

SLOVAK ACADEMY OF SCIENCES

Geophysical Institute

**Yearbook**

**of radiation and meteorological measurements**

**2010**

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**OBSERVATORIES:**

**SKALNATÉ PLESO:**     $\phi = 49^\circ 11' \text{ N}$ ,     $\lambda = 20^\circ 14' \text{ E}$ ,    H = 1778 m a.s.l.  
**STARÁ LESNÁ:**         $\phi = 49^\circ 09' \text{ N}$ ,     $\lambda = 20^\circ 17' \text{ E}$ ,    H = 810 m a.s.l.



GEOPHYSICAL INSTITUTE  
OF THE SLOVAK ACADEMY OF SCIENCES

Department of Atmospheric Physics

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## INTRODUCTION

The meteorological observatories (MO) of the Geophysical Institute of the Slovak Academy of Sciences are characterized as follows:

- MO Skalnaté Pleso represents a slope station in the south side of the High Tatras
- MO Stará Lesná represents a valley position of the Poprad-hollow.

The panorama of the horizon of these observatories is shown in Fig. 1 and Fig. 2.

The year-book contains tables of daily and monthly sums of radiation elements

- *global radiation*
- *diffuse radiation*
- *global UV-B radiation*
- *back atmospheric radiation*
- *long-wave radiation balance*
- *radiation balance*
- *sunshine duration*

and tables of daily and monthly averages of

- *air temperature*
- *relative air humidity*
- *atmospheric pressure*
- *soil temperature at 2 cm depth*
- *soil temperature at 20 cm depth.*

Notice: There are three values in the tables:

- without brackets if all 24 hour values were valid;
- with brackets if the number of the valid hour values was greater or equal 16;
- without value if the number of valid hour values was less than 16.

Measurements and recording of radiation fluxes, air temperature, relative air humidity, atmospheric pressure, and soil temperatures were realized by the central measurement data system ESM 200. The 10 minute scanning interval of the local time is used for each sensor. These data are stored in the central measurement station. The hourly averages, each calculated from 6 instant values, are loaded on magnetic medium.

The global and diffuse radiation is measured by pyranometer with galvanic thermels.

The global UV-B radiation is measured by the UV- biometer Solar Light, model 501A at the station Skalnaté Pleso. The relative spectral sensitivity of the instrument is close to the Erythema Action Spectrum (CIE, 1987). At the station Stará Lesná, the global UV-B radiation is measured by the UV-biometer, manufactured by the Yankee Environmental Systems, INC. The spectral response is similar to the Erythemal action spectrum (CIE, 1987). Stability of both UV- biometers is checked every year by their comparison with the Slovak national standard instrument for the broadband UV-biometers (UV- biometer Solar Light, model 501) under clear sky-condition by solar zenith angles lower than 50°.

For the measurement of long-wave radiation fluxes and radiation balance the Schulze balance meters are used. Subsequently, the radiation balance, downward atmospheric radiation and long-wave radiation balance are calculated.

The calibrations of pyranometers and radiation balance meters in short-wave spectral range are performed by the Sun-shade method with help of the Linke-Feussner actinometer as a standard instrument. This actinometer is calibrated against the Slovak national standard instrument - the Angström pyrheliometer held by the Slovak Hydrometeorological Institute.

The sunshine duration is measured by the Campbell-Stokes heliograph with green tape. The method utilized in the Slovak Hydrometeorological Institute is used by evaluation of the tapes.

The air temperature and relative air humidity are measured with sheltered electronic thermometer and hygrometer, respectively at 2 m level above the surface. For air temperature the Kroneis NTC sensor, YSI 44212 type is used. The relative air humidity is measured by the Vaisala sensor, MHP35D type.

The air pressure measurements are carried out with an electronic barometer in the building of the MO.

For the soil temperature measurements the thermal probes with platinum resistance thermometers Pt 100 are used.

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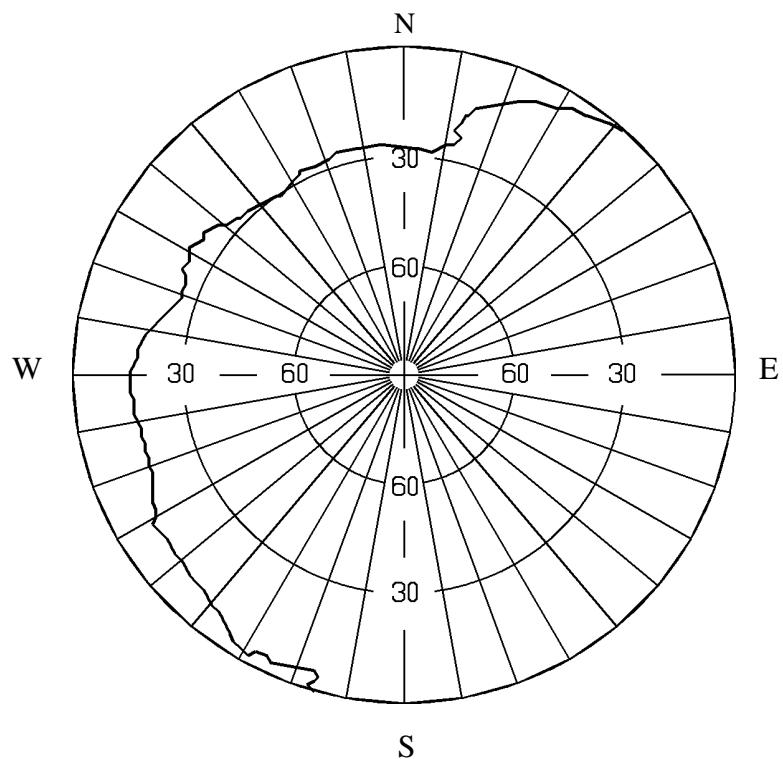


Fig. 1. Panorama of the horizon of Skalnaté Pleso

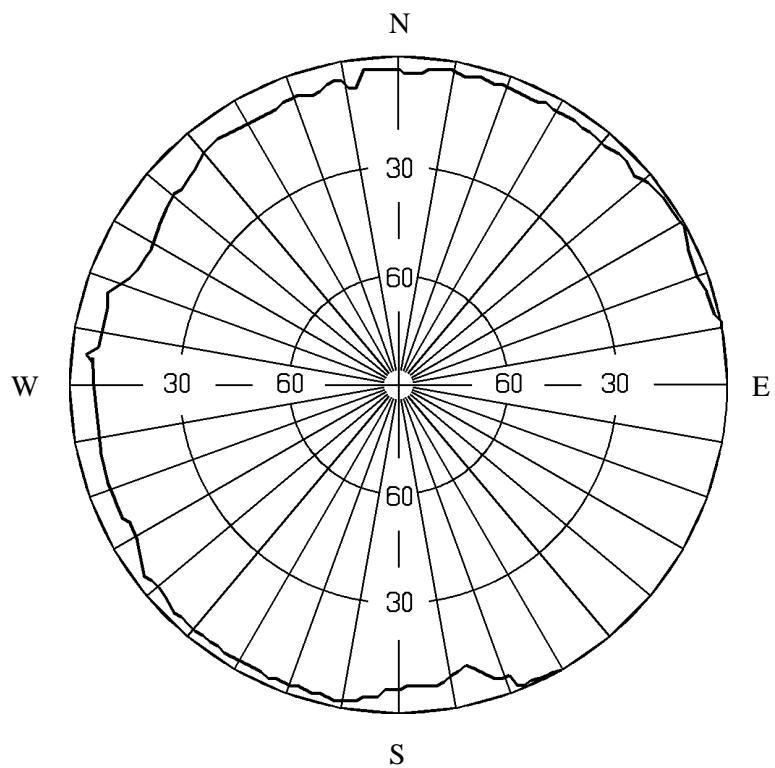


Fig. 2. Panorama of the horizon of Stará Lesná

## Skalnaté Pleso

Daily and monthly sums of global radiation [J/cm<sup>2</sup>]

Year 2010

	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	284	669	1347	1254	996	230	1409	1113	250	425	903	
2	359	617	854	889	544	1079	1481	1789	2292	254	885	363
3	200	483	1016	1673	299	1146	2385	2444	893	1448	499	81
4	578	925	823	1379	1237	617	2556	646	658	793	552	513
5	715	437	1108	330	529	2043	1255	1399	1027	230	489	544
6	197	733	1010	1582	448	2296	1667	1470	487	1499	723	446
7	236	371	685	700	436	2203	1445	2209	580	1468	387	223
8	62	892	1296	1514	708	1226	2518	555	451	1420	305	223
9	117	721	1593	1352	479	2666	3011	(433)	525	1425	890	82
10	294	847	1445	1331	1246	2818	3004	1006	542	1324	416	447
11	423	537	714	754	999	3018	2257	1632	565	1338	343	324
12	266	523	762	506	977	2792	2263	1869	1864	1320	396	233
13	697	241	938	597	678	1597	1890	1678	838	1292	602	345
14	311	774	945	621	1009	842	1930	2338	662	1237	730	522
15	607	577	1354	1476	1147	2871	1590	845	1009	449	737	570
16	489	678	1502	1179	364	575	1625	1286	612	313	439	702
17	524	295	1439	2342	988	2275	(1445)	1461	336	370	517	687
18	286	1031	1805	2397	1491	1368		698	516	487		267
19	296	1097	1547	837	894	333		971	448	655		526
20	280	395	1629	2525	1112	947	1478	1728	795	323		405
21	920	816	1013	1729	1658	376	1944	1552	1795	456		588
22	294	970	1408	2405	2028	468	1481	1873	660	1141		103
23	790	1215	1413	2271	1552	3013	1516	2258	1536	1073		339
24	762	1045	1334	2100	1348	1670	1391	611	1745	593		122
25	617	494	1528	2576	1528	1021	358	1002	958	54		108
26	715	545	947	1077	771	1247	653	1513	1277	238		222
27	597	496	732	1386	846	2984	706	1020	1209	674	237	250
28	344	954	782	1924	1278	1624	665	599	670	1027	356	255
29	489		1410	2535	708	2920	1111	981	438	982	233	345
30	334		1143	2639	1502	1841	719	596	346	1008	662	295
31	339		446		439		1095	337		1016		421
Sum	13420	19378	35971	45880	30240	50108	(46848)	(39913)	25984	26331	(11302)	(10552)

## Skalnaté Pleso

Daily and monthly sums of diffuse radiation [J/cm<sup>2</sup>]

Year 2010

	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	255	485	296	525	795	219	609	722	209	385	363	
2	269	344	628	645	473	874	829	841	1269	230	394	26
3	191	409	644	880	272	618	785	557	760	399	370	81
4	114	135	620	766	827	534	908	567	574	516	364	152
5	217	284	517	304	458	1121	938	652	847	206	330	121
6	194	278	647	1106	331	658	702	788	(376)	117	237	259
7	231	311	595	629	389	421	1202	701	416	123	329	188
8	59	465	856	977	577	805	678	417	405	105	271	188
9	114	600	229	708	419	700	265	(348)	377	114	389	55
10	240	444	478	755	775	608	191	709	470	221	320	301
11	309	482	628	661	733	523	751	804	497	114	287	304
12	184	494	639	452	602	546	663	689	510	120	258	220
13	373	232	750	503	596	1110	844	620	458	132	174	298
14	277	601	850	453	821	620	784	594	533	137	89	508
15	283	514	1041	947	833	575	797	604	606	357	127	545
16	360	484	1098	929	338	513	893	524	474	295	370	663
17	276	278	953	756	791	762	(649)	643	301	309	262	619
18	274	378	811	631	1114	733		541	426	453		186
19	265	390	648	731	776	310		602	381	410		462
20	264	344	535	863	898	801	763	520	532	295		387
21	339	574	740	834	836	346	691	683	231	327		535
22	275	594	764	768	953	435	694	367	483	131		89
23	151	251	779	577	814	390	647	204	347	288		286
24	137	559	699	703	841	780	809	501	137	245		107
25	302	450	807	357	728	778	333	778	617	51		104
26	254	405	509	633	547	995	584	720	95	227		213
27	258	439	529	769	655	417	633	736	369	453	214	237
28	329	456	499	677	912	902	597	515	508	168	275	238
29	450		671	623	557	347	834	734	224	114	225	227
30	324		844	337	938	692	567	404	291	129	156	249
31	328		402		403		735	302		115		163
Sum	7893	11677	20704	20500	21003	19131	(20375)	(18386)	(13724)	7285	(5805)	(8012)

## Skalnaté Pleso

Daily and monthly sums of global UVB radiation [mJ/cm<sup>2</sup>]

Year 2010

	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	19	32	114	149	164	44	211	181	55	51	68	
2	18	32	78	104	90	178	224	274	317	55	69	33
3	12	26	75	145	57	170	410	399	163	157	47	33
4	23	46	63	163	198	143	425	117	115	91	53	28
5	25	41	70	49	89	308	222	225	175	34	53	26
6	15	43	71	165	70	394	262	209	73	165	60	31
7	20	37	69	87	68	391	272	302	69	158	38	19
8	4	47	86	183	89	195	395	80	94	145	26	19
9	10	52	119	162	75	447	501	(59)	98	137	69	9
10	18	71	116	146	174	487	545	141	97	137	35	22
11	20	56	87	84	145	515	418	251	106	144	25	22
12	18	53	116	60	143	484	405	316	286	143	30	17
13	26	30	90	61	115	286	325	341	124	135	50	18
14	19	74	87	88	239	146	310	355	107	137	54	21
15	26	65	112	201	181	558	292	117	178	57	52	21
16	25	79	139	177	75	135	323	196	108	43	37	21
17	27	44	136	290	191	384	(257)	200	54	51	35	22
18	20	106	160	318	275	202		117	81	58		17
19	21	102	180	148	173	70		140	65	73		21
20	24	53	201	312	191	201	274	293	105	37		24
21	35	73	147	232	283	70	324	293	216	41		26
22	21	79	186	283	317	95	209	355	75	98		12
23	45	87	164	277	277	535	240	408	211	88		25
24	42	78	179	297	233	270	239	121	248	57		
25	34	46	194	374	243	200	72	192	143	7		9
26	36	41	138	158	126	232	108	279	20	27		16
27	34	50	85	239	143	478	126	219	57	52	24	16
28	24	89	64	268	214	310	119	103	108	86	32	13
29	35		162	355	97	499	171	123	29	79	21	17
30	29		126	401	241	309	105	79	61	77	33	17
31	27		58		83		174	60		73		19
Sum	753	1632	3672	5976	5060	8736	(7958)	(6544)	3638	2696	(910)	(596)

Skalnaté Pleso

Daily and monthly sums of downward atmospheric radiation [J/cm<sup>2</sup>]

Year 2010

	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	2340	1469	989	1310	2117		1827	862	2440	2250	2169	
2	2176	1532	1537	1650	2518		2260			2424	2153	2122
3	2054	1875	1174	776	2764		795		1825	1165	2454	2433
4	1491	1372	1372	1106	1899	2806	551	2492	2067	1965	2335	1753
5	1420	2041	906	2350	2641	1427	1858	1728	1619	2660	2492	1782
6	2363	1679	973	736	2715	1717	1488	1767	2194	1316	2194	2089
7	2206	1964	1388	1916	2674	1945	1903	955	2098	1325	2404	2525
8	2526	1383	611	1169	2552	2043	836	2547	2351	1364	2549	2525
9	2580	1506	324	1380	2702	435	119	2579	2514	1356	1801	2515
10	2163	1482	684	1123	2001	995	319	1943	2470	1465	2329	1643
11	2044	1927	1733	1753	2243	1148	1192	1474	2459	1443	2315	2009
12	2189	1975	1376	2160	2316	1162	1196	1353	1187	1429	2283	2254
13	1736	2292	1251	2004	2685	1773	1460	1665	2231	1436	2341	1882
14	2048	1629	1325	1998	2649	2799	1735	591	2299	1589	2379	1614
15	1504	1833	676	891	2540	1486	1999	3017	1985	2289	2406	1616
16	1749	1616	445	1257	2754	2636	2084	1020	2308	2391	2610	1522
17	1817	2299	625		2158	1179	(942)		2573	2359	2492	1540
18	2122	1613	483		1776	1798			2292	2327		1986
19	2095	1426	1007	1927	2550	2925			2299	2238		1794
20	2121	2225	877		2580	2416	(1425)	804	1910	2378		2205
21	1342	1482	1809	763	2371	2881	1232	1233	1077	2030		1980
22	2086	1356	1240		2065	2831	3304	1276	2261	1381		2655
23	1451	1294	1220		2149	681	1591	1026	1515	1667		2497
24	1411	1633	1346	610	2116	1459	2151	2695	1342	2275		2706
25	1508	2151	1106		1685	2072	2331	2067	2028	2800		2611
26	1420	2025	1834	1844	2434	1862	2140	1522	1810	2337		2093
27	1324	2049	2039	1493	2526	295	1885	2291	1702	1699	2150	1897
28	1972	1553	1853	688	(2196)	1564	2238	2385	2153	1529	2013	1889
29	1809		1220			447	1418	1824	2349	1720	2281	1753
30	2074		1553			1525	1905	2214	2371	2062	1557	2321
31	1933		2342				1319	2486		2115		2187
Sum	59074	48681	37319	(30903)	(66375)	(46308)	(45502)	(45817)	(59730)	58786	(47707)	(62398)

Skalnaté Pleso

Daily and monthly sums of long-wave radiation balance [J/cm<sup>2</sup>]

Year 2010

	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	-277	-798	-1654	-1439	-1005	-39	-1417	-2433	-330	-441	-959	
2	-332	-706	-965	-1034	-498	-1468	-1017		-2842	-272	-941	-467
3	-198	-523	-1232	-1942	-234	-871	-2513	-(2407)	-1073	-1599	-513	-74
4	-710	-1071	-989	-1634	-1160	-268	-2726	-702	-781	-877	-587	-630
5	-906	-510	-1365	-389	-414	-1659	-1297	-1542	-1209	-250	-522	-698
6	-161	-845	-1232	-1936	-259	-1549	-1746	-1586	-608	-1648	-774	-522
7	-200	-445	-862	-804	-203	-1438	-1055	-2331	-699	-1593	-408	-270
8	-44	-1045	-1569	-1728	-324	-1216	-2385	-608	-547	-1542	-321	-270
9	-149	-865	-1967	-1522	-179	-2964	-3207	-(473)	-572	-1557	-973	-72
10	-482	-1052	-1768	-1557	-925	-2482	-3188	-1228	-585	-1436	-457	-554
11	-466	-620	-843	-854	-784	-2513	-2288	-1801	-603	-1445	-400	-375
12	-308	-621	-1054	-547	-675	-2453	-2297	-2030	-2022	-1433	-455	-310
13	-808	-267	-1236	-701	-319	-1673	-1998	-1805	-899	-1377	-658	-395
14	-408	-954	-1168	-726	-352	-462	-1706	-2904	-724	-1283	-758	-580
15	-969	-623	-1664	-1824	-425	-1856	-1522	-397	-1135	-435	-764	-566
16	-733	-835	-1880	-1461	-91	-420	-1455	-2287	-687	-292	-444	-755
17	-677	-277	-1825	-2827	-686	-1946	-(1434)		-359	-349	-532	-760
18	-282	-1222	-2201	-2894	-1038	-1340			-586	-478		-259
19	-287	-1335	-1860	-942	-293	-105			-510	-669		-570
20	-291	-451	-2101	-3002	-356	-652	-(1322)	-2291	-875	-316		-454
21	-1069	-971	-1176	-2038	-646	-117	-1975	-1980	-1960	-506		-698
22	-325	-1173	-1642	-2918	-989	-150	-105	-2136	-709	-1285		-107
23	-910	-1459	-1643	-2713	-909	-2377	-1849	-2476	-1637	-1156		-394
24	-894	-1216	-1548	-2405	-909	-1439	-1218	-627	-1874	-581		-137
25	-776	-525	-1806	-2990	-1335	-913	-688	-1089	-1033	14		-140
26	-884	-633	-1076	-1176	-562	-1271	-942	-1644	-1268	-253		-314
27	-845	-584	-772	-1499	-583	-3093	-1177	-1089	-1226	-796	-295	-328
28	-352	-1116	-836	-2170	-854	-1699	-710	-648	-709	-1182	-419	-337
29	-550		-1607	-2825	-957	-3004	-1770	-1068	-429	-1093	-266	-447
30	-362		-1302	-2903	-1256	-1829	-1271	-639	-343	-1073	-769	-352
31	-396		-457		-159	-1968	-1968	-337		-1075		-494
Sum	-16050	-22740	-43300	-53398	-19380	-43269	-(48247)	-(40559)	-28833	-28278	-(12214)	-(12329)

Skalnaté Pleso

Daily and monthly sums of radiation balance [J/cm<sup>2</sup>]

Year 2010

	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	86	212	623	363	127	222	218	-1169	173	67	63	
2	191	162	296	325	79	-220	710		827	60	51	214
3	106	186	409	496	37	466	312	(59)	261	124	17	48
4	101	346	286	443	229	461	280	63	204	50	43	227
5	75	180	491	197	157	720	186	125	333	8	31	182
6	130	262	400	672	230	1123	205	148	189	67	78	208
7	94	251	391	259	276	1128	671	298	147	76	42	45
8	23	316	518	475	468	218	480	28	73	83	24	46
9	33	231	657	332	353	191	239	55	-1	105	77	7
10	2	247	619	492	531	866	260	-48	13	106	27	167
11	207	274	296	351	393	1004	322	109	29	97	66	89
12	140	263	254	261	454	789	331	122	138	93	67	62
13	318	146	341	299	451	160	210	103	73	132	32	143
14	73	279	451	369	937	544	544	-165	52	136	17	144
15	-75	323	637	720	944	1549	296	610	49	82	19	180
16	-2	406	707	534	320	272	387	-817	30	76	-1	198
17	147	109	678	884	587	759	(231)		32	88	6	226
18	128	421	760	972	916	268			28	73		26
19	162	492	621	337	733	292			22	90		141
20	158	207	450	945	942	454	(373)	-373	41	69		95
21	301	358	327	699	1312	338	248	-329	111	199		161
22	112	462	462	1026	1433	393	1631	-354	41	326		3
23	262	536	505	821	940	1238	-100	77	89	222		55
24	194	391	418	685	660	566	422	39	162	126		-17
25	103	177	547	736	501	274	-240	77	119	54		3
26	134	266	321	259	332	219	-189	112	50	90		58
27	-15	220	273	376	390	391	-341	63	75	132	90	17
28	184	360	289	536	617	191	65	71	99	166	125	20
29	234		436	518	-149	364	-507	113	56	78	130	53
30	165		349	436	528	307	-427	82	58	5	219	92
31	173		147		360		-703	66		36		159
Sum	3947	8082	13961	15815	16088	15546	(6109)	-(834)	3575	3116	(1223)	(3051)

## Skalnaté Pleso

## Daily and monthly sums of sunshine duration [h]

Year 2010

	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	0.2	2.1	7.1	4.6	0.9	0.0	5.4	2.2	0.0	0.3	6.4	0.0
2	0.1	4.2	2.6	2.7	0.2	0.5	6.4	9.4	6.8	0.0	4.4	2.0
3	0.0	0.6	2.8	5.5	0.0	4.9	9.4	9.4	0.3	7.0	1.0	0.0
4	6.7	8.1	1.1	5.3	2.9	0.4	8.0	0.0	0.0	4.5	1.0	6.1
5	5.0	1.6	4.1	0.0	0.3	8.2	1.6	5.7	0.8	0.0	0.9	7.1
6	0.0	3.6	4.3	3.4	0.3	9.6	7.4	4.7	1.0	9.7	5.4	2.3
7	0.0	0.0	0.7	0.0	0.0	9.5	0.0	9.4	1.7	9.6	0.0	0.8
8	0.0	3.9	3.7	6.5	0.9	4.7	12.4	1.6	0.0	9.7	0.0	2.1
9	0.0	0.4	9.7	6.2	0.0	12.9	13.5	1.0	1.4	9.5	3.9	0.0
10	0.0	2.6	7.6	3.5	3.9	12.8	13.6	4.0	0.1	8.4	1.9	0.5
11	1.5	0.0	0.0	0.1	2.3	12.9	10.7	7.1	0.0	9.3	0.6	1.5
12	0.0	0.0	0.6	0.0	1.6	12.5	10.4	8.7	8.4	9.4	2.0	0.0
13	4.6	0.0	1.3	0.6	0.5	4.0	8.2	5.2	3.5	9.4	5.9	0.0
14	0.0	1.4	0.0	0.0	3.0	0.0	9.0	9.7	1.3	9.2	7.8	0.0
15	6.2	0.0	2.0	2.4	2.7	11.0	7.5	2.2	2.7	2.0	7.6	3.7
16	2.1	3.9	1.5	1.2	0.0	0.0	6.3	5.6	1.0	0.0	0.1	6.5
17	2.9	0.0	3.7	9.1	1.0	10.3	6.7	6.8	0.1	0.4	2.4	6.3
18	0.0	6.0	7.7	9.5	1.6	4.9	1.1	2.2	0.4	0.0	0.0	0.0
19	0.0	6.5	6.7	0.0	0.1	0.1	5.1	4.6	0.0	2.2	0.8	3.7
20	0.0	0.0	7.7	10.9	1.0	0.0	3.5	8.3	2.3	0.0	0.0	2.1
21	6.1	1.1	1.6	5.9	5.5	0.0	7.8	7.9	9.5	1.0	1.6	4.1
22	0.0	4.5	3.9	9.0	7.3	0.0	6.7	8.9	1.9	9.0	0.0	0.0
23	7.4	8.0	5.7	11.3	5.4	10.8	6.6	11.8	10.1	7.5	2.4	2.1
24	7.8	4.7	5.9	10.0	3.0	5.5	3.6	0.9	10.2	4.7	0.0	0.0
25	5.7	0.1	6.9	12.2	8.5	2.0	0.0	1.2	3.4	0.0	0.4	0.0
26	5.5	1.9	3.7	3.2	3.0	1.0	0.2	5.2	0.0	0.0	5.9	0.0
27	5.2	0.0	2.6	3.0	1.4	11.2	0.0	1.1	0.0	1.3	0.0	0.0
28	0.0	3.1	3.0	6.0	2.3	3.9	0.0	0.0	1.4	8.3	0.9	0.3
29	0.0		7.2	12.2	1.6	12.0	2.5	1.7	0.0	8.5	0.0	2.6
30	0.0		1.8	12.3	3.5	6.3	1.6	1.7	0.0	8.4	6.6	5.3
31	0.0		0.2		0.0		2.1	0.0		8.7		0.0
Sum	67.0	68.3	117.4	156.6	64.7	171.9	177.3	148.2	68.3	158.0	69.9	59.1

Skalnaté Pleso

Daily and monthly averages of air temperature [°C]

Year 2010

	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	-2.0	-12.4	-2.1	-0.6	9.1	4.6	12.8	13.5	1.5	-1.8	9.5	-6.7
2	-5.9	-12.8	-6.6	-1.4	7.0	4.3	13.0	14.9	2.6	-1.5	9.0	-3.0
3	-13.2	-8.5	-9.1	-2.4	6.9	7.4	12.3	15.5	3.0	0.7	6.8	-5.4
4	-12.7	-6.8	-10.7	0.2	7.8	8.7	11.0	10.1	3.0	2.7	4.9	-7.9
5	-10.2	-4.0	-12.6	0.3	7.5	7.7	10.1	11.7	2.2	4.5	6.9	-4.8
6	-5.6	-5.5	-14.6	-1.2	6.1	11.1	11.2	13.7	1.4	6.3	5.9	-2.8
7	-7.0	-9.3	-14.4	-1.1	3.8	13.3	6.1	12.4	1.8	5.1	1.9	2.4
8	-3.5	-8.7	-15.8	2.5	3.7	12.0	9.6	9.7	4.2	4.0	3.6	2.4
9	-0.3	-9.6	-12.7	2.9	3.4	15.2	11.8	(9.8)	8.6	4.0	1.6	-3.6
10	-2.3	-5.3	-7.1	-2.5	4.7	16.3	15.3	10.5	7.7	3.5	1.5	-13.9
11	-5.7	-4.8	-6.0	-3.6	6.3	19.8	15.2	12.4	7.9	4.2	-0.1	-8.6
12	-6.6	-3.6	-9.0	-1.5	6.1	18.4	15.6	14.2	11.0	3.8	0.8	-4.6
13	-5.8	-4.4	-6.9	-0.9	6.1	14.0	16.1	15.7	9.7	2.9	7.2	-11.8
14	-7.0	-4.7	-6.9	-0.4	5.6	12.6	16.0	16.9	6.9	4.2	11.4	-14.0
15	-6.3	-7.9	-11.0	-0.9	4.1	11.5	16.9	15.7	8.7	0.0	11.6	-13.6
16	-6.3	-7.8	-10.9	-0.7	3.5	7.3	17.2	14.1	6.8	-1.2	8.5	-11.2
17	-5.5	-3.5	-8.5	-0.8	3.3	7.9	(17.7)	10.1	5.7	-0.9	7.5	-10.4
18	-8.4	1.6	-2.4	3.1	2.2	9.9		8.2	3.4	1.8		-12.4
19	-9.6	1.2	3.1	2.3	2.4	7.1		8.9	2.2	3.7	0.3	-8.9
20	-8.5	-2.5	4.8	2.3	4.6	7.3	14.6	8.4	2.5	-1.1	-1.5	-1.5
21	-9.2	-8.1	5.3	0.5	6.1	6.9	16.3	11.0	7.2	-4.9	-0.5	-1.0
22	-8.2	-4.7	2.6	-4.2	6.8	6.9	16.1	15.0	6.0	-1.0	0.4	1.4
23	-8.5	0.5	2.6	-0.3	7.1	7.2	16.6	16.6	9.9	2.9	-2.1	4.0
24	-11.4	1.3	2.5	3.9	6.7	4.2	13.7	14.1	11.1	3.1	-7.2	2.8
25	-10.8	-1.5	4.4	4.7	6.6	5.2	7.9	9.8	7.7	1.3	-8.4	0.3
26	-11.1	-1.5	4.2	6.6	6.1	9.6	7.5	10.1	8.2	-4.2		-9.3
27	-14.4	-3.2	1.4	4.9	8.5	12.6	8.1	14.8	4.2	-5.0	-7.6	-12.8
28	-11.0	-0.5	-1.3	2.1	8.0	11.3	6.0	7.6	3.3	0.5	-7.0	-13.1
29	-10.7		1.3	5.8	7.4	14.1	9.9	3.8	0.8	3.5	-5.3	-13.7
30	-8.1		2.9	10.5	7.7	13.9	10.7	3.4	-1.3	11.2	-10.4	-0.7
31	-10.5		1.7		5.1		12.6	2.5		11.5		-1.3
Average	-7.9	-4.9	-4.2	1.0	5.8	10.3	(12.7)	(11.5)	5.3	2.1	(1.8)	-5.9

## Skalnaté Pleso

## Daily and monthly averages of relative air humidity [%]

Year 2010

	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	90	75	68	83	79	93	83	91	93	93	54	64
2	91	76	78	86	92	93	87	87	89	93	65	87
3	91	69	81	82	91	92	79	71	93	84	80	88
4	73	44	87	79	90	93	74	94	91	80	90	66
5	81	76	77	92	94	88	90	93	92	93	91	40
6	92	62	72	90	93	79	85	92	92	57	83	82
7	88	85	89	90	92	75	89	87	93	48	94	87
8	81	86	81	80	93	92	86	90	92	41	93	87
9	92	82	44	79	94	75	75	(93)	93	43	84	86
10	92	70	30	88	91	63	65	92	93	53	83	90
11	92	90	88	91	93	54	86	90	93	51	88	69
12	92	92	79	93	93	73	87	81	91	62	78	58
13	92	92	84	93	93	88	87	83	91	72	74	87
14	92	89	92	93	92	92	86	75	93	67	42	87
15	78	92	88	93	93	88	84	93	77	87	46	84
16	84	81	87	91	93	94	82	88	93	91	67	68
17	68	79	88	75	92	85	(84)	85	87	93	75	55
18	89	78	78	63	91	90		93	93	93		72
19	92	78	44	92	92	94		92	92	92	84	56
20	92	92	64	73	93	94	92	82	87	93	96	71
21	88	86	83	80	91	93	87	90	72	88	87	73
22	89	66	74	73	88	79	88	80	93	61	100	86
23	38	71	61	63	88	62	86	65	60	57	100	92
24	39	73	71	73	90	91	93	78	47	82	100	92
25	34	89	73	77	80	93	93	92	88	93	98	92
26	44	83	91	73	89	91	93	84	93	92		92
27	60	84	91	81	93	67	93	82	93	77	93	85
28	82	57	84	83	93	91	93	92	90	56	83	82
29	90		77	70	93	72	91	93	93	73	93	84
30	90		84	56	93	84	93	92	93	27	84	85
31	86		89		94		93	93		21		88
Average	80	79	77	81	91	84	(86)	(87)	88	71	(82)	78

Skalnaté Pleso

Daily and monthly averages of atmospheric pressure [hPa]

Year 2010

	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	796.3	803.2	807.3	812.9	818.2	810.0	825.9	825.7	809.0	818.7	818.7	804.8
2	801.6	808.9	813.8	816.0	816.9	811.1	826.8	825.5	815.7	822.3	820.3	806.3
3	806.9	807.3	815.0	817.5	816.7	815.3	825.3	820.6	821.9	823.7	821.1	806.2
4	810.3	817.5	809.7	819.1	819.4	818.2	824.3	818.6	822.5	821.5	823.7	813.1
5	806.9	817.9	807.4	819.0	818.3	826.3	822.5	818.4	821.5	820.9	823.5	812.8
6	801.1	812.0	809.1	819.8	812.1	824.8	821.7	820.2	821.9	823.9	816.7	804.9
7	806.9	809.8	817.1	823.3	811.2	821.1	821.5	821.7	820.2	828.2	809.4	806.8
8	813.0	806.4	816.3	825.6	814.7	821.7	827.1	822.8	819.9	829.3	797.8	806.8
9	809.3	803.8	816.1	825.2	813.8	822.8	829.5	(824.2)	821.8	825.1	792.8	804.1
10	807.2	804.6	819.6	819.1	813.6	823.1	830.4	824.8	825.3	818.9	799.1	807.4
11	810.7	801.1	810.1	816.4	816.6	821.3	829.3	825.5	825.0	818.2	809.8	807.5
12	811.8	805.5	806.6	818.0	814.4	820.7	826.7	825.5	825.6	818.7	804.4	500.8
13	810.4	805.1	809.0	816.8	812.9	821.0	822.7	826.5	825.0	817.6	811.0	803.0
14	812.2	806.9	807.8	813.1	810.5	820.0	823.3	827.4	825.3	814.7	816.0	806.4
15	818.4	805.0	808.5	812.4	809.1	823.9	825.5	827.0	717.9	812.3	817.8	808.6
16	823.2	805.5	811.3	814.9	802.6	823.1	829.4	822.6	818.1	813.0	818.9	806.9
17	818.0	805.4	819.9	819.5	808.4	823.5	(828.9)	819.1	818.1	817.1	816.4	797.8
18	817.5	804.2	823.9	821.0	812.4	817.1		817.5	819.8	818.6		796.8
19	816.2	803.2	824.4	815.1	817.9	811.2		820.8	819.6	812.4	817.6	802.3
20	811.6	796.9	821.1	815.1	823.2	813.3	826.9	828.0	823.0	807.3	817.5	804.5
21	814.1	801.4	819.0	812.8	823.8	816.4	824.5	831.2	825.5	815.7	815.4	810.7
22	819.4	804.4	822.2	813.9	823.2	818.2	824.9	828.7	828.0	821.6	805.7	811.4
23	820.8	804.0	822.4	818.3	822.0	818.9	823.7	822.5	826.2	818.8	799.3	809.6
24	821.7	806.4	822.9	823.2	817.2	817.0	816.7	820.2	819.0	814.6	799.9	804.5
25	824.8	808.4	822.7	828.4	814.8	816.7	814.9	822.1	813.8	816.0	803.7	803.2
26	823.8	804.2	817.5	827.6	816.0	819.1	816.6	822.4	810.9	819.0		810.7
27	815.3	806.9	810.8	826.1	816.0	823.6	817.0	816.9	810.5	823.6	801.3	813.6
28	797.2	805.8	811.9	826.4	819.8	826.1	813.7	813.7	811.6	823.0	808.7	812.6
29	793.7		814.6	824.3	823.3	825.7	817.9	817.5	814.8	822.4	797.0	815.0
30	792.3		810.8	819.9	817.7	825.9	821.1	815.5	816.1	819.0	806.5	802.0
31	798.2		807.3		809.8		824.9	808.3		818.7		799.4
Average	810.7	806.1	814.7	819.4	815.7	819.9	(823.6)	(822.0)	816.5	819.2	(810.4)	796.8

Skalnaté Pleso

Daily and monthly averages of soil temperature at 2cm depth [°C]

Year 2010

	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	-0.6	-1.6	0.0	0.0	0.0		10.9	13.0	3.3	3.8	4.3	
2	-0.9	-1.6	0.0	0.0	0.0		12.0	14.7	0.7	3.5	5.7	0.7
3	-0.8	-2.0	-0.1	0.0	0.0		15.0	16.1	1.2	4.3	3.9	0.6
4	-1.0	-2.0	-0.4	0.1	0.4	9.2	14.1	14.8	1.2	3.2	4.3	0.6
5	-1.5	-2.1	-0.6	0.1	3.6	10.0	12.6	14.5	0.8	4.7	5.2	0.7
6	-1.5	-2.0	-0.7	0.0	5.4	11.8	13.0	15.8	1.2	5.6	5.1	0.6
7	-1.2	-1.8	-0.8	0.1	4.2	13.9	9.0	16.0	1.4	4.2	3.9	0.6
8	-1.3	-1.7	-0.9	0.1	3.4	13.0	11.9	12.6	1.3	4.0	3.3	0.6
9	-1.0	-1.6	-0.9	0.1	4.1	15.3	14.1	(10.9)	0.6	3.9	1.8	0.5
10	-0.6	-1.7	-1.0	0.0	5.5	15.9	16.3	11.8	2.2	4.2	1.4	0.4
11	-0.4	-1.7	-1.0	0.0	7.3	18.2	17.1	13.6	7.7	4.0	1.5	0.6
12	-0.4	-1.6	-1.0	0.0	7.5	18.9	17.5	14.7	10.0	3.6	1.0	0.4
13	-0.4	-1.4	-0.9	0.1	5.9	17.2	17.0	15.9	9.0	3.3	1.8	0.5
14	-0.4	-1.2	-0.9	0.1	8.4	14.1	16.3	17.1	8.7	3.3	3.7	0.6
15	-0.4	-1.1	-0.8	0.1	8.1	16.9	17.2	15.6	9.6	1.9	3.4	0.7
16	-0.5	-1.1	-0.7	0.1	3.7	12.6	17.5	14.4	7.8	2.0	4.1	0.7
17	-0.8	-1.1	-0.7	0.0	1.8	13.1	(16.7)	13.2	5.7	2.0	3.9	0.6
18	-0.8	-1.1	-0.6		2.4	11.4		12.4	5.5	2.9		0.5
19	-0.8	-0.6	-0.6	0.0	4.0	10.1		11.7	4.3	4.1		0.5
20	-0.8	0.0	-0.5	0.0	5.6	10.4	17.2	11.9	3.1	3.5		0.4
21	-0.8	0.0	0.0	0.0	7.8	8.8	15.8	12.4	6.7	1.5		0.5
22	-0.8	-0.1		0.0	8.5	6.2	16.4	14.7	6.3	1.4		0.4
23	-0.9	-0.3		0.0	9.4	9.1	15.1	15.7	7.2	1.3		0.2
24	-1.0	-0.3		0.0	8.8	8.0	16.7	14.4	8.4	1.8		0.1
25	-1.3	-0.1		0.0	8.4	8.7	11.7	12.9	8.3	1.9		0.3
26	-1.6	-0.2		0.0	7.4	10.3	10.5	12.3	8.6	1.4		0.4
27	-1.8	-0.3		0.0	9.2	13.8	11.1	13.8	8.0	1.1	0.8	0.5
28	-2.0	-0.3		0.0	(10.3)	13.8	6.2	11.5	6.4	0.7	0.9	0.6
29	-2.1				0.0		15.7	10.6	9.8	4.9	0.6	0.7
30	-2.0				0.0		15.2	11.3	7.5	4.2	0.9	0.7
31	-1.7						12.9	5.3		2.9		-0.7
Average	-1.0	-1.1	-(0.6)	(0.0)	(5.4)	(12.6)	(13.9)	(13.3)	5.1	2.8	(2.9)	(0.4)

Skalnaté Pleso

Daily and monthly averages of soil temperature at 20cm depth [°C]

Year 2010

	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	-0.8	-1.7	-0.5	-0.4	-0.4		10.7	12.0	5.2	4.5	3.1	
2	-0.9	-1.7	-0.5	-0.4	-0.4		10.6	13.2	1.0	4.1	4.5	1.5
3	-1.0	-1.9	-0.5	-0.4	-0.4		12.7	14.1	1.9	4.4	3.9	1.3
4	-1.0	-2.0	-0.6	-0.3	-0.4	8.3	12.6	14.3	1.9	3.9	3.9	1.3
5	-1.4	-2.0	-0.7	-0.3	-0.4	8.5	11.9	13.4	1.4	4.5	4.4	1.3
6	-1.5	-2.0	-0.9	-0.3	1.0	9.7	12.0	14.3	2.0	5.1	4.7	1.2
7	-1.3	-1.8	-0.9	-0.3	3.3	11.5	10.1	14.7	2.3	4.6	4.0	1.3
8	-1.3	-1.7	-1.0	-0.3	2.9	12.1	10.5	13.2	2.0	4.4	3.3	1.3
9	-1.1	-1.7	-1.0	-0.3	3.1	13.1	12.2	(11.5)	0.8	4.1	2.7	1.1
10	-0.9	-1.7	-1.0	-0.4	3.8	13.9	14.0	11.2	1.9	4.1	1.8	1.0
11	-0.7	-1.8	-1.1	-0.4	5.2	15.2	15.1	12.3	5.9	4.1	1.9	1.1
12	-0.6	-1.7	-1.1	-0.3	6.3	16.4	15.5	13.3	7.5	3.9	1.5	0.7
13	-0.6	-1.5	-1.1	-0.3	5.5	15.7	15.3	14.1	8.2	3.7	1.7	1.1
14	-0.6	-1.3	-1.0	-0.3	6.2	13.6	14.9	15.0	8.0	3.5	3.0	1.2
15	-0.6	-1.3	-1.0	-0.3	7.1	14.2	15.6	15.0	4.4	2.9	2.9	1.2
16	-0.7	-1.2	-0.9	-0.3	4.5	13.5	15.8	13.9	0.0	2.7	3.6	1.2
17	-0.8	-1.2	-0.9	-0.3	1.9	11.8	(15.1)	13.0	0.0	2.5	3.6	1.1
18	-0.9	-1.2	-0.8		2.2	11.5		12.5	0.0	2.8		1.1
19	-0.9	-0.9	-0.7	-0.4	3.1	10.4		11.6	0.0	3.5		1.1
20	-0.9	-0.5	-0.7	-0.4	4.3	9.7	15.6	11.5	1.6	3.9		1.1
21	-0.9	-0.5	-0.6	-0.4	5.9	9.3	14.5	11.9	5.6	2.6		1.1
22	-0.9	-0.5	-0.5	-0.4	6.9	7.0	15.7	13.0	6.3	2.2		1.0
23	-1.0	-0.6	-0.4	-0.4	7.5	7.6	14.2	14.2	6.5	1.9		0.7
24	-1.1	-0.6	-0.4	-0.3	7.5	8.4	15.2	14.1	7.5	2.0		0.3
25	-1.3	-0.5	-0.4	-0.4	7.6	8.0	13.2	12.6	7.6	2.2		0.2
26	-1.5	-0.5	-0.4	-0.4	6.8	9.2	10.7	11.8	8.0	1.9		0.3
27	-1.7	-0.6	-0.4	-0.4	7.6	11.0	11.2	12.6	7.9	1.7	1.5	0.5
28	-1.9	-0.6	-0.4	-0.4	(8.3)	12.5	6.3	11.9	6.6	1.5	1.6	0.5
29	-2.0		-0.4	-0.4		13.1	9.1	10.4	5.7	1.2	1.4	0.6
30	-2.0		-0.4	-0.4		13.8	10.6	8.8	4.8	1.3	1.5	-0.7
31	-1.8		-0.4				11.6	6.3		2.1		-0.8
Average	-1.1	-1.3	-0.7	-(0.4)	(4.2)	(11.4)	(12.8)	(12.6)	4.1	3.1	(2.9)	(0.9)

Stará Lesná

Daily and monthly sums of global radiation [ $\text{J/cm}^2$ ]

Year 2010

	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	186	716	1366	1204	1277	375	1893		508	357	706	147
2	85	1052	1233	938	916	1387	2123	2638	2023	558	765	446
3	222	337	1463	1985	488	1281	2574	2444	675	1398	486	73
4	554	1022	1031	1197	1650	488	2554	1092	657	1200	598	476
5	205	347	756	400	711	2895	1393	1764	1317	405	524	620
6	97	672	1288	1245	488	2801	2050	1784	1359	1419	702	378
7	103	381	714	1471	730	2804	1399	2209	1552	1491	189	198
8	84	441	1273	1947	1923	2119	3068	1782	353	1455	315	352
9	85	420	1557	1354	1122	2866	3033	1234	358	1437	616	74
10	136	726	1423	1140	1182	2916	3014	2127	617	1345	432	448
11	162	474	525	689	2025	2949	2835	2094	763	1395	854	325
12	157	348	726	723	1212	2938	2779	2481	1086	1326	368	125
13	459	315	853	436	1770	2031	2214	1968	1304	1178	609	327
14	313	836	673	221	1411	1104	2091	2210	695	1268	721	548
15	708	587	1261	938	1156	1299	2186	981	1118	828	710	562
16	684	471	1156	916	221	725	2487	1358	1104	501	345	125
17	537	179	1225	2343	658	3219	1896	1616	229	415	465	487
18	266	913	1698	2233	618	1808	964	1641	868	351	66	197
19	171	695	1462	772	424	830	1079	1556	746	769	248	403
20	275	112	1588	2092	1134	2052	2020	2112	1844	382	598	332
21	238	1155	1123	1989	1333	585	2271	2278	1769	701	342	469
22	513	533	1226	2535	1987	755	1814	2267	1443	1264	77	42
23	778	899	1400	2395	2465	3151	1851	2362	1707	861	695	144
24	663	950	1812	2256	1127	1743	2199	739	1659	438	475	127
25	633	1005	1209	2425	1803	1214	364	1315	939	44	582	46
26	663	503	688	1741	878	1860	948	2130	154	245	555	181
27	555	351	1272	2052	1040	2777	654	1081	314	881	176	347
28	406	1038	1102	1405	1554	2057	449	787	1198	1038	233	224
29	697		1778	2469	1864	3063	2304	1276	703	994	150	483
30	252		1171	2539	1591	2311	1209	1057	256	969	582	508
31	293		476		831		1780	638		966		262
Sum	465	10888	17478	36053	46048	36760	58402	(57714)	50383	29315	26912	14183

Stará Lesná

Daily and monthly sums of diffuse radiation [J/cm<sup>2</sup>]

Year 2010

	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	175	392	202	590	905	315	731		432	315	343	133
2	76	336	459	665	650	1040	1515	486	547	489	379	212
3	211	306	517	564	421	576	1792	577	541	314	375	60
4	138	246	490	667	824	433	834	896	581	542	381	242
5	188	324	338	346	617	459	874	863	832	357	338	162
6	87	305	511	850	413	494	508	873	879	199	236	274
7	94	350	520	869	631	485	1103	647	421	146	173	180
8	76	419	414	365	761	949	442	844	303	158	278	214
9	79	382	240	607	939	604	311	717	296	159	239	62
10	129	486	459	697	860	647	275	656	531	244	321	134
11	151	437	482	615	908	570	524	513	648	152	334	243
12	143	327	614	605	726	520	391	328	720	168	216	107
13	243	295	663	377	932	1251	736	632	647	295	206	305
14	296	476	597	194	802	707	839	644	572	196	94	192
15	171	514	594	714	953	991	808	649	702	449	121	145
16	190	427	549	647	185	600	760	698	480	365	316	107
17	273	163	593	478	555	384	553	737	192	360	256	136
18	251	294	533	562	477	783	557	807	559	319	57	184
19	162	392	646	669	369	683	828	718	606	414	203	217
20	257	99	539	756	952	876	725	524	500	266	286	191
21	224	292	705	883	924	483	642	359	198	421	264	134
22	394	317	502	636	868	629	602	288	589	192	65	34
23	164	320	676	611	687	383	716	267	238	336	218	134
24	201	586	343	608	793	774	792	581	224	310	295	107
25	278	485	661	420	738	895	293	838	678	35	273	38
26	240	359	409	787	650	1201	791	572	127	221	145	145
27	288	324	581	895	768	511	545	783	266	256	158	256
28	350	438	487	845	820	1014	353	620	631	195	202	199
29	496		534	676	1078	373	815	665	530	138	145	184
30	238		836	378	1032	1005	746	743	223	153	176	149
31	279		387		710		931	516		118		222
Sum	465	6265	10091	15693	18576	22240	20634	(21406)	18526	14695	8163	7094

Stará Lesná

Daily and monthly sums of global UVB radiation [mJ/cm<sup>2</sup>]

Year 2010

	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	13	30	96	117	164	58	244		58	44	48	11
2	6	33	80	91	121	208	290	396	259	73	57	23
3	11	17	74	163	82	162	390	383	91	134	39	9
4	19	39	61	117	254	83	362	181	94	112	50	21
5	16	26	44	41	109	423	209	294	157	56	49	22
6	12	38	68	117	72	416	301	278	149	135	52	21
7	8	24	46	154	93	418	206	299	172	132	21	13
8	6	25	73	210	236	314	431	271	57	121	24	21
9	6	29	94	144	141	409	442	184	57	114	38	6
10	7	56	95	112	156	423	477	332	96	113	32	20
11	8	43	57	71	287	439	451	312	118	118	34	18
12	8	33	69	73	175	441	455	368	150	115	26	14
13	17	30	73	42	262	302	335	317	188	100	43	15
14	17	64	70	27	205	164	330	324	82	110	46	18
15	23	49	100	108	177	221	346	138	165	84	46	17
16	23	44	107	106	34	126	411	234	141	54	30	14
17	22	21	99	238	94	448	315	230	30	46	31	17
18	15	89	135	247	81	247	152	250	107	39	5	9
19	12	67	138	113	67	125	207	209	90	72	19	18
20	18	13	159	230	181	313	338	301	178	37	27	21
21	14	75	134	211	207	85	338	337	183	44	21	22
22	26	35	131	249	292	130	268	353	156	79	8	4
23	36	67	132	238	360	473	285	353	184	65	28	12
24	32	64	178	265	185	236	382	116	193	39	21	6
25	30	63	138	296	234	195	64	216	112	5	22	4
26	29	31	86	220	129	308	143	308	28	21	22	10
27	26	30	125	253	165	401	105	183	40	56	12	14
28	23	78	75	158	258	322	73	113	138	69	23	11
29	31		159	296	255	444	327	141	72	66	15	16
30	18		113	338	219	344	161	129	37	63	26	18
31	20		49		118		264	82		62		12
Sum	552	1212	3059	5046	5415	8676	9102	(7631)	3584	2381	914	458

Stará Lesná

Daily and monthly sums of downward atmospheric radiation [J/cm<sup>2</sup>]

Year 2010

	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
01	2543	1697	1823	2128	2410	2787	2427		2758	2710	2666	2292
02	2478	1266	1590	2142	2657	2292	2420	2354	2226	2665	2619	2328
03	2111	2001	1652	1662	2807	2607	2092	2423	2763	2135	2739	2544
04	1519	1567	1773	2066	2317	2832	2047	2866	2767	2337	2740	2087
05	2062	2213	1776	2605	2728	1626	2562	2686	2510	2853	2823	1984
06	2474	1928	1326	2141	2818	1827	2420	2765	2417	2350	2652	2340
07	2445	2168	1879	2004	2529	2026	2600	2476	2222	2166	2875	2649
08	2481	2089	1305	1866	2009	2355	1865	2553	2893	2012	2834	2704
09	2720	2085	1107	2110	2484	2091	1936	2746	3036	1949	2652	2598
10	2688	1886	1337	2106	2375	2161	2094	2452	2961	2014	2678	2106
11	2499	2311	2243	2325	2143	2177	2328	2443	2863	1970	2446	2121
12	2380	2391	1894	2431	2465	2165	2397	2289	2780	2035	2563	2523
13	2103	2367	2038	2547	2326	2481	2649	2582	2762	2070	2695	2233
14	2123	2054	2246	2719	2408	2797	2718	2638	2859	2030	2619	1900
15	1809	2182	1794	2276	2486	2658	2678	3087	2728	2349	2704	1887
16	1833	2091	1823	2222	2794	2795	2580	2953	2606	2559	2796	2530
17	1823	2213	1739	1426	2510	1541	2769	2703	2884	2655	2737	2028
18	2214	2087	1685	1551	2481	2247	3049	2621	2649	2681	2907	1984
19	2350	2387	1811	2487	2614	2781	3012	2614	2583	2602	2802	1823
20	2161	2634	1891	1722	2460	2252	2721	2224	2082	2643	2520	2277
21	2134	1773	2331	1822	2396	2850	2592	2284	2200	2326	2674	2384
22	1844	2056	2124	1346	2083	2753	2696	2416	2420	2022	2881	2695
23	1459	2061	1833	1366	1920	1688	2735	2412	2245	2396	2543	2825
24	1515	2166	1686	1667	2465	2311	2666	3086	2294	2728	2367	2784
25	1522	2034	2169	1592	2035	2496	3020	2660	2756	2864	2280	2678
26	1594	2283	2629	2073	2532	2430	2840	2298	3199	2526	2121	2283
27	1501	2399	2152	2003	2692	2051	2890	2983	2884	2135	2470	1891
28	1917	2009	1936	2096	2472	2422	2988	2786	2489	2181	2407	2004
29	1884		1725	1623	1909	1865	2412	2422	2672	2250	2594	1842
30	2303		2178	1755	2235	2258	2902	2551	2740	2304	2001	1832
31	2243		2502		2568		2725	2740		2454		2139
Sum	64733	58396	57994	59879	75129	69625	79832	(80842.0)	79248	72970	78404	70296

Stará Lesná

Daily and monthly sums of long-wave radiation balance [J/cm<sup>2</sup>]

Year 2010

	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	-176	-671	-960	-807	-901	-216	-984		-239	-234	-481	-98
2	-149	-1016	-1086	-688	-564	-797	-1032	-1318	-1034	-331	-494	-320
3	-283	-392	-1007	-1258	-386	-550	-1334	-1209	-377	-888	-335	-78
4	-717	-838	-774	-893	-929	-359	-1348	-504	-347	-738	-355	-354
5	-306	-318	-718	-268	-373	-1684	-722	-837	-599	-192	-365	-431
6	-71	-646	-1048	-777	-305	-1530	-973	-856	-689	-712	-453	-271
7	-143	-210	-543	-885	-543	-1426	-726	-1041	-816	-866	-145	-145
8	-109	-275	-1053	-1178	-1136	-1113	-1602	-885	-227	-895	-211	-226
9	-69	-355	-1259	-939	-659	-1516	-1579	-630	-228	-1006	-365	-146
10	-94	-667	-1166	-758	-759	-1546	-1544	-1025	-324	-922	-297	-410
11	-142	-304	-343	-479	-1139	-1560	-1420	-1086	-368	-970	-487	-261
12	-151	-219	-605	-503	-706	-1509	-1366	-1297	-509	-924	-324	-48
13	-415	-262	-543	-329	-968	-985	-1054	-1012	-584	-797	-441	-277
14	-371	-580	-467	-141	-788	-520	-967	-1045	-396	-890	-556	-431
15	-604	-375	-822	-606	-651	-566	-1087	-526	-621	-561	-549	-405
16	-625	-385	-750	-638	-192	-328	-1199	-554	-643	-387	-339	-50
17	-715	-291	-867	-1517	-433	-1759	-931	-717	-183	-265	-363	-331
18	-312	-684	-1135	-1485	-450	-1024	-447	-762	-523	-202	-95	-215
19	-189	-411	-1055	-515	-280	-370	-479	-793	-501	-381	-189	-495
20	-224	-85	-1097	-1420	-681	-974	-924	-1144	-999	-260	-344	-397
21	-222	-860	-699	-1218	-807	-300	-1108	-1178	-977	-457	-234	-419
22	-465	-502	-822	-1522	-1202	-445	-967	-1135	-805	-801	-87	-152
23	-827	-779	-1046	-1580	-1368	-1620	-932	-1196	-980	-549	-354	-201
24	-729	-627	-1290	-1464	-723	-941	-949	-432	-1073	-339	-372	-155
25	-721	-776	-882	-1571	-1223	-672	-200	-719	-604	-55	-413	-86
26	-700	-420	-533	-1157	-581	-909	-462	-1093	-87	-221	-505	-192
27	-656	-327	-887	-1264	-561	-1409	-343	-606	-184	-585	-157	-398
28	-417	-750	-902	-964	-831	-1048	-204	-465	-619	-563	-196	-262
29	-546		-1233	-1559	-1304	-1615	-1107	-721	-378	-604	-94	-442
30	-235		-897	-1605	-1042	-1222	-547	-551	-183	-597	-443	-488
31	-257		-483		-554		-789	-304		-671		-164
Sum	-11643	-14024	-26968	-29989	-23037	-30512	-29327	-(25642.1)	-16095	-17862	-10041	-8348

Stará Lesná

Daily and monthly sums of radiation balance [J/cm<sup>2</sup>]

Year 2010

	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	58	-225	46	219	289	100	627		152	71	213	10
2	-23	-244	48	138	226	495	795	949	647	130	274	-13
3	-109	-149	244	378	90	665	907	892	177	330	184	-6
4	-237	-110	94	156	477	107	839	402	192	309	241	29
5	-138	-78	-60	80	219	1262	444	649	467	135	215	33
6	-30	-183	24	302	119	872	716	652	414	537	257	-42
7	-30	-78	-9	328	109	993	452	807	472	430	67	43
8	-23	-75	-37	414	476	712	976	612	92	363	98	96
9	74	-118	20	225	296	984	999	383	106	253	190	1
10	85	-213	30	192	277	1029	1062	741	211	255	114	-69
11	17	-76	-61	123	570	1020	1052	675	268	255	288	-8
12	-47	-49	-238	145	289	1051	1028	814	408	240	76	-13
13	-148	-69	-114	70	507	759	810	692	498	237	185	-25
14	-122	-134	-116	60	370	391	823	813	213	232	177	33
15	-80	-98	-277	204	287	504	820	333	363	166	191	73
16	-111	-118	-276	158	0	261	966	577	321	74	90	-24
17	-296	-110	-246	449	106	968	705	618	22	103	184	40
18	-97	-161	10	425	97	539	338	625	235	99	16	-25
19	-49	31	294	158	72	272	429	528	165	266	81	-135
20	-85	50	378	392	309	738	773	641	545	81	225	-77
21	-97	-249	372	447	347	210	817	756	526	167	112	-74
22	-182	-155	293	550	516	243	597	803	430	341	28	-5
23	-250	-105	228	426	663	1044	633	846	491	250	243	112
24	-223	205	310	449	241	537	882	250	395	112	82	48
25	-274	167	237	510	334	374	78	415	259	1	107	-4
26	-249	80	139	386	170	694	313	728	52	14	69	-100
27	-253	40	228	494	324	979	170	394	49	238	-32	-87
28	-163	224	89	265	498	731	128	215	369	366	-6	-66
29	-180		296	551	404	1035	841	350	188	317	-41	-34
30	-69		154	602	444	785	432	314	32	305	-14	-62
31	-84		19		193		670	193		243		-25
Sum	-3415	-2001	2119	9295	9318	20355	21122	(17664.8)	8758	6918	3913	-376

Stará Lesná

Daily and monthly sums of sunshine duration [h]

Year 2010

	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	0.0	4.9	8.3	4.7	3.0	0.0	8.1	10.6	0.0	0.0	4.3	0.0
2	0.0	7.0	6.4	3.1	2.0	2.1	9.9	13.7	9.2	0.0	4.1	3.4
3	0.0	0.0	8.1	10.3	0.0	4.8	10.1	10.2	1.4	8.7	1.1	0.0
4	7.1	8.7	4.9	5.7	4.9	0.0	10.5	0.1	0.0	6.6	1.7	3.9
5	0.0	0.0	4.1	0.0	0.0	14.7	2.5	5.5	4.7	0.0	1.8	6.4
6	0.0	3.0	8.5	3.4	0.3	11.8	8.8	7.6	2.7	9.4	4.9	0.9
7	0.0	0.0	1.4	4.6	0.2	11.8	0.9	9.8	5.9	9.1	0.0	0.7
8	0.0	0.0	8.9	9.2	7.2	7.9	14.7	7.9	0.0	10.1	0.0	1.8
9	0.0	0.1	10.8	6.2	0.2	13.5	14.6	2.6	0.9	10.3	3.6	0.0
10	0.0	2.0	8.8	3.7	2.4	12.7	14.8	8.4	0.1	8.8	1.8	5.3
11	0.1	0.0	0.0	0.0	5.9	12.7	14.1	10.1	0.1	10.3	6.9	1.0
12	0.0	0.0	1.4	0.5	3.8	14.0	12.9	12.4	2.2	10.3	3.0	0.2
13	3.4	0.0	1.1	0.0	5.5	4.8	9.5	7.8	4.0	8.8	4.9	0.0
14	0.0	4.3	0.6	0.0	3.3	1.7	8.3	9.8	0.5	9.8	8.6	4.0
15	6.8	0.6	4.8	1.8	0.4	0.9	10.8	3.2	3.3	4.2	8.2	6.5
16	6.6	0.2	5.1	2.1	0.1	0.0	10.3	3.9	4.0	1.0	0.0	5.4
17	2.9	0.0	5.0	12.7	1.3	14.8	7.7	4.5	0.0	0.3	3.8	6.5
18	0.2	6.0	9.2	9.8	0.7	7.0	1.4	6.2	3.3	0.0	0.0	0.0
19	0.0	1.9	5.8	0.0	0.0	0.0	0.8	9.2	0.2	2.9	0.2	4.0
20	0.0	0.0	8.5	11.2	0.6	6.6	5.9	10.7	9.8	1.3	4.8	3.2
21	0.0	8.5	2.8	10.5	3.4	0.0	10.3	12.8	10.5	4.0	1.7	4.4
22	2.6	2.9	6.0	8.9	7.4	0.0	8.2	11.0	7.7	9.9	0.0	0.0
23	8.2	5.3	6.8	11.9	9.5	12.3	9.0	12.9	10.7	7.2	6.2	0.0
24	6.0	2.6	10.9	11.5	2.2	6.1	5.9	1.4	10.9	1.8	2.2	0.1
25	6.3	5.2	6.8	12.7	10.8	1.7	0.0	2.7	2.8	0.0	4.7	0.0
26	6.8	1.4	2.5	6.9	2.4	1.9	0.1	9.8	0.0	0.0	5.5	0.0
27	5.4	0.0	5.6	7.1	1.3	10.8	0.0	1.3	0.0	6.9	0.0	0.3
28	0.2	4.2	5.4	4.9	6.2	5.9	0.0	0.9	4.4	7.8	0.0	0.3
29	2.8		9.4	11.4	5.9	14.9	8.5	4.6	1.8	9.6	0.0	5.6
30	0.0		2.2	13.1	3.9	8.6	3.9	2.0	0.0	8.9	7.5	7.4
31	0.0		0.8		0.1		0.0	0.0		9.3		0.4
Sum	65.4	68.8	170.9	187.9	94.9	204.0	222.5	213.6	101.1	177.3	91.5	71.7

Stará Lesná

Daily and monthly averages of air temperature [°C]

Year 2010

	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	0.6	-9.1	2.2	5.3	13.7	9.5	16.9		7.0	4.2	8.9	-9.8
2	-1.4	-11.0	-0.5	3.2	12.3	9.8	17.4	18.2	10.6	5.3	8.1	-2.8
3	-7.7	-7.3	-1.6	4.3	12.1	10.6	16.9	18.7	9.1	5.3	7.5	-3.3
4	-12.0	-8.1	-4.1	6.3	12.2	12.7	16.2	14.5	8.4	7.3	8.1	-8.2
5	-8.6	-4.5	-5.0	5.3	10.0	13.2	14.7	16.5	8.4	7.6	10.2	-8.5
6	-4.2	-3.9	-9.0	5.2	10.6	14.1	15.1	18.7	7.6	6.4	8.2	-3.2
7	-3.0	-8.8	-8.0	4.2	9.0	16.3	13.0	16.8	6.6	5.9	6.4	1.6
8	-2.8	-9.2	-9.1	7.0	9.7	17.0	14.2	15.1	8.5	3.1	7.6	4.1
9	2.9	-7.2	-8.6	7.9	9.8	19.6	15.5	14.5	12.1	4.3	6.9	0.1
10	2.3	-4.4	-5.3	3.9	9.9	22.2	18.3	15.7	12.7	3.8	6.2	-6.3
11	-0.8	-2.6	-3.0	2.4	12.2	23.0	20.7	16.8	11.9	3.6	4.3	-10.0
12	-3.7	-2.7	-5.3	5.4	11.4	21.3	21.2	17.6	11.7	4.1	4.3	-5.3
13	-4.8	-2.1	-4.1	4.7	12.9	17.7	20.6	18.1	13.0	2.3	9.0	-6.6
14	-4.8	-3.0	-0.4	4.8	11.6	15.5	20.4	20.5	11.8	3.5	9.8	-11.5
15	-7.0	-4.2	-3.0	4.6	10.1	12.9	21.5	19.8	13.3	3.3	11.6	-12.5
16	-6.3	-5.7	-4.1	4.0	8.2	11.9	22.0	18.7	11.7	4.1	9.4	-8.3
17	-3.5	-4.7	-3.1	4.6	6.8	13.5	21.2	16.8	8.2	3.8	8.2	-10.6
18	-4.2	1.4	1.6	6.8	5.8	13.1	18.2	16.4	9.3	3.4	6.8	-15.0
19	-3.7	2.1	3.9	7.4	5.2	12.3	16.7	16.0	7.7	4.8	6.0	-11.3
20	-7.9	1.1	6.6	9.8	9.8	12.5	19.2	14.1	6.6	3.6	3.0	-1.8
21	-9.0	-2.6	7.8	6.8	11.8	11.8	20.2	16.3	8.9	0.7	3.6	0.4
22	-10.1	-3.3	6.1	2.7	13.2	12.4	19.8	19.0	10.3	1.4	5.8	3.1
23	-11.1	3.4	4.5	4.5	13.1	13.6	19.9	18.7	10.3	4.2	3.7	6.9
24	-12.3	1.7	6.2	8.6	11.5	12.8	19.0	18.3	13.7	7.3	-0.2	4.5
25	-12.0	2.5	8.3	9.8	12.6	11.0	12.1	14.6	13.8	4.5	-1.8	0.4
26	-10.7	1.0	11.2	11.4	10.2	14.0	12.5	14.1	13.3	0.3	-3.1	-7.3
27	-14.1	1.3	8.2	12.2	13.3	16.8	11.9	19.3	8.7	-1.1	-3.4	-12.3
28	-9.2	1.6	3.5	7.9	13.9	17.6	11.5	12.6	8.3	-0.9	-3.9	-12.7
29	-7.2		5.6	10.0	12.2	17.6	15.7	9.1	7.1	1.8	-1.8	-12.8
30	-3.9		9.0	13.9	13.1	18.0	16.3	8.2	4.0	3.0	-8.4	-11.5
31	-5.1		7.2		11.2		16.8	7.7		8.2		-12.3
Average	-6.0	-3.2	0.6	6.5	10.9	14.8	17.3	(15.5)	9.8	3.8	4.7	-5.9

Stará Lesná

Daily and monthly averages of relative air humidity [%]

Year 2010

	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	94	72	68	61	57	87	73		85	84	52	84
2	90	72	58	73	84	85	69	69	54	81	66	78
3	83	74	61	54	83	84	60	67	80	73	82	93
4	78	75	64	45	82	87	52	84	84	72	85	82
5	83	70	47	83	92	61	84	79	75	91	73	62
6	89	53	60	61	92	67	81	79	73	80	71	87
7	91	77	70	74	87	72	65	78	76	73	89	98
8	93	79	59	62	80	77	63	77	84	83	90	96
9	94	79	54	60	82	61	61	83	89	67	70	79
10	94	76	39	71	86	43	58	73	87	77	81	48
11	94	81	70	74	78	42	64	73	87	68	77	77
12	89	90	80	73	89	64	65	67	87	74	67	88
13	85	85	84	77	80	75	75	75	86	81	72	76
14	85	80	79	94	84	88	74	72	82	77	71	86
15	81	85	59	86	83	83	67	81	76	83	59	82
16	82	85	60	86	78	83	59	85	75	87	74	87
17	75	87	66	59	78	58	72	75	94	91	75	76
18	86	88	62	50	82	80	90	70	81	96	94	75
19	88	91	58	81	93	89	87	69	78	94	94	68
20	81	94	58	40	82	84	80	62	73	91	86	68
21	82	76	70	57	77	80	76	69	71	80	89	79
22	75	82	77	47	64	63	74	74	75	67	86	91
23	74	75	70	43	71	43	76	64	77	72	84	87
24	70	90	60	48	80	51	77	67	51	79	73	98
25	56	83	58	41	70	76	92	74	60	97	71	98
26	62	93	59	47	88	68	85	65	93	89	70	89
27	68	90	56	47	89	49	92	68	91	70	84	81
28	72	61	63	57	80	66	93	80	75	71	86	82
29	77		57	51	83	56	73	74	85	69	91	75
30	79		50	43	82	66	84	78	85	60	72	74
31	75		63		89		85	84		49		84
Average	81	80	62	62	81	70	74	(71)	79	78	78	82

Stará Lesná

Daily and monthly averages of atmospheric pressure [hPa]

Year 2010

	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	898.2	909.6	910.5	915.6	917.7	909.6	924.2		910.7	921.8	920.7	911.1
2	905.5	915.3	918.3	919.4	917.3	911.2	925.1	923.2	917.1	925.2	921.4	908.7
3	913.5	913.4	920.2	921.5	917.5	914.8	924.2	918.5	922.9	926.9	922.1	910.5
4	917.5	923.0	915.0	922.6	919.7	917.2	923.6	918.1	923.6	924.6	925.2	918.7
5	913.2	922.3	914.0	922.0	919.2	925.9	921.9	917.2	923.2	923.0	924.1	917.8
6	905.0	916.0	916.3	924.2	913.1	923.1	920.8	918.0	923.8	925.8	917.9	909.5
7	911.1	916.0	925.0	927.0	912.4	918.9	922.9	920.3	921.8	930.1	912.3	908.6
8	916.7	913.0	925.5	928.0	916.1	919.6	926.4	922.1	920.6	932.1	899.2	910.0
9	910.9	910.5	924.8	927.2	915.5	920.2	928.6	923.5	921.2	928.6	894.8	907.5
10	909.4	909.6	926.5	923.4	914.8	920.5	928.6	923.9	925.0	922.3	900.1	916.0
11	914.6	905.0	916.3	921.0	917.0	917.7	927.2	924.1	925.3	920.7	911.6	914.0
12	917.0	909.6	913.1	921.2	915.1	917.1	924.4	923.6	925.8	920.7	906.9	905.5
13	916.0	908.8	914.1	920.3	913.2	919.4	920.1	924.1	924.6	920.7	911.0	909.5
14	917.2	911.7	912.5	916.5	911.4	918.6	920.9	925.0	924.1	916.9	915.9	914.5
15	924.1	910.6	915.0	915.8	910.4	923.8	922.8	924.8	920.1	915.5	917.7	916.5
16	929.7	911.2	918.1	918.2	903.7	923.2	926.5	920.9	917.9	916.0	918.7	906.9
17	924.6	909.7	926.2	923.2	910.5	923.5	925.6	918.6	918.6	920.3	915.7	904.2
18	924.7	906.6	927.6	923.5	914.8	916.1	925.6	917.4	920.9	921.5	915.2	903.8
19	923.3	905.5	927.0	917.2	920.6	910.8	927.8	920.4	921.4	914.4	920.6	909.2
20	918.9	898.8	923.1	917.6	924.3	912.8	925.6	927.8	924.9	910.4	921.1	908.6
21	922.2	906.0	920.6	915.6	924.4	915.9	922.5	930.2	925.9	920.3	918.7	914.3
22	926.6	909.1	924.8	918.7	923.5	917.9	922.8	927.1	928.1	925.7	909.0	913.8
23	927.9	906.5	924.8	921.4	922.6	919.3	921.5	920.1	926.1	921.9	901.1	911.3
24	929.5	908.3	925.0	925.0	917.7	918.0	915.6	917.6	919.1	917.2	903.5	906.1
25	933.1	910.8	924.8	930.0	915.6	916.8	915.4	920.9	913.8	919.1	908.2	905.9
26	932.5	907.9	920.0	928.0	917.1	918.3	917.2	921.2	910.3	924.1	907.2	917.9
27	924.8	909.7	913.3	927.4	916.0	922.2	917.4	914.2	911.5	928.9	905.4	921.8
28	903.4	909.3	915.3	928.8	919.4	924.6	915.3	913.3	912.9	926.8	875.0	921.2
29	898.6		917.3	925.3	923.4	924.0	916.8	918.6	916.8	925.2	900.2	923.5
30	896.3		913.7	919.3	917.9	924.1	919.9	916.4	919.2	921.2	913.5	923.0
31	902.4		910.0		910.2		923.2	909.3		920.6		920.7
Average	916.4	910.5	919.3	922.2	916.5	918.8	922.6	(891.0)	920.6	922.2	911.1	912.6

Stará Lesná

Daily and monthly averages of soil temperature at 2cm depth [°C]

Year 2010

	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	-1.3	-2.5	-2.3	3.2	10.1	11.3	16.0		13.5	11.3	6.4	3.1
2	-0.8	-3.0	-2.2	2.6	10.0	11.6	16.3	20.5	14.2	11.5	6.8	2.9
3	-0.8	-2.9	-2.1	3.9	9.9	11.5	16.6	20.2	14.6	11.3	6.8	2.7
4	-1.4	-2.8	-2.0	3.5	10.4	11.5	16.1	19.5	14.3	10.8	7.3	2.8
5	-1.7	-2.7	-2.1	3.7	10.3	12.9	15.7	19.5	14.4	11.1	7.7	2.6
6	-1.6	-2.4	-2.1	4.0	9.6	13.9	17.1	20.3	14.4	10.9	7.4	2.5
7	-1.4	-2.4	-1.9	4.6	9.6	15.1	17.8	20.0	13.8	10.5	7.5	2.5
8	-1.4	-2.5	-2.5	5.6	9.8	15.7	18.7	19.4	13.5	9.7	7.5	2.3
9	-1.2	-2.5	-2.7	5.7	10.3	16.6	19.1	18.9	14.0	9.4	7.3	2.2
10	-1.0	-2.5	-2.8	5.8	10.2	17.2	19.4	19.2	14.4	9.3	7.1	2.5
11	-0.9	-2.3	-2.5	4.8	10.9	17.8	20.1	19.7	14.3	8.8	6.8	2.2
12	-1.1	-2.2	-2.3	5.0	11.2	18.2	20.8	20.1	14.9	8.6	6.0	2.1
13	-1.3	-2.0	-1.9	4.7	11.9	17.8	20.9	20.2	15.7	8.2	6.3	2.2
14	-1.7	-2.2	-1.7	4.3	12.3	16.6	20.8	20.7	15.4	7.8	6.8	2.2
15	-2.1	-2.4	-1.9	5.0	12.0	16.0	21.1	20.2	15.3	7.8	7.3	2.1
16	-2.0	-2.6	-2.1	4.8	10.3	14.8	21.5	20.0	15.1	8.5	7.4	1.6
17	-2.0	-2.6	-2.4	5.8	9.3	15.4	20.9	19.8	13.5	8.4	7.1	1.8
18	-2.2	-2.5	-2.1	6.0	8.8	15.0	19.8	19.0	13.6	8.0	6.9	1.9
19	-2.2	-2.3	-2.3	6.8	8.2	14.6	19.8	18.8	13.2	8.7	6.8	1.8
20	-2.0	-2.0	-2.2	7.1	9.4	14.9	20.9	18.7	12.7	8.8	6.2	1.6
21	-2.0	-1.9	-2.3	7.6	10.3	13.9	21.4	18.7	12.9	7.6	5.9	1.8
22	-2.1	-2.1	-2.4	7.7	11.1	13.1	21.2	19.1	13.4	6.1	6.2	1.6
23	-1.9	-2.0	-2.3	7.3	12.8	14.1	21.2	19.3	13.4	6.6	6.0	1.3
24	-1.9	-2.0	-1.6	8.2	12.2	14.3	21.0	19.0	13.2	7.3	5.3	1.9
25	-2.5	-2.2	-0.4	8.9	12.3	14.0	19.0	18.5	13.7	7.5	4.6	2.4
26	-2.8	-2.5	1.7	8.9	11.4	14.6	18.2	17.9	14.0	6.6	2.9	2.1
27	-3.1	-2.3	2.7	9.6	12.4	15.6	17.8	18.2	13.4	5.2	2.6	1.8
28	-3.1	-2.2	1.9	8.9	12.9	16.2	16.6	17.4	12.8	4.4	3.2	1.4
29	-3.0		1.9	9.0	13.2	16.6	18.2	16.3	12.8	4.7	3.4	1.2
30	-2.5		3.0	10.0	13.4	16.4	18.3	15.5	11.9	4.8	3.3	0.9
31	-2.3		3.0		13.0		18.7	14.7		5.7		0.7
Average	-1.8	-2.4	-1.3	6.1	11.0	14.9	19.1	(18.4)	13.9	8.3	6.1	2.0

Stará Lesná

Daily and monthly averages of soil temperature at 20cm depth [°C]

Year 2010

	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	-0.8	-1.9	-2.1	2.5	9.1	11.6	15.3		14.9	12.2	6.7	3.9
2	-0.4	-2.2	-2.0	2.4	9.2	11.1	15.2	19.2	14.4	12.1	7.0	3.6
3	-0.2	-2.2	-1.8	3.0	9.2	11.3	15.6	19.3	14.9	12.0	7.1	3.5
4	-0.6	-2.1	-1.7	3.2	9.3	11.3	15.3	19.4	14.8	11.5	7.4	3.5
5	-0.8	-2.1	-1.8	3.3	9.7	11.6	15.2	19.0	14.7	11.5	7.7	3.2
6	-0.8	-1.9	-1.6	3.4	9.3	12.4	16.7	19.3	14.6	11.5	7.8	3.2
7	-0.8	-1.9	-1.5	3.8	9.2	13.4	17.6	19.3	14.3	11.2	7.8	3.2
8	-0.8	-2.0	-2.0	4.5	9.1	14.1	17.7	19.1	14.2	10.7	7.6	2.9
9	-0.6	-2.0	-2.1	5.0	9.6	14.6	18.1	18.8	14.2	10.5	7.7	2.9
10	-0.6	-2.0	-2.1	5.3	9.7	15.3	18.3	18.6	14.3	10.3	7.5	3.1
11	-0.6	-1.9	-2.1	4.9	9.9	15.8	18.6	19.0	14.3	9.8	7.4	3.0
12	-0.6	-1.9	-2.1	4.6	10.3	16.2	19.1	19.2	14.6	9.5	6.9	2.7
13	-0.8	-1.7	-1.5	4.6	10.7	16.5	19.5	19.4	15.1	9.3	6.7	2.8
14	-1.2	-1.9	-1.4	4.2	11.2	16.0	19.5	19.7	15.3	8.9	7.2	2.8
15	-1.4	-2.2	-1.6	4.5	11.3	15.4	19.7	19.9	15.1	8.7	7.4	2.7
16	-1.3	-2.4	-1.8	4.6	10.7	14.9	20.0	19.7	15.2	9.1	7.6	2.2
17	-1.4	-2.3	-2.1	5.0	9.6	14.6	19.8	19.6	14.4	9.1	7.5	2.4
18	-1.6	-2.2	-1.8	5.5	9.1	14.7	19.4	19.0	13.9	8.6	7.3	2.6
19	-1.6	-2.0	-2.0	6.1	8.6	14.5	19.3	18.8	13.8	9.0	7.2	2.4
20	-1.4	-1.8	-2.0	6.2	8.8	14.3	19.6	18.7	13.2	9.3	6.9	2.2
21	-1.4	-1.7	-2.0	6.8	9.5	14.1	20.1	18.4	13.2	8.7	6.5	2.3
22	-1.5	-1.9	-2.1	7.0	10.1	13.3	20.3	18.6	13.6	7.7	6.6	2.2
23	-1.3	-1.9	-2.1	6.9	11.1	13.3	20.2	18.8	13.6	7.6	6.5	1.9
24	-1.3	-1.8	-1.9	7.3	11.5	13.8	20.1	18.9	13.4	7.9	6.2	2.1
25	-1.8	-2.1	-1.0	7.9	11.4	13.7	19.7	18.5	13.7	8.0	5.7	2.6
26	-2.1	-2.3	0.4	8.0	11.1	13.7	18.4	18.0	14.0	7.6	4.7	2.6
27	-2.2	-2.1	1.5	8.4	11.4	14.3	18.1	18.0	13.8	6.8	4.1	2.4
28	-2.3	-2.0	1.6	8.5	11.7	14.9	17.4	17.7	13.2	6.0	4.1	2.1
29	-2.3		1.5	8.2	12.2	15.2	17.4	17.1	13.2	5.9	4.2	1.9
30	-2.0		2.2	8.8	12.4	15.3	18.0	16.4	12.8	5.9	4.1	1.6
31	-1.8		2.6		12.5		18.1	15.7		6.3		1.4
Average	-1.2	-2.0	-1.2	5.5	10.3	14.0	18.3	(18.1)	14.1	9.1	6.6	2.6

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