

The period was considered fixed from the early observations. Observation equations were built up in the usual way for the other elements and a solution effected. Corresponding to the normal places at the intersections of the curves an observation equation, suitably weighted, was formed for both primary and secondary. Making the substitutions,

$$x = \delta\gamma$$

$$y = \delta K$$

$$y_1 = \delta K_1$$

$$z = 100 \delta e$$

$$u = 100 \delta \omega$$

$$v = [1.83000] \delta T$$

the following observation equations resulted. Owing to the similarity of coefficients for ω and T , it was found necessary to consider T as fixed.

OBSERVATION EQUATIONS OF BOSS 5173

No.	x	y	y_1	z	u	$-n$	Weight
1.....	1.000	-0.851	.....	-0.769	-0.447	-5.50=0	.3
2.....	1.000	-0.983	.....	-0.514	-0.207	+2.20	.1
3.....	1.000	-1.008	.....	-0.096	+0.022	0.00	.3
4.....	1.000	-0.879	.....	+0.536	+0.351	+2.30	.2
5.....	1.000	-0.064	.....	+0.270	+0.733	-11.00	.1
6.....	1.000	+0.765	.....	-0.761	+0.457	-7.50	.15
7.....	1.000	+0.970	.....	-0.472	+0.123	-4.60	.2
8.....	1.000	+0.973	.....	+0.080	-0.170	+0.50	.2
9.....	1.000	+0.819	.....	+0.621	-0.460	-4.80	.25
10.....	1.000	-0.161	.....	-0.028	-0.791	-15.30	.15
11.....	1.000	.....	+0.852	+0.865	+0.501	+0.60	.2
12.....	1.000	.....	+0.975	+0.620	+0.259	+4.00	.1
13.....	1.000	.....	+1.006	+0.096	-0.048	+1.40	.15
14.....	1.000	.....	+0.907	-0.524	-0.348	+5.80	.15
15.....	1.000	.....	+0.064	-0.304	-0.831	-0.40	.05
16.....	1.000	.....	-0.770	+0.857	-0.508	+5.80	.15
17.....	1.000	.....	-0.973	+0.508	-0.124	+2.90	.1
18.....	1.000	-0.978	-0.036	+0.164	-1.00	.1
19.....	1.000	-0.801	-0.732	+0.541	-0.30	.2
20.....	1.000	+0.161	+0.032	+0.890	+11.10	.1

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