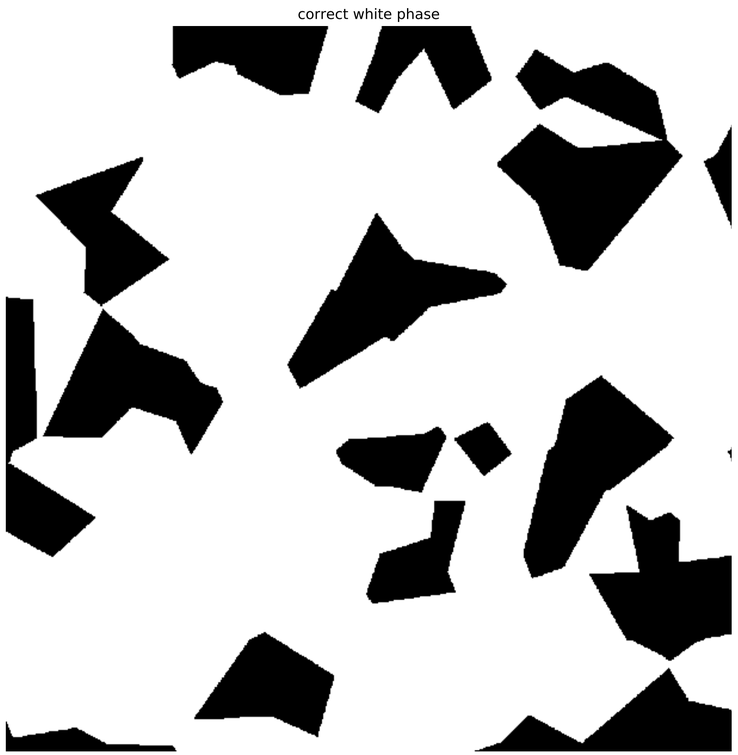
correct dark phase



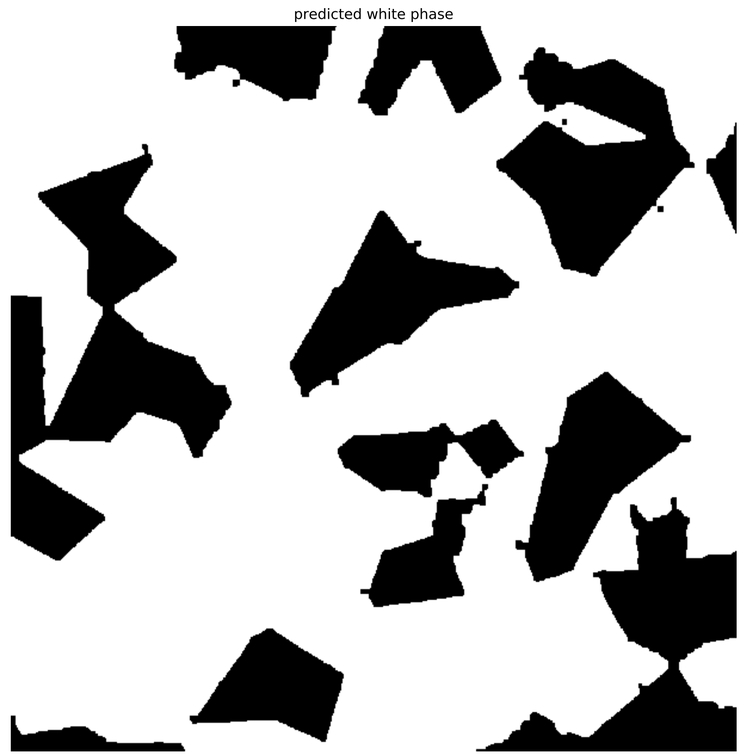
predicted dark phase



correct white phase

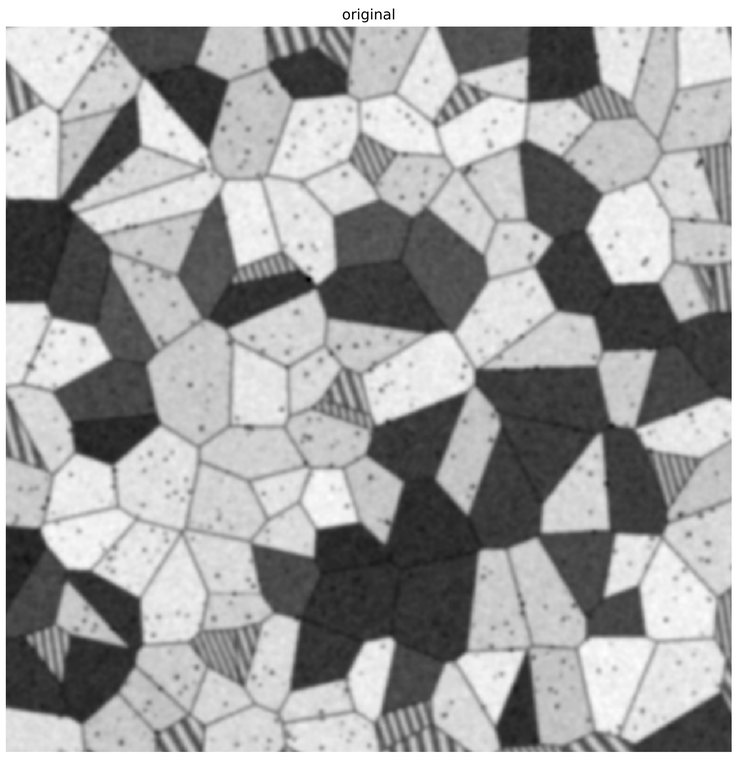


predicted white phase



data/base microstructure/image_97.png

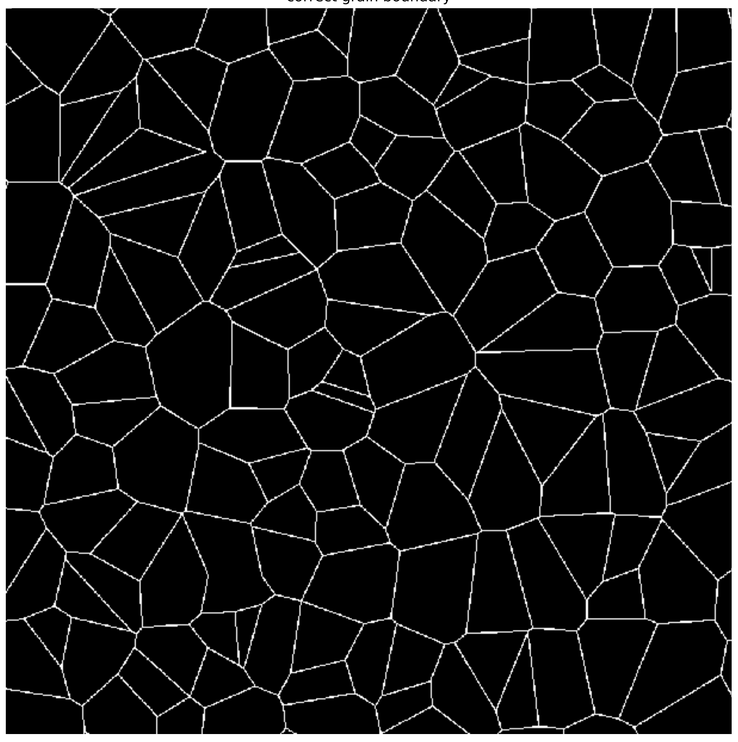
original



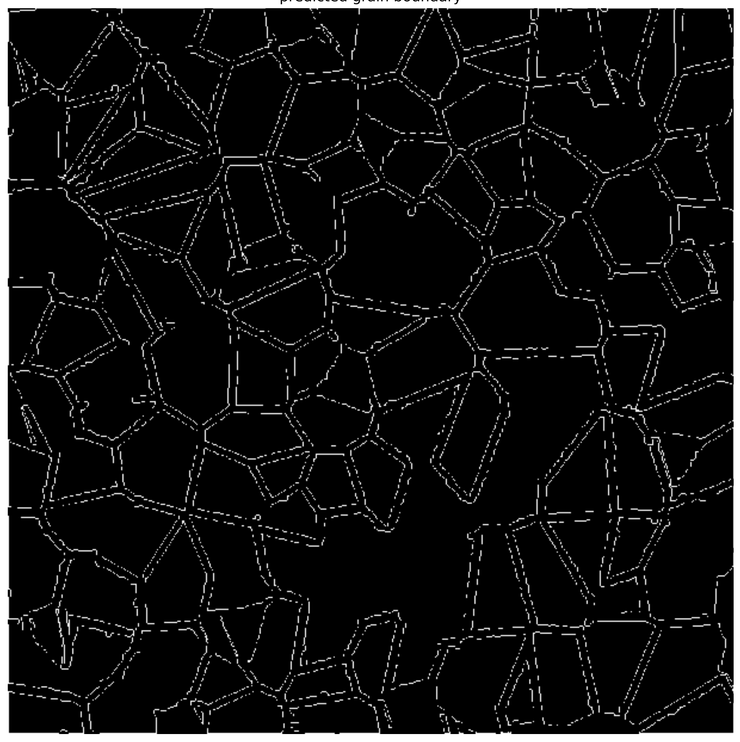
metrics

metric	correct	predicted	error
dark frac	0.320	0.310	1.050%
white frac	0.627	0.572	5.410%
line frac	0.053	0.033	2.076%
ave grain diameter	88.905	82.052	7.708%

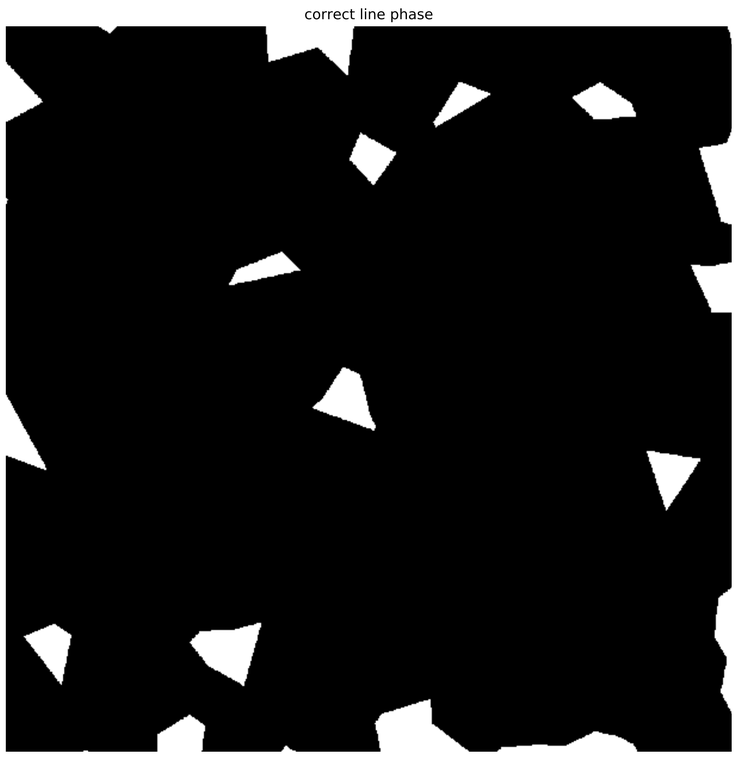
correct grain boundary



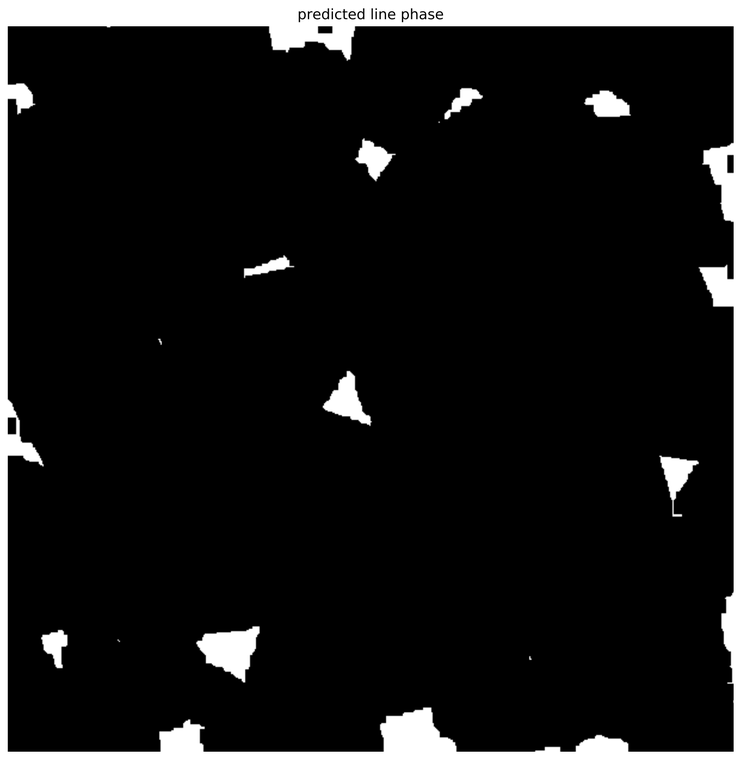
predicted grain boundary



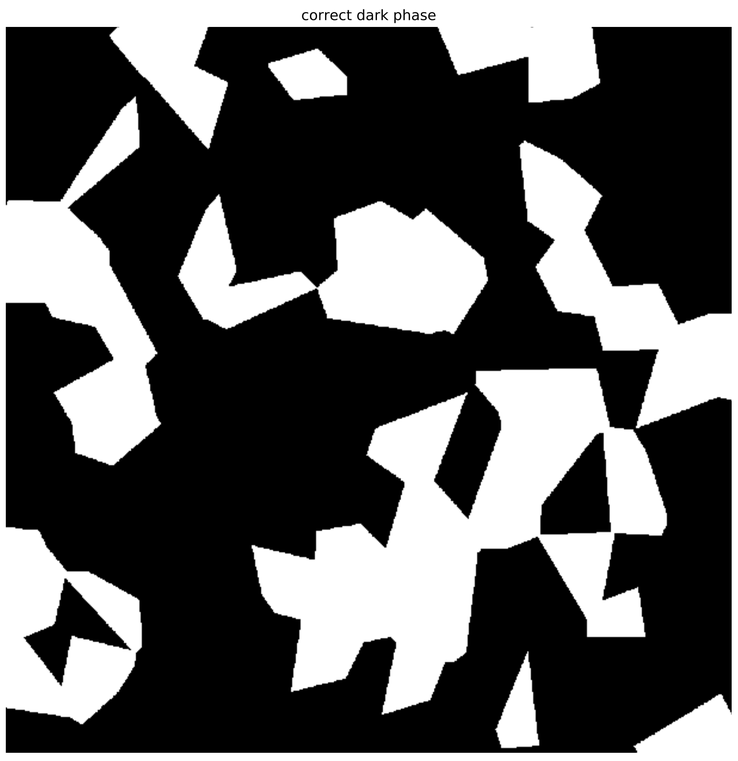
correct line phase



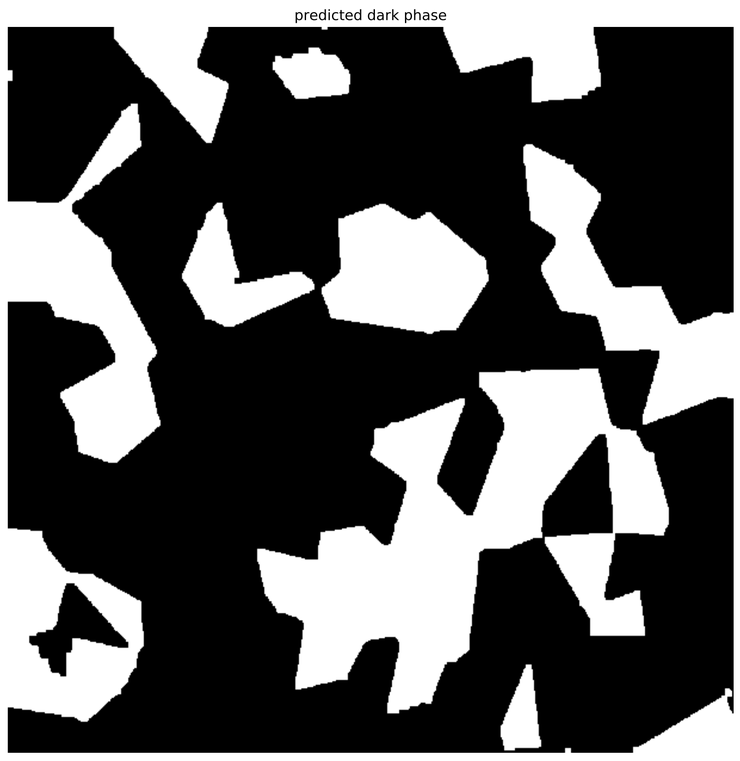
predicted line phase



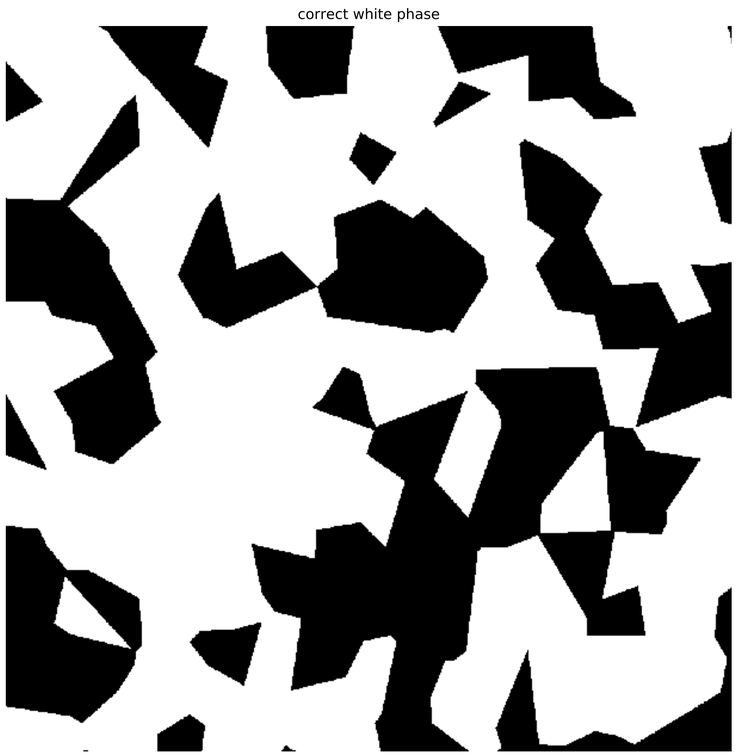
correct dark phase



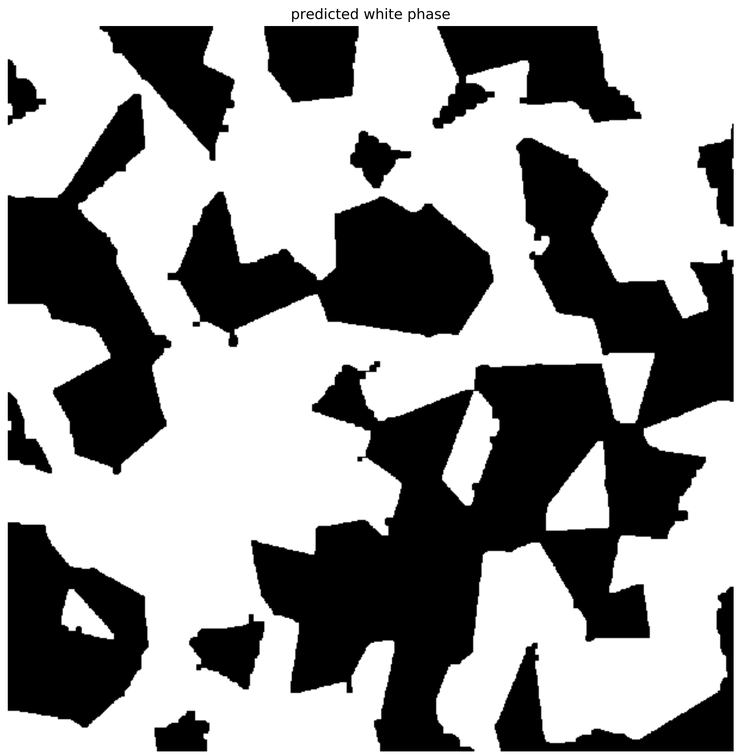
predicted dark phase



correct white phase

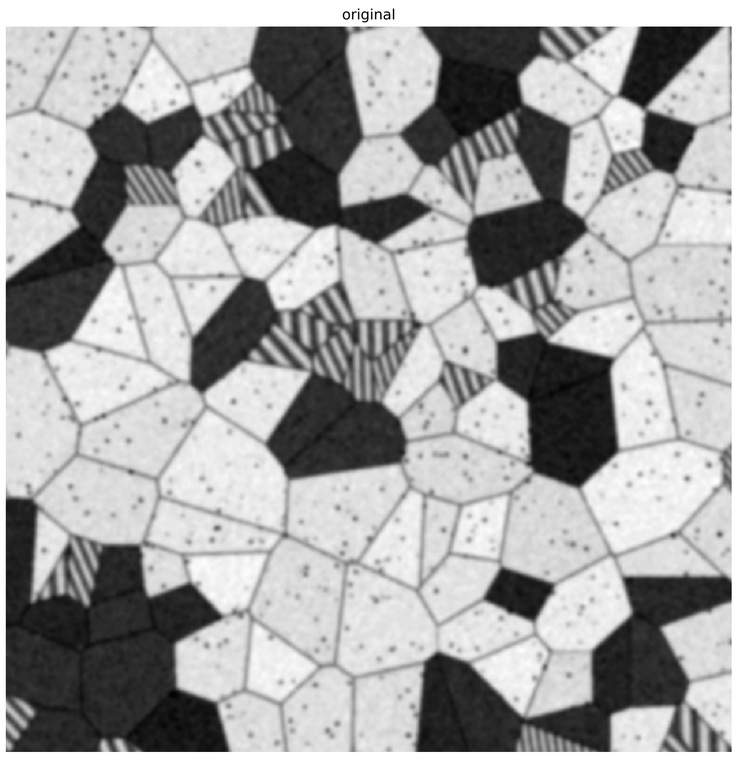


predicted white phase



data/base microstructure/image_98.png

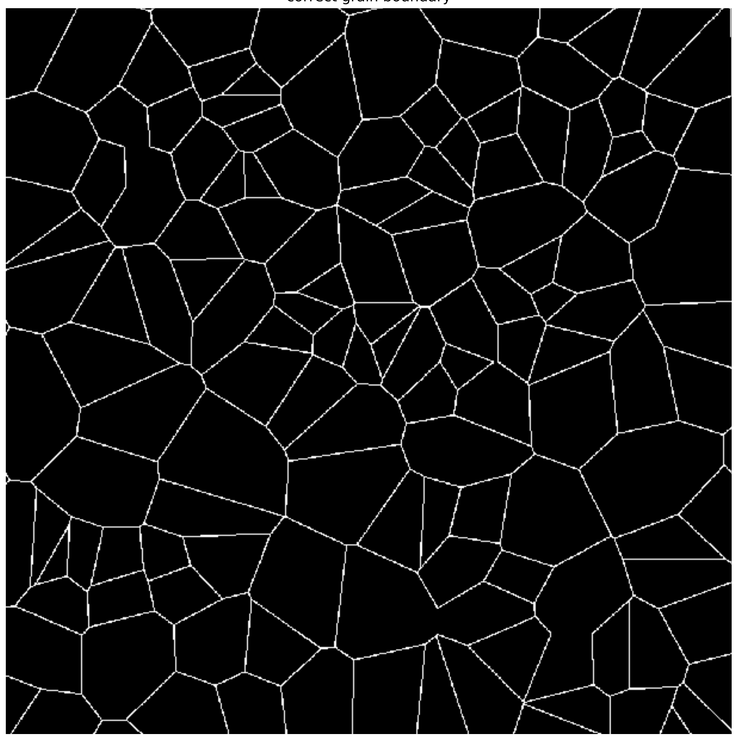
original



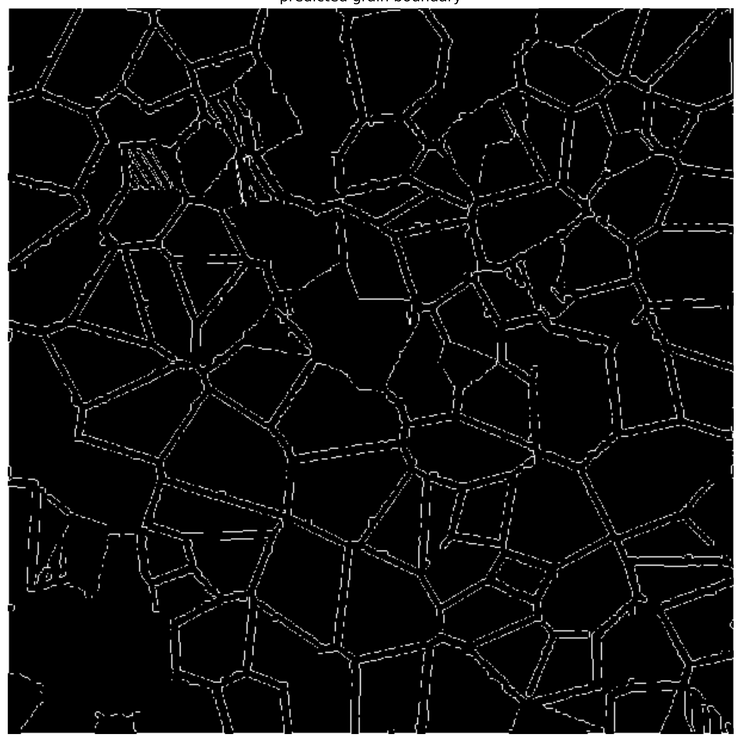
metrics

metric	correct	predicted	error
dark frac	0.276	0.270	0.616%
white frac	0.651	0.613	3.801%
line frac	0.072	0.046	2.689%
ave grain diameter	91.452	91.842	0.428%

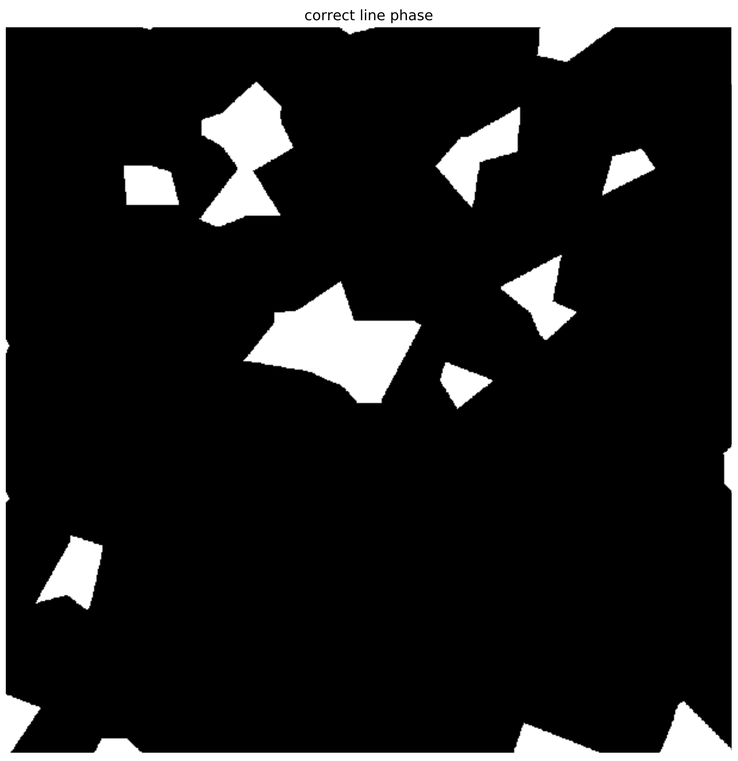
correct grain boundary



predicted grain boundary

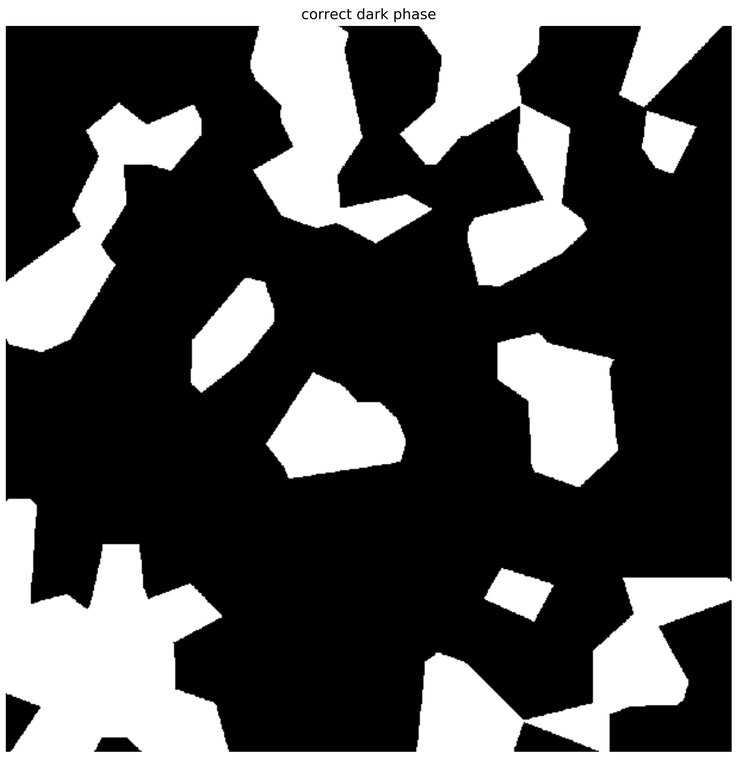


correct line phase



predicted line phase

correct dark phase



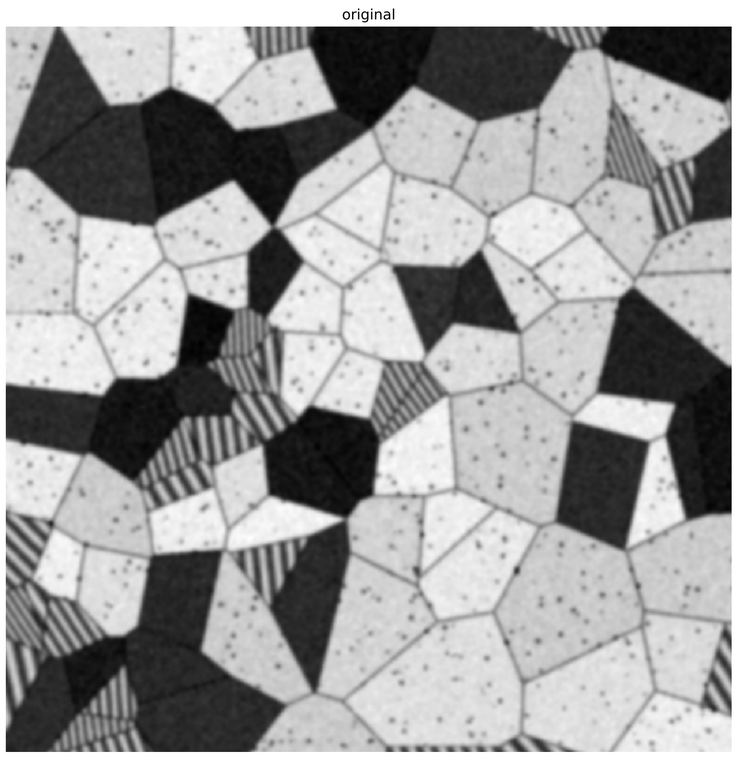
predicted dark phase

correct white phase

predicted white phase

data/base microstructure/image_99.png

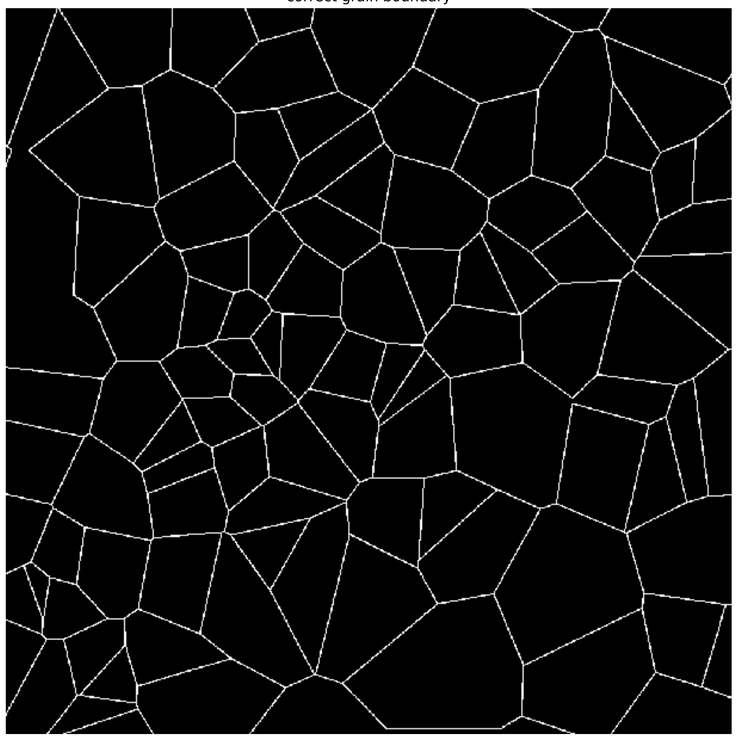
original



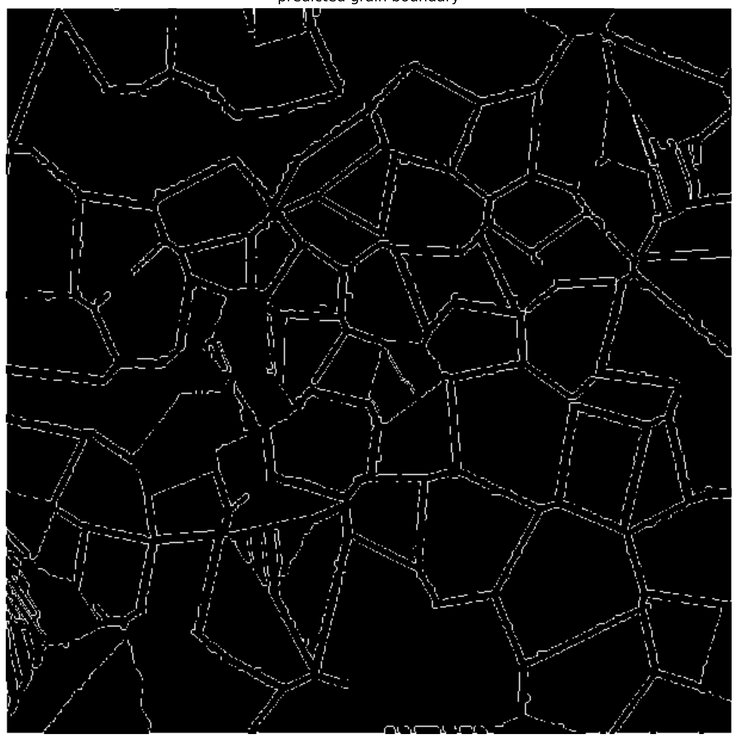
metrics

metric	correct	predicted	error
dark frac	0.292	0.285	0.685%
white frac	0.623	0.589	3.430%
line frac	0.085	0.059	2.534%
ave grain diameter	104.505	102.267	2.142%

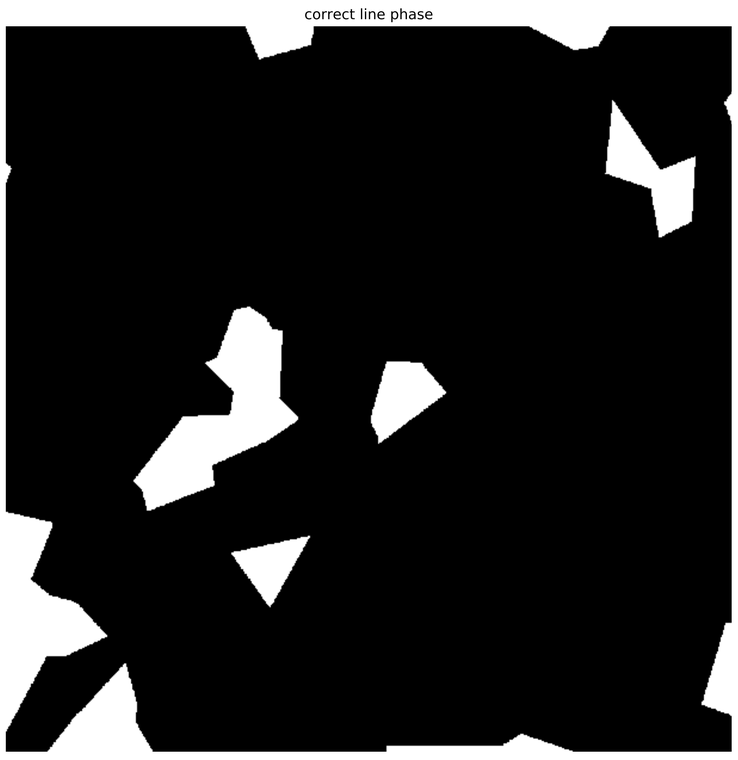
correct grain boundary



predicted grain boundary



correct line phase



predicted line phase

correct dark phase

predicted dark phase

correct white phase

predicted white phase