

SURPAC Ver 5.35 for Windows XP/Vista/7 - Level Observation File Editing

File General Conversions Least Squares Topographical Engineering Mining Cadastral Help

Actions

- Open a File
- Print File
- Download Data
- Import ASCII
- Merge a File
- Add Data
- Insert Data
- Delete Data
- Copy Data
- Paste Data
- Find Item
- Find Next
- Replace Item

Edit	Point Name	Left Back Sight	Left Fore Sight	Left Rise/Fall	Right Back Sight	Right Fore Sight	Right Rise/Fall	Mean Rise/Fall	Diff. Left/Right
B/S	53 M7	1.4975			4.4604				
F/S	1		1.8730	-0.3755		4.8359	-0.3755	-0.3755	0.0000
24	15	2.0657	1.7877	-0.3189	5.0279	4.7502	-0.3189	-0.3189	0.0000
25	KIM 37	1.4575	0.6157	1.4500	4.4193	3.5779	1.4500	1.4500	0.0000
26	16	2.2614	0.3897	1.0678	5.2264	3.3524	1.0669	1.0674	-0.0009
27	I-KIM 38		1.0162	1.2452		3.9787	1.2477	1.2465	0.0025
28	17	1.0476	2.3521	-0.0907	4.0104	5.3163	-0.0899	-0.0903	0.0008
29	18	1.0065	2.5217	-1.4741	3.9691	5.4851	-1.4747	-1.4744	-0.0006
30	I-KIM 7		0.5891	0.4174		3.5514	0.4177	0.4175	0.0003
31	19	1.1723	2.2959	-1.2894	4.1357	5.2572	-1.2881	-1.2888	0.0013
32	20	1.5408	2.1208	-0.9485	4.5033	5.0826	-0.9469	-0.9477	0.0016
33	21	0.3766	2.3870	-0.8462	3.3383	5.3483	-0.8450	-0.8456	0.0012
34	22	0.3216	2.8109	-2.4343	3.2841	5.7726	-2.4343	-2.4343	0.0000
35	KIM 8	1.7270	2.1722	-1.8506	4.6902	5.1339	-1.8498	-1.8502	0.0008
36	23	1.3176	1.1102	0.6168	4.2809	4.0727	0.6175	0.6171	0.0007
37	BEACON	0.3015	1.9851	-0.6675	3.2630	4.9478	-0.6669	-0.6672	0.0006
38	24	1.3692	2.8279	-2.5264	4.3327	5.7892	-2.5262	-2.5263	0.0002
39	25	2.3567	0.8480	0.5212	5.3201	3.8110	0.5217	0.5214	0.0005
40	26	2.1105	0.1088	2.2479	5.0727	3.0734	2.2467	2.2473	-0.0012
41	27	0.3576	2.1143	-0.0038	3.3191	5.0777	-0.0050	-0.0044	-0.0012
42	28	0.6771	2.8883	-2.5307	3.6395	5.8498	-2.5307	-2.5307	0.0000
43	29	1.0851	2.2965	-1.6194	4.0481	5.2591	-1.6196	-1.6195	-0.0002
44	30	1.5720	1.6277	-0.5426	4.5347	4.5896	-0.5415	-0.5421	0.0011
45	31	1.5933	1.5568	0.0152	4.5558	4.5186	0.0161	0.0156	0.0009
46	32	1.5584	1.5564	0.0369	4.5213	4.5182	0.0376	0.0372	0.0007
47	TP	1.5102	1.5368	0.0216	4.4729	4.4992	0.0221	0.0219	0.0005
48	33	1.6142	1.5720	-0.0618	4.5773	4.5353	-0.0624	-0.0621	-0.0006
49	34	1.8430	1.3301	0.2841	4.8056	4.2923	0.2850	0.2846	0.0009
50	35	1.4980	1.2971	0.5459	4.4608	4.2592	0.5464	0.5462	0.0005
51	36	1.8322	1.4571	0.0409	4.7949	4.4203	0.0405	0.0407	-0.0004
52	37	1.4665	1.8610	-0.0288	4.4292	4.8230	-0.0281	-0.0285	0.0007
53	38	1.4976	1.8383	-0.3718	4.4607	4.8022	-0.3730	-0.3724	-0.0012
54	39	1.4772	1.3724	0.1252	4.4405	4.3357	0.1250	0.1251	-0.0002
55	40	1.6909	1.4843	-0.0071	4.6531	4.4473	-0.0068	-0.0070	0.0003
56	41	1.5723	1.8269	-0.1360	4.5355	4.7886	-0.1355	-0.1357	0.0005
57	42	1.4245	1.6006	-0.0283	4.3873	4.5631	-0.0276	-0.0280	0.0007
58	43	2.0941	1.4904	-0.0659	5.0571	4.4528	-0.0655	-0.0657	0.0004
59	44	1.8579	0.8424	1.2517	4.8218	3.8058	1.2513	1.2515	-0.0004
60	KIM 12	0.1790	0.4324	1.4255	3.1412	3.3956	1.4262	1.4258	0.0007
61	45	0.8607	2.6457	-2.4667	3.8238	5.6079	-2.4667	-2.4667	0.0000
62	46	1.5491	1.8588	-0.9981	4.5119	4.8217	-0.9979	-0.9980	0.0002

Current File Printed Pages

Pg: 118

SURPAC Calculator

0.

Dms Dec TT CE AC

Sin Cos Tan MR MC

Asn Acs Atn M+ M-

√ x² 1/x x^y S E

Join Polar X, Y X! Y N

Inst FV PV Rate RS ?

7 8 9 ← ↵

4 5 6 X ÷

1 2 3 + -

0 . = ←





Co-ordinate File = C:\Surpac98\Samples\General\_test\_file Level Observation File = Kimberley Mines Precise Levels 09:46:11 06-05-2010

Level Observation File showing a set of Precise Levelling Left and Right Observed values



## Level Observation File Loading/Editing

- This programme Loads and/or Edits Level Observation Files, which are used for input Data in the Level Network Least Squares Adjustment Programme.
- Level Observation File Data are required to be in the format : -
  - Point Name
  - Left Back Sight
  - Left Fore Sight
  - Right Back Site (Optional, only used for precision Levelling)
  - Right Fore Site (Optional, only used for precision Levelling)

- The Point Description Code is a simple value, 1 through 9, which allows the selected application to identify the function of each Data Line
- The Point Name is used to differentiate between Fore Sight, and an Intermediate Sight. If the first two characters of a Point Name are "I-", then the sight is considered to be an Intermediate Site.
- Data input into a Level Observation File is by either :-
  - Direct Downloading from a Total Station or an Electronic Logger,
    - The currently supported Total Stations and/or Electronic Loggers are :-
      -  *The Psion Organiser using the "Handi-Data Solutions Levels" ASCII File,*
      -  *The Psion Workabout, using the "Handi-Data Solutions Levels" ASCII File,*
      -  *The Leica/Wild GIF 10 Digital Level*
      -  *The Sokkia SDL Power Level*
  - Downloading from a variety of ASCII file formats,
  - Copying from the Windows Clipboard,
  - by Manual Data entry.
- Once an Observation File has been generated, various editing/printing functions are available, such as :-
  - Manually modifying, or Deleting, Data Lines,
  - Using the Windows "Cut and Paste" to move blocks of Data around the File,
  - Manually Adding or Inserting new Data Lines,
  - Printing the Observation File in "Field Book" format,
  - Creating an ASCII file of the Data,
  - Sending the Data to the Windows Clipboard.