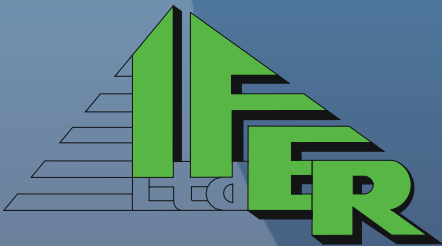


Firebird Desktop



IFER - Monitoring and Mapping Solutions Ltd.

<http://www.field-map.com>

Firebird Viewer => Firebird Desktop

- Originally introduced on the last Field-Map conference, however, it underwent significant evolution
- Tool to browse data tables
- Tool to prepare and run SQL queries and inspect the results

Firebird Desktop

- Filed-Map independent
- Enables creating, deleting and altering tables
- Requires SQL knowledge
- Requires Filed-Map knowledge

Browsing data tables - enhancement

C:\FMDData\ExampleProject_X6\FIELDMAPDATA_EXAMPLEPROJECT_X6.FDB

Tables Queries

List of all tables

- DEADWOOD
- DEADWOOD_DIAMETERS
- DEM
- GPSREFERENCEPOINTS
- JBREAK
- JCONDAMAGEAGE
- JCONMECHANICALDAMAGE
- JCONORIGIN
- JCONPEELING
- JDAMAGETYPE
- JDEADTREE
- JFORK
- JHEIGHTCLASSES
- JSPECIES
- JTYPESTONES
- JYESNO
- LINES
- PLOTS
- POINTS
- POLYG
- REFERENCEPOINTS
- REGDAMAGE
- REGHEIGHTCLASSES
- REGPOINTS
- REGSPECIES
- SPECIES
- STONES
- STONES_LINE
- SYSTAB_DELETEDRECORDSLOG
- SYSTAB_JOURNAL
- SYSTAB_MEASUREMENTLOG
- SYSTAB_OLDCHANGESLOG
- SYSTAB_SYNCHROLOG
- TRANSECT
- TREES
- TREESTEST
- TREES_CROWNPROFILEPOINTS
- TREES_CROWNPROFILES
- TREES_CROWNPROJECTIONS
- TREES_DBHBUFFER
- TREES_STEMPROFILE
- YESNO

Selected tables

TREES TREESTEST TREES_CROWNPROFILEPOINTS TREES_CROWNPROFILES TREES_CROWNPROJECTIONS

SCANT_ANGLE_DEG	STEM_VOLUME_M3	CROWNPROJ_AREA_M2	CROWN_VOLUME_M3	CROWN_SURFACE_M2	DBH_MM	HEIGHT_M	CROWNBASE_M	DEADCRBASE_M	TREE_LENGTH_M	CROWN_LENGTH
7,4003061	118,916	2248,256	734,127	745	33,555	10,258			33,555	23,2
0,8473094				700					4,357	
5,6481422	63,161	832,389	480,836	607	39,851	15,01			39,851	24,8
0,0145167	27,458	72,976	89,185	81	7,414	1,389	0,675		7,414	6,0
0,1079882	54,28	244,231	232,169	174	10,03	2,188			10,03	7,8
0,0229389	33,671	107,676	103,053	101	9,732	3,792	0,852		9,732	5,
2,9411834				928					8,473	
7,7484159	158,081	1191,468	563,111	741	35,544	17,679			35,544	17,8
8,9530247	128,752	1587,314	675,558	747	40,391	13,333			40,391	27,0
0,0125236	27,341	79,043	94,405	77	7,49	0,454	0,185		7,49	7,0
6,4700284	119,394	919,084	423,879	703	33,186	15,549			33,186	17,6
2,8503503	228,692	1630,56	708,99	509	29,141	9,582			29,141	19,5
0,0673555	53,438	122,905	140,576	144	9,203	2,768	1,361		9,203	6,4
2,6738505		547,384	306,642	650	29,175	11,409			29,175	17,7
1,6616328	123,606	853,579	459,841	421	25,343	8,319			25,343	17,0
3,816036	77,057	407,809	292,156	537	34,977	24,234			34,977	10,7
0,0514658	51,312	124,528	142,83	124	9,604	2,409			9,604	7,1
13,46711	214,645	3468,863	1213,679	919	39,566	14,145			39,566	25,4
0,0225506	18,155	50,043	72,643	101	9,619	1,558			9,619	8,0
18,1563127	316,789	8132,693	2028,78	1053	41,268	8,82			41,268	32,4
0,0433799	41,805	128,27	138,933	113	9,875	1,601			9,875	8,2
9,2427096	250,02	2744,836	975,406	810	35,15	11,274			35,15	23,8
0,0182942	20,431	74,304	93,456	96	9,163	2,557			9,163	6,6
1,8505917				952					5,061	
0,0169276	6,105	19,599	39,809	95	8,873	2,648			8,873	6,2
6,5809049	100,066	999,948	512,044	661	38,585	20,006			38,585	18,5
0,0109513	16,774	32,419	48,605	106	7,812	1,495			7,812	6,3
7,8684524	160,574	2184,924	852,179	729	37,379	6,439			37,379	30,
4,0915289	44,219	468,949	331,158	535	37,913	17,495			37,913	20,4
0,0619873	35,831	115,894	129,842	143	10,855	2,648			10,855	8,2
0,0126662	9,277	39,903	59,494	94	9,148	1,967			9,148	7,1
0,0314612	26,071	101,61	112,706	108	10,754	2,544			10,754	8,
0,006542	12,063	31,567	48,53	93	7,135	1,681			7,135	5,4
5,6963759	95,636	887,494	528,128	675	31,855	16,215			31,855	15,
5,5829287	217,994	1490,352	674,233	653	33,537	18,146			33,537	15,3

237 record(s)

Refresh table list

Import table Drop table

SQL queries - enhancement

The screenshot shows a database management software window with the following components:

- Queries List:** A tree view on the left containing 'SelectFromTrees_Species', 'SelectFromTrees', 'Update', 'UpdateDBH', 'UpdateDBH_null', 'Create', and 'CreateTable'. A green box highlights this list with the text 'List of queries'.
- SQL Query:** A text area containing the following SQL query:

```
SELECT Trees.IDPlots, Trees.ID, jSpecies.Value1 as Species, Trees.DBH_mm, Trees.Height_m  
FROM Trees  
JOIN jSpecies  
ON Trees.Species=jSpecies.ID  
WHERE IDPlots=1
```

 A green box highlights this query with the text 'SQL query'.
- Query Result:** A table displaying the results of the query. A green box highlights the table with the text 'Query result'. The table has the following columns: IDPLOTS, ID, SPECIES, DBH_MM, and HEIGHT_M. The data shows 20 records for IDPLOTS=1, all of which are 'Fagus silvatica'.
- Status Bar:** At the bottom, a red box highlights the text '205 record(s)'. To the right are navigation buttons (back, forward, search, etc.) and buttons for 'Export to Excel' and 'Save to table'.

IDPLOTS	ID	SPECIES	DBH_MM	HEIGHT_M
1	1	Fagus silvatica	97	8,904
1	2	Fagus silvatica	125	10,864
1	3	Fagus silvatica	103	8,299
1	4	Fagus silvatica	96	8,673
1	5	Fagus silvatica	146	12,852
1	6	Fagus silvatica	120	10,799
1	7	Fagus silvatica	191	11,046
1	8	Fagus silvatica	186	11,626
1	9	Fagus silvatica	70	11,323
1	10	Fagus silvatica	122	12,019
1	11	Fagus silvatica	119	10,801
1	12	Fagus silvatica	245	12,729
1	13	Fagus silvatica	103	10,746
1	14	Fagus silvatica	85	13,027
1	15	Fagus silvatica	255	17,584
1	16	Fagus silvatica	116	13,715
1	17	Fagus silvatica	148	14,314
1	18	Fagus silvatica	158	14,148
1	19	Fagus silvatica	106	10,748
1	20	Fagus silvatica	81	10,551

SQL queries - enhancement

- List of tables and attributes available when defining SQL (simply by pressing right mouse button)
- Possibility to save the query result to Excel or as a new table into the database
- Possibility to define regression charts

Thank you for your attention

