The GLM Procedure

Number of Observations Read	1152
Number of Observations Used	349

The GLM Procedure

Dependent Variable: MeanCloudCover

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	10	569.5305196	56.9530520	123.34	<.0001
Error	338	156.0688647	0.4617422		
Corrected Total	348	725.5993843			

R-Square	Coeff Var	Root MSE	MeanCloudCover Mean
0.784910	10.76055	0.679516	6.314886

Source	DF	Type I SS	Mean Square	F Value	Pr > F
MinTemp	1	9.4794170	9.4794170	20.53	<.0001
MaxTemp	1	205.4493052	205.4493052	444.94	<.0001
MeanTemp	1	122.7129920	122.7129920	265.76	<.0001
MinAirTemp	1	18.2931062	18.2931062	39.62	<.0001
SunDuration	1	180.1966432	180.1966432	390.25	<.0001
MeanCloudVapor	1	3.5634369	3.5634369	7.72	0.0058
MeanRelHumid	1	0.8814777	0.8814777	1.91	0.1680
logPrecipHeight	1	24.3839501	24.3839501	52.81	<.0001
MeanPressure	1	3.0451597	3.0451597	6.59	0.0107
logSnowDepth	1	1.5250315	1.5250315	3.30	0.0700

Source	DF	Type III SS	Mean Square	F Value	Pr > F
MinTemp	1	0.20842667	0.20842667	0.45	0.5021
MaxTemp	1	7.55303002	7.55303002	16.36	<.0001
MeanTemp	1	4.46756099	4.46756099	9.68	0.0020
MinAirTemp	1	0.03955071	0.03955071	0.09	0.7700
SunDuration	1	83.65866663	83.65866663	181.18	<.0001
MeanCloudVapor	1	1.78326092	1.78326092	3.86	0.0502
MeanRelHumid	1	0.26940521	0.26940521	0.58	0.4455
logPrecipHeight	1	20.14093593	20.14093593	43.62	<.0001
MeanPressure	1	1.15344937	1.15344937	2.50	0.1149
logSnowDepth	1	1.52503146	1.52503146	3.30	0.0700

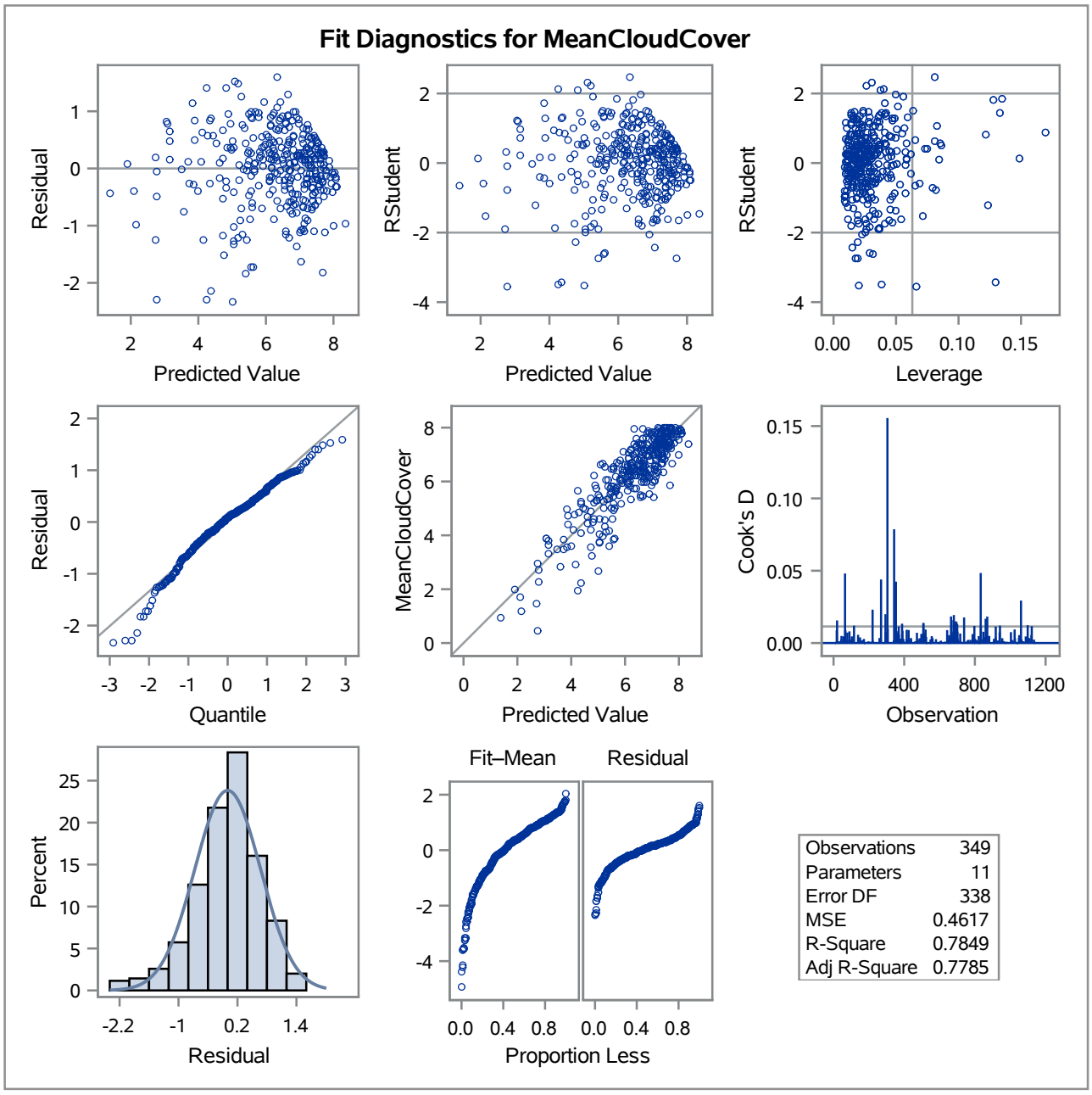
The GLM Procedure

Dependent Variable: MeanCloudCover

Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Limits	
Intercept	9.239042774	2.13692794	4.32	<.0001	5.035689892	13.442395656
MinTemp	-0.020979660	0.03122638	-0.67	0.5021	-0.082402169	0.040442849
MaxTemp	-0.105745714	0.02614580	-4.04	<.0001	-0.157174697	-0.054316732
MeanTemp	0.113703749	0.03655437	3.11	0.0020	0.041801032	0.185606466
MinAirTemp	0.006382670	0.02180846	0.29	0.7700	-0.036514733	0.049280074
SunDuration	-0.410365186	0.03048701	-13.46	<.0001	-0.470333356	-0.350397015
MeanCloudVapor	0.148282197	0.07545384	1.97	0.0502	-0.000136060	0.296700454
MeanRelHumid	0.007462347	0.00976950	0.76	0.4455	-0.011754327	0.026679022
logPrecipHeight	0.159177739	0.02410140	6.60	<.0001	0.111770106	0.206585371
MeanPressure	-0.003095013	0.00195823	-1.58	0.1149	-0.006946860	0.000756834
logSnowDepth	0.050603769	0.02784475	1.82	0.0700	-0.004167048	0.105374586

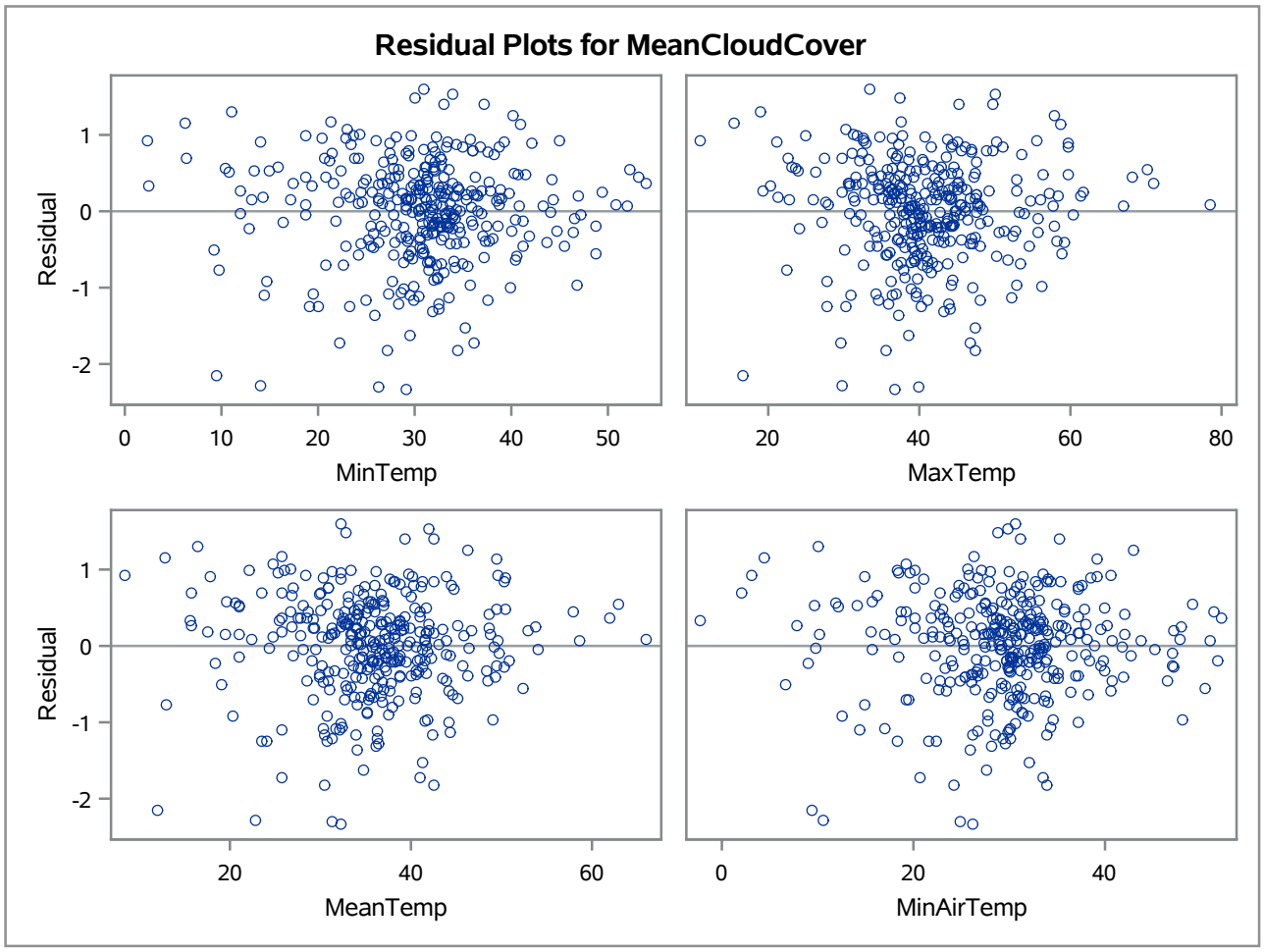
The GLM Procedure

Dependent Variable: MeanCloudCover



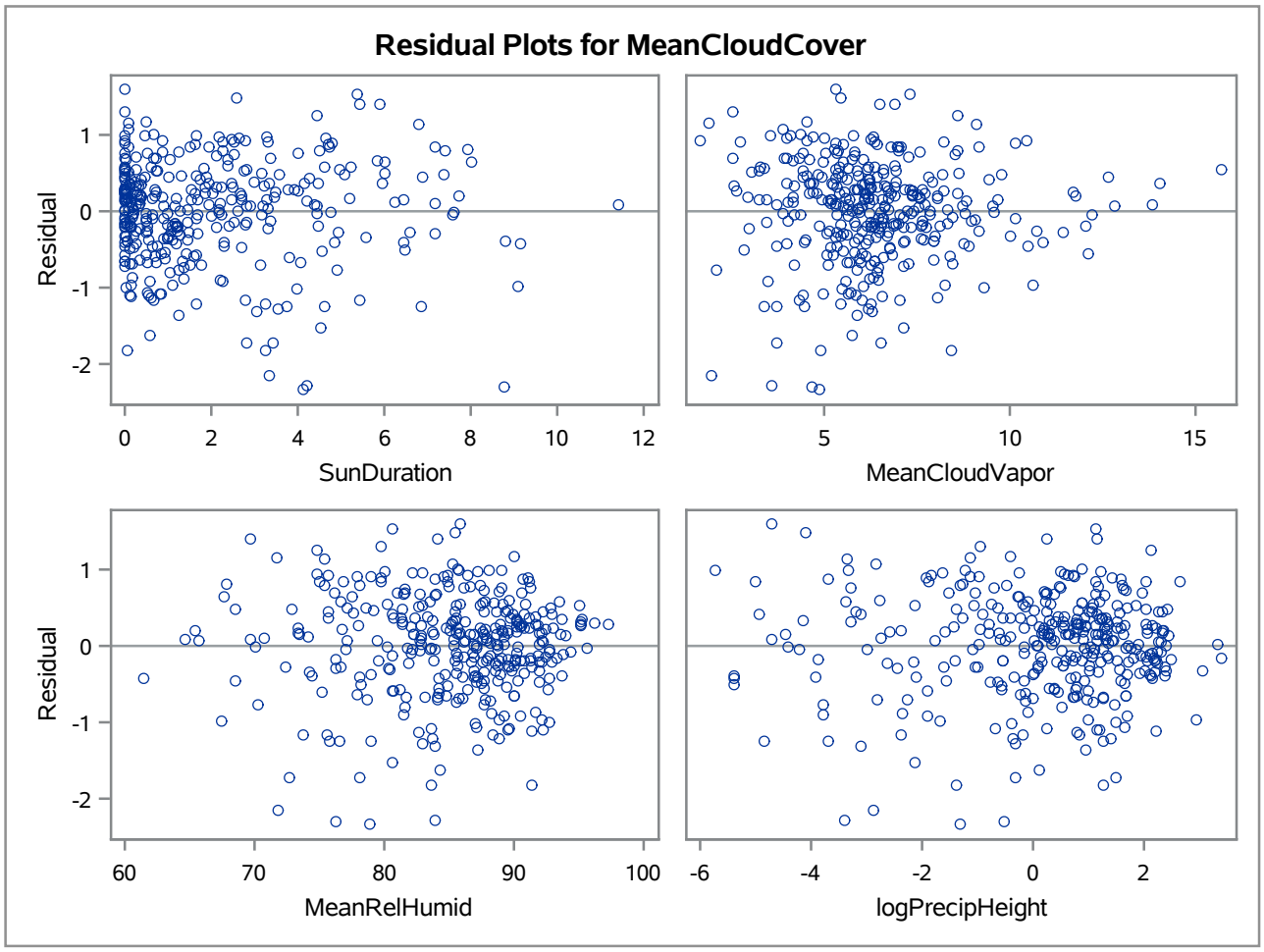
The GLM Procedure

Dependent Variable: MeanCloudCover



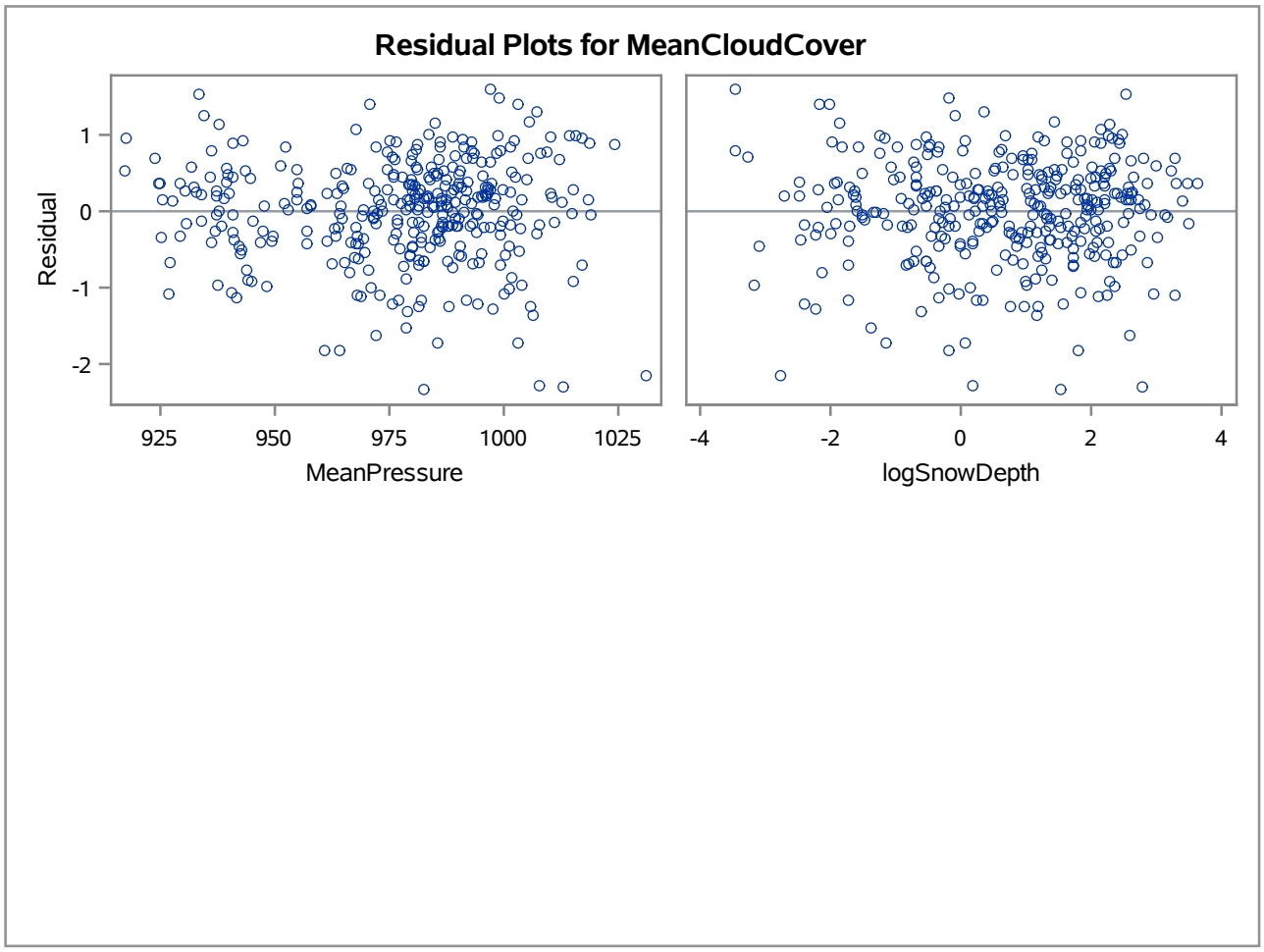
The GLM Procedure

Dependent Variable: MeanCloudCover



The GLM Procedure

Dependent Variable: MeanCloudCover



The GLMSELECT Procedure

Data Set	WORK.TRAIN2
Test Data Set	WORK.TEST2
Dependent Variable	MeanCloudCover
Selection Method	Stepwise
Select Criterion	SBC
Stop Criterion	Cross Validation
Choose Criterion	Cross Validation
Cross Validation Method	Random
Cross Validation Fold	5
Effect Hierarchy Enforced	None
Random Number Seed	950299023

Observation Profile for Analysis Data	
Number of Observations Read	1152
Number of Observations Used	349
Number of Observations Used for Training	349

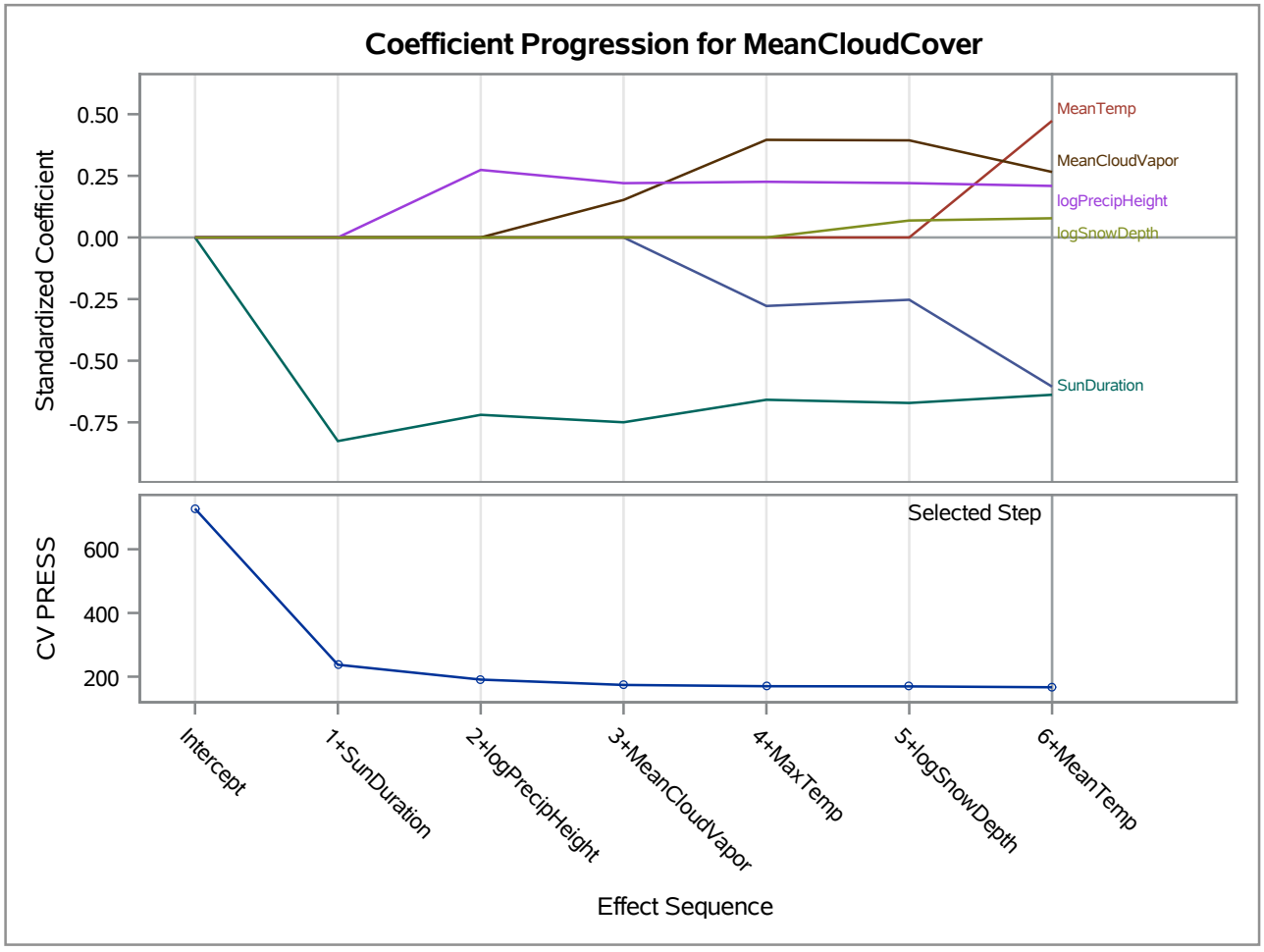
Observation Profile for Test Data	
Number of Observations Read	64
Number of Observations Used	15

Dimensions	
Number of Effects	11
Number of Parameters	11

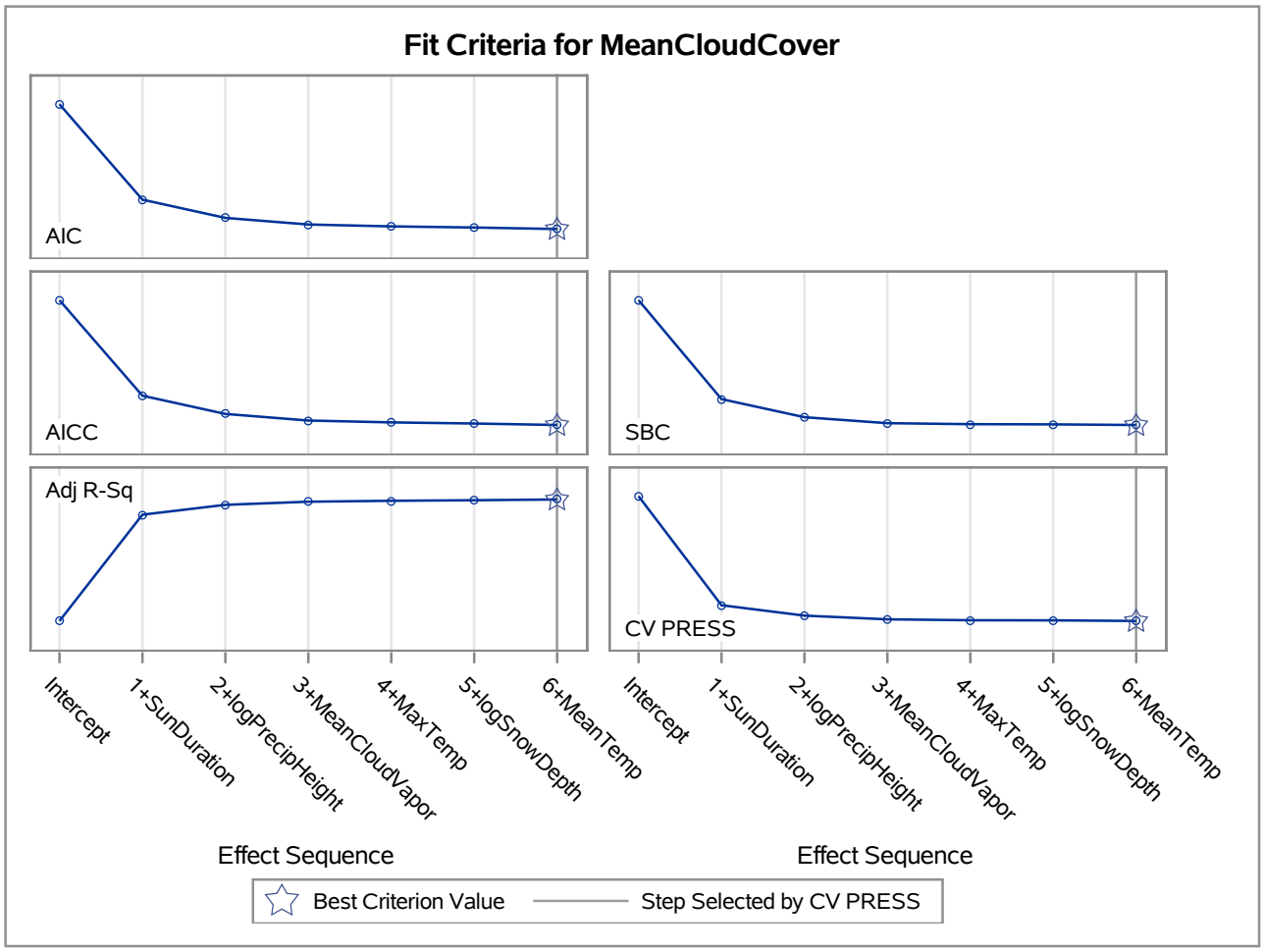
The GLMSELECT Procedure

Stepwise Selection Summary							
Step	Effect Entered	Effect Removed	Number Effects In	SBC	ASE	Test ASE	CV PRESS
0	Intercept		1	261.2973	2.0791	2.6586	727.1959
1	SunDuration		2	-133.0560	0.6605	0.5350	237.4785
2	logPrecipHeight		3	-205.2631	0.5281	0.4293	190.8239
3	MeanCloudVapor		4	-229.0111	0.4851	0.4404	174.1156
4	MaxTemp		5	-232.9793	0.4717	0.4599	170.0272
5	logSnowDepth		6	-233.8086	0.4627	0.4127	169.5055
6	MeanTemp		7	-236.2747*	0.4518	0.3953	166.7311*
* Optimal Value of Criterion							

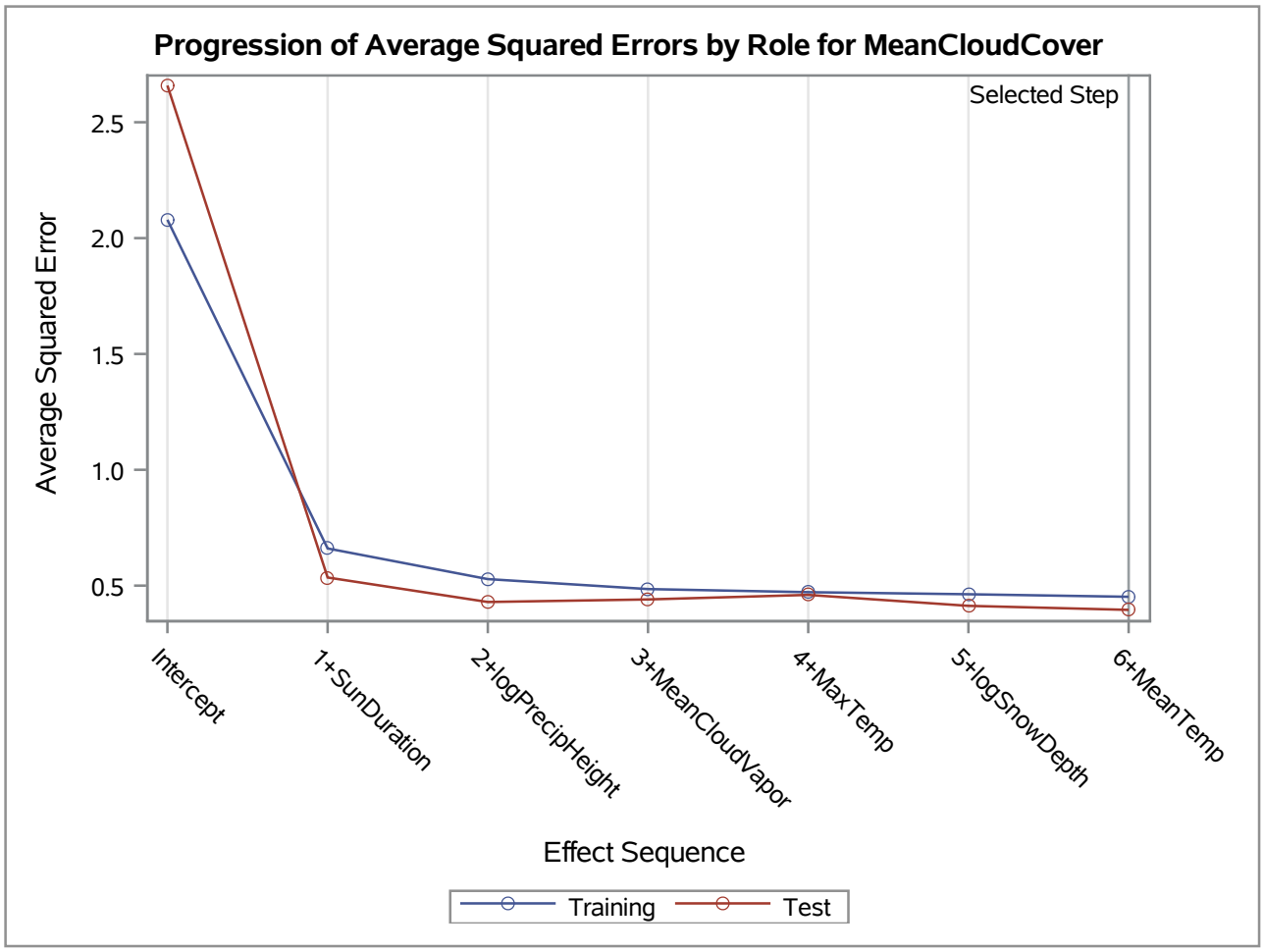
Selection stopped as adding or dropping any effect does not improve the selection criterion.



The GLMSELECT Procedure



The GLMSELECT Procedure



The GLMSELECT Procedure
Selected Model

The selected model, based on Cross Validation, is the model at Step 6.

Effects:	Intercept MaxTemp MeanTemp SunDuration MeanCloudVapor logPrecipHeight logSnowDepth

Analysis of Variance				
Source	**DF**	**Sum of Squares**	**Mean Square**	**F Value**
Model	6	567.90952	94.65159	205.28
Error	342	157.68986	0.46108	
Corrected Total	348	725.59938		

Root MSE	0.67903
Dependent Mean	6.31489
R-Square	0.7827
Adj R-Sq	0.7789
AIC	87.73984
AICC	88.16336
SBC	-236.27466
ASE (Train)	0.45183
ASE (Test)	0.39526
CV PRESS	166.73113

Cross Validation Details			
	Observations		
Index	**Fitted**	**Left Out**	**CV PRESS**
1	287	62	30.1917
2	278	71	33.8020
3	268	81	42.4869
4	279	70	38.7321
5	284	65	21.5185
Total			166.7311

The GLMSELECT Procedure
Selected Model

Parameter Estimates				
Parameter	DF	Estimate	Standard Error	t Value
Intercept	1	6.838693	0.238777	28.64
MaxTemp	1	-0.096435	0.024022	-4.01
MeanTemp	1	0.083444	0.029048	2.87
SunDuration	1	-0.421856	0.027682	-15.24
MeanCloudVapor	1	0.189712	0.065942	2.88
logPrecipHeight	1	0.167306	0.023495	7.12
logSnowDepth	1	0.072999	0.024936	2.93

The Probit Procedure

Iteration History for Parameter Estimates									
			Intercept	MinTemp	MaxTemp	MeanTemp	MinAirTemp	SunDuration	MeanCloudCover
Iter	Ridge	Loglikelihood	MeanCloudVapor	MeanRelHumid	logPrecipHeight	PrecipForm	MeanPressure		logSnowDepth
0	0	-10.397208	0	0	0	0	0	0	0
			0	0	0	0	0		0
1	0	-3.3928335	-23.91187965	0.1065946818	0.2660832486	-0.166002156	-0.232849157	-0.904108845	-1.40213874
			0.0471883943	-0.003967128	0.4577155504	-0.003541521	0.0345200883		0.1623291767
2	0	-1.0930255	-58.0848656	0.2541597786	0.5706342689	-0.214201202	-0.483350969	-2.355111806	-3.125969466
			-0.188605723	-0.046634317	0.3802289426	0.2125707415	0.0803066626		0.4980023749
3	0	-0.2637239	-94.90579154	0.5196429825	0.9019373393	-0.30593258	-0.779322133	-3.928792846	-4.943835164
			-0.554441368	-0.107398428	0.2411449866	0.4654083409	0.1300078828		0.9047290074
4	0	-0.0741221	-120.9411674	0.705997634	1.1425746262	-0.381956816	-0.993216468	-5.041575519	-6.253760707
			-0.793019407	-0.148803021	0.1815542933	0.6327614505	0.1654287588		1.1874315734
5	0	-0.0224216	-141.8422637	0.8534815439	1.3392044658	-0.447904716	-1.1665883	-5.936396715	-7.318066682
			-0.973614938	-0.181165265	0.1501262932	0.7621858632	0.1939822006		1.4120080864
6	0	-0.0070754	-159.7111481	0.9779240429	1.5093859648	-0.506953599	-1.315494934	-6.702663032	-8.235496821
			-1.121560919	-0.208269684	0.1317017324	0.8702647206	0.2184514893		1.6027313118
7	0	-0.0022942	-175.5586279	1.087118291	1.6615597153	-0.560839415	-1.447844629	-7.382993913	-9.053656985
			-1.248852988	-0.231926101	0.1201316821	0.9646470519	0.2401822634		1.7711220524
8	0	-0.0007581	-189.948923	1.185455465	1.8004444396	-0.610602673	-1.568135807	-8.00108417	-9.799203116
			-1.362053021	-0.253147274	0.1124601768	1.0494672766	0.2599295849		1.9235324556
9	0	-0.000254	-203.2293731	1.275638313	1.9289823492	-0.656948421	-1.679181449	-8.571539564	-10.48868865
			-1.465070019	-0.272555696	0.1071263392	1.127196275	0.2781608382		2.0638358784
10	0	-0.000086	-215.6292502	1.3594375344	2.0491627337	-0.700404701	-1.782861481	-9.104051855	-11.1331988
			-1.560367458	-0.290557398	0.1032599324	1.1994179636	0.2951861733		2.1945725242
11	0	-0.0000294	-227.308216	1.4380715106	2.1624116825	-0.741389728	-1.880497153	-9.60541742	-11.74058536
			-1.649570554	-0.307429388	0.1003567284	1.2672047706	0.311222577		2.3175037852
12	0	-0.0000101	-238.3823659	1.5124141378	2.2697952816	-0.780242713	-1.973055467	-10.08061189	-12.31665133
			-1.733798528	-0.323368259	0.0981141002	1.3313169678	0.3264284211		2.4339064677
13	0	-3.4931E-6	-248.9391763	1.5831151594	2.3721354414	-0.817241404	-2.061268276	-10.53340541	-12.8658295
			-1.81385438	-0.338518662	0.0963436764	1.392315194	0.3409233782		2.5447401191
14	0	-1.2139E-6	-259.0465311	1.6506727966	2.4700810995	-0.852614449	-2.145705162	-10.96673577	-13.39159623
			-1.890336321	-0.352990518	0.0949236633	1.4506269556	0.3548005092		2.6507475361
15	0	-4.2357E-7	-268.7584124	1.7154792071	2.5641546267	-0.886551083	-2.226819892	-11.38294551	-13.89673727
			-1.963704974	-0.366869727	0.0937722432	1.5065875297	0.3681339246		2.7525179699
16	0	-1.4833E-7	-278.1186307	1.7778499326	2.6547834176	-0.919208909	-2.304981115	-11.78393879	-14.38352542
			-2.034325094	-0.380225026	0.09283239	1.5604660837	0.3809838278		2.850528488

The Probit Procedure

Iteration History for Parameter Estimates									
			Intercept	MinTemp	MaxTemp	MeanTemp	MinAirTemp	SunDuration	MeanCloudCover
Iter	Ridge	Loglikelihood	MeanCloudVapor	MeanRelHumid	logPrecipHeight	PrecipForm	MeanPressure		logSnowDepth
17	0	-5.2103E-8	-287.1633528	1.8380436077	2.74232211	-0.950720127	-2.380493333	-12.17128876	-14.85384362
			-2.102492343	-0.393112532	0.0920629774	1.6124829561	0.3933999492		2.9451720027
18	0	-1.8352E-8	-295.9228701	1.8962755588	2.8270686214	-0.981196484	-2.453611636	-12.54631326	-15.30927247
			-2.168451026	-0.405578822	0.0914334265	1.6628214716	0.4054239555		3.0367768548
19	0	-6.4799E-9	-304.4228683	1.9527274534	2.9092759671	-1.01073318	-2.524552327	-12.91012956	-15.75115408
			-2.232406248	-0.417663111	0.0909203883	1.7116362653	0.4170911856		3.1256208689
20	0	-2.2929E-9	-312.685362	2.0075543198	2.9891611285	-1.039411949	-2.593500765	-13.2636948	-16.18063966
			-2.294532498	-0.429398811	0.090505624	1.7590593056	0.4284319299		3.2119416802
21	0	-8.129E-10	-320.7293955	2.0608897683	3.0669118137	-1.067303486	-2.660617265	-13.60783653	-16.59872546
			-2.354979879	-0.440814684	0.0901746099	1.8052043567	0.4394723929		3.2959444795
22	0	-2.887E-10	-328.5715797	2.1128499516	3.142691685	-1.094469369	-2.72604162	-13.94327609	-17.00628054
			-2.413878745	-0.451935712	0.0899155911	1.8501703536	0.45023543		3.3778079279
23	0	-1.027E-10	-336.2265094	2.1635366225	3.2166444522	-1.120963597	-2.789896617	-14.27064687	-17.40406845
			-2.471343236	-0.462783767	0.0897189229	1.894044002	0.4607411211		3.4576887458
24	0	-3.659E-11	-343.7070914	2.2130395282	3.2888971176	-1.146833811	-2.85229081	-14.59050859	-17.79276437
			-2.527474008	-0.473378127	0.0895765989	1.9369018126	0.471007223		3.5357253246
25	0	-1.305E-11	-351.0248078	2.2614383138	3.3595625741	-1.172122283	-2.913320737	-14.90335889	-18.17296879
			-2.582360394	-0.483735897	0.0894819062	1.9788117157	0.4810495305		3.612040605
26	0	-4.662E-12	-358.1899272	2.3088040509	3.4287417082	-1.196866724	-2.973072711	-15.20964254	-18.54521864
			-2.636082128	-0.493872334	0.0894291675	2.0198343578	0.4908821685		3.6867443969
27	0	-1.667E-12	-365.211678	2.3552004803	3.496525117	-1.221100938	-3.031624277	-15.509759	-18.90999636
			-2.688710738	-0.503801116	0.0894135447	2.0600241559	0.5005178298		3.7599352683
28	0	-5.967E-13	-372.0983908	2.4006850315	3.5629945217	-1.244855365	-3.089045416	-15.80406869	-19.26773733
			-2.740310694	-0.513534565	0.0894308873	2.0994301611	0.5099679711		3.8317020974
29	0	-2.138E-13	-378.8576161	2.4453096658	3.6282239415	-1.26815753	-3.145399539	-16.09289808	-19.61883608
			-2.790940342	-0.523083828	0.0894776131	2.138096774	0.5192429759		3.9021253596
30	0	-7.668E-14	-385.4962238	2.4891215797	3.6922806748	-1.291032422	-3.200744324	-16.37654408	-19.96365147
			-2.840652701	-0.532459027	0.0895506133	2.1760643414	0.5283522905		3.9712782015
31	0	-2.752E-14	-392.0204856	2.5321637964	3.7552261251	-1.313502804	-3.255132418	-16.65527763	-20.30251107
			-2.889496115	-0.541669387	0.0896471772	2.2133696574	0.5373045383		4.0392273447
32	0	-9.886E-15	-398.4361462	2.5744756649	3.8171165014	-1.335589487	-3.30861203	-16.92934677	-20.63571487
			-2.937514817	-0.550723347	0.0897649299	2.2500463881	0.5461076176		4.1060338507
33	0	-3.554E-15	-404.7484833	2.6160932856	3.8780034138	-1.35731155	-3.36122744	-17.1989793	-20.96353837
			-2.984749398	-0.559628644	0.0899017824	2.2861254317	0.5547687839		4.1717537726

The Probit Procedure

Iteration History for Parameter Estimates									
			Intercept	MinTemp	MaxTemp	MeanTemp	MinAirTemp	SunDuration	MeanCloudCover
Iter	Ridge	Loglikelihood	MeanCloudVapor	MeanRelHumid	logPrecipHeight	PrecipForm	MeanPressure		logSnowDepth
34	0	-1.278E-15	-410.9623592	2.6570498744	3.9379343855	-1.378686543	-3.413019434	-17.464385	-21.28623539
			-3.031237221	-0.568392399	0.0900558899	2.3216352284	0.5632947212		4.2364387129
35	0	-4.602E-16	-417.0822652	2.6973760756	3.996953292	-1.399730647	-3.464025679	-17.72575758	-21.60404031
			-3.077012763	-0.577021179	0.0902256176	2.3566020258	0.5716916032		4.3001363041
36	0	-1.657E-16	-423.1123601	2.7371002326	4.0551007429	-1.420458822	-3.514281048	-17.98327634	-21.91717014
			-3.122107923	-0.58552106	0.0904095118	2.3910501093	0.5799651465		4.362890624
37	0	-5.973E-17	-429.0565041	2.7762486227	4.1124144126	-1.440884932	-3.563817901	-18.23710765	-22.22582625
			-3.166552282	-0.593897671	0.0906062757	2.4250020014	0.5881206563		4.4247425575
38	0	-2.154E-17	-434.9182876	2.8148456628	4.1689293299	-1.461021853	-3.612666333	-18.48740621	-22.53019595
			-3.210373336	-0.602156246	0.0908147495	2.4584786367	0.5961630673		4.4857301115
39	0	-7.771E-18	-440.7010571	2.8529140883	4.2246781311	-1.480881573	-3.66085439	-18.73431618	-22.83045375
			-3.253596691	-0.610301655	0.0910338925	2.4914995142	0.6040969785		4.5458886912
40	0	-2.805E-18	-446.4079381	2.8904751114	4.2796912832	-1.500475269	-3.70840826	-18.97797213	-23.12676265
			-3.296246245	-0.618338442	0.091262769	2.5240828318	0.611926685		4.6052513434
41	0	-1.013E-18	-452.0418544	2.9275485603	4.3339972813	-1.519813387	-3.75535244	-19.21849995	-23.41927511
			-3.338344339	-0.626270856	0.0915005354	2.556245605	0.6196562046		4.663848971
42	0	-3.66E-19	-457.6055466	2.9641530023	4.3876228223	-1.538905707	-3.801709886	-19.45601759	-23.70813399
			-3.379911902	-0.634102874	0.0917464292	2.5880037716	0.6272893032		4.7217105231
43	0	-1.323E-19	-463.1015875	3.000305854	4.440592961	-1.557761398	-3.847502145	-19.69063574	-23.99347341
			-3.420968567	-0.641838226	0.0919997601	2.6193722856	0.6348295157		4.7788631639
44	0	-4.784E-20	-468.5323959	3.0360234779	4.4929312477	-1.576389072	-3.892749475	-19.92245847	-24.27541945
			-3.461532783	-0.649480417	0.0922599017	2.6503651996	0.6422801657		4.8353324233
45	0	-1.73E-20	-473.9002497	3.0713212705	4.544659852	-1.59479683	-3.937470949	-20.15158375	-24.55409082
			-3.501621912	-0.657032745	0.0925262843	2.6809957398	0.6496443828		4.8911423316
46	0	-6.262E-21	-479.207297	3.10621374	4.5957996742	-1.612992306	-3.98168455	-20.37810394	-24.82959945
			-3.541252321	-0.664498317	0.0927983891	2.7112763722	0.6569251181		4.9463155401
47	0	-2.267E-21	-484.4555659	3.1407145765	4.6463704442	-1.630982699	-4.025407257	-20.60210626	-25.10205104
			-3.580439453	-0.671880065	0.0930757428	2.7412188627	0.6641251581		5.0008734295
48	0	-8.209E-22	-489.6469743	3.1748367154	4.6963908119	-1.648774811	-4.068655122	-20.82367312	-25.37154549
			-3.619197903	-0.679180759	0.0933579126	2.7708343309	0.6712471372		5.0548362078
49	0	-2.974E-22	-494.7833376	3.2085923942	4.7458784283	-1.666375074	-4.111443338	-21.04288255	-25.63817738
			-3.657541482	-0.68640302	0.0936445024	2.8001332987	0.6782935495		5.1082229985
50	0	-1.077E-22	-499.8663764	3.2419932043	4.7948500185	-1.683789581	-4.153786305	-21.25980848	-25.90203634
			-3.695483272	-0.693549329	0.0939351492	2.8291257347	0.6852667585		5.1610519203

The Probit Procedure

Model Information	
Data Set	WORK.TEST2
Dependent Variable	Success
Number of Observations	15
Name of Distribution	Normal
Log Likelihood	-1.0775E-22

Number of Observations Read	64
Number of Observations Used	15
Missing Values	49

Class Level Information		
Name	**Levels**	**Values**
Success	2	accept reject

Parameter Information	
Parameter	**Effect**
Intercept	Intercept
MinTemp	MinTemp
MaxTemp	MaxTemp
MeanTemp	MeanTemp
MinAirTemp	MinAirTemp
SunDuration	SunDuration
MeanCloudCover	MeanCloudCover
MeanCloudVapor	MeanCloudVapor
MeanRelHumid	MeanRelHumid
logPrecipHeight	logPrecipHeight
PrecipForm	PrecipForm
MeanPressure	MeanPressure
logSnowDepth	logSnowDepth

Response Profile		
Ordered Value	**Success**	**Total Frequency**
1	accept	10
2	reject	5

PROC PROBIT is modeling the probabilities of levels of Success having LOWER Ordered Values in the response profile table.

The Probit Procedure

Last Evaluation of the Negative of the Gradient								
Intercept	MinTemp	MaxTemp	MeanTemp	MinAirTemp	SunDuration	MeanCloudCover	MeanCloudVapor	MeanRelHumid
-2.66497E-22	-6.67682E-21	-9.27422E-21	-8.18936E-21	-6.55114E-21	-2.34372E-22	-1.62179E-21	-1.41269E-21	-2.36153E-20

Last Evaluation of the Negative of the Gradient			
logPrecipHeight	PrecipForm	MeanPressure	logSnowDepth
7.960775E-23	-2.72555E-22	-2.68836E-19	-4.91476E-22

Last Evaluation of the Negative of the Hessian							
	Intercept	MinTemp	MaxTemp	MeanTemp	MinAirTemp	SunDuration	MeanCloudCover
Intercept	1.083577E-20	3.338804E-19	4.472603E-19	3.919937E-19	3.249505E-19	2.883574E-20	6.650171E-20
MinTemp	3.338804E-19	1.110747E-17	1.458375E-17	1.286644E-17	1.081451E-17	8.399552E-19	2.087514E-18
MaxTemp	4.472603E-19	1.458375E-17	1.949306E-17	1.709162E-17	1.417067E-17	1.25637E-18	2.723705E-18
MeanTemp	3.919937E-19	1.286644E-17	1.709162E-17	1.502926E-17	1.250152E-17	1.059114E-18	2.410857E-18
MinAirTemp	3.249505E-19	1.081451E-17	1.417067E-17	1.250152E-17	1.056131E-17	8.028117E-19	2.038803E-18
SunDuration	2.883574E-20	8.399552E-19	1.25637E-18	1.059114E-18	8.028117E-19	1.626896E-19	1.261696E-19
MeanCloudCover	6.650171E-20	2.087514E-18	2.723705E-18	2.410857E-18	2.038803E-18	1.261696E-19	4.408504E-19
MeanCloudVapor	6.760586E-20	2.273589E-18	2.97695E-18	2.63154E-18	2.210783E-18	1.618734E-19	4.290561E-19
MeanRelHumid	8.804006E-19	2.72692E-17	3.609049E-17	3.177745E-17	2.657219E-17	2.07649E-18	5.558597E-18
logPrecipHeight	-2.79201E-21	1.338127E-20	-6.98563E-20	-3.10123E-20	1.827989E-20	-4.69111E-20	7.231975E-21
PrecipForm	2.405197E-20	6.587572E-19	8.586409E-19	7.561789E-19	6.485229E-19	3.427308E-20	1.692322E-19
MeanPressure	1.063562E-17	3.270263E-16	4.378436E-16	3.838107E-16	3.184437E-16	2.817281E-17	6.531449E-17
logSnowDepth	1.281014E-20	2.895018E-19	4.314716E-19	3.714322E-19	2.760668E-19	3.396581E-20	7.963815E-20

Last Evaluation of the Negative of the Hessian						
	MeanCloudVapor	MeanRelHumid	logPrecipHeight	PrecipForm	MeanPressure	logSnowDepth
Intercept	6.760586E-20	8.804006E-19	-2.79201E-21	2.405197E-20	1.063562E-17	1.281014E-20
MinTemp	2.273589E-18	2.72692E-17	1.338127E-20	6.587572E-19	3.270263E-16	2.895018E-19
MaxTemp	2.97695E-18	3.609049E-17	-6.98563E-20	8.586409E-19	4.378436E-16	4.314716E-19
MeanTemp	2.63154E-18	3.177745E-17	-3.10123E-20	7.561789E-19	3.838107E-16	3.714322E-19
MinAirTemp	2.210783E-18	2.657219E-17	1.827989E-20	6.485229E-19	3.184437E-16	2.760668E-19
SunDuration	1.618734E-19	2.07649E-18	-4.69111E-20	3.427308E-20	2.817281E-17	3.396581E-20
MeanCloudCover	4.290561E-19	5.558597E-18	7.231975E-21	1.692322E-19	6.531449E-17	7.963815E-20
MeanCloudVapor	4.702589E-19	5.54763E-18	7.691115E-21	1.33281E-19	6.618719E-17	6.041182E-20
MeanRelHumid	5.54763E-18	7.243812E-17	-9.37153E-20	2.067524E-18	8.647938E-16	1.027011E-18
logPrecipHeight	7.691115E-21	-9.37153E-20	3.295955E-20	7.90602E-21	-2.73152E-18	-1.70665E-20
PrecipForm	1.33281E-19	2.067524E-18	7.90602E-21	1.330249E-19	2.372725E-17	3.246945E-20
MeanPressure	6.618719E-17	8.647938E-16	-2.73152E-18	2.372725E-17	1.044315E-14	1.254788E-17
logSnowDepth	6.041182E-20	1.027011E-18	-1.70665E-20	3.246945E-20	1.254788E-17	4.820562E-20

The Probit Procedure

WARNING: Iteration limit exceeded.

Analysis of Maximum Likelihood Parameter Estimates							
Parameter	DF	Estimate	Standard Error	95% Confidence Limits		Chi-Square	Pr > ChiSq
Intercept	1	-499.866	1.157E12	-2.27E12	2.268E12	0.00	1.0000
MinTemp	1	3.2420	1.968E10	-3.86E10	3.857E10	0.00	1.0000
MaxTemp	1	4.7949	1.345E10	-2.64E10	2.636E10	0.00	1.0000
MeanTemp	1	-1.6838	2.055E10	-4.03E10	4.027E10	0.00	1.0000
MinAirTemp	1	-4.1538	1.31E10	-2.57E10	2.568E10	0.00	1.0000
SunDuration	1	-21.2598	3.251E10	-6.37E10	6.371E10	0.00	1.0000
MeanCloudCover	1	-25.9020	3.286E10	-6.44E10	6.44E10	0.00	1.0000
MeanCloudVapor	1	-3.6955	2.738E10	-5.37E10	5.367E10	0.00	1.0000
MeanRelHumid	1	-0.6935	7.3222E9	-1.44E10	1.435E10	0.00	1.0000
logPrecipHeight	1	0.0939	2.509E10	-4.92E10	4.918E10	0.00	1.0000
PrecipForm	1	2.8291	8.3256E9	-1.63E10	1.632E10	0.00	1.0000
MeanPressure	1	0.6853	1.4235E9	-2.79E9	2.7901E9	0.00	1.0000
logSnowDepth	1	5.1611	1.448E10	-2.84E10	2.838E10	0.00	1.0000

The Probit Procedure

Iteration History for Parameter Estimates								
Iter	Ridge	Loglikelihood	Intercept	MeanCloudCover	SunDuration	MeanCloudVapor	MeanRelHumid	PrecipForm
0	0	-44.36142	0	0	0	0	0	0
1	0	-27.538351	-4.818636125	0.2805455602	0.2264393941	-0.097487782	0.0521368944	-0.191520165
2	0	-26.125777	-8.309662548	0.4499415064	0.3658376532	-0.150261526	0.0872650452	-0.286985894
3	0	-26.058882	-9.34584672	0.4964137498	0.4052458122	-0.165061929	0.0978831706	-0.313733574
4	0	-26.058621	-9.414285964	0.4995208509	0.4078386514	-0.166048916	0.0985871758	-0.315551529
5	0	-26.058621	-9.414570644	0.4995339657	0.407849397	-0.166053055	0.0985901073	-0.315559275
6	0	-26.058621	-9.414570644	0.4995339657	0.407849397	-0.166053055	0.0985901073	-0.315559275

Model Information	
Data Set	WORK.TEST2
Dependent Variable	Success
Number of Observations	64
Name of Distribution	Normal
Log Likelihood	-26.0586205

Number of Observations Read	64
Number of Observations Used	64

Class Level Information		
Name	Levels	Values
Success	2	accept reject

Parameter Information	
Parameter	Effect
Intercept	Intercept
MeanCloudCover	MeanCloudCover
SunDuration	SunDuration
MeanCloudVapor	MeanCloudVapor
MeanRelHumid	MeanRelHumid
PrecipForm	PrecipForm

Response Profile		
Ordered Value	Success	Total Frequency
1	accept	51
2	reject	13

The Probit Procedure

PROC PROBIT is modeling the probabilities of levels of Success having LOWER Ordered Values in the response profile table.

Last Evaluation of the Negative of the Gradient					
Intercept	MeanCloudCover	SunDuration	MeanCloudVapor	MeanRelHumid	PrecipForm
-4.429431E-9	-2.272541E-8	-2.621604E-8	-3.977125E-8	-3.498082E-7	-2.038977E-9

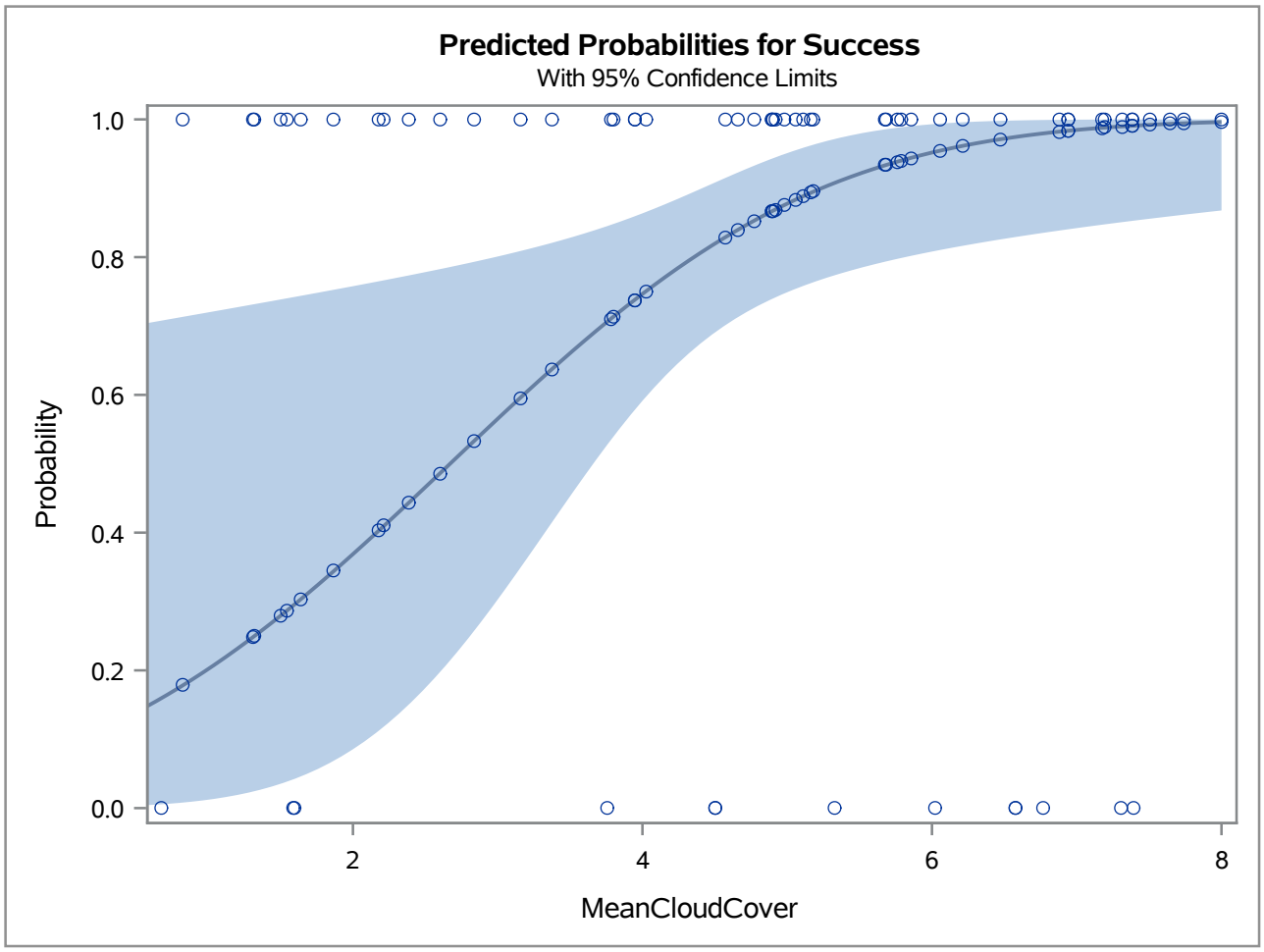
Last Evaluation of the Negative of the Hessian						
	Intercept	MeanCloudCover	SunDuration	MeanCloudVapor	MeanRelHumid	PrecipForm
Intercept	25.497398775	118.01064515	139.88429866	240.73603993	1933.9770423	28.066975275
MeanCloudCover	118.01064515	662.79093811	488.07441733	1128.9731993	9232.450806	190.67378651
SunDuration	139.88429866	488.07441733	1100.741358	1424.4232781	10049.716831	60.405924575
MeanCloudVapor	240.73603993	1128.9731993	1424.4232781	2742.0489512	18248.593929	193.02854061
MeanRelHumid	1933.9770423	9232.450806	10049.716831	18248.593929	148302.4417	2349.5906419
PrecipForm	28.066975275	190.67378651	60.405924575	193.02854061	2349.5906419	146.73856165

Algorithm converged.

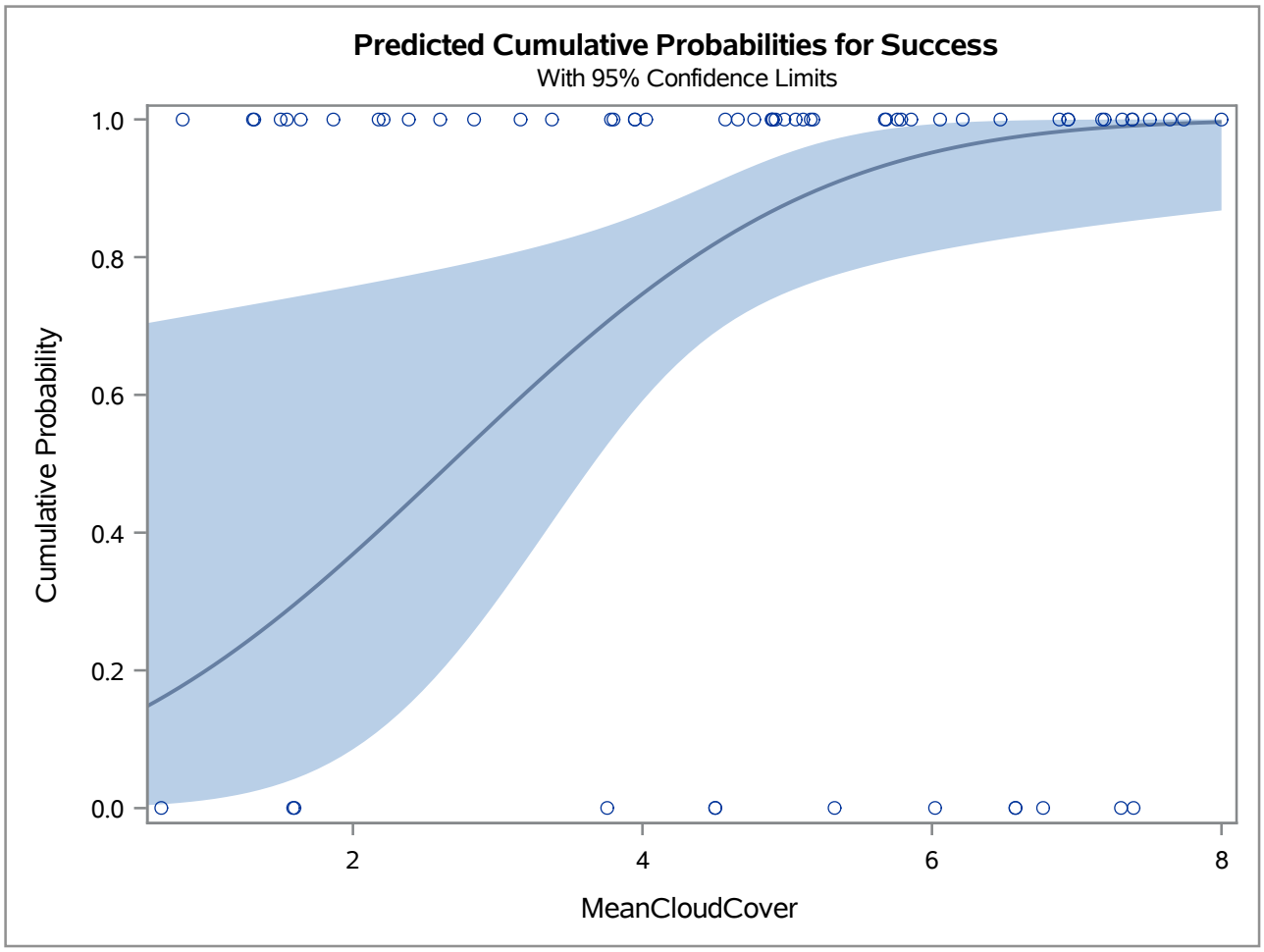
Type III Analysis of Effects			
Effect	DF	Wald Chi-Square	Pr > ChiSq
MeanCloudCover	1	5.7964	0.0161
SunDuration	1	7.6977	0.0055
MeanCloudVapor	1	6.0802	0.0137
MeanRelHumid	1	4.7985	0.0285
PrecipForm	1	5.6422	0.0175

Analysis of Maximum Likelihood Parameter Estimates							
Parameter	DF	Estimate	Standard Error	95% Confidence Limits		Chi-Square	Pr > ChiSq
Intercept	1	-9.4146	4.0401	-17.3329	-1.4962	5.43	0.0198
MeanCloudCover	1	0.4995	0.2075	0.0929	0.9062	5.80	0.0161
SunDuration	1	0.4078	0.1470	0.1197	0.6960	7.70	0.0055
MeanCloudVapor	1	-0.1661	0.0673	-0.2980	-0.0341	6.08	0.0137
MeanRelHumid	1	0.0986	0.0450	0.0104	0.1868	4.80	0.0285
PrecipForm	1	-0.3156	0.1328	-0.5759	-0.0552	5.64	0.0175

The Probit Procedure



The Probit Procedure



Obs	Success	Month	Day	Year	Country	DefCity	DefCountry
1	Failure	9	3	1939	United Kingdom	Wilhelmshaven	Germany
2	Failure	9	3	1939	United Kingdom	Wilhelmshaven	Germany
3	Failure	9	4	1939	United Kingdom	Wilhelmshaven	Germany
4	Failure	9	4	1939	United Kingdom	Wilhelmshaven	Germany
5	Success	12	18	1939	Germany	Wilhelmshaven	Germany
6	Success	5	15	1940	United Kingdom	Ruhr	Germany
7	Success	5	19	1940	France	Berlin	Germany
8	Success	6	7	1940	France	Berlin	Germany
9	Success	8	25	1940	United Kingdom	Berlin	Germany
10	Success	1	21	1941	Germany	Berlin	Germany
11	Success	3	31	1941	United Kingdom	Emden	Germany
12	Success	8	8	1941	Soviet Union	Berlin	Germany
13	Success	9	7	1941	United Kingdom	Berlin	Germany
14	Failure	11	7	1941	United Kingdom	Berlin	Germany
15	Success	12	7	1941	United Kingdom	Aachen	Germany
16	Success	3	8	1942	United Kingdom	Essen	Germany
17	Success	3	13	1942	United Kingdom	Cologne	Germany
18	Failure	3	25	1942	United Kingdom	Essen	Germany

Obs	Latitude	Longitude	Probability	Estimate	StdDev	Prediction
1	53.53234	8.106872	0.66446	0.42466	0.41394	Success
2	53.53234	8.106872	0.66446	0.42466	0.41394	Success
3	53.53234	8.106872	0.31551	-0.48028	0.55374	Failure
4	53.53234	8.106872	0.31551	-0.48028	0.55374	Failure
5	53.53234	8.106872	0.68564	0.48354	0.67246	Success
6	51.37315	7.629154	0.91003	1.34097	0.48852	Success
7	52.52001	13.40495	0.90865	1.33250	0.57347	Success
8	52.52001	13.40495	0.91855	1.39536	0.57306	Success
9	52.52001	13.40495	0.91912	1.39916	0.45529	Success
10	52.52001	13.40495	0.93082	1.48195	0.50165	Success
11	53.3594	7.20601	0.98835	2.26853	0.58282	Success
12	52.52001	13.40495	0.96204	1.77484	0.47742	Success
13	52.52001	13.40495	0.80623	0.86407	0.25721	Success
14	52.52001	13.40495	0.89578	1.25789	0.34229	Success
15	50.77535	6.083887	0.34183	-0.40746	0.71830	Failure
16	51.45564	7.011555	0.85692	1.06658	0.44016	Success
17	50.93753	6.960279	0.72024	0.58355	0.52008	Success
18	51.45564	7.011555	0.86409	1.09886	0.39849	Success

Obs	Success	Month	Day	Year	Country	DefCity	DefCountry
19	Success	3	28	1942	United Kingdom	Lubeck	Germany
20	Success	4	8	1942	United Kingdom	Hamburg	Germany
21	Failure	4	17	1942	United Kingdom	Augsburg	Germany
22	Success	4	23	1942	Germany	Norwich	Germany
23	Success	4	24	1942	United Kingdom	Rostock	Germany
24	Success	5	30	1942	United Kingdom	Cologne	Germany
25	Success	6	25	1942	United Kingdom	Bremen	Germany
26	Success	9	2	1942	United Kingdom	Karlsruhe	Germany
27	Failure	12	22	1942	United Kingdom	Frankfurt	Germany
28	Success	1	27	1943	United States	Wilhelmshaven	Germany
29	Success	3	5	1943	United Kingdom	Essen	Germany
30	Success	4	13	1943	United States	Bremen	Germany
31	Success	5	17	1943	United Kingdom	Dortmund	Germany
32	Success	6	11	1943	United Kingdom	Munster	Germany
33	Success	6	13	1943	Germany	Bremen	Germany
34	Failure	6	26	1943	United States	Regensburg	Germany
35	Success	6	20	1943	United Kingdom	Friedrichshaf	Germany
36	Success	7	19	1943	United States	Rome	Germany

Obs	Latitude	Longitude	Probability	Estimate	StdDev	Prediction
19	53.86547	10.68656	0.95162	1.66080	0.51097	Success
20	53.55108	9.993682	0.90850	1.33157	0.30687	Success
21	48.37054	10.89779	0.78455	0.78766	0.44774	Success
22	52.63089	12.97355	0.84642	1.02121	0.40782	Success
23	54.09244	12.09915	0.98061	2.06652	0.57156	Success
24	50.93753	6.960279	0.94796	1.62535	0.38928	Success
25	53.0793	8.801694	0.76329	0.71692	0.35597	Success
26	49.00689	8.403653	0.67672	0.45856	0.41983	Success
27	50.11092	8.682127	0.64300	0.36648	0.44838	Success
28	53.53234	8.106872	0.97497	1.95939	0.61905	Success
29	51.45564	7.011555	0.50462	0.01157	0.46607	Success
30	53.0793	8.801694	0.96471	1.80818	0.45005	Success
31	51.51359	7.465298	0.92300	1.42555	0.47555	Success
32	51.96066	7.626135	0.97511	1.96178	0.57298	Success
33	53.0793	8.801694	0.95582	1.70413	0.45272	Success
34	49.01343	12.10162	0.70577	0.54106	0.34080	Success
35	47.66176	9.480011	0.91981	1.40382	0.56678	Success
36	52.51579	13.39408	0.88547	1.20276	0.44377	Success

Obs	Success	Month	Day	Year	Country	DefCity	DefCountry
37	Success	7	24	1943	United States	Hamburg	Germany
38	Success	8	17	1943	United Kingdom	Greifswald	Germany
39	Success	8	18	1943	Germany	Hamburg	Germany
40	Failure	10	10	1943	United States	Munster	Germany
41	Failure	10	14	1943	United States	Schweinfurt	Germany
42	Success	11	1	1943	United States	Berlin	Germany
43	Success	11	3	1943	United States	Wilhelmshaven	Germany
44	Success	11	18	1943	United Kingdom	Berlin	Germany
45	Success	11	22	1943	United Kingdom	Berlin	Germany
46	Failure	2	19	1944	United Kingdom	Leipzig	Germany
47	Success	2	20	1944	United States	Schweinfurt	Germany
48	Success	3	6	1944	United States	Berlin	Germany
49	Failure	3	1	1944	United Kingdom	Berlin	Germany
50	Success	7	23	1944	United Kingdom	Kiel	Germany
51	Success	7	26	1944	Germany	Berlin	Germany
52	Success	7	28	1944	Germany	Merseburg	Germany
53	Success	8	27	1944	United Kingdom	Hamburg	Germany
54	Success	2	3	1945	United States	Berlin	Germany

Obs	Latitude	Longitude	Probability	Estimate	StdDev	Prediction
37	53.55108	9.993682	0.92460	1.43673	0.47002	Success
38	54.08655	13.39234	0.91183	1.35208	0.44909	Success
39	53.55108	9.993682	0.72070	0.58491	0.35337	Success
40	51.96066	7.626135	0.73301	0.62193	0.58412	Success
41	50.0492	10.21942	0.75454	0.68885	0.37550	Success
42	52.52001	13.40495	0.35030	-0.38452	0.56895	Failure
43	53.53234	8.106872	0.95084	1.65304	0.55525	Success
44	52.52001	13.40495	0.99505	2.57909	0.71567	Success
45	52.52001	13.40495	0.99427	2.52842	0.77995	Success
46	51.3397	12.37307	0.65689	0.40400	0.60228	Success
47	50.0492	10.21942	0.94378	1.58728	0.48219	Success
48	52.52001	13.40495	0.71707	0.57416	0.63428	Success
49	52.52001	13.40495	0.55073	0.12751	0.60744	Success
50	54.32329	10.12277	0.99267	2.44086	0.75632	Success
51	52.52001	13.40495	0.66819	0.43492	0.40354	Success
52	51.35633	11.99175	0.66964	0.43893	0.38842	Success
53	53.55108	9.993682	0.60805	0.27423	0.57488	Success
54	52.52001	13.40495	0.86508	1.10345	0.34971	Success

Obs	Success	Month	Day	Year	Country	DefCity	DefCountry
55	Success	2	13	1945	United Kingdom	Dresden	Germany
56	Success	3	12	1945	United Kingdom	Dortmund	Germany
57	Success	3	14	1945	United Kingdom	Bielefeld	Germany
58	Success	2	1	1945	United Kingdom	Heildeshime	Germany
59	Success	3	17	1945	Germany	Remagen	Germany
60	Success	3	18	1945	Germany	Berlin	Germany
61	Success	3	22	1945	United States	Oppenheim	Germany
62	Success	5	2	1945	United Kingdom	Kiel	Germany
63	Success	5	3	1945	United Kingdom	Lubeck	Germany
64	Success	5	7	1945	United States	Berlin	Germany

Obs	Latitude	Longitude	Probability	Estimate	StdDev	Prediction
55	51.05041	13.73726	0.94305	1.58089	0.44191	Success
56	51.51359	7.465298	0.87035	1.12807	0.51857	Success
57	52.03023	8.532471	0.84052	0.99660	0.44295	Success
58	52.15478	9.957965	0.96110	1.76357	0.58066	Success
59	50.57328	7.238553	0.74208	0.64978	0.43530	Success
60	52.52001	13.40495	0.90511	1.31123	0.39366	Success
61	49.85192	8.360274	0.46521	-0.08732	0.49656	Failure
62	54.32329	10.12277	0.92493	1.43906	0.39278	Success
63	53.86547	10.68656	0.56680	0.16822	0.36895	Success
64	52.52001	13.40495	0.97428	1.94776	0.52222	Success