

ECHO - LOG

Heiligerlee K

8. Messung

19.12.2017

174 097



**Bericht über die Ergebnisse der
echometrischen Hohlraumvermessung
in der Kaverne**

Heiligerlee K

Datum: 19.12.2017

Berichtsnummer: 174 097

Auftraggeber: N.V. Nederlandse Gasunie Heiligerlee

Verantwortlich für die Vermessung:

Messtechniker :

Truppleiter :

Auswertung :

Kontrolle:



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Zusammenfassung der Ergebnisse

Angaben zur Bohrung

Alle Teufenangaben sind:

MD-Angaben

Bezugsebene der Teufenangaben:

Erdoberfläche

Zementierter Rohrschuh: 10 3/4":

981.0 m

Bezugsteufe der Sonarvermessung:

981.0 m

Teufe des Stickstoff-Spiegels:

1499.3 m

Druck am Kavernenkopf:

123.9 bar

Angaben zum Messequipment

Eingesetztes Messfahrzeug:

L 118

Eingesetzte Messsonden:

Echosonde BSF 2 64

Allgemeine Angaben zur Durchführung der Messung

Anzahl der Einfahrten:

2

Horizontal gemessene Echogramme:

203

Gekippt gemessene Echogramme:

17

Tiefste Messposition:

1505.0 m

Ausdehnungen bezogen auf die Messachse

Richtungsbezug:

Magnetisch Nord

Ermittlung aus 12 Vertikalschnitten, abgeleitet aus Horizontal- und Kippdaten in 15°-Schritten:

minimaler Radius:	0.0 m
Teufe:	1507.6 m
Richtung:	0°

maximaler Radius:	34.4 m
Teufe:	1445.0 m
Richtung:	315°

höchster Punkt:	1012.5 m
Entfernung:	0.2 m
Richtung:	0°

tiefster Punkt:	1508.0 m
Entfernung:	9.1 m
Richtung:	345°

tiefster Punkt in der Messachse:	1507.6 m
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Ermittlung aus 204 Horizontalschnitten zwischen 1012.5 m und 1506.0 m in 5/15°-Schritten:

maximaler Radius:	34.4 m
Teufe:	1445.0 m
Richtung:	315°

maximaler Durchmesser:	65.2 m
Teufe:	1412.5 m
Richtung:	135 - 315°

Volumen

Volumen:	807493.7 m ³
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Teufenbereich:	1012.5 m <--> 1506.0 m
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Interpretation

Unter Voraussetzung eines geradlinigen Strahlenweges wurden die gemessenen Laufzeitdaten in Entfernungen mit den nachfolgend angegebenen Schallgeschwindigkeiten umgerechnet:

404.3 m/s bis 409.2 m/s in Stickstoff (gemessen)
1830.0 m/s in Sole (angenommen)

Wurden in einer Echospur mehrere Echos registriert, erfolgte die Auswahl des repräsentativen Echos entsprechend der Amplitudenhöhe, Laufzeit, Messpunktdichte und Kavernenform.

Horizontalschnitte

203 Horizontalschnitte in folgenden Messteufen sind dem Bericht als grafische Ausgaben beigelegt:

1012.5 m	1014.0 m	1014.5 m	1015.0 m	1015.5 m	1016.0 m	1017.5 m
1020.0 m	1022.5 m	1025.0 m	1027.5 m	1030.0 m	1032.5 m	1035.0 m
1037.5 m	1040.0 m	1042.5 m	1045.0 m	1047.5 m	1050.0 m	1052.5 m
1055.0 m	1057.5 m	1060.0 m	1062.5 m	1065.0 m	1067.5 m	1070.0 m
1072.5 m	1075.0 m	1077.5 m	1080.0 m	1082.5 m	1085.0 m	1087.5 m
1090.0 m	1092.5 m	1095.0 m	1097.5 m	1100.0 m	1102.5 m	1105.0 m
1107.5 m	1110.0 m	1112.5 m	1115.0 m	1117.5 m	1120.0 m	1122.5 m
1125.0 m	1127.5 m	1130.0 m	1132.5 m	1135.0 m	1137.5 m	1140.0 m
1142.5 m	1145.0 m	1147.5 m	1150.0 m	1152.5 m	1155.0 m	1157.5 m
1160.0 m	1162.5 m	1165.0 m	1167.5 m	1170.0 m	1172.5 m	1175.0 m
1177.5 m	1180.0 m	1182.5 m	1185.0 m	1187.5 m	1190.0 m	1192.5 m
1195.0 m	1197.5 m	1200.0 m	1202.5 m	1205.0 m	1207.5 m	1210.0 m
1212.5 m	1215.0 m	1217.5 m	1220.0 m	1222.5 m	1225.0 m	1227.5 m
1230.0 m	1232.5 m	1235.0 m	1237.5 m	1240.0 m	1242.5 m	1245.0 m
1247.5 m	1250.0 m	1252.5 m	1255.0 m	1257.5 m	1260.0 m	1262.5 m
1265.0 m	1267.5 m	1270.0 m	1272.5 m	1275.0 m	1277.5 m	1280.0 m
1282.5 m	1285.0 m	1287.5 m	1290.0 m	1292.5 m	1295.0 m	1297.5 m
1300.0 m	1302.5 m	1305.0 m	1307.5 m	1310.0 m	1312.5 m	1315.0 m
1317.5 m	1320.0 m	1322.5 m	1325.0 m	1327.5 m	1330.0 m	1332.5 m
1335.0 m	1337.5 m	1340.0 m	1342.5 m	1345.0 m	1347.5 m	1350.0 m
1352.5 m	1355.0 m	1357.5 m	1360.0 m	1362.5 m	1365.0 m	1367.5 m
1370.0 m	1372.5 m	1375.0 m	1377.5 m	1380.0 m	1382.5 m	1385.0 m
1387.5 m	1390.0 m	1392.5 m	1395.0 m	1397.5 m	1400.0 m	1402.5 m
1405.0 m	1407.5 m	1410.0 m	1412.5 m	1415.0 m	1417.5 m	1420.0 m
1422.5 m	1425.0 m	1427.5 m	1430.0 m	1432.5 m	1435.0 m	1437.5 m
1440.0 m	1442.5 m	1445.0 m	1447.5 m	1450.0 m	1452.5 m	1455.0 m
1457.5 m	1460.0 m	1462.5 m	1465.0 m	1467.5 m	1470.0 m	1472.5 m
1475.0 m	1477.5 m	1480.0 m	1482.5 m	1485.0 m	1487.5 m	1490.0 m
1492.5 m	1495.0 m	1497.5 m	1500.0 m	1501.5 m	1503.0 m	1505.0 m

Es wurden 1 Schnitte durch Konstruktion ermittelt:
1506.0 m

Kippschnitte

17 Kippschnitte in folgenden Messteufen sind in den Vertikalschnitten dargestellt:

7 Schnitte mit aufwärts gerichtetem Ultraschallwandler:

Teufe / Kippwinkel

1028.0 / 48 1028.0 / 54 1028.0 / 60 1028.0 / 66 1028.0 / 66 1028.0 / 72
1028.0 / 78

10 Schnitte mit abwärts gerichtetem Ultraschallwandler:

Teufe / Kippwinkel

1503.0 / 12 1503.0 / 24 1503.0 / 36 1503.0 / 48 1503.0 / 54 1503.0 / 60
1503.0 / 66 1503.0 / 72 1503.0 / 78 1503.0 / 84

Vertikalschnitte

Durch gemeinsame Interpretation aller richtungsbezogenen Daten wurde der Verlauf der Kavernenwand ermittelt und in 12 Vertikalschnitten dargestellt.

Maxplots (grundrisslich)

Die erste Abbildung im Abschnitt Horizontalschnitte zeigt die Flächen aller Horizontalschnitte und die durch die Vertikalschnitte gebildete Fläche (schraffiert). Die resultierende Gesamtfläche ist in der zweiten Abbildung dargestellt (Kreuzschraffur), wobei zur Übersicht die größte Einzelfläche mit eingeblendet wird.

Der aus der Umhüllenden (Verbindungsline der größten horizontalen Kavernenausdehnung in jeder Messrichtung) ermittelte Gesamtschwerpunkt der Kaverne ist in beiden Abbildungen mit Entfernungs- und Richtungsangabe bezüglich der Messachse eingezeichnet.

Perspektivansichten

Zur besseren Übersicht enthält dieser Bericht diverse Perspektivansichten.



Einblendung von Daten aus älteren Messungen

Liegen für einzelne Messteufen Daten älterer Messungen vor, sind diese zur Hervorhebung von Veränderungen mit einer anderen Signatur in den entsprechenden Anlagen dargestellt.

Hintersolungen

Mit geneigtem Messkopf festgestellte Hintersolungen wurden anhand der Vertikalschnitte in die entsprechenden Horizontalschnitte übertragen.

Die ermittelten Zusatzflächen sind zu den bereits erfassten Flächen addiert worden.

LOG - Daten

Am Ende des Berichtes sind die grafischen Ausgaben folgender LOG - Daten zusammengefasst:

Parameter	von	bis
Kombi-Log:	970.0 m	1499.0 m

LEGENDE

- Messwert, ermittelt mit horizontal ausgerichtetem Ultraschallwandler
- Messwert, ermittelt mit ausgekipptem Ultraschallwandler
- ▲ konstruierter Wert, aus Vertikalschnitten abgeleitet

- Verbindungslinie zwischen zwei Messwerten zur Berechnung des Volumens
- angenommener Verlauf (in Bereichen, die nicht ausreichend durch Messwerte belegt sind)

- GiN** Gitter-Nord

- N** Magnetisch Nord mit Sondenkompass ermittelt
(Magnetkompass im unverrohrten Bereich)
(Faserkreiselkompass im verrohrten Bereich)

- (N)** Angenommene Nordrichtung (Messung im magnetisch gestörten Umfeld ohne Faserkreiselkompass)

- a** größte Ausdehnung im Schnitt
(ohne Berücksichtigung von Hintersolungsflächen)

- b** größte zu a senkrechte Ausdehnung
(ohne Berücksichtigung von Hintersolungsflächen)

- a/b** Verhältnis der größten zueinander senkrechten Ausdehnungen im Schnitt

- (+ xx m²)** Hintersolungsfläche im aktuellen Horizontalschnitt

- r~** mittlerer Radius



Volumenliste

Kaverne: Heiligerlee K

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19.12.2017

Tiefe [m]	Radius [m]	Fläche [m²]	Tiefenbereich [m]		Volumen [m³]	
			von	bis	partial	gesamt
1012.5	0.3	0.2	1012.50	1013.25	0.2	0.2
1014.0	0.4	0.5	1013.25	1014.25	0.5	0.7
1014.5	0.4	0.6	1014.25	1014.75	0.3	1.0
1015.0	0.5	0.8	1014.75	1015.25	0.4	1.4
1015.5	1.8	9.8	1015.25	1015.75	4.9	6.3
1016.0	1.8	10.5	1015.75	1016.75	10.5	16.8
1017.5	12.8	518.5	1016.75	1018.75	1037.0	1053.9
1020.0	13.3	552.6	1018.75	1021.25	1381.6	2435.5
1022.5	13.6	577.6	1021.25	1023.75	1443.9	3879.4
1025.0	13.8	598.2	1023.75	1026.25	1495.4	5374.8
1027.5	14.0	615.5	1026.25	1028.75	1538.7	6913.5
1030.0	14.1	628.8	1028.75	1031.25	1572.0	8485.4
1032.5	14.3	638.4	1031.25	1033.75	1596.0	10081.5
1035.0	14.4	648.3	1033.75	1036.25	1620.7	11702.2
1037.5	14.5	656.3	1036.25	1038.75	1640.9	13343.0
1040.0	14.5	663.8	1038.75	1041.25	1659.4	15002.5
1042.5	14.6	671.3	1041.25	1043.75	1678.3	16680.7
1045.0	14.7	677.9	1043.75	1046.25	1694.6	18375.4
1047.5	14.8	684.6	1046.25	1048.75	1711.4	20086.8
1050.0	14.8	690.8	1048.75	1051.25	1727.0	21813.8
1052.5	14.9	697.0	1051.25	1053.75	1742.5	23556.4
1055.0	15.0	704.5	1053.75	1056.25	1761.2	25317.6
1057.5	15.0	711.0	1056.25	1058.75	1777.6	27095.2
1060.0	15.1	717.3	1058.75	1061.25	1793.2	28888.4
1062.5	15.2	724.0	1061.25	1063.75	1810.0	30698.4
1065.0	15.3	731.6	1063.75	1066.25	1829.1	32527.4
1067.5	15.4	740.9	1066.25	1068.75	1852.3	34379.8
1070.0	15.4	749.3	1068.75	1071.25	1873.2	36253.0
1072.5	15.5	757.2	1071.25	1073.75	1892.9	38145.9
1075.0	15.6	765.6	1073.75	1076.25	1914.0	40059.9
1077.5	15.7	772.3	1076.25	1078.75	1930.7	41990.7
1080.0	15.8	780.3	1078.75	1081.25	1950.7	43941.4
1082.5	15.8	788.4	1081.25	1083.75	1970.9	45912.3
1085.0	15.9	797.1	1083.75	1086.25	1992.7	47905.0
1087.5	16.0	806.7	1086.25	1088.75	2016.8	49921.9
1090.0	16.1	816.8	1088.75	1091.25	2042.0	51963.9
1092.5	16.2	827.8	1091.25	1093.75	2069.5	54033.5
1095.0	16.3	837.8	1093.75	1096.25	2094.6	56128.1
1097.5	16.4	847.7	1096.25	1098.75	2119.2	58247.3
1100.0	16.5	858.3	1098.75	1101.25	2145.7	60393.0
1102.5	16.6	869.6	1101.25	1103.75	2174.1	62567.1
1105.0	16.7	878.9	1103.75	1106.25	2197.3	64764.4
1107.5	16.8	890.1	1106.25	1108.75	2225.2	66989.5
1110.0	16.9	900.2	1108.75	1111.25	2250.4	69240.0
1112.5	17.0	911.5	1111.25	1113.75	2278.9	71518.8
1115.0	17.1	922.9	1113.75	1116.25	2307.1	73826.0
1117.5	17.2	934.8	1116.25	1118.75	2337.0	76162.9
1120.0	17.4	946.5	1118.75	1121.25	2366.2	78529.1
1122.5	17.4	955.4	1121.25	1123.75	2388.5	80917.6

Volumenliste

Kaverne: Heiligerlee K

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Tiefe [m]	Radius [m]	Fläche [m²]	Tiefenbereich [m]		Volumen [m³]	
			von	bis	partial	gesamt
1125.0	17.6	968.6	1123.75	1126.25	2421.4	83339.0
1127.5	17.6	977.6	1126.25	1128.75	2444.0	85783.0
1130.0	17.8	990.1	1128.75	1131.25	2475.3	88258.3
1132.5	17.9	1002.4	1131.25	1133.75	2505.9	90764.2
1135.0	18.0	1013.0	1133.75	1136.25	2532.5	93296.7
1137.5	18.0	1023.4	1136.25	1138.75	2558.6	95855.3
1140.0	18.2	1036.5	1138.75	1141.25	2591.3	98446.5
1142.5	18.3	1048.6	1141.25	1143.75	2621.4	101068.0
1145.0	18.4	1061.0	1143.75	1146.25	2652.6	103720.6
1147.5	18.5	1074.8	1146.25	1148.75	2687.0	106407.5
1150.0	18.6	1087.0	1148.75	1151.25	2717.6	109125.1
1152.5	18.7	1098.2	1151.25	1153.75	2745.5	111870.6
1155.0	18.8	1110.0	1153.75	1156.25	2774.9	114645.6
1157.5	18.9	1124.6	1156.25	1158.75	2811.6	117457.1
1160.0	19.0	1135.3	1158.75	1161.25	2838.3	120295.4
1162.5	19.1	1148.9	1161.25	1163.75	2872.2	123167.6
1165.0	19.2	1160.9	1163.75	1166.25	2902.2	126069.9
1167.5	19.3	1174.5	1166.25	1168.75	2936.2	129006.1
1170.0	19.4	1184.6	1168.75	1171.25	2961.5	131967.5
1172.5	19.5	1198.1	1171.25	1173.75	2995.3	134962.8
1175.0	19.6	1209.6	1173.75	1176.25	3024.0	137986.9
1177.5	19.7	1223.0	1176.25	1178.75	3057.5	141044.4
1180.0	19.8	1237.1	1178.75	1181.25	3092.7	144137.1
1182.5	19.9	1247.7	1181.25	1183.75	3119.3	147256.3
1185.0	20.0	1261.6	1183.75	1186.25	3153.9	150410.3
1187.5	20.1	1273.3	1186.25	1188.75	3183.3	153593.6
1190.0	20.2	1287.5	1188.75	1191.25	3218.7	156812.3
1192.5	20.3	1298.9	1191.25	1193.75	3247.2	160059.6
1195.0	20.4	1313.1	1193.75	1196.25	3282.8	163342.4
1197.5	20.5	1325.1	1196.25	1198.75	3312.8	166655.2
1200.0	20.6	1338.9	1198.75	1201.25	3347.3	170002.5
1202.5	20.7	1352.0	1201.25	1203.75	3379.9	173382.4
1205.0	20.8	1364.9	1203.75	1206.25	3412.3	176794.6
1207.5	20.9	1377.6	1206.25	1208.75	3444.1	180238.7
1210.0	21.0	1391.8	1208.75	1211.25	3479.5	183718.3
1212.5	21.1	1403.8	1211.25	1213.75	3509.5	187227.8
1215.0	21.2	1416.2	1213.75	1216.25	3540.5	190768.3
1217.5	21.3	1426.8	1216.25	1218.75	3567.1	194335.4
1220.0	21.4	1439.0	1218.75	1221.25	3597.6	197933.0
1222.5	21.5	1450.4	1221.25	1223.75	3625.9	201558.9
1225.0	21.6	1464.6	1223.75	1226.25	3661.4	205220.3
1227.5	21.7	1478.3	1226.25	1228.75	3695.7	208916.0
1230.0	21.8	1492.3	1228.75	1231.25	3730.7	212646.7
1232.5	21.9	1506.6	1231.25	1233.75	3766.4	216413.1
1235.0	22.0	1519.6	1233.75	1236.25	3799.0	220212.2
1237.5	22.1	1533.9	1236.25	1238.75	3834.7	224046.9
1240.0	22.2	1550.1	1238.75	1241.25	3875.2	227922.1
1242.5	22.3	1563.4	1241.25	1243.75	3908.6	231830.6
1245.0	22.4	1576.6	1243.75	1246.25	3941.4	235772.0
1247.5	22.5	1591.5	1246.25	1248.75	3978.7	239750.7

Volumenliste

Kaverne: Heiligerlee K

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Tiefe [m]	Radius [m]	Fläche [m²]	Tiefenbereich [m]		Volumen [m³]	
			von	bis	partial	gesamt
1250.0	22.6	1607.1	1248.75	1251.25	4017.7	243768.3
1252.5	22.7	1621.1	1251.25	1253.75	4052.8	247821.2
1255.0	22.8	1638.4	1253.75	1256.25	4095.9	251917.1
1257.5	23.0	1656.1	1256.25	1258.75	4140.1	256057.2
1260.0	23.1	1671.0	1258.75	1261.25	4177.4	260234.6
1262.5	23.2	1688.2	1261.25	1263.75	4220.6	264455.2
1265.0	23.3	1703.7	1263.75	1266.25	4259.3	268714.5
1267.5	23.4	1716.7	1266.25	1268.75	4291.9	273006.4
1270.0	23.5	1731.2	1268.75	1271.25	4328.1	277334.4
1272.5	23.6	1746.8	1271.25	1273.75	4366.9	281701.3
1275.0	23.7	1769.1	1273.75	1276.25	4422.7	286124.0
1277.5	23.8	1786.4	1276.25	1278.75	4466.1	290590.1
1280.0	24.0	1808.0	1278.75	1281.25	4520.0	295110.1
1282.5	24.1	1825.0	1281.25	1283.75	4562.6	299672.7
1285.0	24.2	1840.4	1283.75	1286.25	4601.1	304273.8
1287.5	24.3	1855.4	1286.25	1288.75	4638.6	308912.3
1290.0	24.4	1872.6	1288.75	1291.25	4681.6	313593.9
1292.5	24.5	1890.2	1291.25	1293.75	4725.4	318319.3
1295.0	24.6	1904.9	1293.75	1296.25	4762.1	323081.5
1297.5	24.7	1920.9	1296.25	1298.75	4802.2	327883.7
1300.0	24.9	1940.0	1298.75	1301.25	4850.0	332733.7
1302.5	25.0	1958.0	1301.25	1303.75	4895.0	337628.7
1305.0	25.1	1979.3	1303.75	1306.25	4948.2	342576.9
1307.5	25.2	1998.1	1306.25	1308.75	4995.1	347572.1
1310.0	25.3	2018.0	1308.75	1311.25	5045.1	352617.1
1312.5	25.5	2044.0	1311.25	1313.75	5109.9	357727.0
1315.0	25.6	2059.9	1313.75	1316.25	5149.6	362876.6
1317.5	25.7	2082.2	1316.25	1318.75	5205.5	368082.1
1320.0	25.9	2102.6	1318.75	1321.25	5256.5	373338.7
1322.5	26.0	2122.1	1321.25	1323.75	5305.2	378643.8
1325.0	26.1	2141.7	1323.75	1326.25	5354.2	383998.0
1327.5	26.2	2156.7	1326.25	1328.75	5391.8	389389.8
1330.0	26.3	2179.3	1328.75	1331.25	5448.2	394838.0
1332.5	26.4	2197.8	1331.25	1333.75	5494.6	400332.6
1335.0	26.6	2221.2	1333.75	1336.25	5552.9	405885.5
1337.5	26.7	2243.2	1336.25	1338.75	5608.0	411493.6
1340.0	26.8	2263.6	1338.75	1341.25	5659.0	417152.6
1342.5	27.0	2288.7	1341.25	1343.75	5721.7	422874.2
1345.0	27.1	2305.3	1343.75	1346.25	5763.4	428637.6
1347.5	27.2	2331.2	1346.25	1348.75	5828.1	434465.7
1350.0	27.3	2348.1	1348.75	1351.25	5870.1	440335.8
1352.5	27.5	2379.0	1351.25	1353.75	5947.5	446283.4
1355.0	27.7	2402.2	1353.75	1356.25	6005.5	452288.9
1357.5	27.8	2423.5	1356.25	1358.75	6058.7	458347.6
1360.0	27.9	2444.5	1358.75	1361.25	6111.2	464458.8
1362.5	28.0	2465.1	1361.25	1363.75	6162.7	470621.5
1365.0	28.1	2485.4	1363.75	1366.25	6213.6	476835.0
1367.5	28.2	2506.9	1366.25	1368.75	6267.2	483102.2
1370.0	28.4	2528.6	1368.75	1371.25	6321.5	489423.7
1372.5	28.5	2546.9	1371.25	1373.75	6367.1	495790.8

Volumenliste

Kaverne: Heiligerlee K

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Tiefe [m]	Radius [m]	Fläche [m²]	Tiefenbereich [m]		Volumen [m³]	
			von	bis	partial	gesamt
1375.0	28.6	2562.6	1373.75	1376.25	6406.6	502197.4
1377.5	28.7	2582.7	1376.25	1378.75	6456.8	508654.1
1380.0	28.8	2598.8	1378.75	1381.25	6497.1	515151.2
1382.5	28.8	2601.9	1381.25	1383.75	6504.8	521656.1
1385.0	28.9	2616.1	1383.75	1386.25	6540.3	528196.4
1387.5	28.9	2622.8	1386.25	1388.75	6556.9	534753.3
1390.0	28.9	2630.2	1388.75	1391.25	6575.5	541328.8
1392.5	28.9	2629.1	1391.25	1393.75	6572.8	547901.6
1395.0	28.9	2631.6	1393.75	1396.25	6579.0	554480.6
1397.5	28.9	2629.5	1396.25	1398.75	6573.7	561054.3
1400.0	28.9	2627.5	1398.75	1401.25	6568.8	567623.1
1402.5	28.9	2627.4	1401.25	1403.75	6568.6	574191.7
1405.0	28.9	2623.1	1403.75	1406.25	6557.7	580749.4
1407.5	28.9	2620.4	1406.25	1408.75	6551.1	587300.5
1410.0	28.9	2622.3	1408.75	1411.25	6555.8	593856.3
1412.5	28.9	2622.6	1411.25	1413.75	6556.6	600412.9
1415.0	28.9	2620.7	1413.75	1416.25	6551.7	606964.6
1417.5	28.9	2627.3	1416.25	1418.75	6568.2	613532.7
1420.0	28.9	2618.3	1418.75	1421.25	6545.7	620078.4
1422.5	28.9	2626.4	1421.25	1423.75	6565.9	626644.3
1425.0	29.0	2635.7	1423.75	1426.25	6589.2	633233.6
1427.5	29.0	2649.5	1426.25	1428.75	6623.7	639857.3
1430.0	29.1	2668.6	1428.75	1431.25	6671.5	646528.7
1432.5	29.2	2676.4	1431.25	1433.75	6690.9	653219.6
1435.0	29.3	2691.8	1433.75	1436.25	6729.5	659949.1
1437.5	29.3	2704.3	1436.25	1438.75	6760.8	666710.0
1440.0	29.4	2719.8	1438.75	1441.25	6799.6	673509.6
1442.5	29.5	2729.4	1441.25	1443.75	6823.4	680333.0
1445.0	29.5	2741.6	1443.75	1446.25	6854.1	687187.1
1447.5	29.6	2747.2	1446.25	1448.75	6868.0	694055.0
1450.0	29.6	2750.6	1448.75	1451.25	6876.5	700931.5
1452.5	29.6	2749.0	1451.25	1453.75	6872.6	707804.1
1455.0	29.5	2743.2	1453.75	1456.25	6858.0	714662.1
1457.5	29.4	2721.5	1456.25	1458.75	6803.8	721465.9
1460.0	29.3	2687.9	1458.75	1461.25	6719.8	728185.7
1462.5	29.0	2640.3	1461.25	1463.75	6600.8	734786.5
1465.0	28.7	2583.1	1463.75	1466.25	6457.8	741244.3
1467.5	28.3	2515.8	1466.25	1468.75	6289.5	747533.8
1470.0	27.8	2433.1	1468.75	1471.25	6082.8	753616.6
1472.5	27.3	2334.1	1471.25	1473.75	5835.3	759451.9
1475.0	26.5	2201.6	1473.75	1476.25	5504.1	764956.0
1477.5	25.7	2069.6	1476.25	1478.75	5174.0	770130.0
1480.0	24.9	1954.1	1478.75	1481.25	4885.3	775015.2
1482.5	24.2	1834.5	1481.25	1483.75	4586.3	779601.5
1485.0	23.5	1734.1	1483.75	1486.25	4335.2	783936.6
1487.5	22.8	1636.9	1486.25	1488.75	4092.3	788028.9
1490.0	22.3	1566.1	1488.75	1491.25	3915.4	791944.3
1492.5	21.7	1484.1	1491.25	1493.75	3710.1	795654.4
1495.0	21.1	1394.8	1493.75	1496.25	3486.9	799141.3
1497.5	20.2	1288.0	1496.25	1498.75	3220.0	802361.3



Volumenliste

Kaverne: Heiligerlee K

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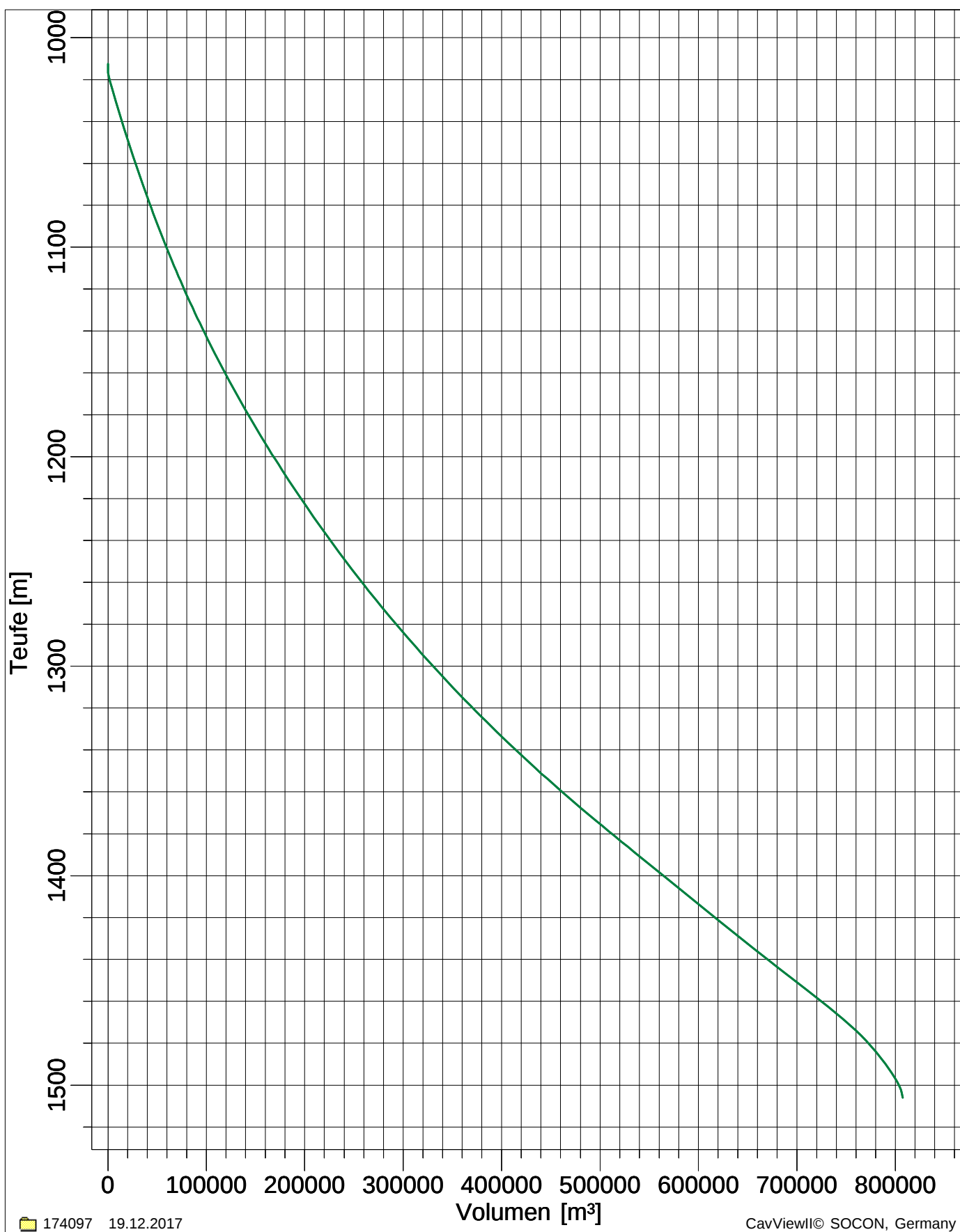
19.12.2017

Tiefe [m]	Radius [m]	Fläche [m²]	Tiefenbereich [m]		Volumen [m³]	
			von	bis	partial	gesamt
1500.0	18.0	1020.4	1498.75	1500.75	2040.7	804402.1
1501.5	16.0	804.1	1500.75	1502.25	1206.2	805608.2
1503.0	14.2	634.8	1502.25	1504.00	1111.0	806719.2
1505.0	11.6	419.9	1504.00	1505.50	629.9	807349.1
1506.0	9.6	289.1	1505.50	1506.00	144.6	807493.7

Heiligerlee K

GESAMTVOLUMEN

19.12.2017

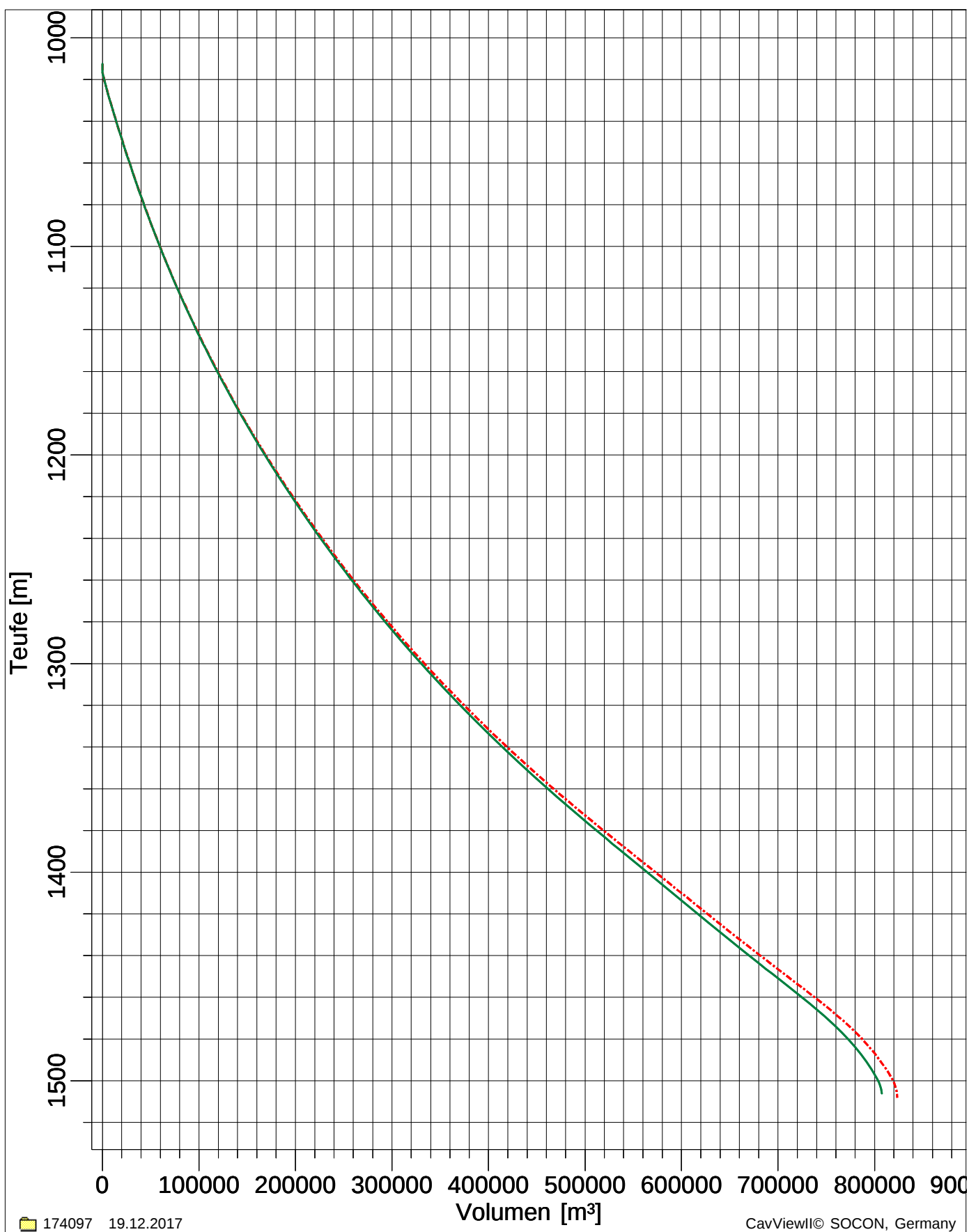


Gesamtvolumen = 807493.7 m³

Heiligerlee K

GESAMTVOLUMEN

19.12.2017



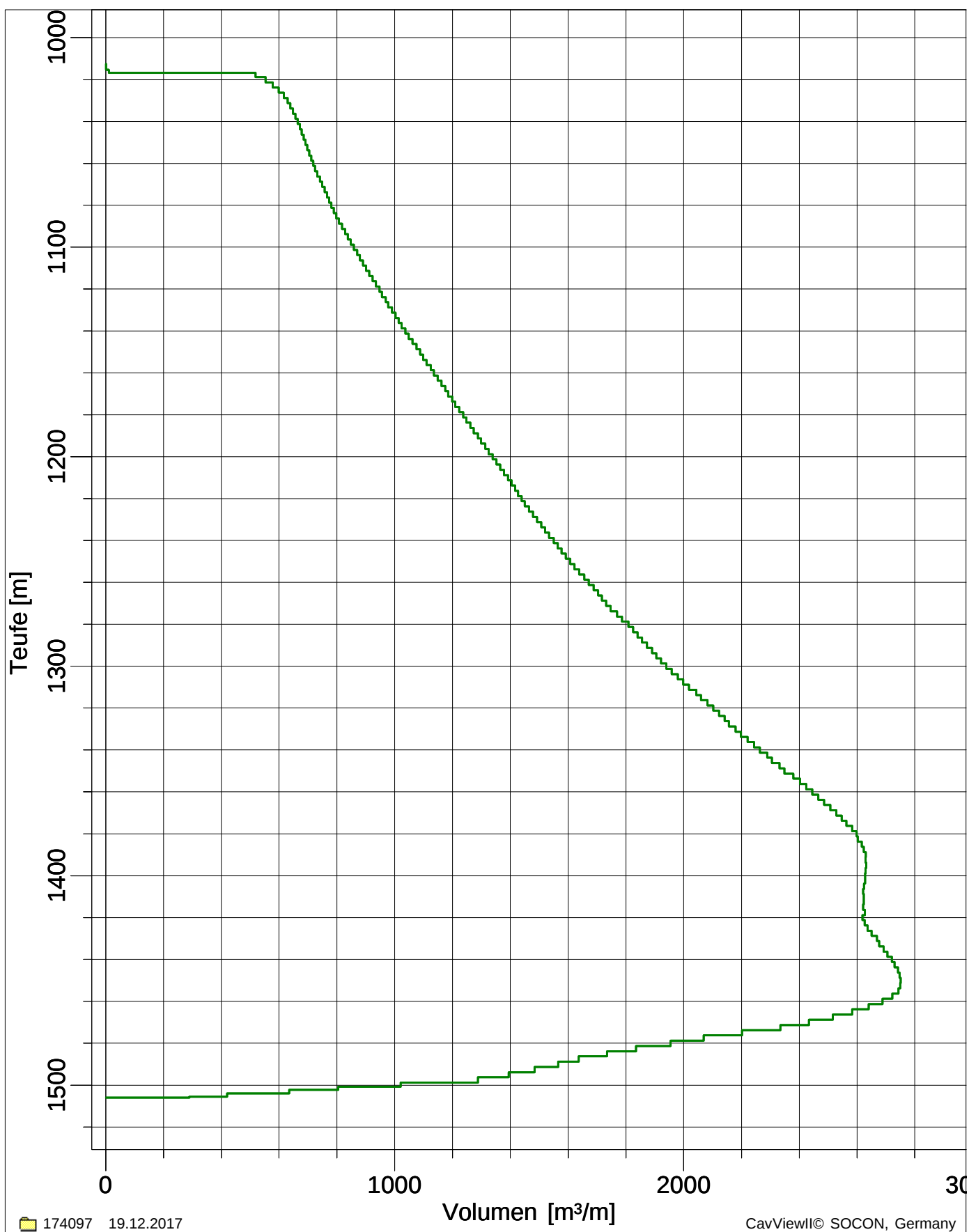
— Gesamtvolumen = 807493.7 m³

- - - Gesamtvolumen = 823534.1 m³ (19.05.2014)

Heiligerlee K

PARTIALVOLUMEN

19.12.2017

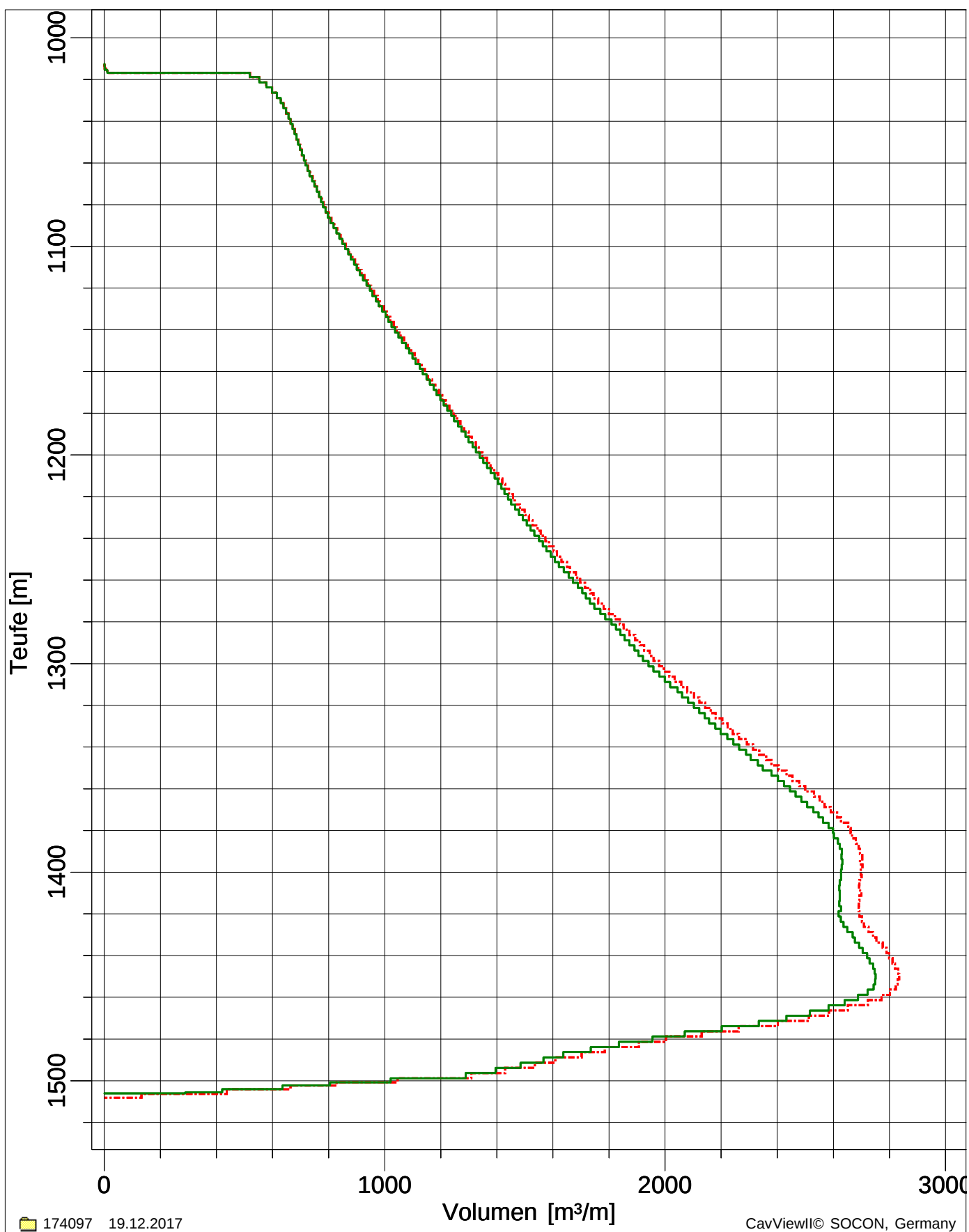


Partialvolumen

Heiligerlee K

PARTIALVOLUMEN

19.12.2017



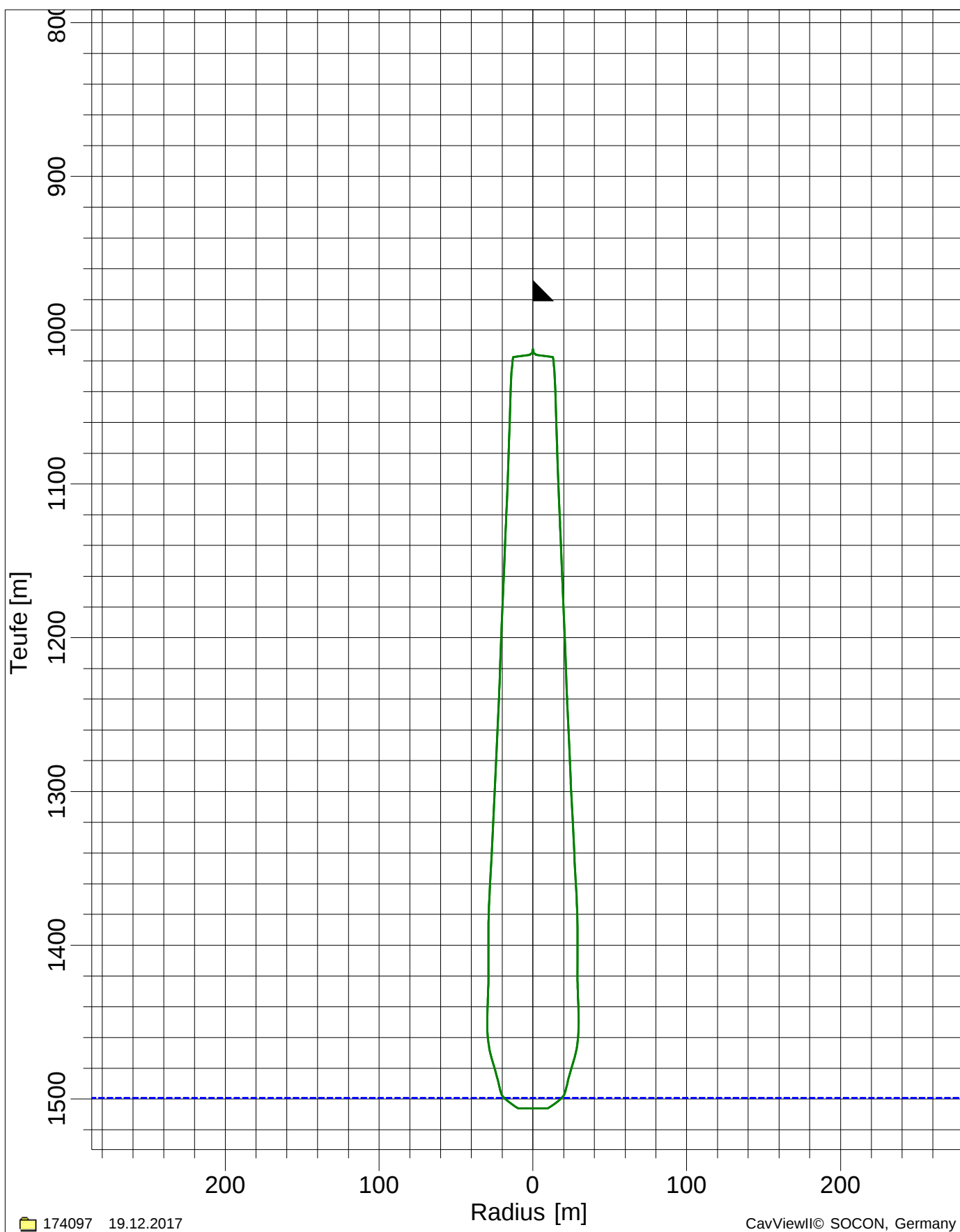
Partialvolumen

Partialvolumen (19.05.2014)

Heiligerlee K

MITTLERER RADIUS

19.12.2017



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103/4" : 981.0 m

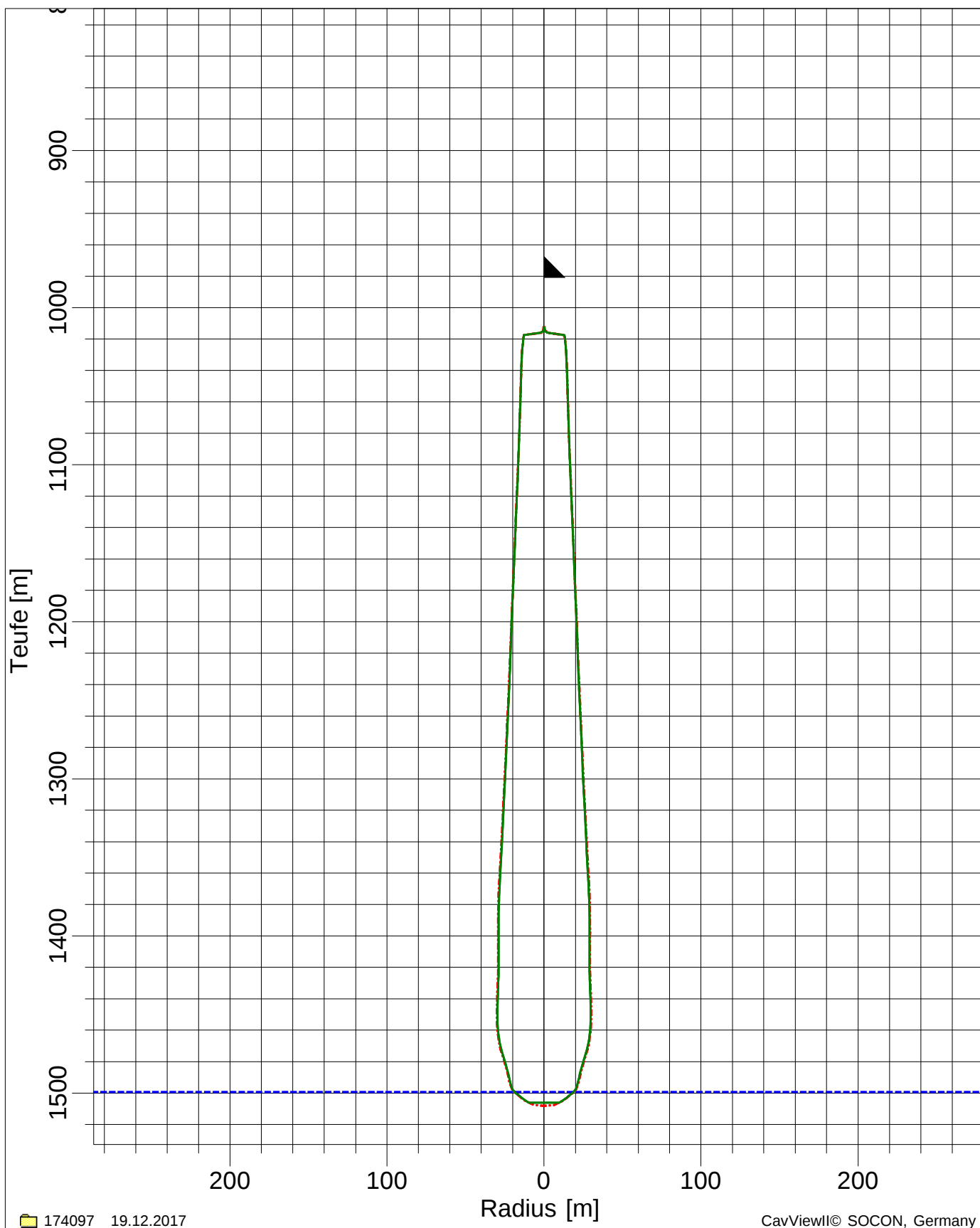
--- Spiegel 1499.3 m

— Mittlerer Radius (19.12.2017)

Heiligerlee K

MITTLERER RADIUS

19.12.2017



— Mittlerer Radius (19.12.2017)	- - - Mittlerer Radius (19.05.2014)	▲ 103/4" : 981.0 m
- - - Spiegel 1499.3 m		

Radien- und Durchmessertabelle

Kaverne: Heiligerlee K

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Tiefe [m]	Radius [MIN]		Radius [MAX]		Durchmesser [MIN]		Durchmesser [MAX]	
	[m]	[°]	[m]	[°]	[m]	[°]	[m]	[°]
1012.5	0.1	50	0.4	245	0.4	130 <-> 310	0.5	80 <-> 260
1014.0	0.3	71	0.6	240	0.8	30 <-> 210	0.9	60 <-> 240
1014.5	0.3	16	0.6	205	0.8	132 <-> 312	0.9	125 <-> 305
1015.0	0.3	30	0.7	190	0.9	123 <-> 303	1.1	10 <-> 190
1015.5	1.4	53	2.0	215	3.4	65 <-> 245	3.6	155 <-> 335
1016.0	1.5	64	2.1	250	3.6	62 <-> 242	3.7	160 <-> 340
1017.5	12.0	39	13.7	300	25.0	37 <-> 217	26.9	135 <-> 315
1020.0	12.3	47	14.2	305	25.6	41 <-> 221	28.1	135 <-> 315
1022.5	12.5	48	14.7	305	26.0	48 <-> 228	29.0	135 <-> 315
1025.0	12.7	56	15.0	135	26.4	36 <-> 216	29.8	135 <-> 315
1027.5	12.8	39	15.4	135	26.6	38 <-> 218	30.5	135 <-> 315
1030.0	13.0	40	15.5	310	26.9	38 <-> 218	30.9	135 <-> 315
1032.5	13.0	41	15.8	130	27.0	37 <-> 217	31.1	130 <-> 310
1035.0	13.1	41	15.9	130	27.2	41 <-> 221	31.7	130 <-> 310
1037.5	13.2	47	16.0	130	27.4	37 <-> 217	31.9	130 <-> 310
1040.0	13.3	47	16.0	130	27.5	32 <-> 212	32.0	130 <-> 310
1042.5	13.4	35	16.2	130	27.7	37 <-> 217	32.2	130 <-> 310
1045.0	13.4	43	16.0	305	27.8	31 <-> 211	32.0	130 <-> 310
1047.5	13.5	42	16.3	130	28.0	32 <-> 212	32.3	130 <-> 310
1050.0	13.5	41	16.2	305	28.2	37 <-> 217	32.3	125 <-> 305
1052.5	13.6	36	16.4	305	28.3	32 <-> 212	32.7	125 <-> 305
1055.0	13.7	39	16.5	305	28.5	37 <-> 217	32.9	125 <-> 305
1057.5	13.7	40	16.6	135	28.6	42 <-> 222	33.0	125 <-> 305
1060.0	13.8	32	16.7	130	28.7	22 <-> 202	33.1	125 <-> 305
1062.5	13.8	32	16.9	130	28.8	23 <-> 203	33.2	130 <-> 310
1065.0	13.8	27	17.0	130	29.0	27 <-> 207	33.4	130 <-> 310
1067.5	13.9	31	17.1	130	29.1	28 <-> 208	33.7	130 <-> 310
1070.0	14.0	32	17.2	130	29.4	31 <-> 211	33.8	125 <-> 305
1072.5	14.1	32	17.3	130	29.5	32 <-> 212	34.2	130 <-> 310
1075.0	14.1	41	17.3	135	29.7	32 <-> 212	34.3	130 <-> 310
1077.5	14.2	41	17.4	305	29.9	27 <-> 207	34.5	130 <-> 310
1080.0	14.2	36	17.6	130	29.9	31 <-> 211	34.8	130 <-> 310
1082.5	14.2	44	17.8	130	30.1	32 <-> 212	35.1	130 <-> 310
1085.0	14.2	42	17.9	130	30.2	31 <-> 211	35.2	130 <-> 310
1087.5	14.3	41	17.9	130	30.4	31 <-> 211	35.3	130 <-> 310
1090.0	14.4	42	18.1	130	30.7	31 <-> 211	35.6	130 <-> 310
1092.5	14.6	41	18.3	130	30.9	37 <-> 217	36.0	130 <-> 310
1095.0	14.7	38	18.4	130	31.1	26 <-> 206	36.2	130 <-> 310
1097.5	14.8	38	18.6	130	31.3	28 <-> 208	36.5	130 <-> 310
1100.0	14.8	38	18.7	130	31.4	28 <-> 208	36.6	130 <-> 310
1102.5	14.9	37	18.8	130	31.6	37 <-> 217	36.7	130 <-> 310
1105.0	15.0	43	19.0	130	31.8	37 <-> 217	37.1	130 <-> 310
1107.5	15.1	47	18.9	130	32.0	47 <-> 227	37.2	130 <-> 310
1110.0	15.2	47	19.1	130	32.3	47 <-> 227	37.5	130 <-> 310
1112.5	15.3	47	19.2	135	32.4	41 <-> 221	37.8	130 <-> 310
1115.0	15.4	47	19.4	135	32.6	32 <-> 212	37.9	130 <-> 310
1117.5	15.5	42	19.5	135	32.7	37 <-> 217	38.2	125 <-> 305
1120.0	15.6	41	19.8	135	33.0	37 <-> 217	38.3	135 <-> 315
1122.5	15.7	43	19.8	135	33.1	37 <-> 217	38.4	130 <-> 310

Radien- und Durchmessertabelle

Kaverne: Heiligerlee K

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Tiefe [m]	Radius [MIN] [m] [°]		Radius [MAX] [m] [°]		Durchmesser [MIN] [m] [°]		Durchmesser [MAX] [m] [°]	
1125.0	15.7	41	20.1	135	33.3	37 <-> 217	38.7	135 <-> 315
1127.5	15.9	46	20.0	135	33.5	34 <-> 214	38.9	125 <-> 305
1130.0	16.0	46	20.3	130	33.8	42 <-> 222	39.7	130 <-> 310
1132.5	16.1	41	20.7	135	34.0	37 <-> 217	39.9	130 <-> 310
1135.0	16.2	45	20.5	135	34.2	37 <-> 217	40.0	130 <-> 310
1137.5	16.3	46	20.7	135	34.4	43 <-> 223	40.2	130 <-> 310
1140.0	16.4	46	20.7	135	34.6	43 <-> 223	40.4	130 <-> 310
1142.5	16.5	46	21.3	134	34.8	37 <-> 217	41.0	134 <-> 314
1145.0	16.6	47	21.2	135	35.0	37 <-> 217	41.2	130 <-> 310
1147.5	16.7	41	21.6	130	35.3	32 <-> 212	42.1	130 <-> 310
1150.0	16.8	37	21.5	130	35.5	33 <-> 213	42.0	130 <-> 310
1152.5	16.9	41	21.9	130	35.6	27 <-> 207	42.5	130 <-> 310
1155.0	17.0	37	22.3	130	35.8	32 <-> 212	43.0	130 <-> 310
1157.5	17.0	36	22.6	130	36.0	31 <-> 211	43.4	130 <-> 310
1160.0	17.1	36	22.7	130	36.1	27 <-> 207	44.2	130 <-> 310
1162.5	17.1	43	22.7	130	36.2	22 <-> 202	44.0	130 <-> 310
1165.0	17.2	36	23.0	130	36.4	26 <-> 206	44.5	130 <-> 310
1167.5	17.3	42	23.1	130	36.6	32 <-> 212	45.2	130 <-> 310
1170.0	17.3	52	23.2	130	36.8	27 <-> 207	45.1	130 <-> 310
1172.5	17.5	41	23.1	130	37.0	36 <-> 216	45.5	130 <-> 310
1175.0	17.6	48	23.4	130	37.2	37 <-> 217	45.7	130 <-> 310
1177.5	17.7	47	23.5	130	37.4	31 <-> 211	46.0	130 <-> 310
1180.0	17.8	46	23.5	130	37.6	32 <-> 212	45.9	130 <-> 310
1182.5	17.8	45	23.5	130	37.8	32 <-> 212	46.1	130 <-> 310
1185.0	18.0	42	23.7	130	38.0	42 <-> 222	46.6	130 <-> 310
1187.5	18.0	43	23.7	130	38.1	43 <-> 223	46.6	130 <-> 310
1190.0	18.1	46	23.9	130	38.3	37 <-> 217	46.9	130 <-> 310
1192.5	18.2	46	23.9	130	38.4	32 <-> 212	47.0	130 <-> 310
1195.0	18.3	46	24.1	130	38.5	33 <-> 213	47.3	130 <-> 310
1197.5	18.4	42	24.1	130	38.8	37 <-> 217	47.2	130 <-> 310
1200.0	18.5	46	24.2	130	39.0	32 <-> 212	47.4	130 <-> 310
1202.5	18.6	45	24.3	130	39.2	32 <-> 212	47.6	130 <-> 310
1205.0	18.7	41	24.2	130	39.4	32 <-> 212	47.7	130 <-> 310
1207.5	18.8	48	24.4	130	39.6	24 <-> 204	48.0	130 <-> 310
1210.0	18.9	48	24.7	130	39.8	27 <-> 207	48.3	130 <-> 310
1212.5	19.1	42	24.6	130	40.0	23 <-> 203	48.2	130 <-> 310
1215.0	19.1	52	24.6	130	40.2	32 <-> 212	48.2	130 <-> 310
1217.5	19.2	53	24.9	130	40.3	38 <-> 218	48.6	130 <-> 310
1220.0	19.3	51	24.9	130	40.4	37 <-> 217	48.6	130 <-> 310
1222.5	19.4	43	24.6	130	40.6	37 <-> 217	48.6	130 <-> 310
1225.0	19.5	46	25.1	130	40.8	33 <-> 213	49.1	130 <-> 310
1227.5	19.6	51	25.0	130	41.0	38 <-> 218	49.1	135 <-> 315
1230.0	19.6	53	25.2	130	41.2	32 <-> 212	49.4	130 <-> 310
1232.5	19.7	52	25.4	130	41.5	31 <-> 211	49.8	130 <-> 310
1235.0	19.8	56	25.5	130	41.6	37 <-> 217	49.8	130 <-> 310
1237.5	19.9	47	25.7	135	41.8	37 <-> 217	50.4	130 <-> 310
1240.0	20.0	46	25.8	135	42.0	32 <-> 212	50.3	130 <-> 310
1242.5	20.1	50	25.9	135	42.2	43 <-> 223	50.7	130 <-> 310
1245.0	20.2	52	26.0	135	42.3	37 <-> 217	51.0	135 <-> 315



Radien- und Durchmessertabelle

Kaverne: Heiligerlee K

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Tiefe [m]	Radius [MIN]		Radius [MAX]		Durchmesser [MIN]		Durchmesser [MAX]	
	[m]	[°]	[m]	[°]	[m]	[°]	[m]	[°]
1247.5	20.3	51	25.9	135	42.5	37 <-> 217	51.5	130 <-> 310
1250.0	20.4	47	26.3	135	42.6	37 <-> 217	51.7	130 <-> 310
1252.5	20.5	47	26.3	135	42.8	32 <-> 212	51.9	130 <-> 310
1255.0	20.6	46	26.3	130	43.1	37 <-> 217	52.4	130 <-> 310
1257.5	20.6	47	26.6	135	43.2	32 <-> 212	52.7	130 <-> 310
1260.0	20.7	46	26.6	130	43.4	43 <-> 223	52.9	130 <-> 310
1262.5	20.8	47	26.9	134	43.6	36 <-> 216	53.3	130 <-> 310
1265.0	21.0	48	26.7	130	43.9	37 <-> 217	53.3	130 <-> 310
1267.5	21.0	47	26.7	305	44.1	42 <-> 222	53.3	130 <-> 310
1270.0	21.2	47	27.1	310	44.2	37 <-> 217	53.6	130 <-> 310
1272.5	21.2	47	27.2	310	44.4	37 <-> 217	53.4	130 <-> 310
1275.0	21.4	46	27.4	310	44.7	37 <-> 217	53.9	130 <-> 310
1277.5	21.5	52	27.6	310	44.9	28 <-> 208	54.1	130 <-> 310
1280.0	21.6	52	27.7	310	45.2	33 <-> 213	54.6	135 <-> 315
1282.5	21.7	62	27.9	310	45.4	27 <-> 207	55.0	130 <-> 310
1285.0	21.8	56	28.0	310	45.6	32 <-> 212	55.3	135 <-> 315
1287.5	21.9	53	28.3	310	45.8	38 <-> 218	55.8	130 <-> 310
1290.0	22.1	56	28.5	310	46.0	37 <-> 217	55.8	130 <-> 310
1292.5	22.2	47	28.6	310	46.2	38 <-> 218	56.2	130 <-> 310
1295.0	22.2	54	28.6	310	46.4	37 <-> 217	56.1	130 <-> 310
1297.5	22.3	56	28.8	310	46.6	31 <-> 211	56.3	130 <-> 310
1300.0	22.5	63	29.2	310	46.8	32 <-> 212	56.8	135 <-> 315
1302.5	22.6	58	29.2	310	47.0	42 <-> 222	57.1	135 <-> 315
1305.0	22.8	61	29.2	310	47.2	32 <-> 212	57.4	130 <-> 310
1307.5	22.9	51	29.4	310	47.4	31 <-> 211	57.6	135 <-> 315
1310.0	23.0	51	29.8	310	47.6	32 <-> 212	58.2	135 <-> 315
1312.5	23.2	52	29.9	310	47.9	32 <-> 212	58.4	135 <-> 315
1315.0	23.3	47	30.0	135	48.0	36 <-> 216	59.0	135 <-> 315
1317.5	23.4	46	30.2	310	48.3	38 <-> 218	59.0	130 <-> 310
1320.0	23.5	52	30.3	309	48.6	38 <-> 218	59.2	135 <-> 315
1322.5	23.7	53	30.5	135	48.8	32 <-> 212	59.6	135 <-> 315
1325.0	23.8	52	30.5	310	49.1	32 <-> 212	59.2	135 <-> 315
1327.5	24.0	48	30.8	135	49.3	33 <-> 213	60.0	135 <-> 315
1330.0	24.1	57	30.9	135	49.6	37 <-> 217	60.2	135 <-> 315
1332.5	24.2	58	31.0	135	49.8	36 <-> 216	60.4	135 <-> 315
1335.0	24.4	51	31.4	135	50.1	31 <-> 211	61.0	135 <-> 315
1337.5	24.5	57	31.1	310	50.3	25 <-> 205	60.6	135 <-> 315
1340.0	24.6	51	31.1	310	50.5	32 <-> 212	60.9	135 <-> 315
1342.5	24.7	52	31.6	135	50.8	38 <-> 218	61.8	135 <-> 315
1345.0	24.8	51	31.3	305	51.0	38 <-> 218	60.9	135 <-> 315
1347.5	25.0	57	31.7	135	51.2	37 <-> 217	62.1	135 <-> 315
1350.0	25.0	52	31.4	305	51.4	37 <-> 217	61.7	139 <-> 319
1352.5	25.2	51	31.8	140	51.6	42 <-> 222	62.6	140 <-> 320
1355.0	25.2	57	31.6	305	52.0	37 <-> 217	62.3	140 <-> 320
1357.5	25.3	57	32.0	305	52.2	42 <-> 222	62.6	140 <-> 320
1360.0	25.4	56	32.0	305	52.4	37 <-> 217	62.7	135 <-> 315
1362.5	25.5	57	32.2	305	52.7	37 <-> 217	63.4	140 <-> 320
1365.0	25.6	61	32.2	305	52.9	37 <-> 217	63.2	135 <-> 315
1367.5	25.7	62	32.5	305	53.0	43 <-> 223	63.6	135 <-> 315



Radien- und Durchmessertabelle

Kaverne: Heiligerlee K

174 097

19.12.2017

Tiefe [m]	Radius [MIN] [m] [°]		Radius [MAX] [m] [°]		Durchmesser [MIN] [m] [°]		Durchmesser [MAX] [m] [°]	
1370.0	25.8	56	32.6	305	53.2	42 <-> 222	64.0	140 <-> 320
1372.5	25.9	57	32.6	305	53.4	33 <-> 213	64.0	135 <-> 315
1375.0	25.9	57	32.8	305	53.5	37 <-> 217	64.1	135 <-> 315
1377.5	26.0	56	32.8	305	53.8	37 <-> 217	64.5	135 <-> 315
1380.0	26.0	58	33.0	320	54.0	33 <-> 213	64.5	140 <-> 320
1382.5	26.1	61	33.0	315	54.0	32 <-> 212	64.1	140 <-> 320
1385.0	26.1	62	33.2	315	54.2	36 <-> 216	64.6	135 <-> 315
1387.5	26.1	62	33.3	315	54.3	46 <-> 226	64.5	140 <-> 320
1390.0	26.1	62	33.2	315	54.3	32 <-> 212	64.6	140 <-> 320
1392.5	26.1	67	33.6	315	54.2	42 <-> 222	64.8	135 <-> 315
1395.0	26.1	66	33.4	315	54.1	44 <-> 224	64.4	130 <-> 310
1397.5	26.1	62	33.7	315	54.1	32 <-> 212	64.9	135 <-> 315
1400.0	26.0	62	33.8	315	54.1	32 <-> 212	64.6	135 <-> 315
1402.5	26.0	62	33.8	315	54.0	31 <-> 211	65.1	135 <-> 315
1405.0	26.0	67	33.6	315	54.0	32 <-> 212	64.9	135 <-> 315
1407.5	25.9	66	33.7	315	54.0	32 <-> 212	64.9	135 <-> 315
1410.0	25.8	61	33.6	315	54.1	36 <-> 216	65.1	135 <-> 315
1412.5	25.8	57	33.8	315	54.1	36 <-> 216	65.2	135 <-> 315
1415.0	25.7	56	33.6	315	54.0	38 <-> 218	64.9	135 <-> 315
1417.5	25.6	57	33.9	315	54.2	33 <-> 213	65.0	135 <-> 315
1420.0	25.6	61	33.8	315	54.1	36 <-> 216	64.9	135 <-> 315
1422.5	25.5	63	34.0	315	54.1	36 <-> 216	64.9	135 <-> 315
1425.0	25.5	61	34.0	315	54.3	37 <-> 217	65.0	135 <-> 315
1427.5	25.6	67	34.0	315	54.3	38 <-> 218	64.6	135 <-> 315
1430.0	25.6	67	34.2	315	54.6	44 <-> 224	64.6	135 <-> 315
1432.5	25.6	67	34.2	315	54.8	42 <-> 222	64.5	135 <-> 315
1435.0	25.7	66	34.2	315	54.9	40 <-> 220	64.6	140 <-> 320
1437.5	25.8	66	34.3	315	55.1	38 <-> 218	64.7	140 <-> 320
1440.0	25.8	66	34.4	315	55.2	30 <-> 210	64.6	140 <-> 320
1442.5	25.9	61	34.1	315	55.5	33 <-> 213	64.5	140 <-> 320
1445.0	25.9	62	34.4	315	55.8	47 <-> 227	64.4	140 <-> 320
1447.5	25.9	66	34.2	315	55.8	48 <-> 228	64.4	140 <-> 320
1450.0	25.9	67	34.2	315	55.9	48 <-> 228	64.1	140 <-> 320
1452.5	25.9	68	34.0	315	56.0	38 <-> 218	63.9	140 <-> 320
1455.0	25.8	69	34.0	315	56.0	41 <-> 221	63.7	140 <-> 320
1457.5	25.7	77	33.8	310	55.8	44 <-> 224	63.3	140 <-> 320
1460.0	25.6	73	33.6	320	55.6	36 <-> 216	63.0	140 <-> 320
1462.5	25.2	68	33.3	320	54.9	50 <-> 230	62.4	140 <-> 320
1465.0	24.8	72	33.2	315	54.1	54 <-> 234	61.6	145 <-> 325
1467.5	24.5	72	32.8	320	53.3	45 <-> 225	61.3	145 <-> 325
1470.0	24.1	70	32.6	320.0	52.0	51 <-> 231	60.5	150 <-> 330
1472.5	23.4	70	32.2	315.0	50.7	59 <-> 239	59.9	150 <-> 330
1475.0	22.8	55	31.5	330.0	48.8	55 <-> 235	58.8	150 <-> 330
1477.5	21.5	95	31.3	330.0	47.9	34 <-> 214	58.1	150 <-> 330
1480.0	20.8	100	30.8	330.0	46.2	30 <-> 210	56.8	150 <-> 330
1482.5	20.1	60	30.3	324.0	44.1	60 <-> 240	55.4	150 <-> 330
1485.0	19.4	85	30.1	330.0	43.1	40 <-> 220	54.3	150 <-> 330
1487.5	18.3	74	28.7	330.0	41.5	70 <-> 250	52.5	150 <-> 330
1490.0	18.1	83	27.9	310.0	40.9	60 <-> 240	49.4	150 <-> 330



Radien- und Durchmessertabelle

Kaverne: Heiligerlee K

174 097

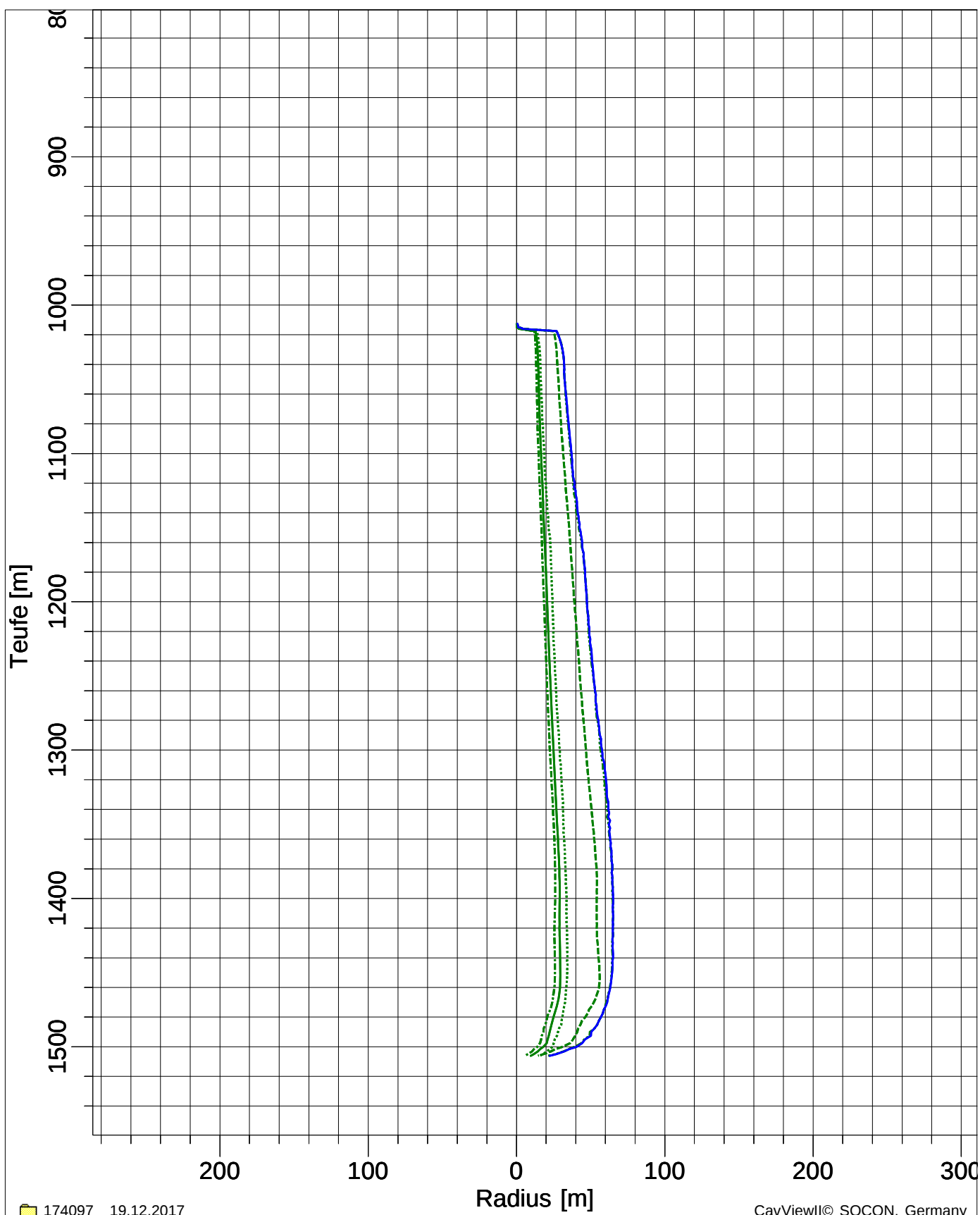
19.12.2017

Tiefe [m]	Radius [MIN]		Radius [MAX]		Durchmesser [MIN]		Durchmesser [MAX]	
	[m]	[°]	[m]	[°]	[m]	[°]	[m]	[°]
1492.5	16.9	89	27.2	325.0	39.5	68 <-> 248	49.3	150 <-> 330
1495.0	16.5	83	25.8	305.0	38.1	60 <-> 240	45.7	125 <-> 305
1497.5	15.9	60	25.1	325.0	36.3	45 <-> 225	44.0	145 <-> 325
1500.0	14.0	69	24.1	320.0	30.9	54 <-> 234	39.1	155 <-> 335
1501.5	11.8	60	22.4	315.0	26.1	60 <-> 240	35.1	135 <-> 315
1503.0	10.5	65	20.3	325.0	23.2	50 <-> 230	31.9	145 <-> 325
1505.0	7.4	80	17.8	320.0	18.1	59 <-> 239	25.9	140 <-> 320
1506.0	5.7	80	15.5	330.0	14.5	39 <-> 219	21.4	135 <-> 315

Heiligerlee K

RADIEN / DURCHMESSER

19.12.2017



174097 19.12.2017

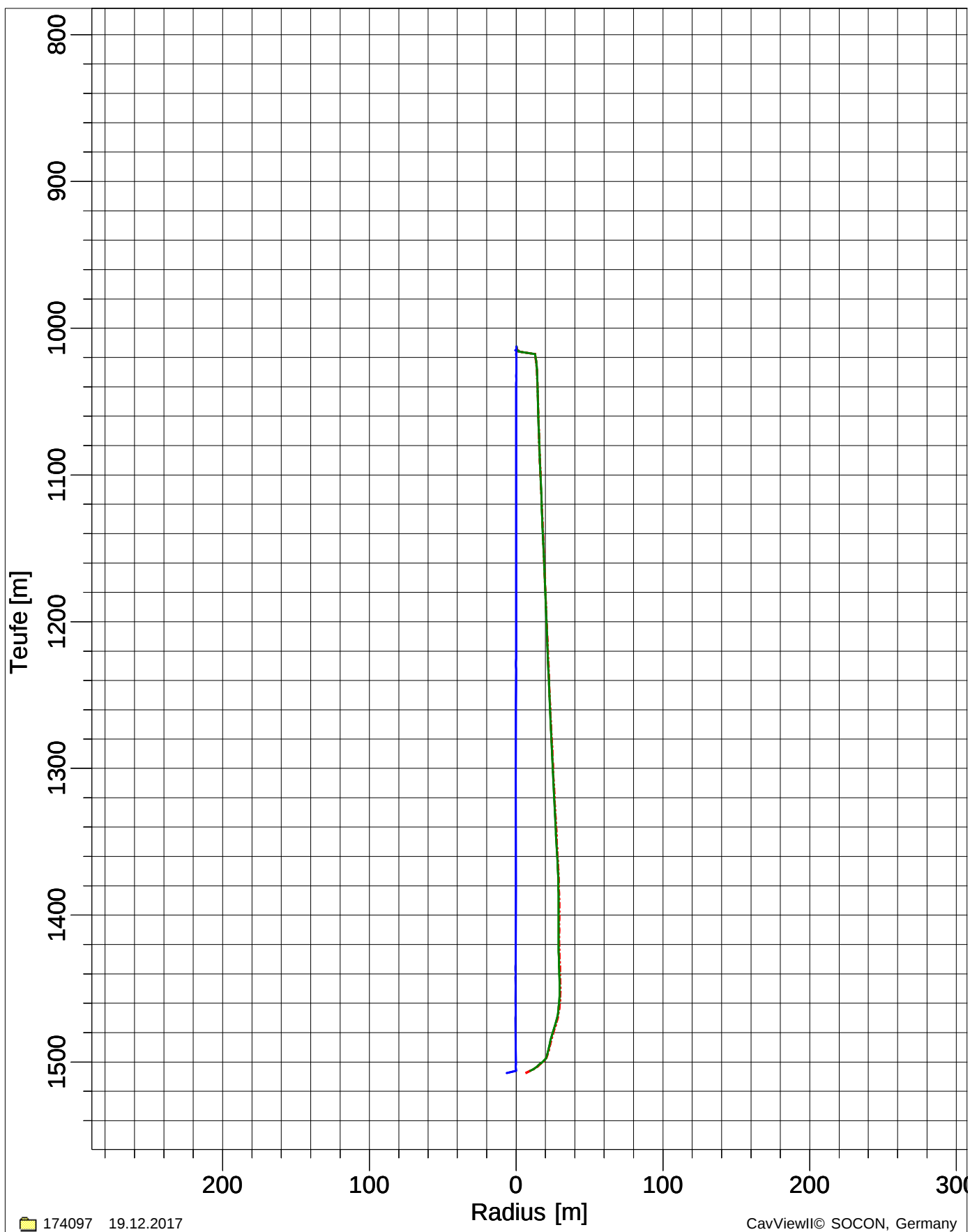
CavViewII© SOCON, Germany

— Mittlerer Radius	- - - Minimaler Radius	... Maximaler Radius
- - - Minimaler Durchmesser	... Maximaler Durchmesser	— Größte Ausdehnung

Heiligerlee K

Radiendifferenzen

19.12.2017



— Mittlerer Radius

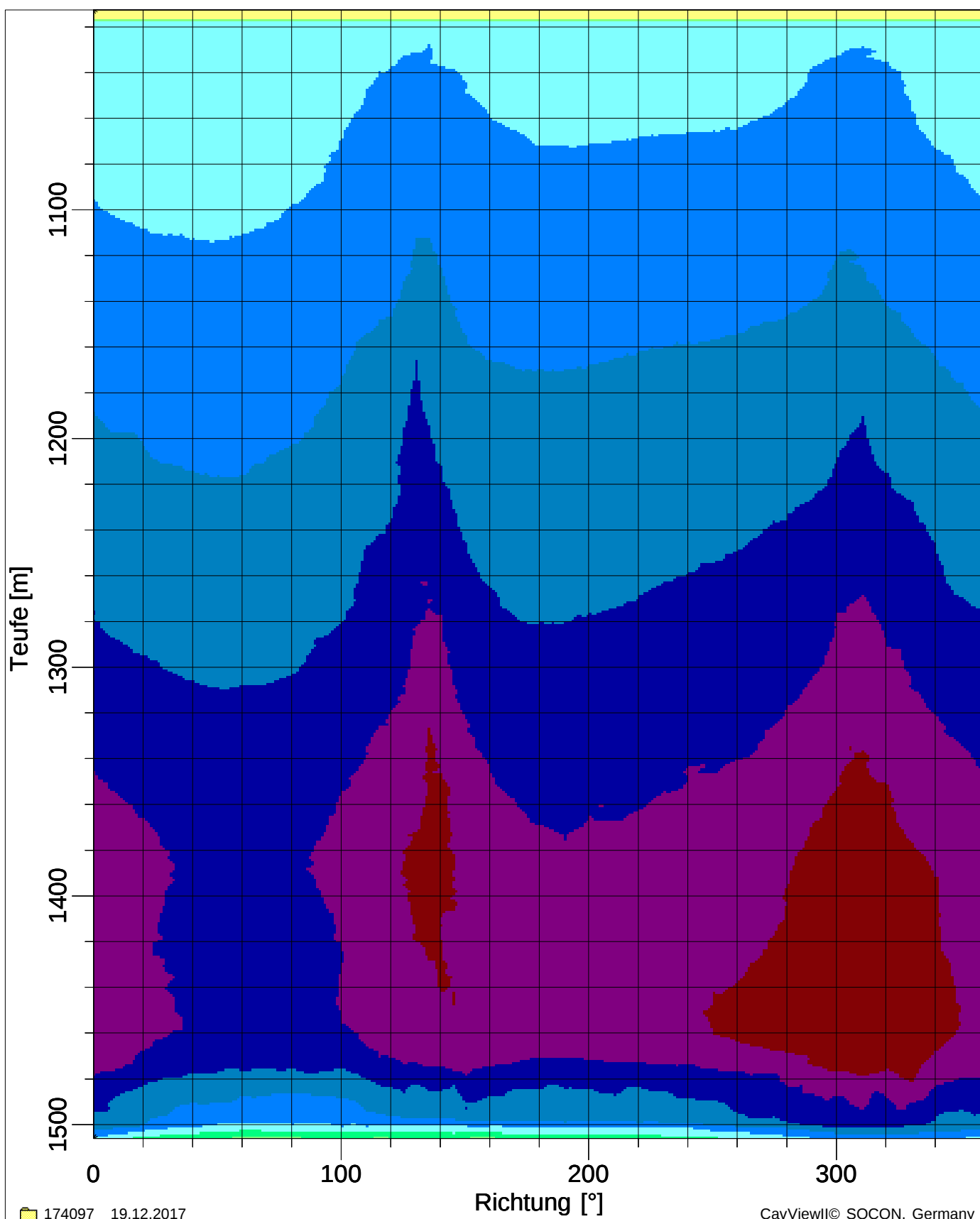
- - - Mittlerer Radius (19.05.2014)

— Differenz - Mittlerer Radius (19.12.2017/19.05.2014)

Heiligerlee K

RADIENABWICKLUNG

19.12.2017



0.10 - 3.91 m	3.91 - 7.72 m	7.72 - 11.53 m	11.53 - 15.34 m	15.34 - 19.15 m
19.15 - 22.95 m	22.95 - 26.76 m	26.76 - 30.57 m	30.57 - 34.38 m	



Heiligerlee K --> 0° <--



Heiligerlee K --> 60° <--



Heiligerlee K --> 120° <--



Heiligerlee K --> 180° <--



Heiligerlee K --> 240° <--



Heiligerlee K --> 300° <--

HORIZONTALSCHNITTE

Kaverne: Heiligerlee K

Berichts-Nr.: 174 097

Rechengeschw.: 404.3 m/s bis 1830.0 m/s

Messdatum : 19.12.2017

Maßstab: 1 : 500

Horizontalschnitte in folgenden Teufen:

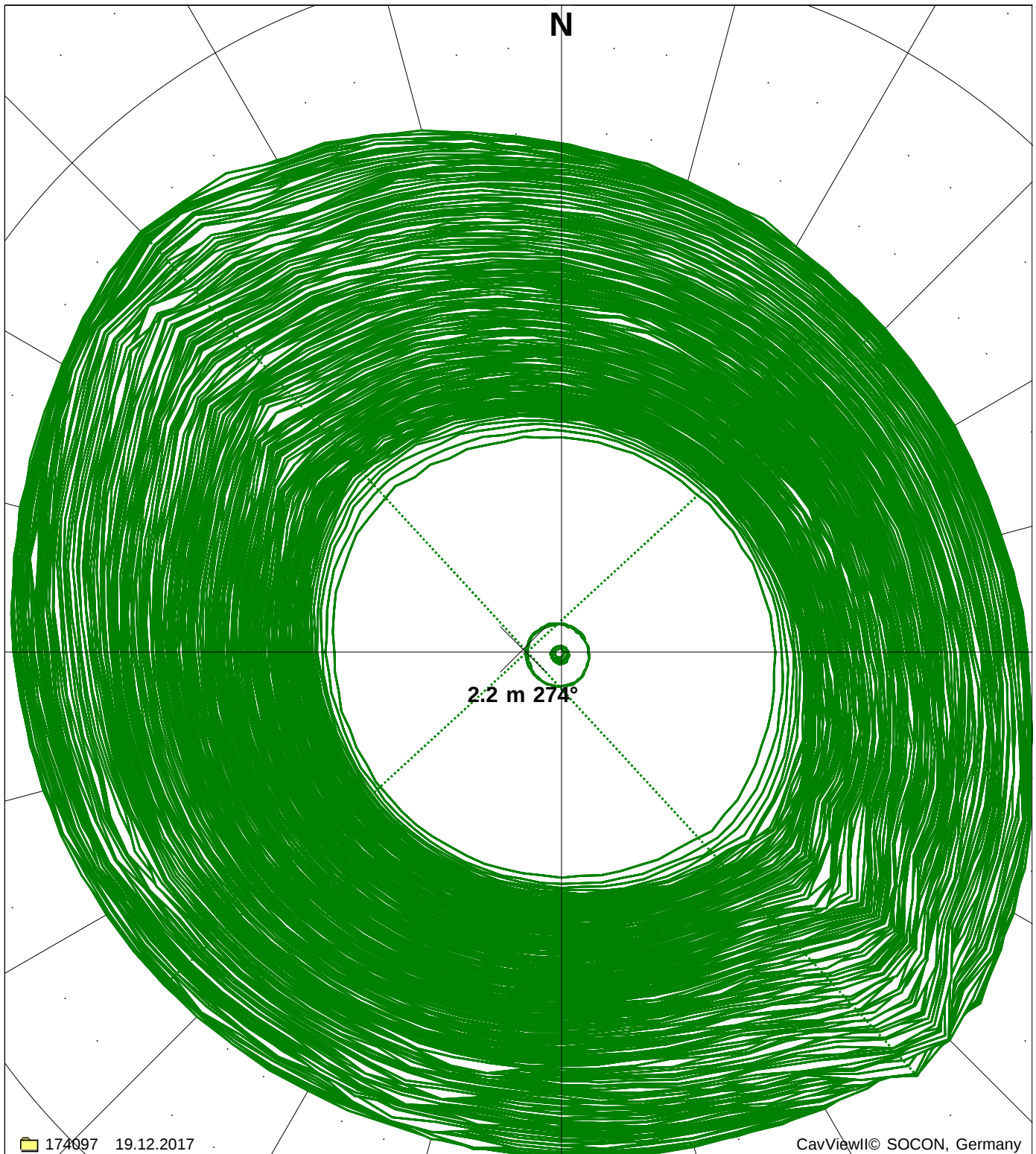
1012.5 m	1014.0 m	1014.5 m	1015.0 m	1015.5 m	1016.0 m	1017.5 m
1020.0 m	1022.5 m	1025.0 m	1027.5 m	1030.0 m	1032.5 m	1035.0 m
1037.5 m	1040.0 m	1042.5 m	1045.0 m	1047.5 m	1050.0 m	1052.5 m
1055.0 m	1057.5 m	1060.0 m	1062.5 m	1065.0 m	1067.5 m	1070.0 m
1072.5 m	1075.0 m	1077.5 m	1080.0 m	1082.5 m	1085.0 m	1087.5 m
1090.0 m	1092.5 m	1095.0 m	1097.5 m	1100.0 m	1102.5 m	1105.0 m
1107.5 m	1110.0 m	1112.5 m	1115.0 m	1117.5 m	1120.0 m	1122.5 m
1125.0 m	1127.5 m	1130.0 m	1132.5 m	1135.0 m	1137.5 m	1140.0 m
1142.5 m	1145.0 m	1147.5 m	1150.0 m	1152.5 m	1155.0 m	1157.5 m
1160.0 m	1162.5 m	1165.0 m	1167.5 m	1170.0 m	1172.5 m	1175.0 m
1177.5 m	1180.0 m	1182.5 m	1185.0 m	1187.5 m	1190.0 m	1192.5 m
1195.0 m	1197.5 m	1200.0 m	1202.5 m	1205.0 m	1207.5 m	1210.0 m
1212.5 m	1215.0 m	1217.5 m	1220.0 m	1222.5 m	1225.0 m	1227.5 m
1230.0 m	1232.5 m	1235.0 m	1237.5 m	1240.0 m	1242.5 m	1245.0 m
1247.5 m	1250.0 m	1252.5 m	1255.0 m	1257.5 m	1260.0 m	1262.5 m
1265.0 m	1267.5 m	1270.0 m	1272.5 m	1275.0 m	1277.5 m	1280.0 m
1282.5 m	1285.0 m	1287.5 m	1290.0 m	1292.5 m	1295.0 m	1297.5 m
1300.0 m	1302.5 m	1305.0 m	1307.5 m	1310.0 m	1312.5 m	1315.0 m
1317.5 m	1320.0 m	1322.5 m	1325.0 m	1327.5 m	1330.0 m	1332.5 m
1335.0 m	1337.5 m	1340.0 m	1342.5 m	1345.0 m	1347.5 m	1350.0 m
1352.5 m	1355.0 m	1357.5 m	1360.0 m	1362.5 m	1365.0 m	1367.5 m
1370.0 m	1372.5 m	1375.0 m	1377.5 m	1380.0 m	1382.5 m	1385.0 m
1387.5 m	1390.0 m	1392.5 m	1395.0 m	1397.5 m	1400.0 m	1402.5 m
1405.0 m	1407.5 m	1410.0 m	1412.5 m	1415.0 m	1417.5 m	1420.0 m
1422.5 m	1425.0 m	1427.5 m	1430.0 m	1432.5 m	1435.0 m	1437.5 m
1440.0 m	1442.5 m	1445.0 m	1447.5 m	1450.0 m	1452.5 m	1455.0 m
1457.5 m	1460.0 m	1462.5 m	1465.0 m	1467.5 m	1470.0 m	1472.5 m
1475.0 m	1477.5 m	1480.0 m	1482.5 m	1485.0 m	1487.5 m	1490.0 m
1492.5 m	1495.0 m	1497.5 m	1500.0 m	1501.5 m	1503.0 m	1505.0 m

Es wurden 1 Schnitte durch Konstruktion ermittelt:
1506.0 m

Heiligerlee K

MAXPLOT

19.12.2017



 V-Maxplot (19.12.2017) (2768.2 m²)	 Horizontalschnitte	 a/b
 Schwerpunkt		

H/V-Maxplot: $d_{\max}$: 66.1 m 135° <--> 315° $r_{\min}$: 26.1 m -> 62° $r_{\sim}$: 29.8 m $r_{\max}$: 34.4 m -> 315°

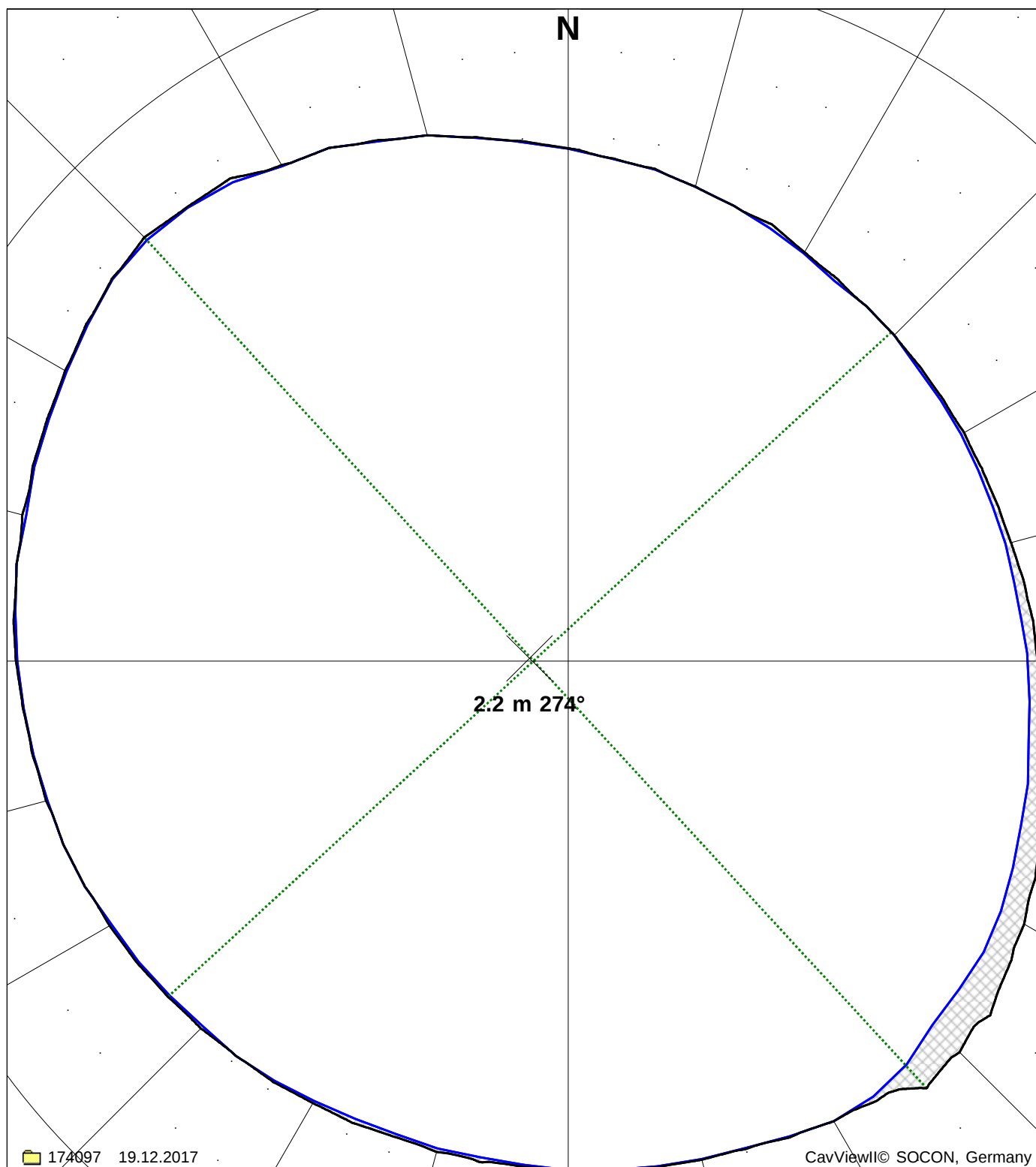
H/V-Maxplot: a/b = 1.177 a = 66.3 m (139°-314°) b = 56.3 m (44°-230°)

Fläche aus Vertikalschnitten: 2768.2 m², Fläche aus Horizontal- u. Vertikalschnitten: 2799.0 m²

Heiligerlee K

MAXPLOT

19.12.2017



 H/V-Maxplot (19.12.2017) (2799.0 m²)	 Größte Einzelfläche	 a/b
 Schwerpunkt		

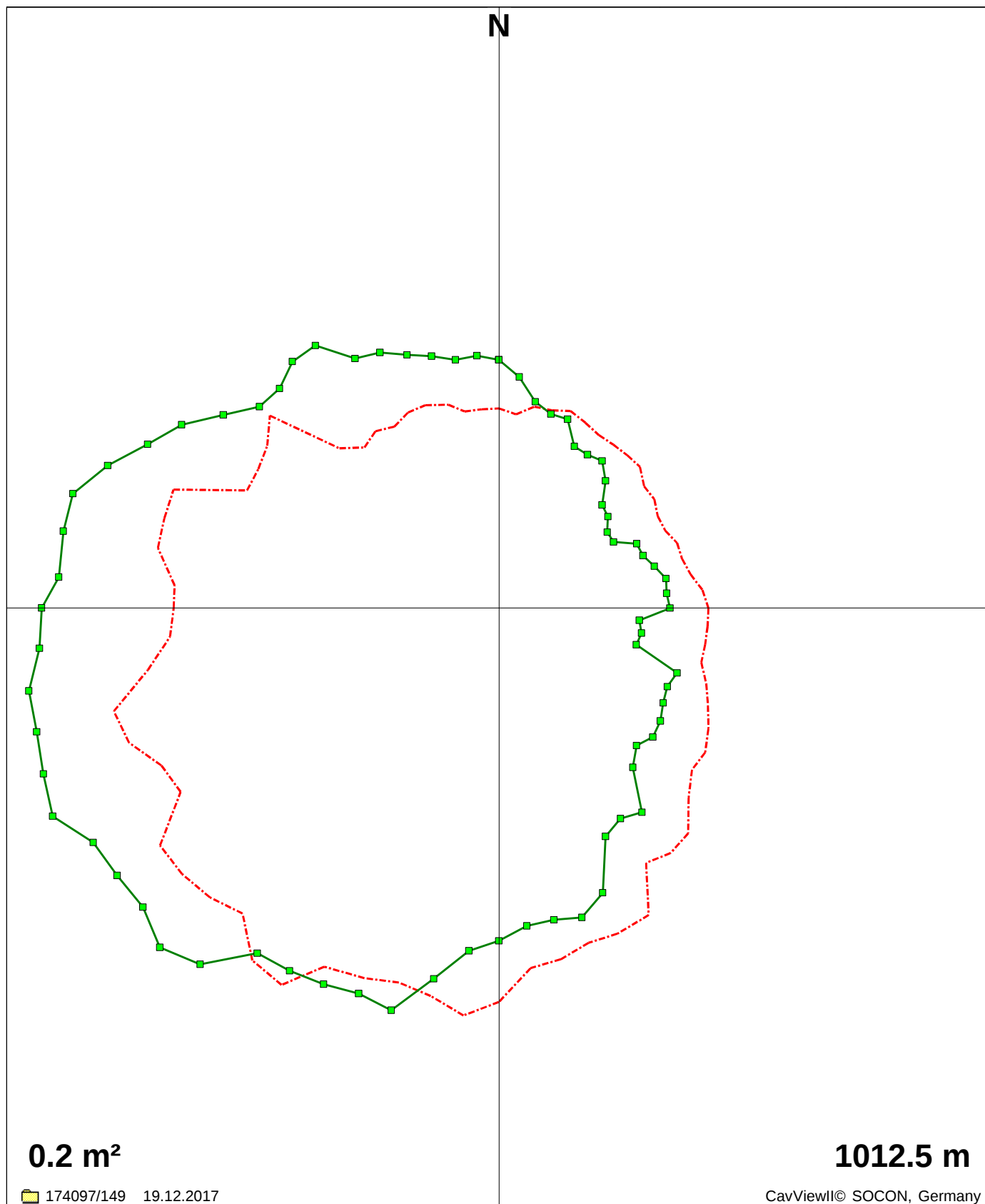
H/V-Maxplot: d_{max}: 66.1 m 135° <--> 315° r_{min}: 26.1 m -> 62° r~: 29.8 m r_{max}: 34.4 m -> 315°

H/V-Maxplot: a/b = 1.177 a = 66.3 m (139°-314°) b = 56.3 m (44°-230°)

Größte Einzelfläche: 2750.6 m² in Teufe: 1450.0 m

Heiligerlee K

19.12.2017



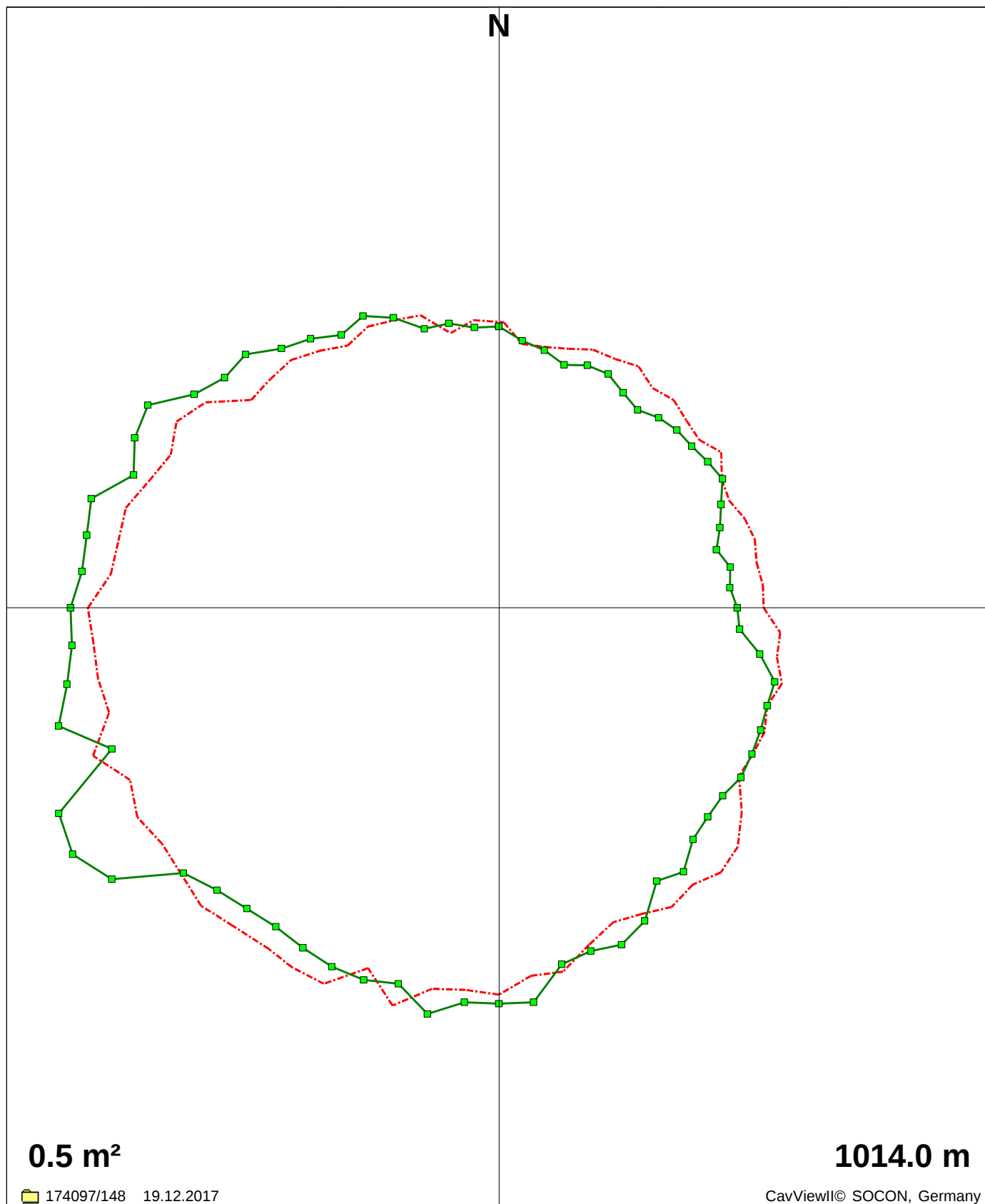
--- (19.05.2014) (0.2 m²)

—■— (19.12.2017) (0.2 m²)

d_{max}: 0.5 m 80° <--> 260° r_{min}: 0.1 m -> 50° r~: 0.3 m r_{max}: 0.4 m -> 245°

Heiligerlee K

19.12.2017



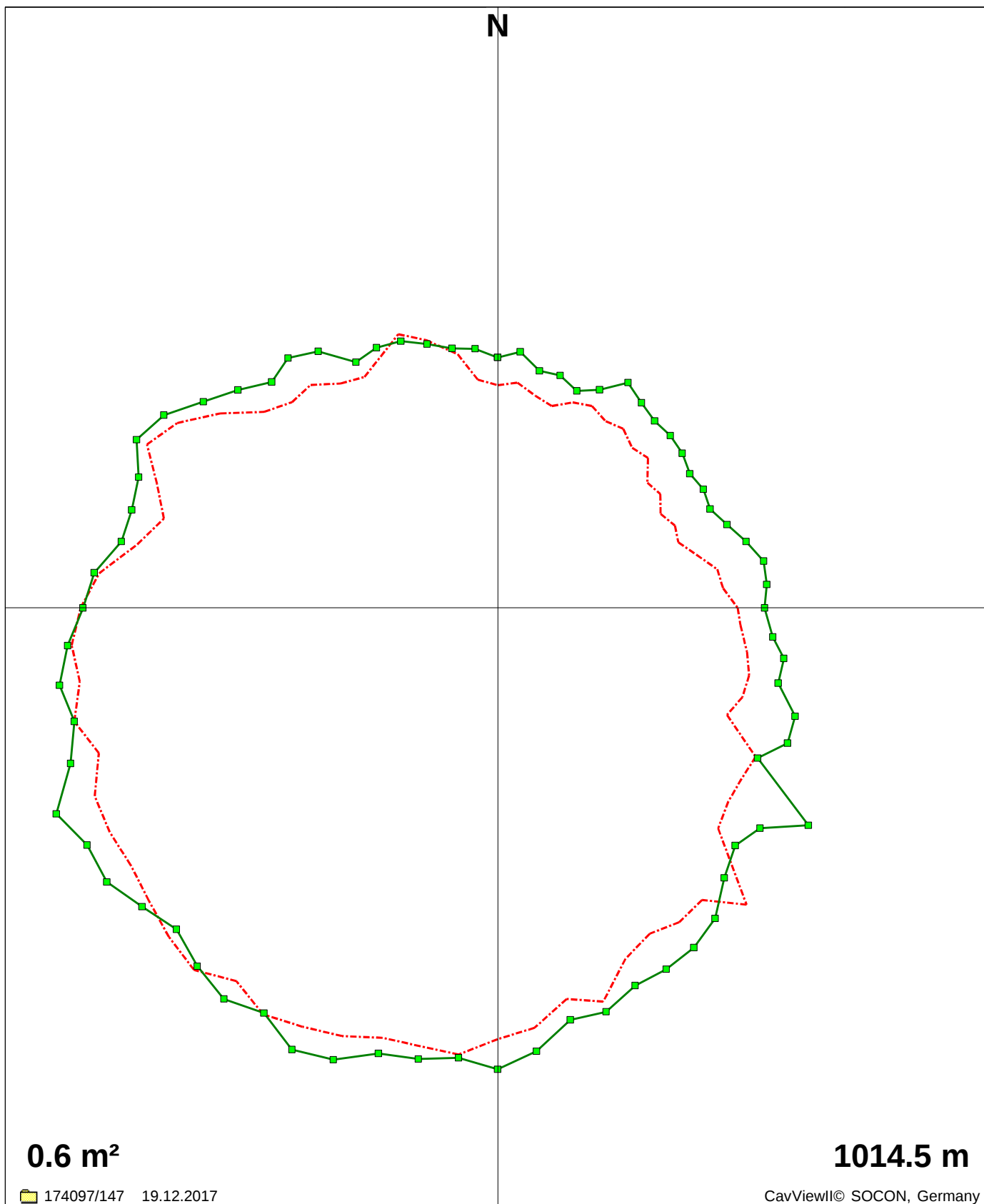
--- (19.05.2014) (0.5 m²)

—■ (19.12.2017) (0.5 m²)

d_{max}: 0.9 m 60° <--> 240° r_{min}: 0.3 m -> 71° r~: 0.4 m r_{max}: 0.6 m -> 240°

Heiligerlee K

19.12.2017



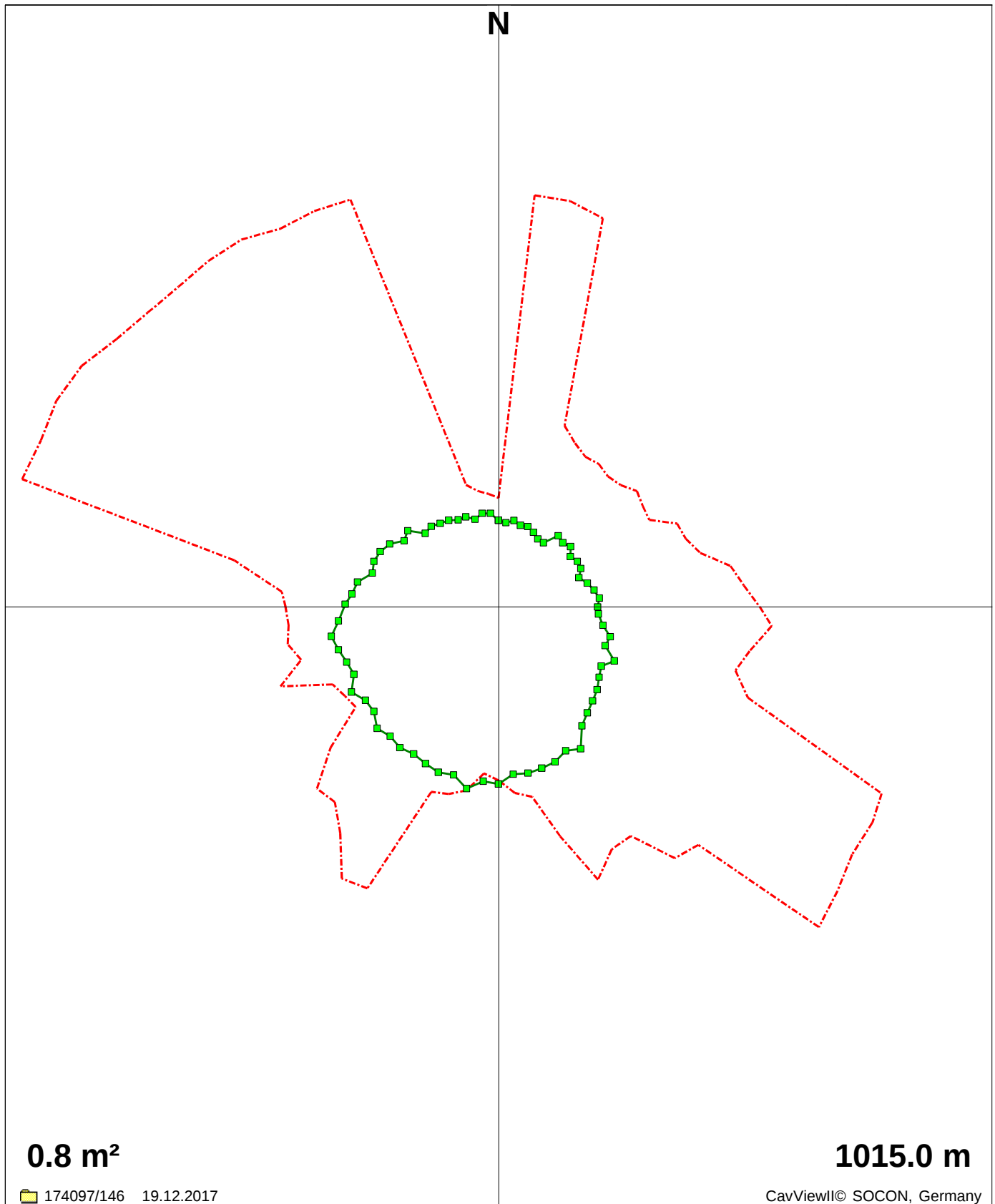
--- (19.05.2014) (0.5 m²)

—■ (19.12.2017) (0.6 m²)

d_{max}: 0.9 m 125° <--> 305° r_{min}: 0.3 m -> 16° r~: 0.4 m r_{max}: 0.6 m -> 205°

Heiligerlee K

19.12.2017



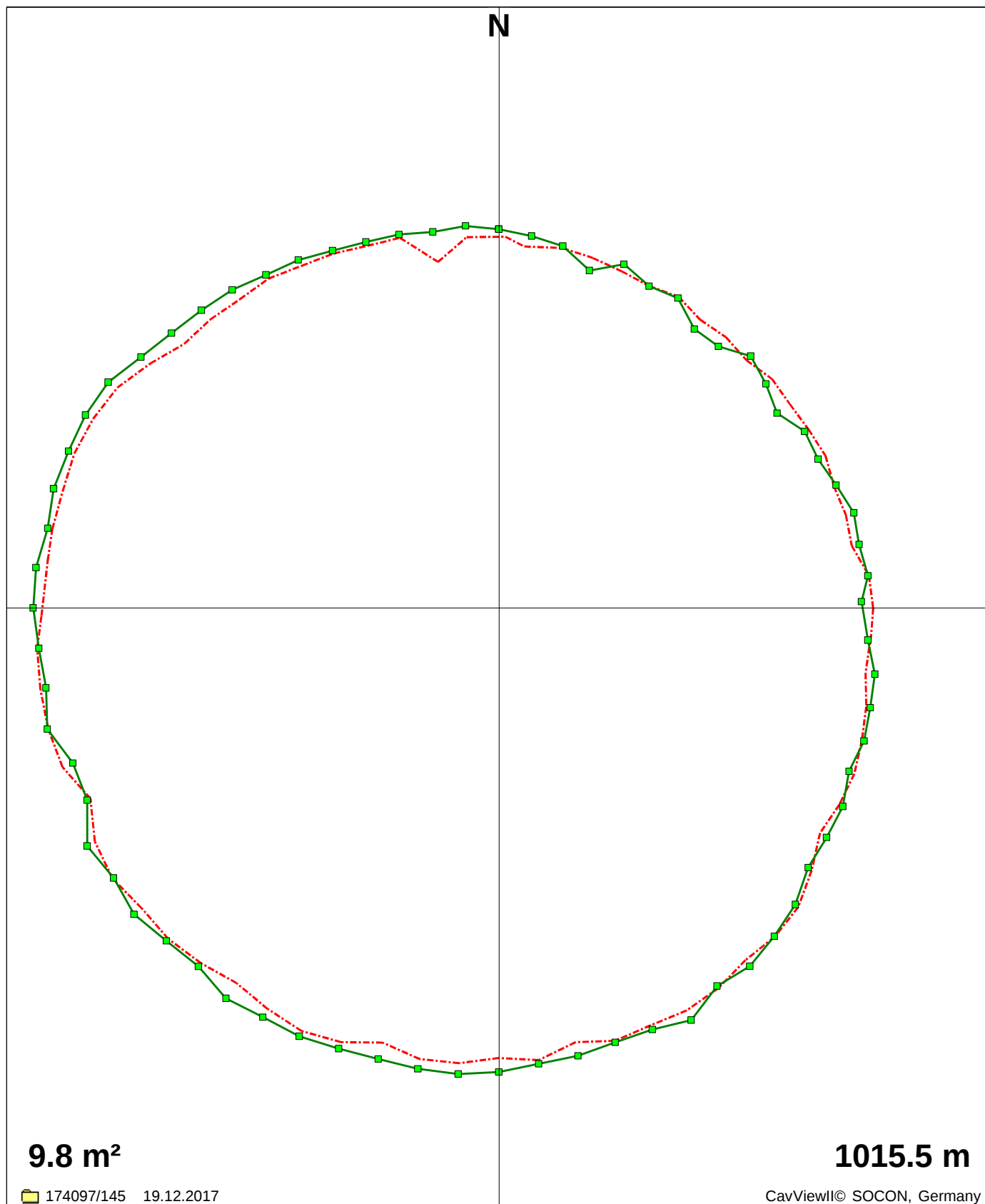
--- (19.05.2014) (4.4 m²)

—■— (19.12.2017) (0.8 m²)

d_{max}: 1.1 m 10° <--> 190° r_{min}: 0.3 m -> 30° r~: 0.5 m r_{max}: 0.7 m -> 190°

Heiligerlee K

19.12.2017



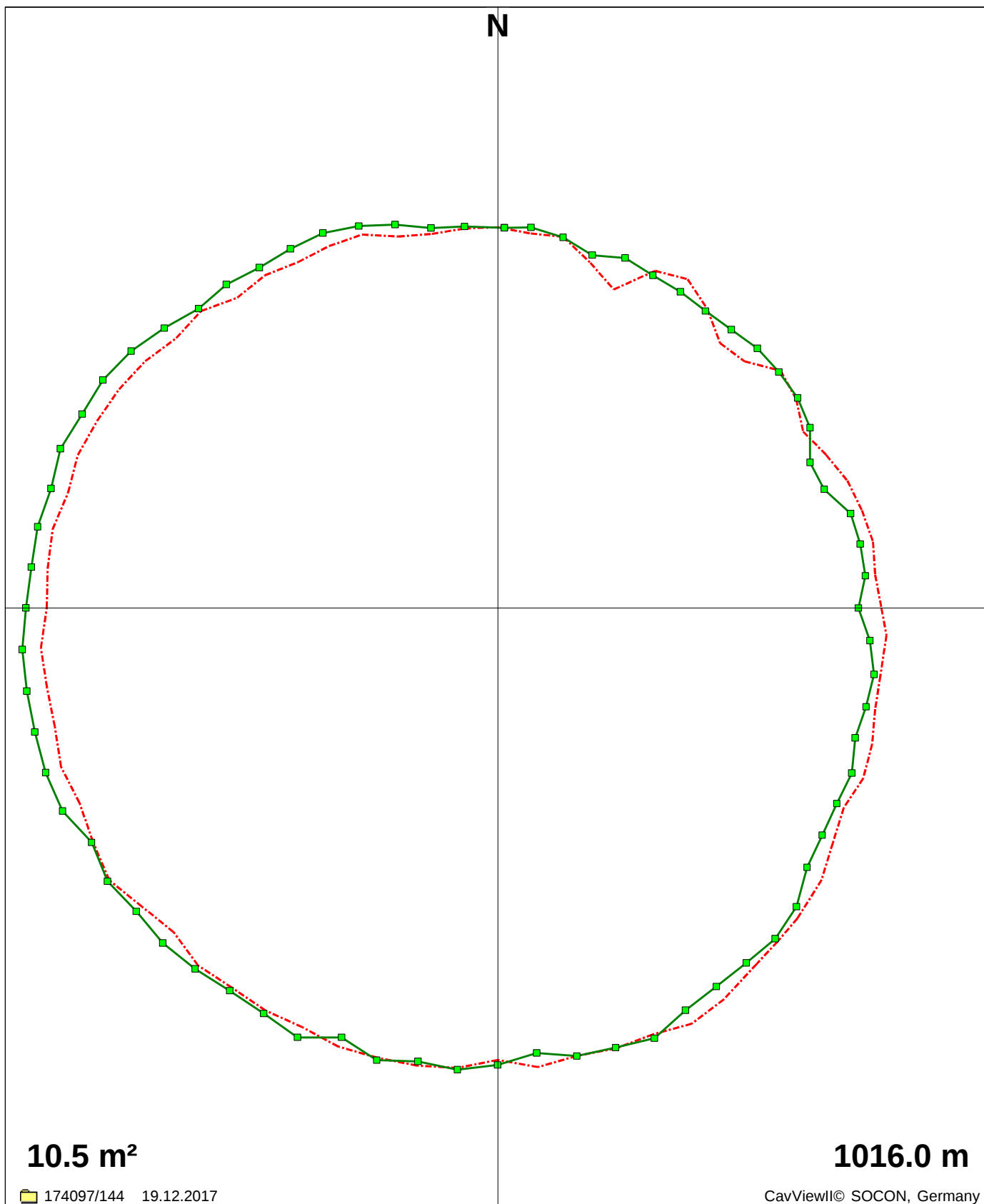
--- (19.05.2014) (9.6 m²)

—■ (19.12.2017) (9.8 m²)

d_{max}: 3.6 m 155° <--> 335° r_{min}: 1.4 m -> 53° r~: 1.8 m r_{max}: 2.0 m -> 215°

Heiligerlee K

19.12.2017



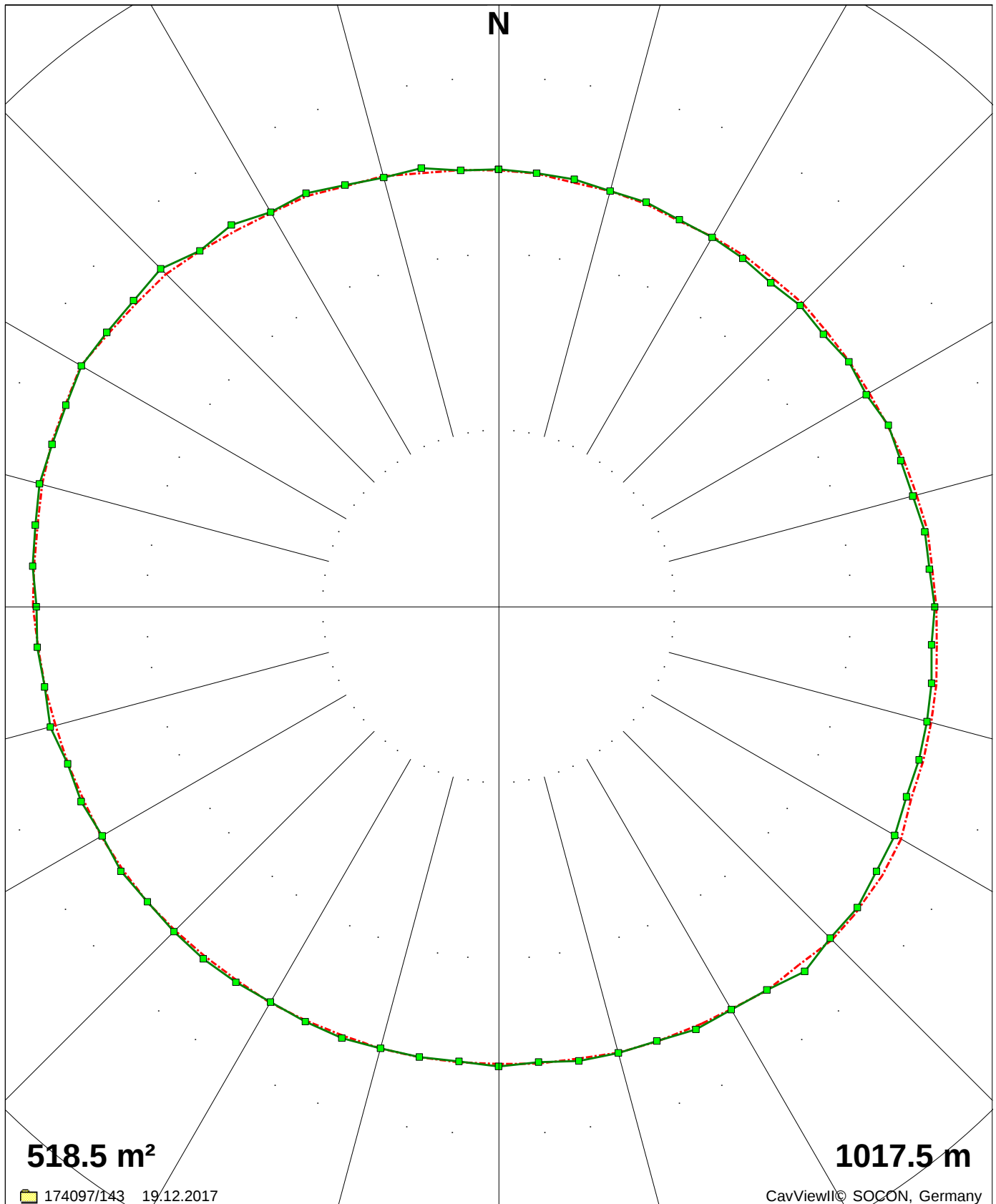
--- (19.05.2014) (10.3 m²)

—■ (19.12.2017) (10.5 m²)

d_{max}: 3.7 m 160° <--> 340° r_{min}: 1.5 m -> 64° r~: 1.8 m r_{max}: 2.1 m -> 250°

Heiligerlee K

19.12.2017



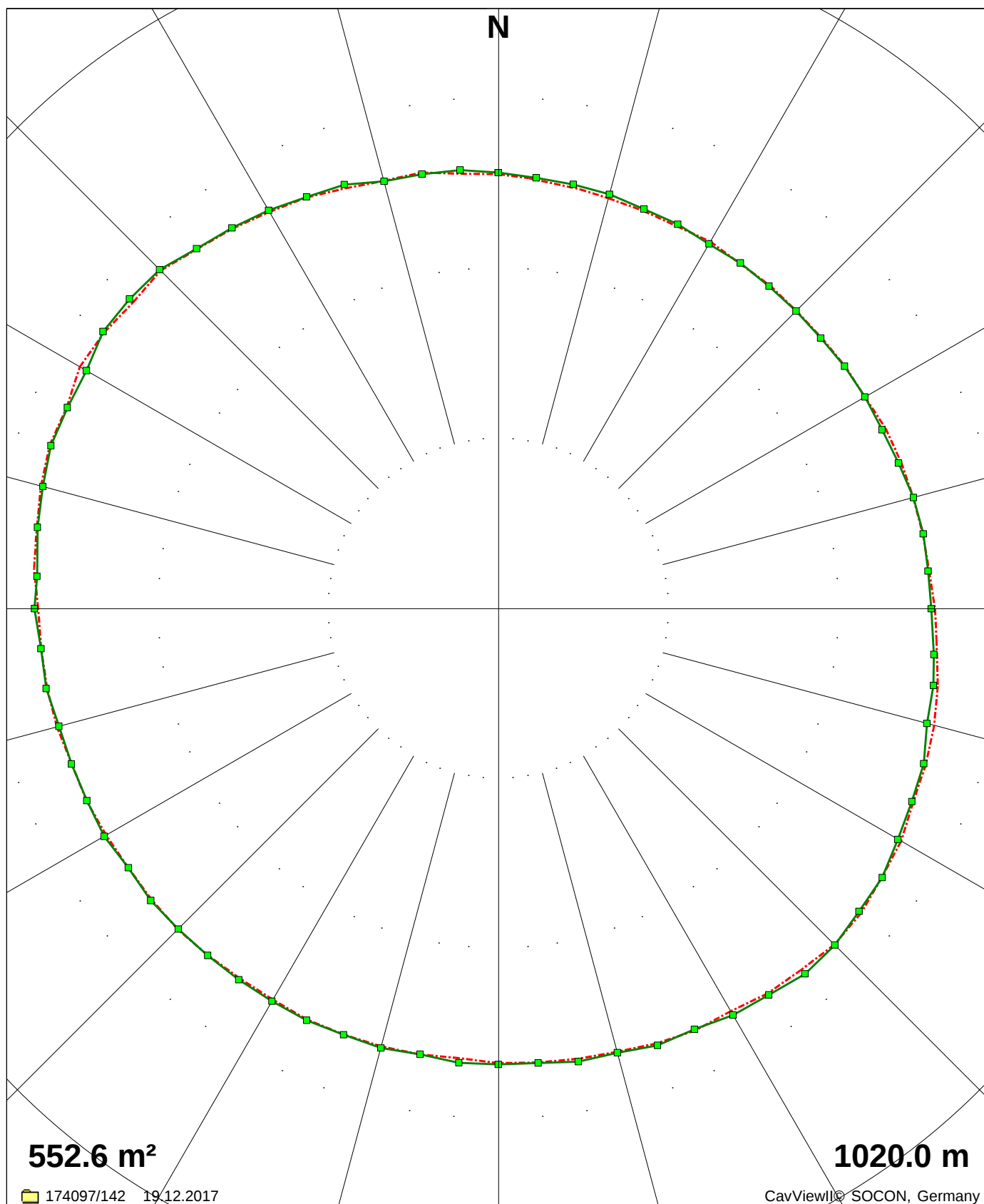
--- (19.05.2014) (518.7 m²)

—■— (19.12.2017) (518.5 m²)

$d_{\max}$: 26.9 m 135° <--> 315° $r_{\min}$: 12.0 m -> 39° $r_{\sim}$: 12.8 m $r_{\max}$: 13.7 m -> 300°

Heiligerlee K

19.12.2017



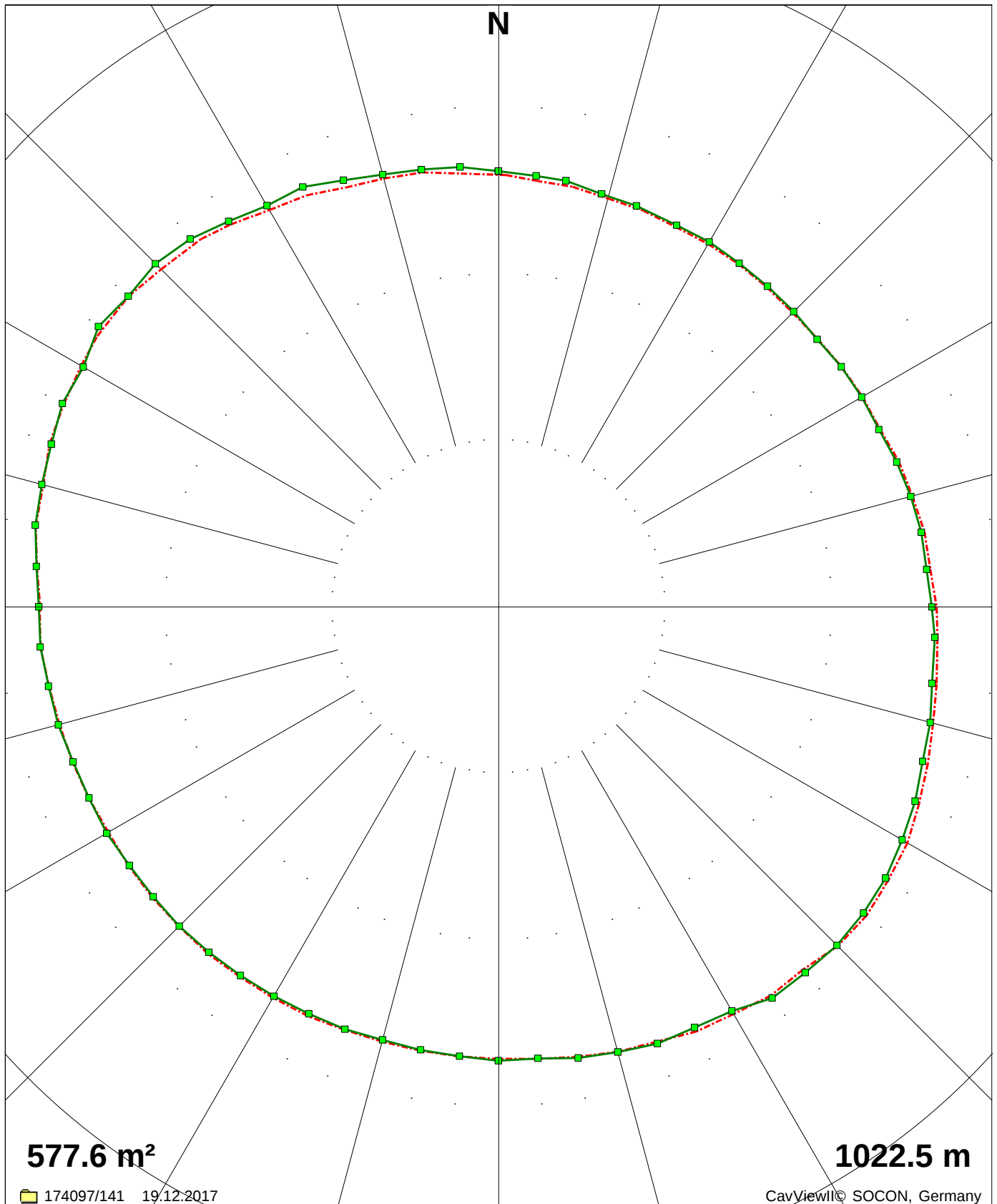
--- (19.05.2014) (552.3 m²)

—■— (19.12.2017) (552.6 m²)

$d_{\max}$: 28.1 m 135° <--> 315° $r_{\min}$: 12.3 m -> 47° $r_{\sim}$: 13.3 m $r_{\max}$: 14.2 m -> 305°

Heiligerlee K

19.12.2017



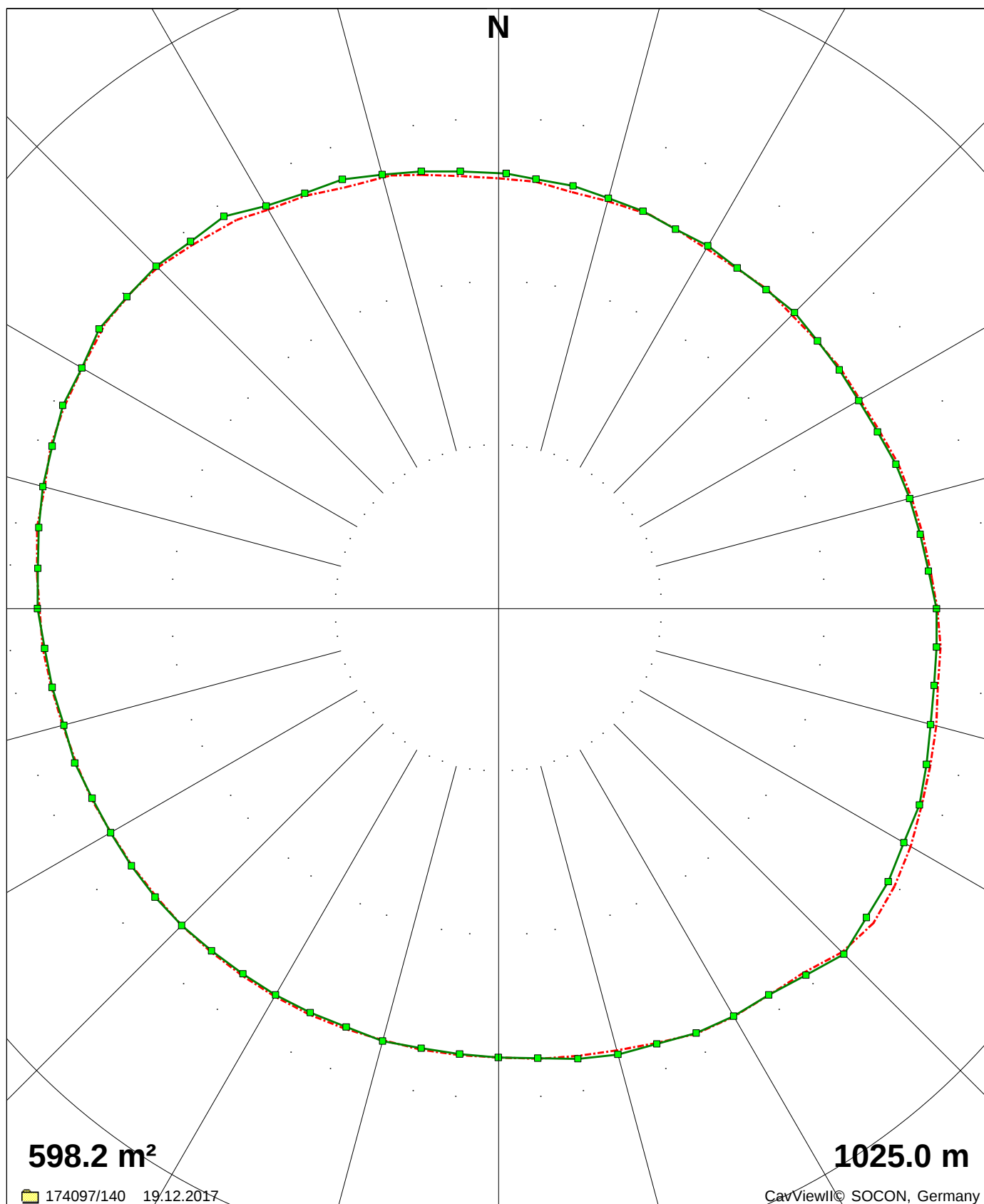
--- (19.05.2014) (576.8 m²)

—■— (19.12.2017) (577.6 m²)

$d_{\max}$: 29.0 m 135° <--> 315° $r_{\min}$: 12.5 m -> 48° $r_{\sim}$: 13.6 m $r_{\max}$: 14.7 m -> 305°

Heiligerlee K

19.12.2017



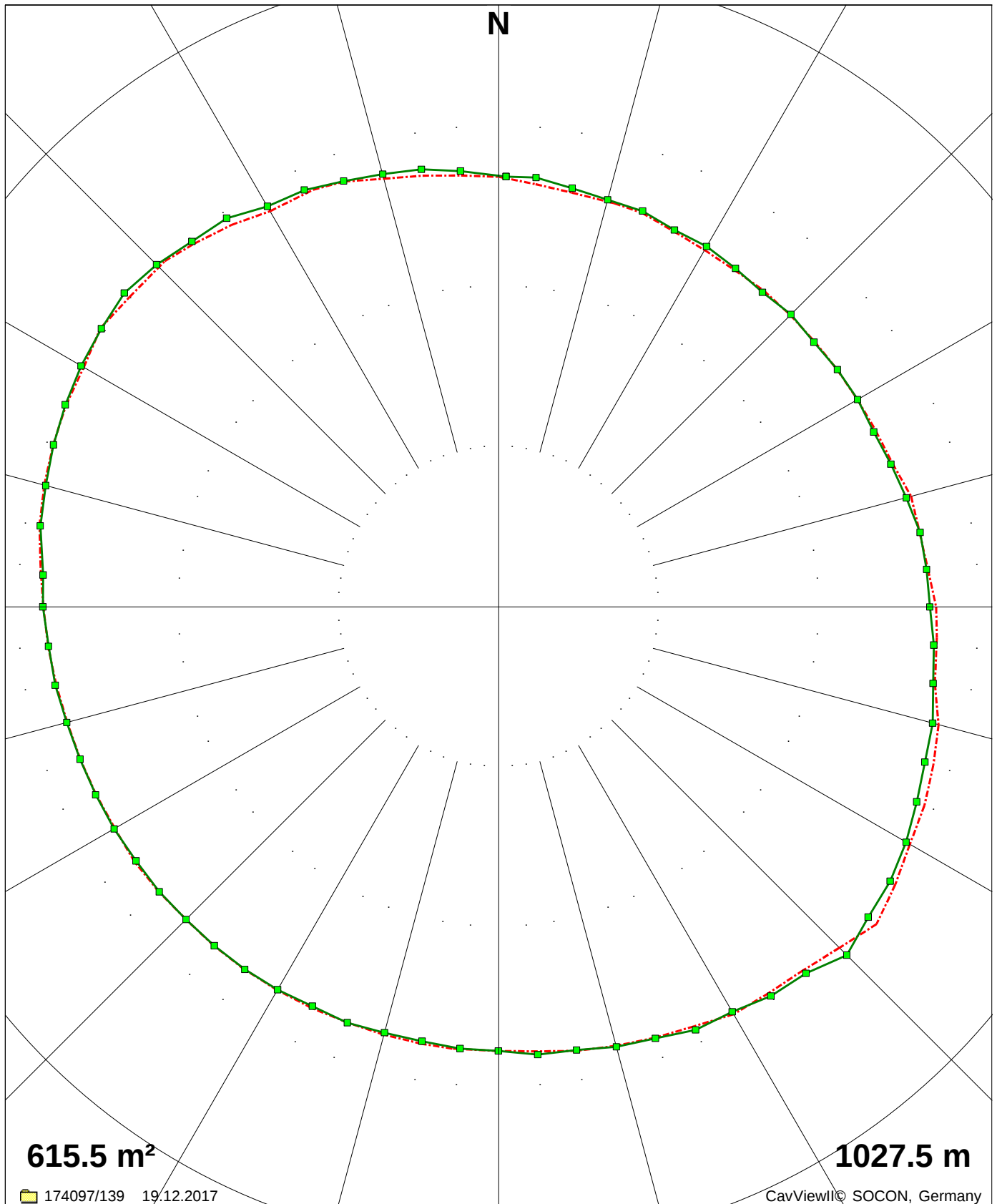
--- (19.05.2014) (597.9 m²)

—■— (19.12.2017) (598.2 m²)

$d_{\max}$: 29.8 m 135° <--> 315° $r_{\min}$: 12.7 m -> 56° $r_{\sim}$: 13.8 m $r_{\max}$: 15.0 m -> 135°

Heiligerlee K

19.12.2017



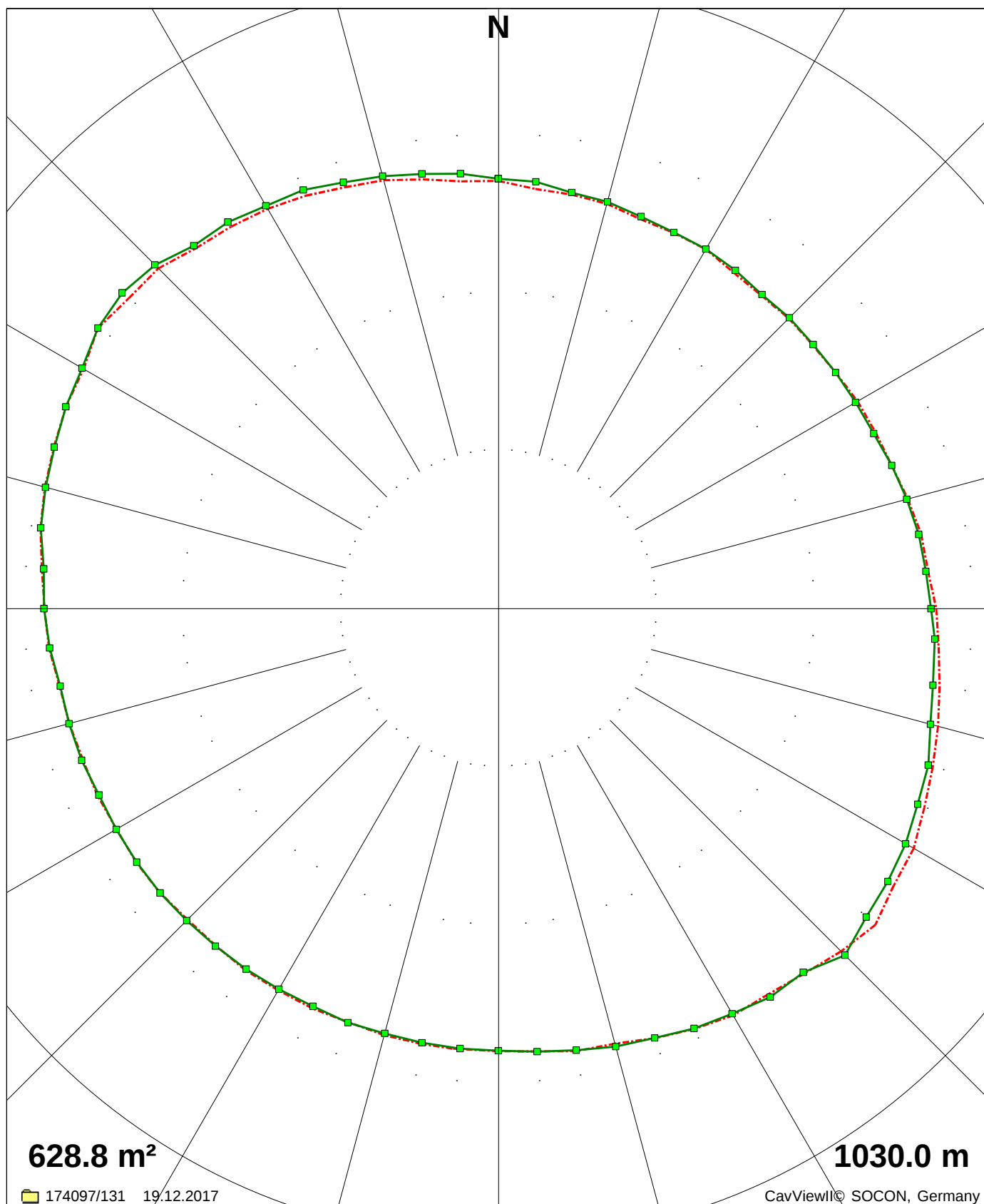
--- (19.05.2014) (614.9 m²)

—■ (19.12.2017) (615.5 m²)

$d_{\max}$: 30.5 m 135° <--> 315° $r_{\min}$: 12.8 m -> 39° $r_{\sim}$: 14.0 m $r_{\max}$: 15.4 m -> 135°

Heiligerlee K

19.12.2017



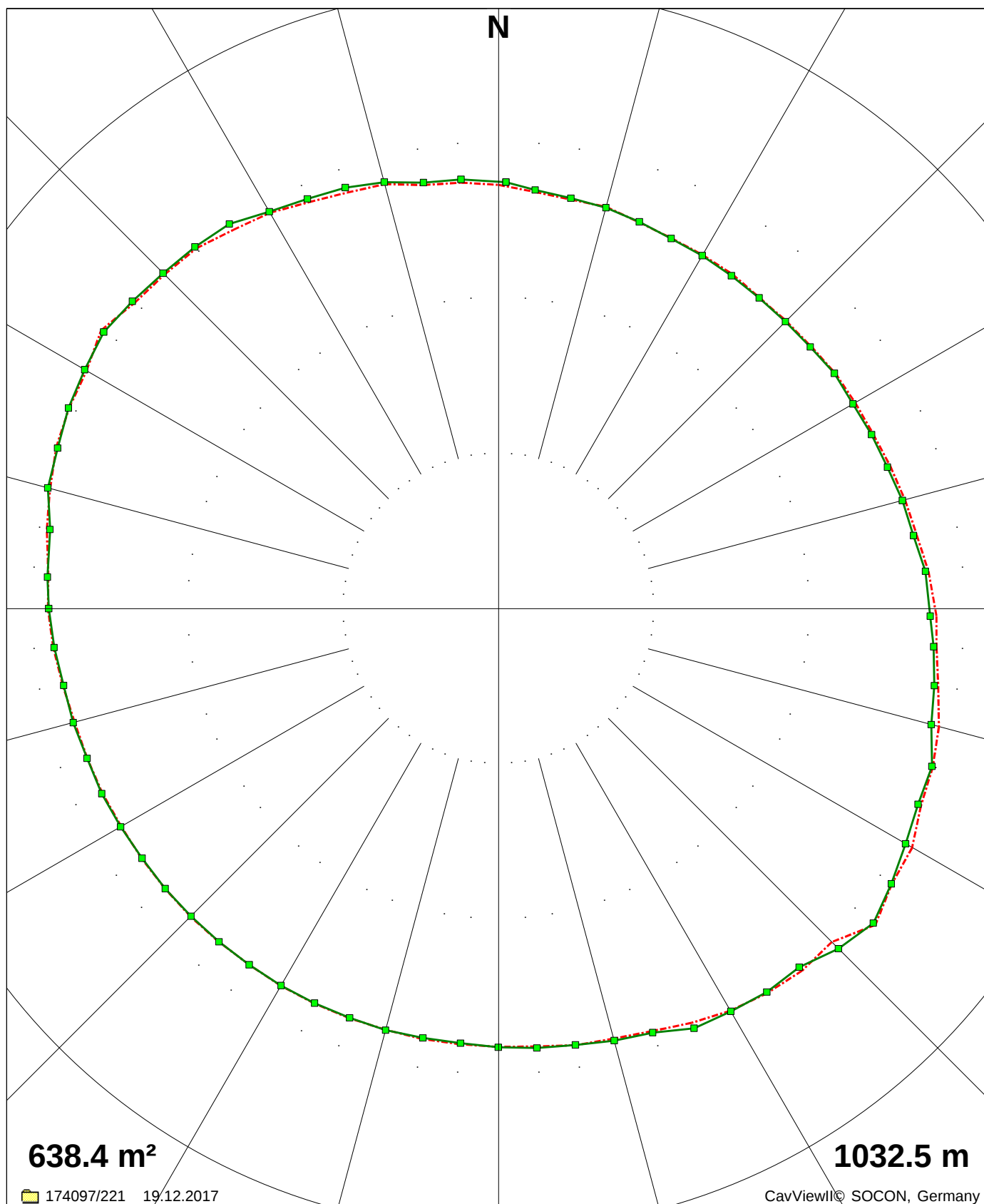
--- (19.05.2014) (628.8 m²)

—■— (19.12.2017) (628.8 m²)

$d_{\max}$: 30.9 m 135° <--> 315° $r_{\min}$: 13.0 m -> 40° $r_{\sim}$: 14.1 m $r_{\max}$: 15.5 m -> 310°

Heiligerlee K

19.12.2017



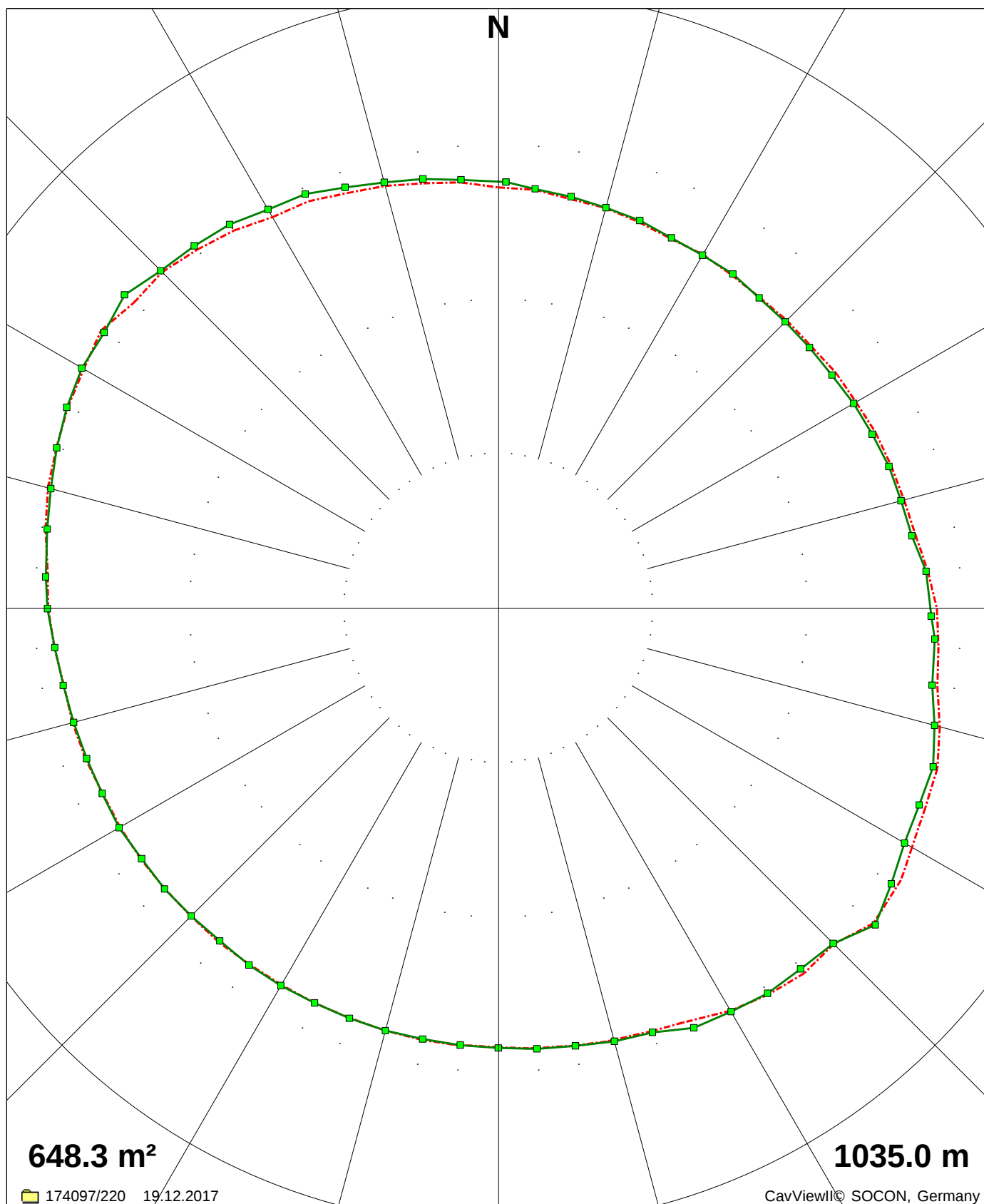
--- (19.05.2014) (638.8 m²)

—■— (19.12.2017) (638.4 m²)

$d_{\max}$: 31.1 m 130° <--> 310° $r_{\min}$: 13.0 m -> 41° $r_{\sim}$: 14.3 m $r_{\max}$: 15.8 m -> 130°

Heiligerlee K

19.12.2017



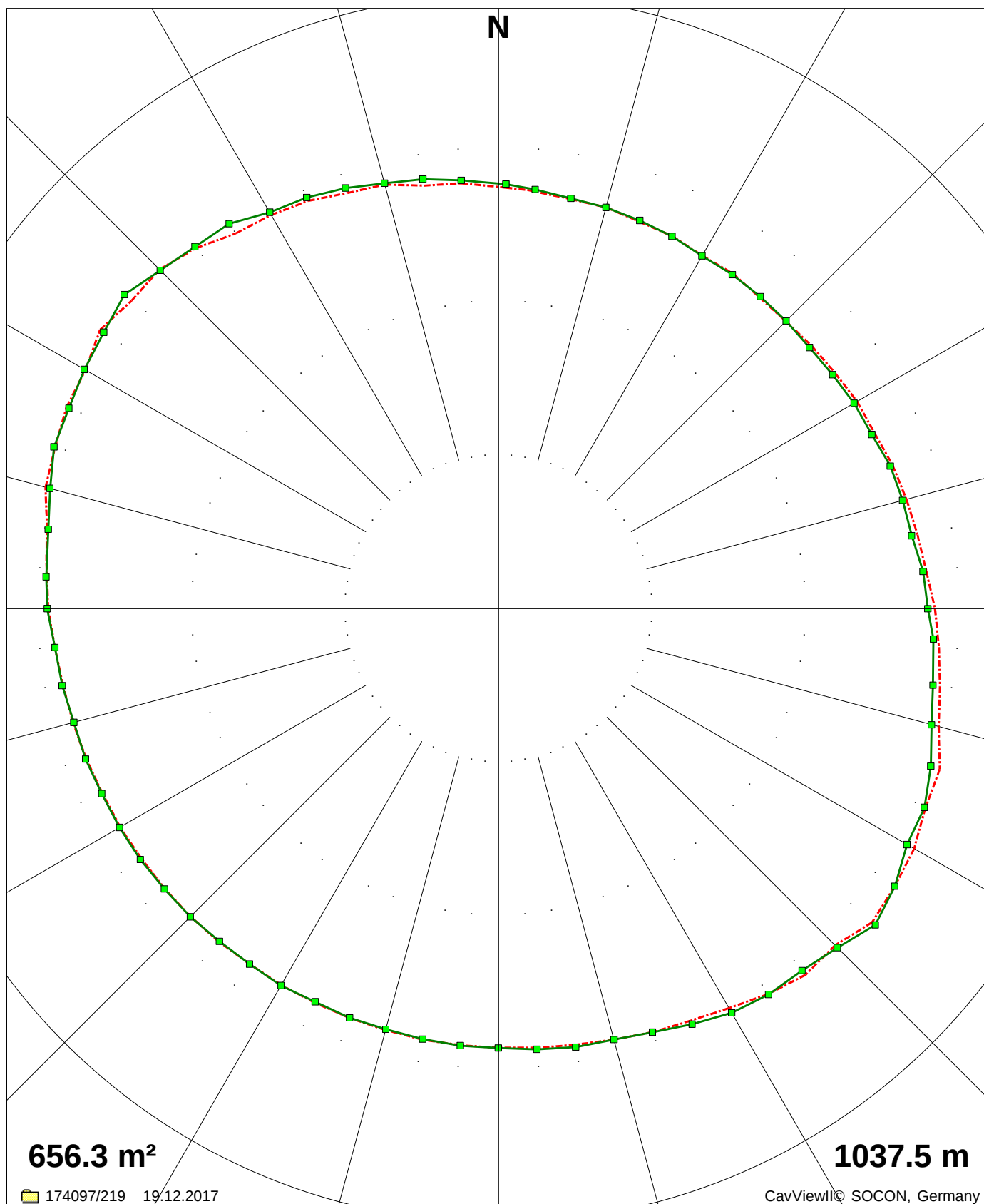
--- (19.05.2014) (648.1 m²)

—■— (19.12.2017) (648.3 m²)

$d_{\max}$: 31.7 m 130° <--> 310° $r_{\min}$: 13.1 m -> 41° $r_{\sim}$: 14.4 m $r_{\max}$: 15.9 m -> 130°

Heiligerlee K

19.12.2017



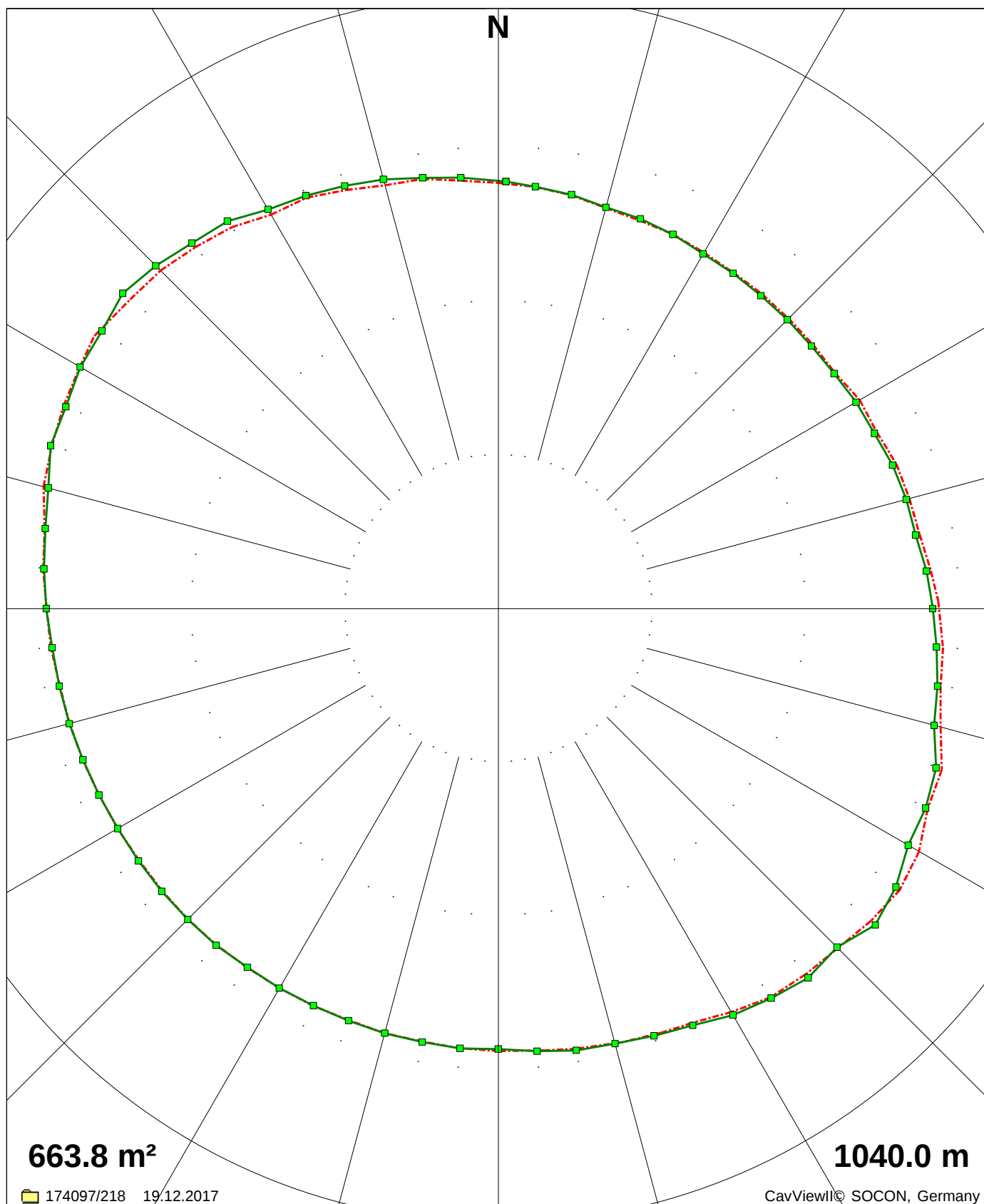
--- (19.05.2014) (656.8 m²)

—■— (19.12.2017) (656.3 m²)

$d_{\max}$: 31.9 m 130° <--> 310° $r_{\min}$: 13.2 m -> 47° $r_{\sim}$: 14.5 m $r_{\max}$: 16.0 m -> 130°

Heiligerlee K

19.12.2017



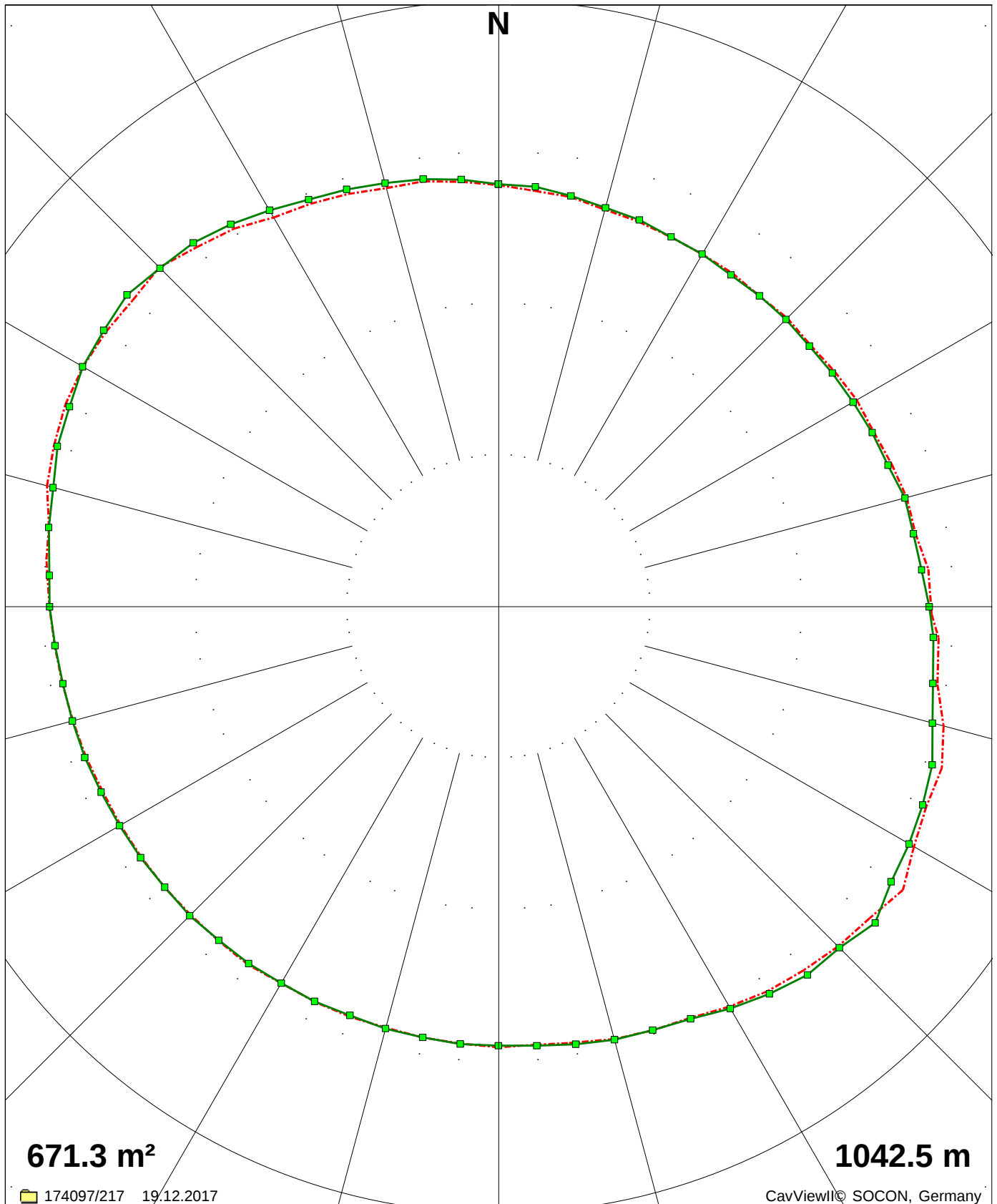
--- (19.05.2014) (664.3 m²)

—■— (19.12.2017) (663.8 m²)

$d_{\max}$: 32.0 m 130° <--> 310° $r_{\min}$: 13.3 m -> 47° $r_{\sim}$: 14.5 m $r_{\max}$: 16.0 m -> 130°

Heiligerlee K

19.12.2017



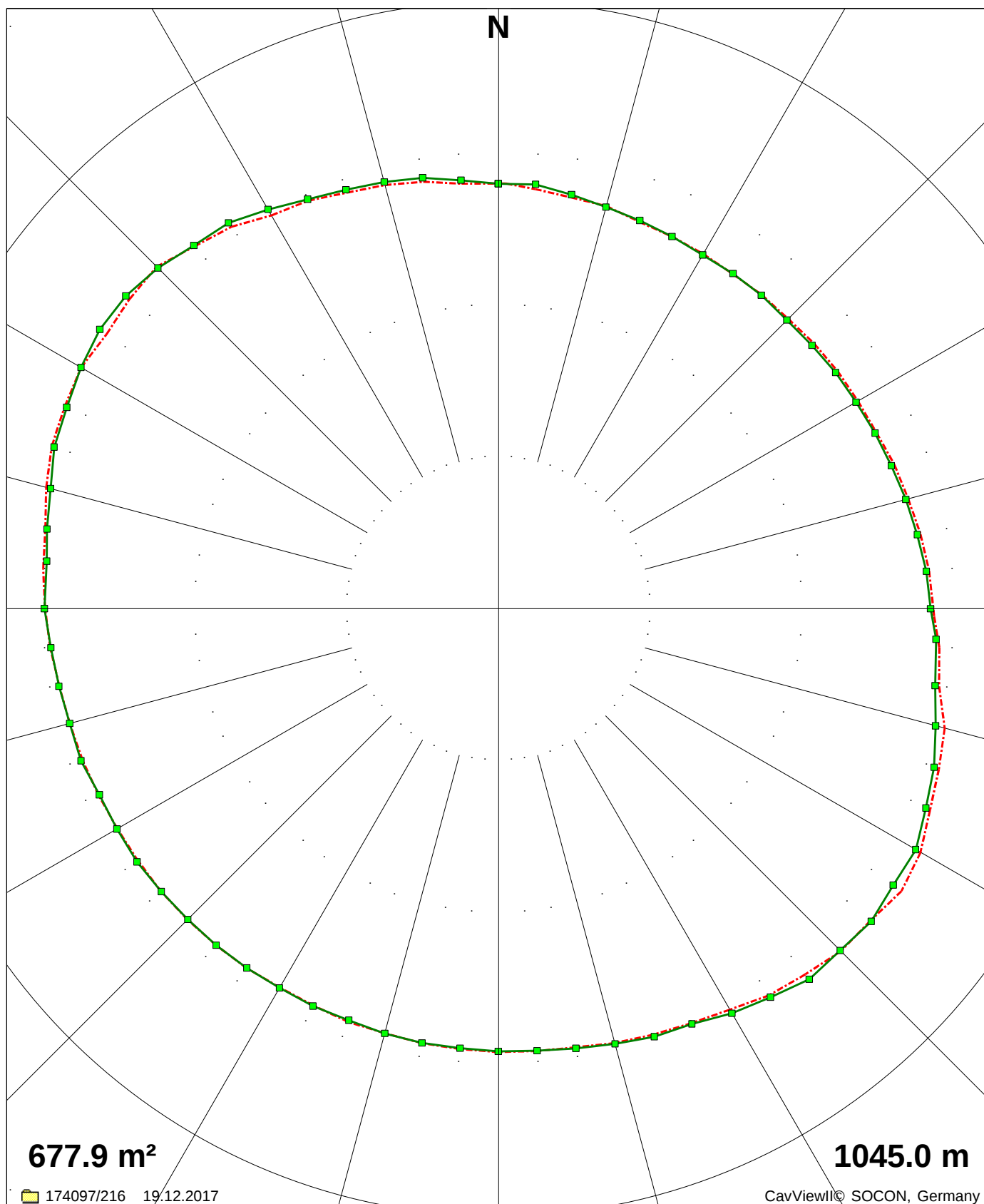
--- (19.05.2014) (672.1 m²)

—■— (19.12.2017) (671.3 m²)

$d_{\max}$: 32.2 m 130° <--> 310° $r_{\min}$: 13.4 m -> 35° $r_{\sim}$: 14.6 m $r_{\max}$: 16.2 m -> 130°

Heiligerlee K

19.12.2017



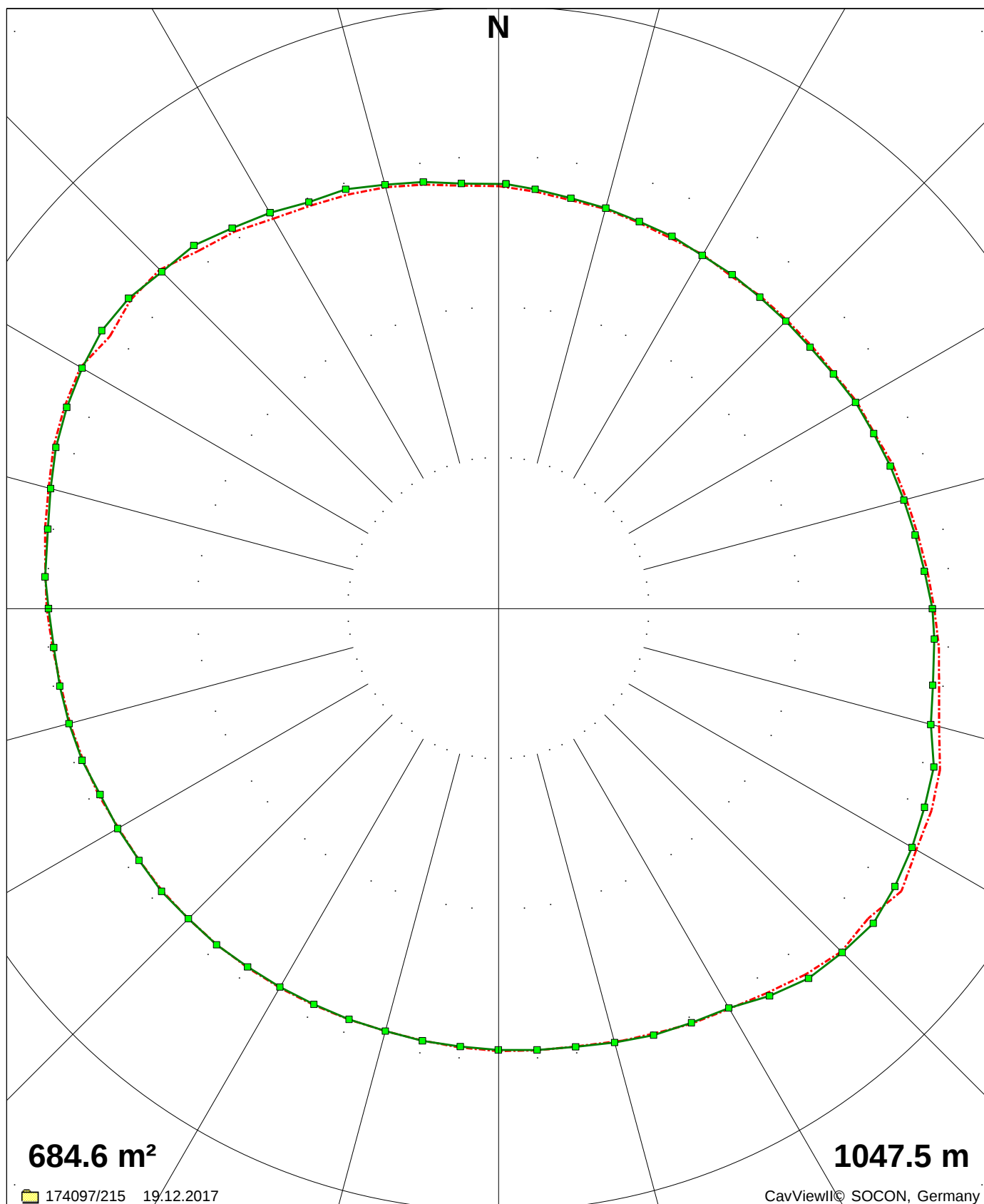
--- (19.05.2014) (678.6 m²)

—■— (19.12.2017) (677.9 m²)

d_{max}: 32.0 m 130° <--> 310° r_{min}: 13.4 m -> 43° r~: 14.7 m r_{max}: 16.0 m -> 305°

Heiligerlee K

19.12.2017



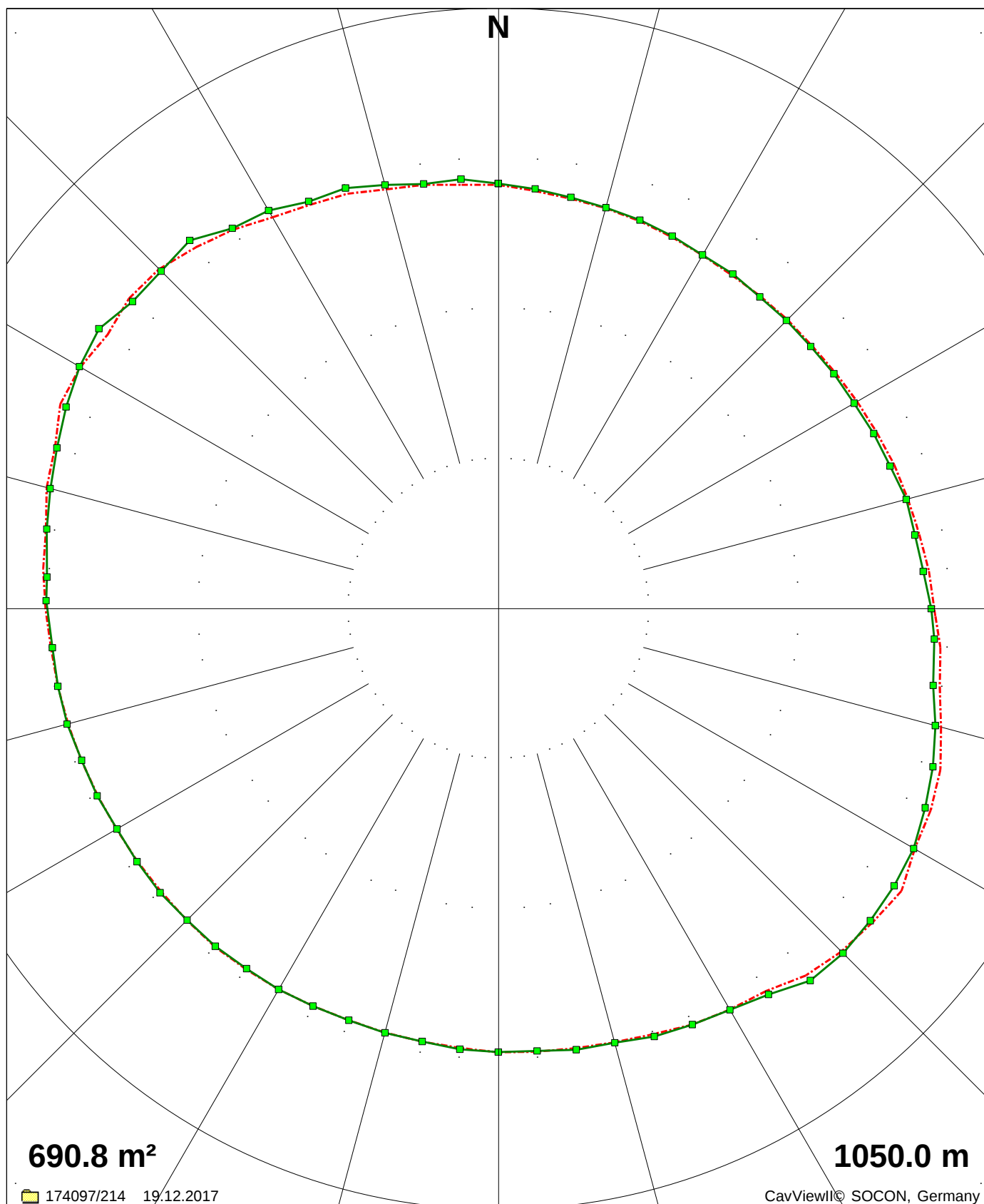
--- (19.05.2014) (684.9 m²)

—■— (19.12.2017) (684.6 m²)

d_{max}: 32.3 m 130° <--> 310° r_{min}: 13.5 m -> 42° r~: 14.8 m r_{max}: 16.3 m -> 130°

Heiligerlee K

19.12.2017



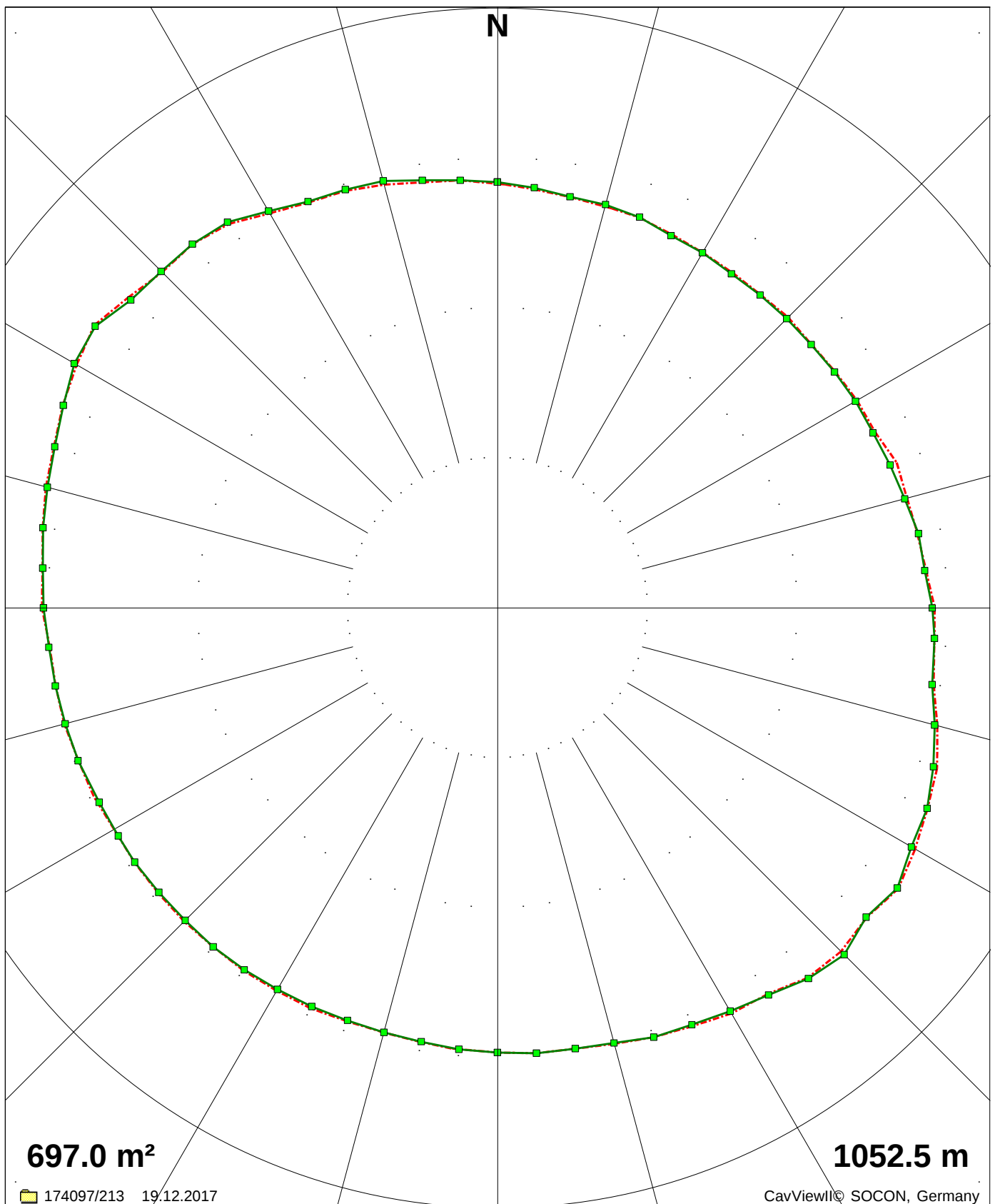
--- (19.05.2014) (691.9 m²)

—■— (19.12.2017) (690.8 m²)

d_{max}: 32.3 m 125° <--> 305° r_{min}: 13.5 m -> 41° r~: 14.8 m r_{max}: 16.2 m -> 305°

Heiligerlee K

19.12.2017



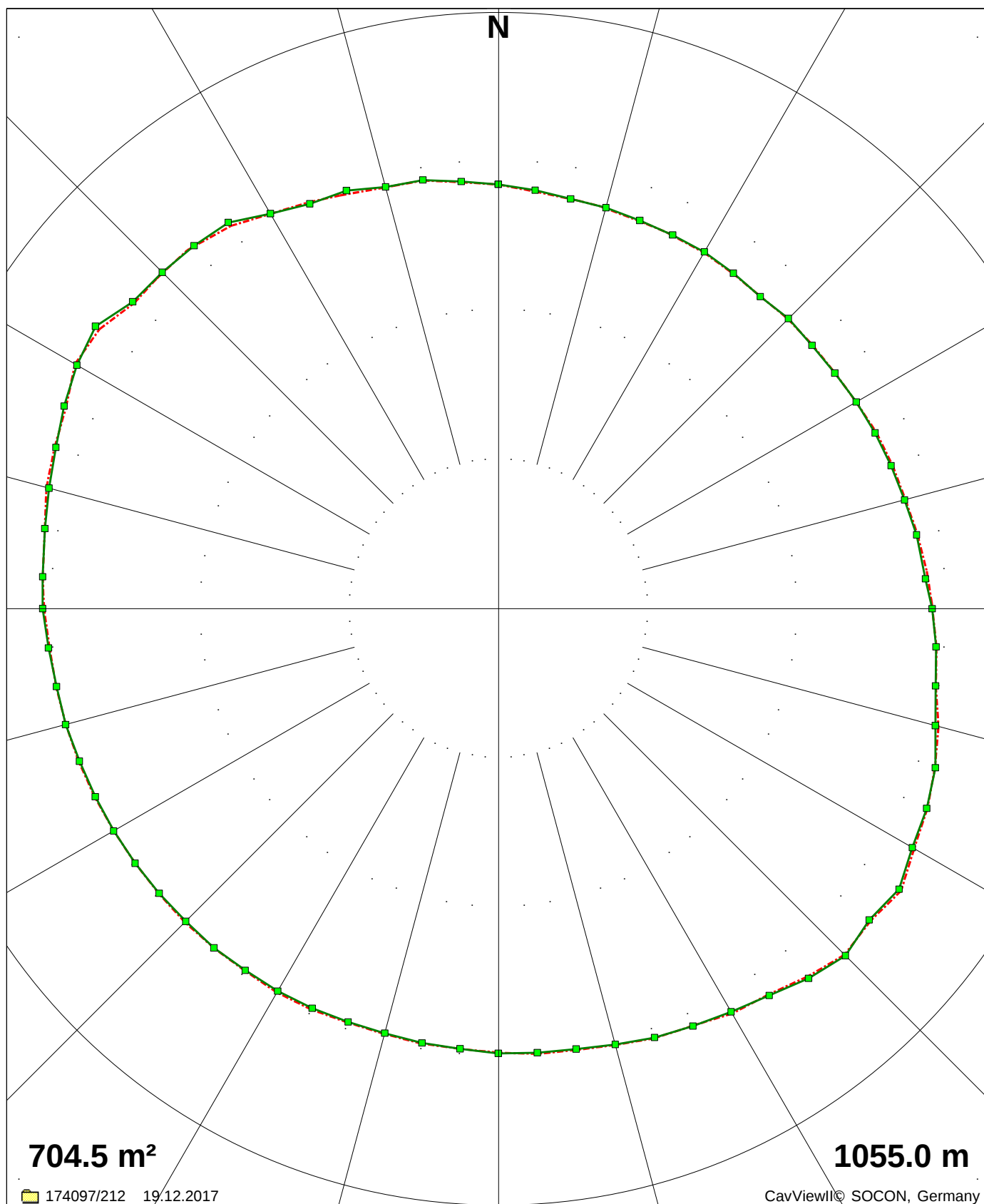
--- (19.05.2014) (698.5 m²)

—■— (19.12.2017) (697.0 m²)

$d_{\max}$: 32.6 m 125° <--> 305° $r_{\min}$: 13.6 m -> 36° $r_{\sim}$: 14.9 m $r_{\max}$: 16.4 m -> 305°

Heiligerlee K

19.12.2017



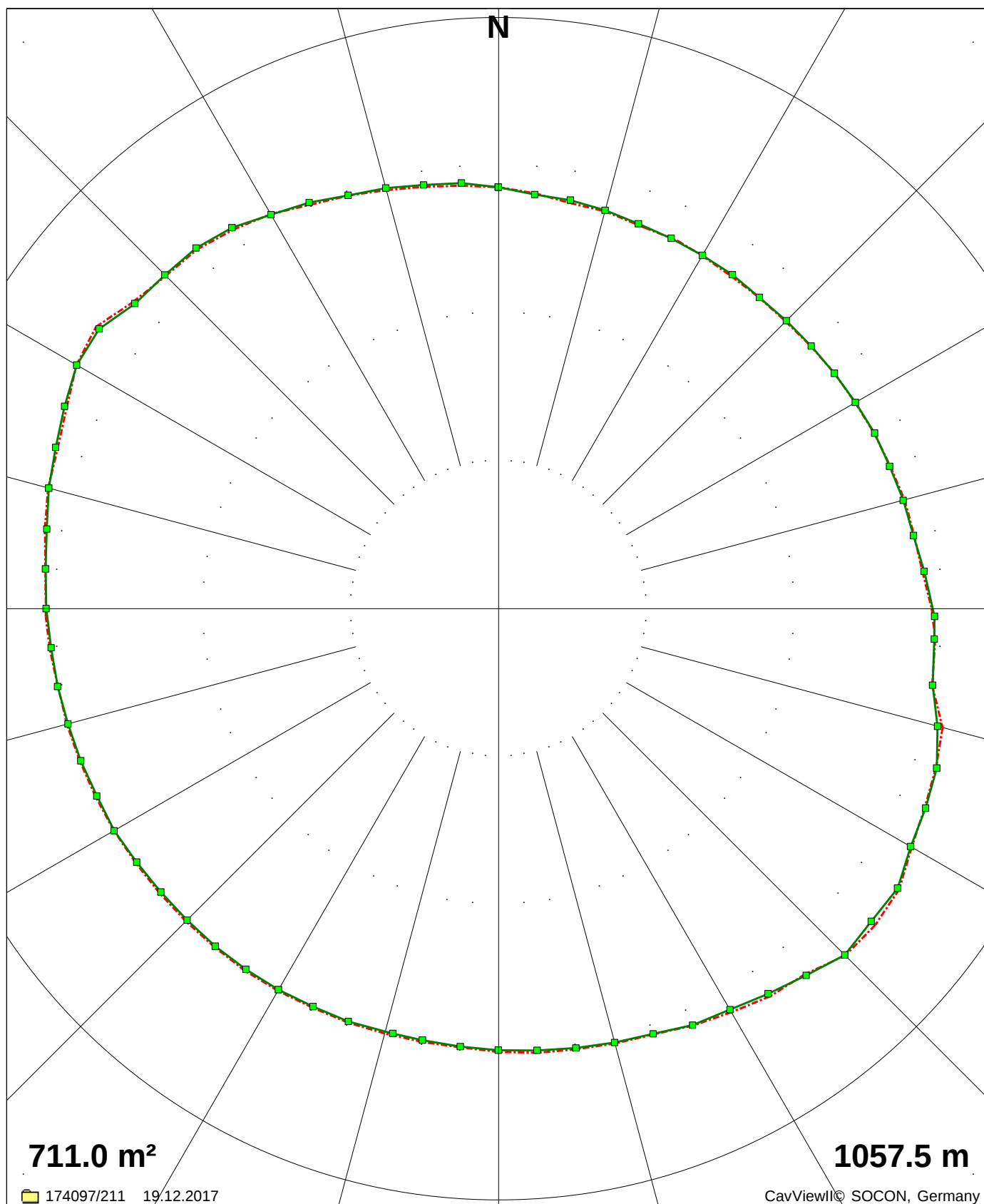
--- (19.05.2014) (704.9 m²)

—■— (19.12.2017) (704.5 m²)

d_{max}: 32.9 m 125° <--> 305° r_{min}: 13.7 m -> 39° r~: 15.0 m r_{max}: 16.5 m -> 305°

Heiligerlee K

19.12.2017



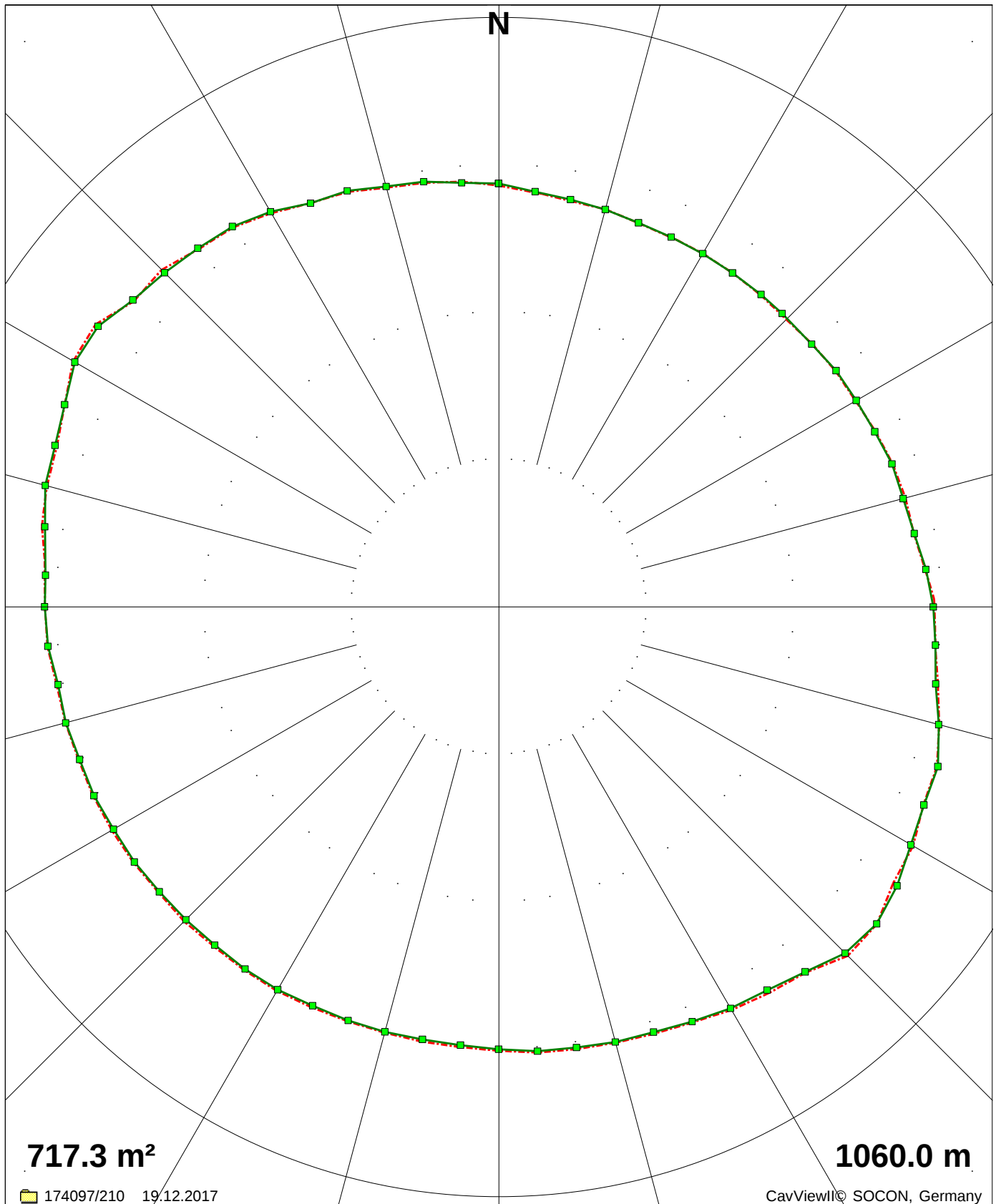
--- (19.05.2014) (712.4 m²)

—■— (19.12.2017) (711.0 m²)

d_{max}: 33.0 m 125° <--> 305° r_{min}: 13.7 m -> 40° r~: 15.0 m r_{max}: 16.6 m -> 135°

Heiligerlee K

19.12.2017



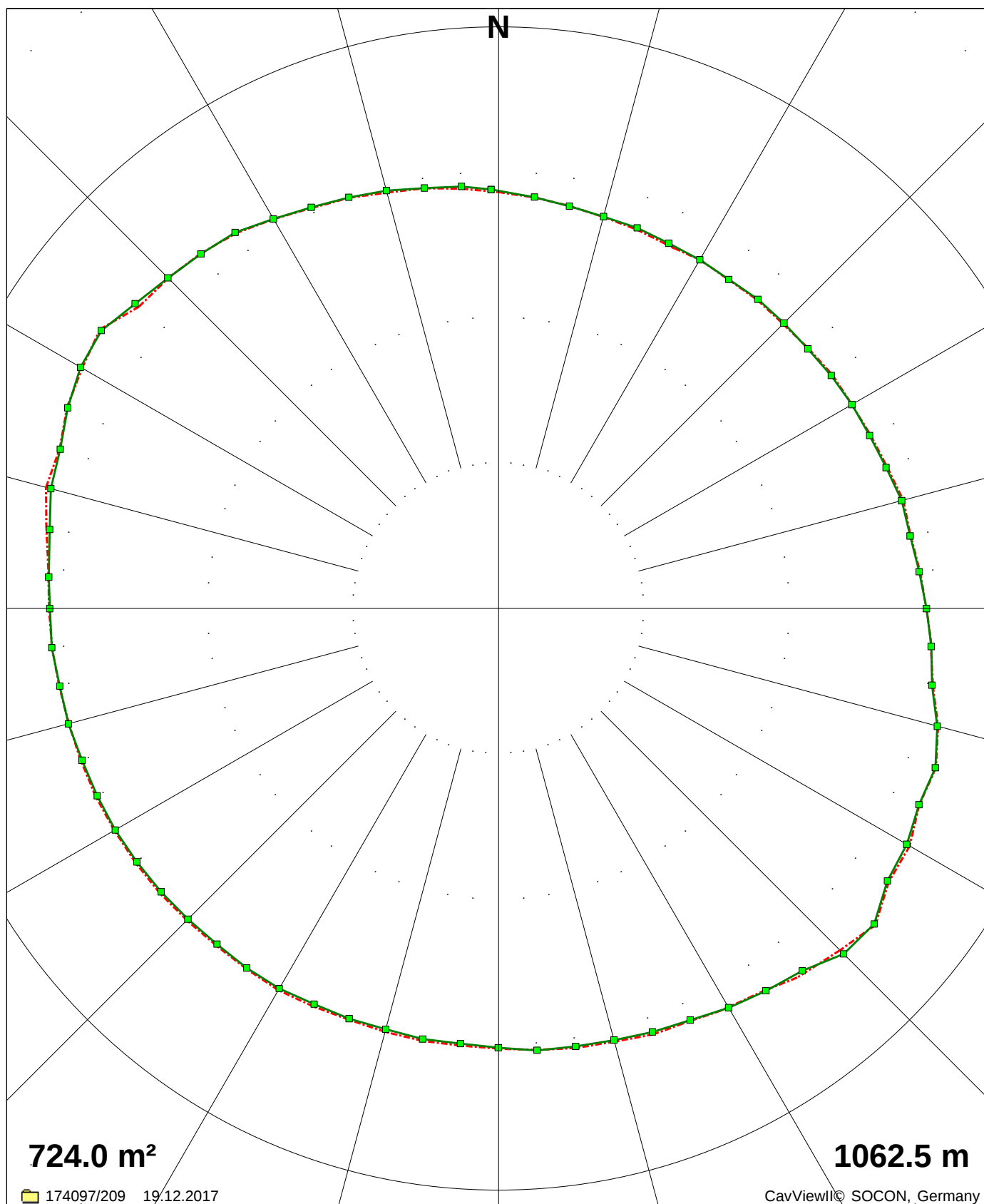
--- (19.05.2014) (719.1 m²)

—■— (19.12.2017) (717.3 m²)

$d_{\max}$: 33.1 m 125° <--> 305° $r_{\min}$: 13.8 m -> 32° $r_{\sim}$: 15.1 m $r_{\max}$: 16.7 m -> 130°

Heiligerlee K

19.12.2017



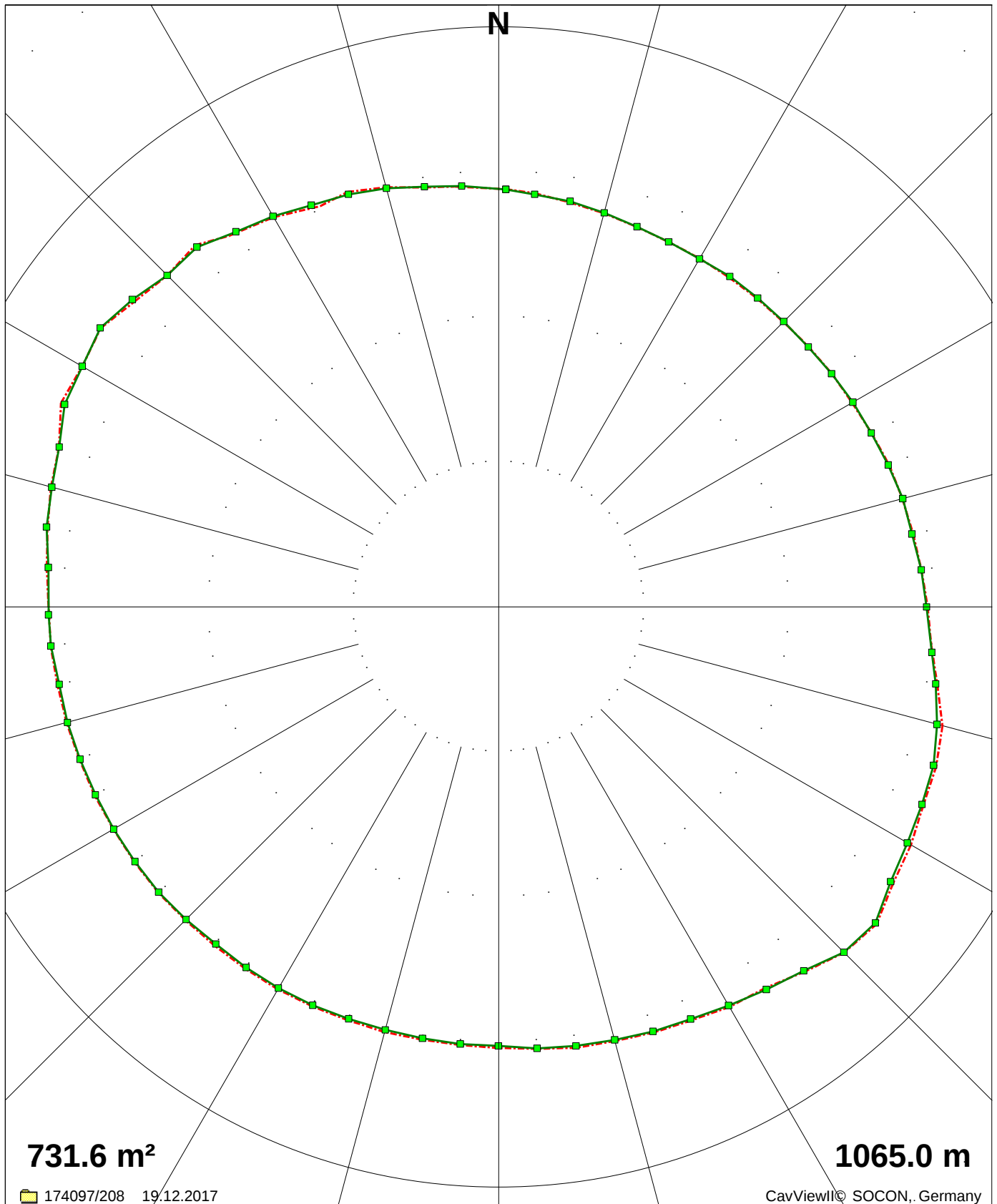
--- (19.05.2014) (725.6 m²)

—■— (19.12.2017) (724.0 m²)

d_{max}: 33.2 m 130° <--> 310° r_{min}: 13.8 m -> 32° r~: 15.2 m r_{max}: 16.9 m -> 130°

Heiligerlee K

19.12.2017



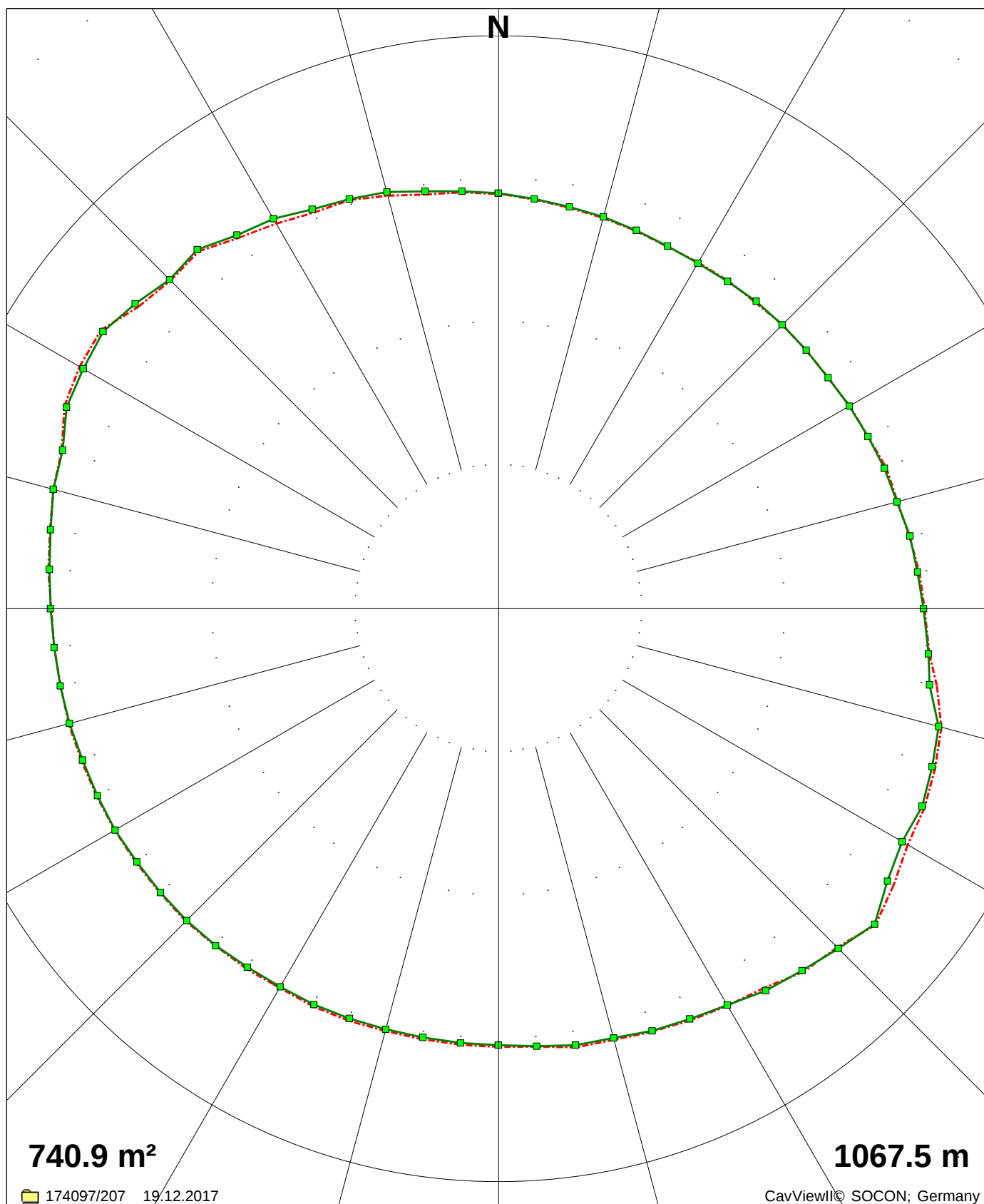
--- (19.05.2014) (734.0 m²)

—■— (19.12.2017) (731.6 m²)

$d_{\max}$: 33.4 m 130° <--> 310° $r_{\min}$: 13.8 m -> 27° $r_{\sim}$: 15.3 m $r_{\max}$: 17.0 m -> 130°

Heiligerlee K

19.12.2017



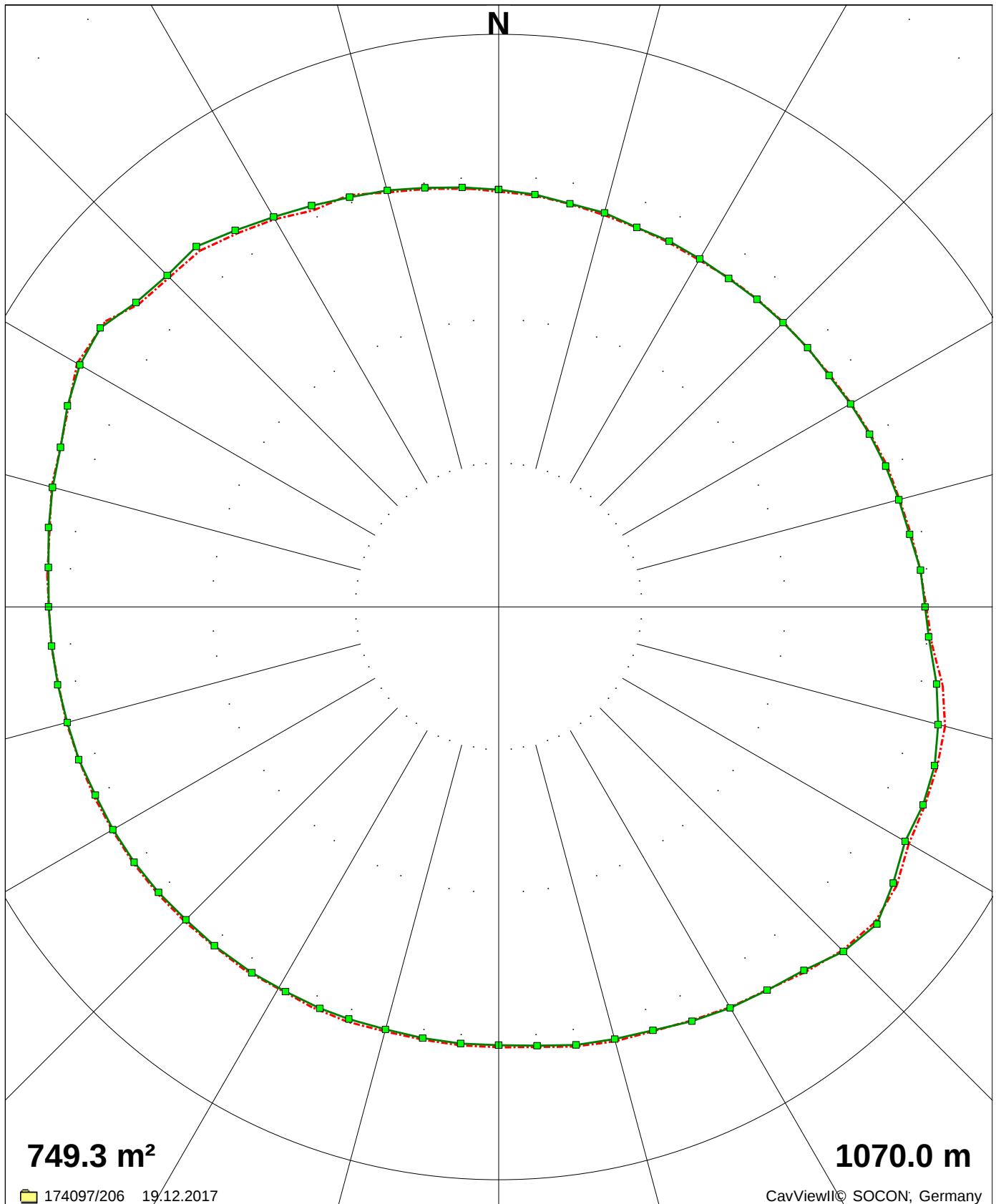
--- (19.05.2014) (742.9 m²)

—■— (19.12.2017) (740.9 m²)

$d_{\max}$: 33.7 m 130° <--> 310° $r_{\min}$: 13.9 m -> 31° $r_{\sim}$: 15.4 m $r_{\max}$: 17.1 m -> 130°

Heiligerlee K

19.12.2017



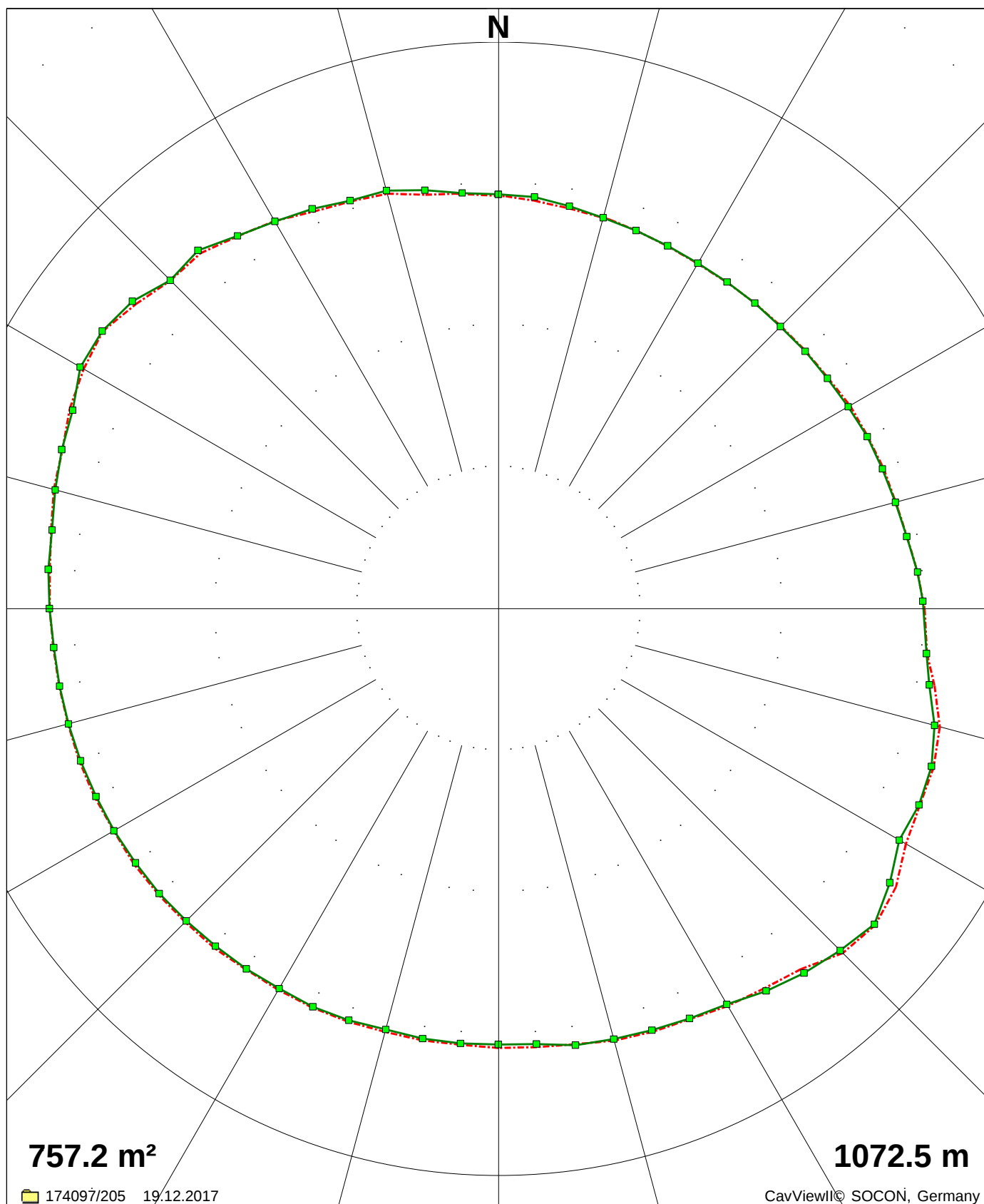
--- (19.05.2014) (750.9 m²)

—■— (19.12.2017) (749.3 m²)

$d_{\max}$: 33.8 m 125° <--> 305° $r_{\min}$: 14.0 m -> 32° $r_{\sim}$: 15.4 m $r_{\max}$: 17.2 m -> 130°

Heiligerlee K

19.12.2017



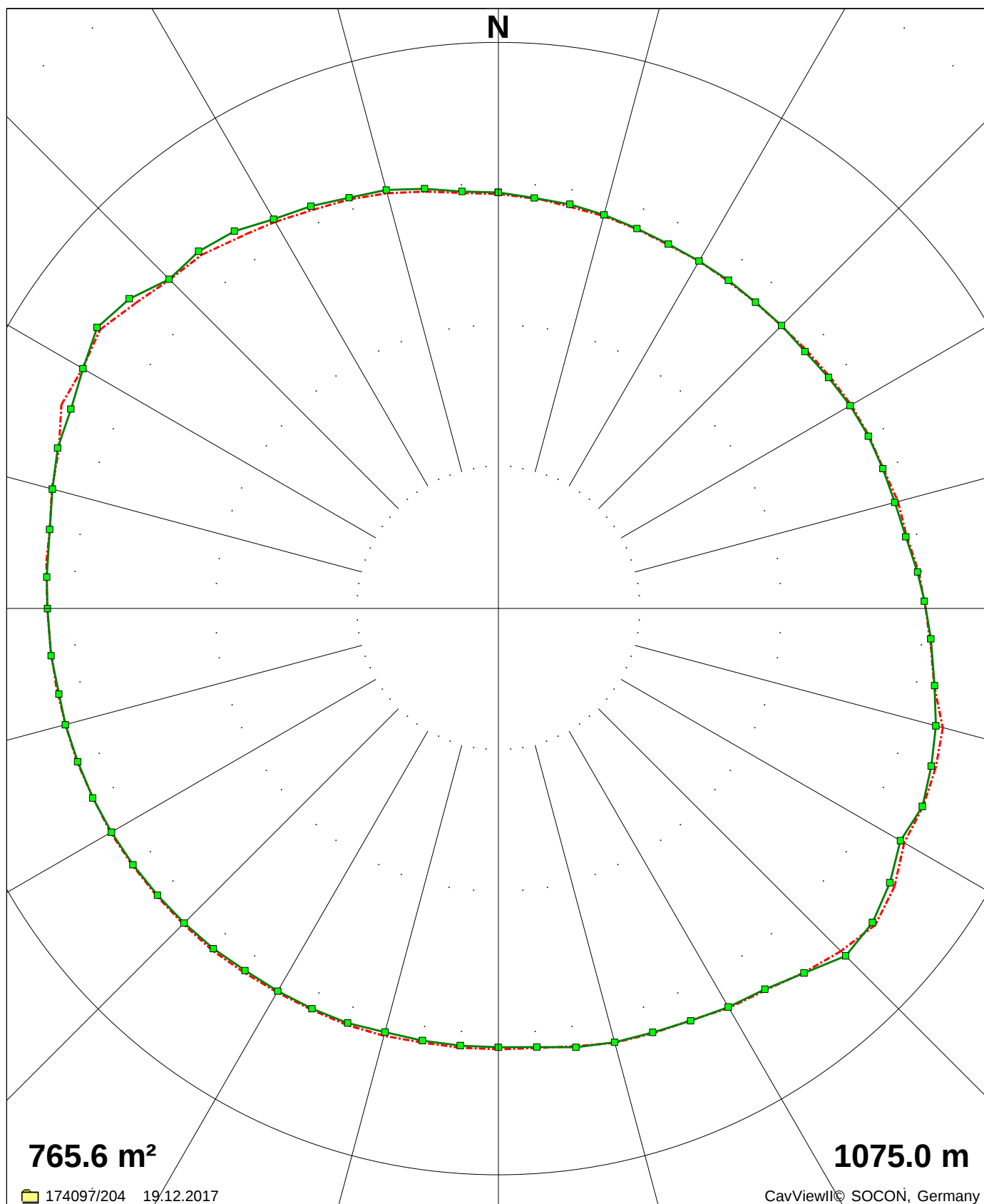
--- (19.05.2014) (759.0 m²)

—■— (19.12.2017) (757.2 m²)

$d_{\max}$: 34.2 m 130° <--> 310° $r_{\min}$: 14.1 m -> 32° $r_{\sim}$: 15.5 m $r_{\max}$: 17.3 m -> 130°

Heiligerlee K

19.12.2017



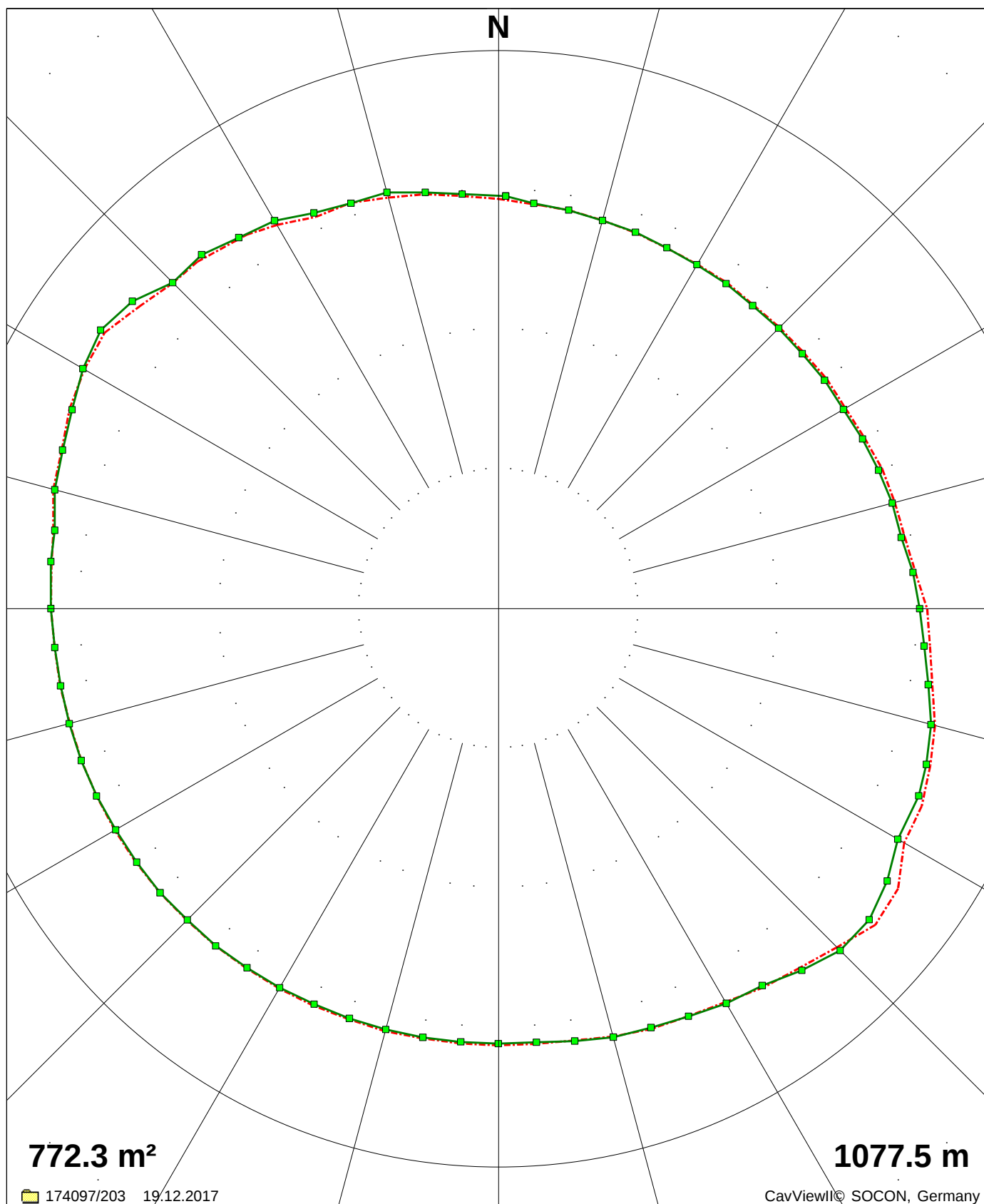
--- (19.05.2014) (766.5 m²)

—■— (19.12.2017) (765.6 m²)

$d_{\max}$: 34.3 m 130° <--> 310° $r_{\min}$: 14.1 m -> 41° $r_{\sim}$: 15.6 m $r_{\max}$: 17.3 m -> 135°

Heiligerlee K

19.12.2017



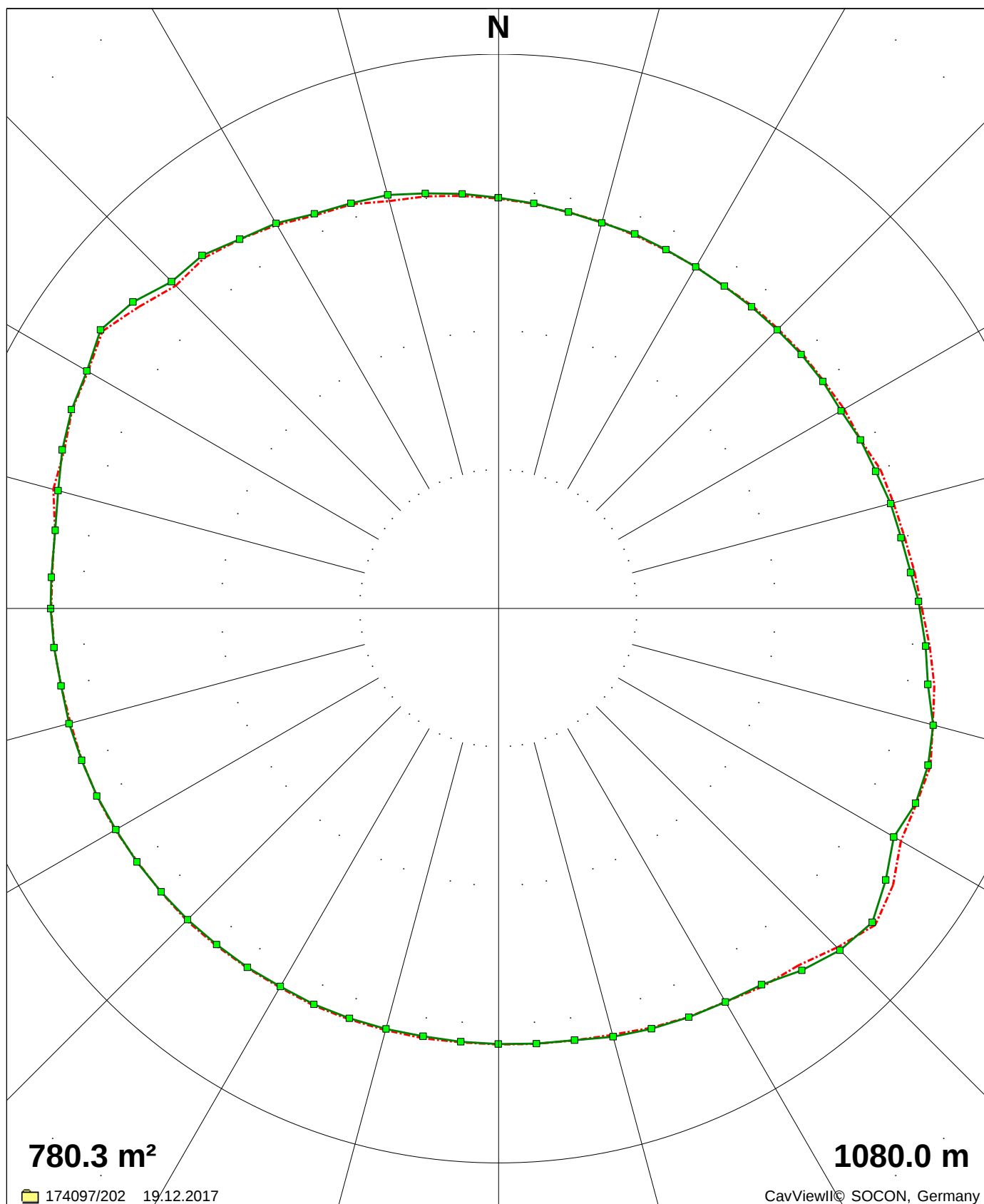
--- (19.05.2014) (775.1 m²)

—■ (19.12.2017) (772.3 m²)

d_{max}: 34.5 m 130° <--> 310° r_{min}: 14.2 m -> 41° r~: 15.7 m r_{max}: 17.4 m -> 305°

Heiligerlee K

19.12.2017



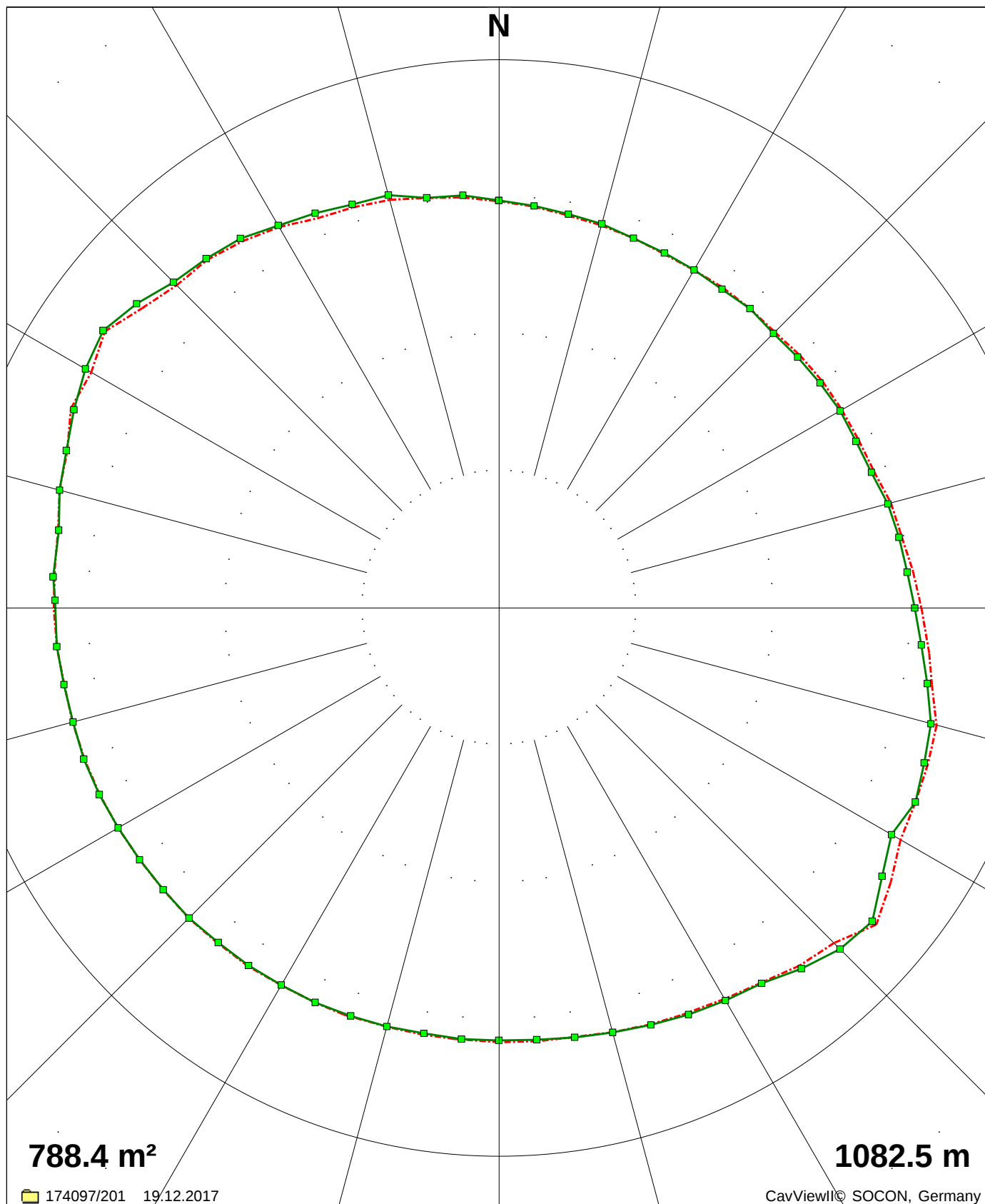
--- (19.05.2014) (781.4 m²)

—■— (19.12.2017) (780.3 m²)

$d_{\max}$: 34.8 m 130° <--> 310° $r_{\min}$: 14.2 m -> 36° $r_{\sim}$: 15.8 m $r_{\max}$: 17.6 m -> 130°

Heiligerlee K

19.12.2017



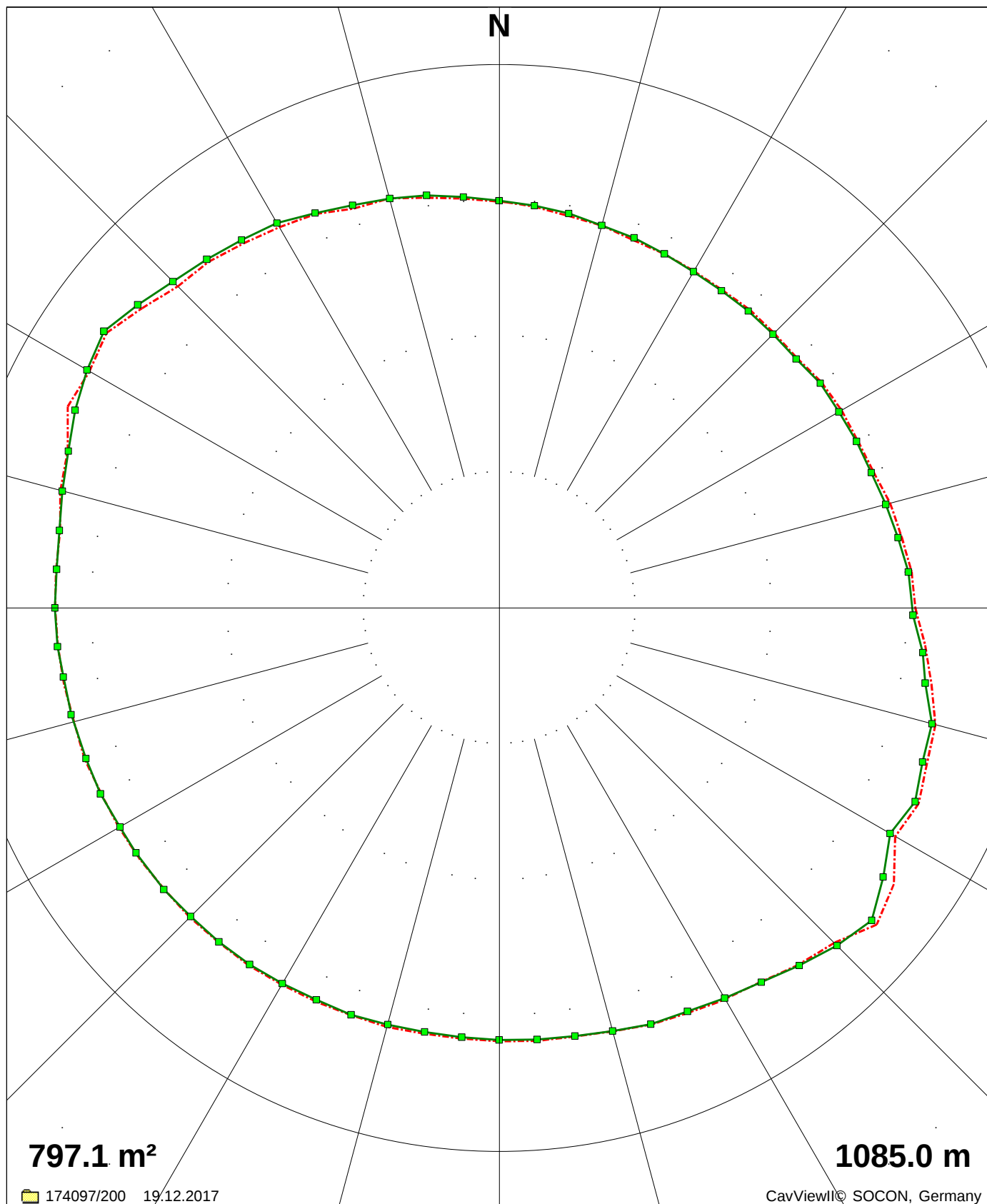
--- (19.05.2014) (789.7 m²)

—■— (19.12.2017) (788.4 m²)

$d_{\max}$: 35.1 m 130° <--> 310° $r_{\min}$: 14.2 m -> 44° $r_{\sim}$: 15.8 m $r_{\max}$: 17.8 m -> 130°

Heiligerlee K

19.12.2017



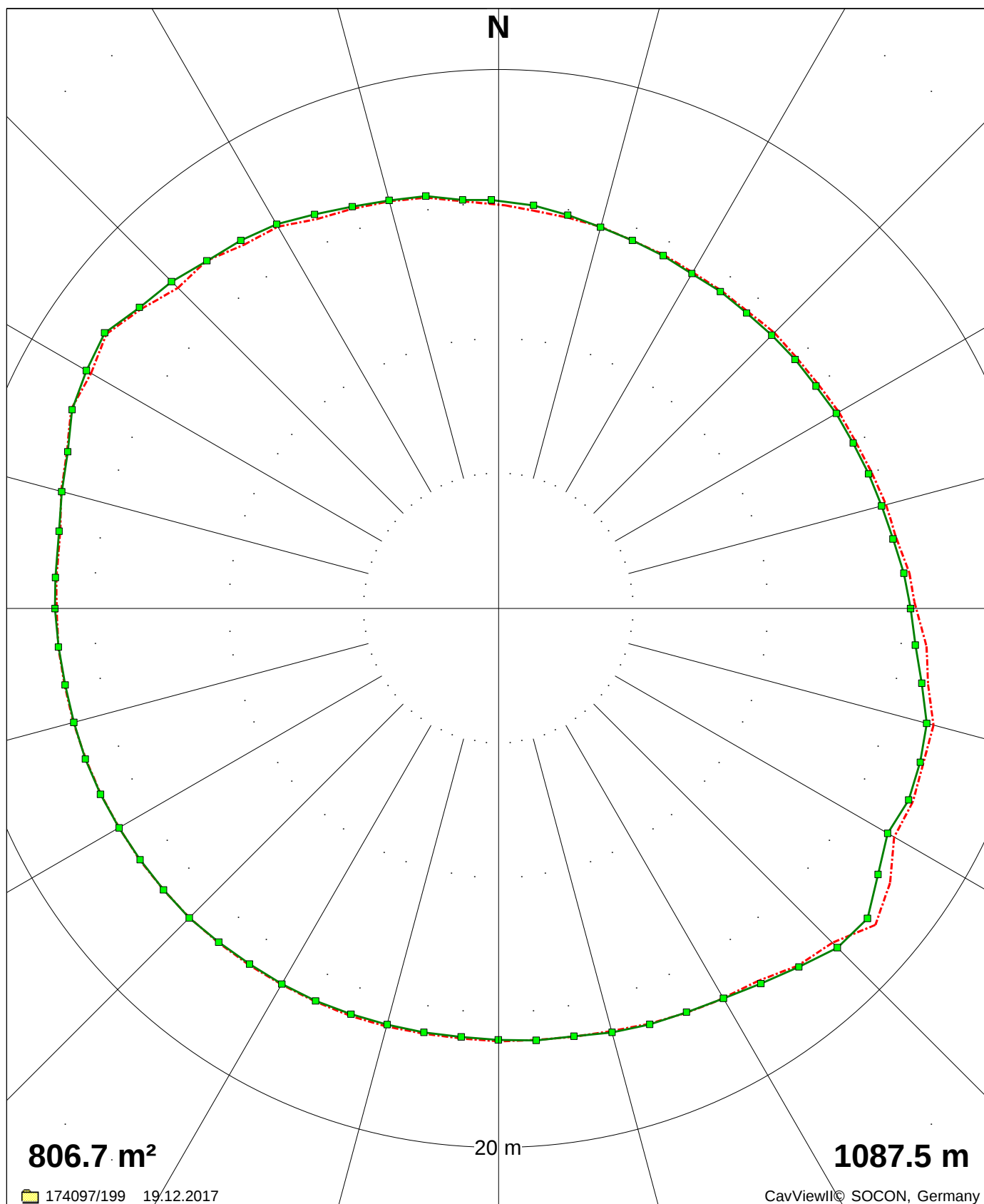
--- (19.05.2014) (800.1 m²)

—■— (19.12.2017) (797.1 m²)

$d_{\max}$: 35.2 m 130° <--> 310° $r_{\min}$: 14.2 m -> 42° $r_{\sim}$: 15.9 m $r_{\max}$: 17.9 m -> 130°

Heiligerlee K

19.12.2017



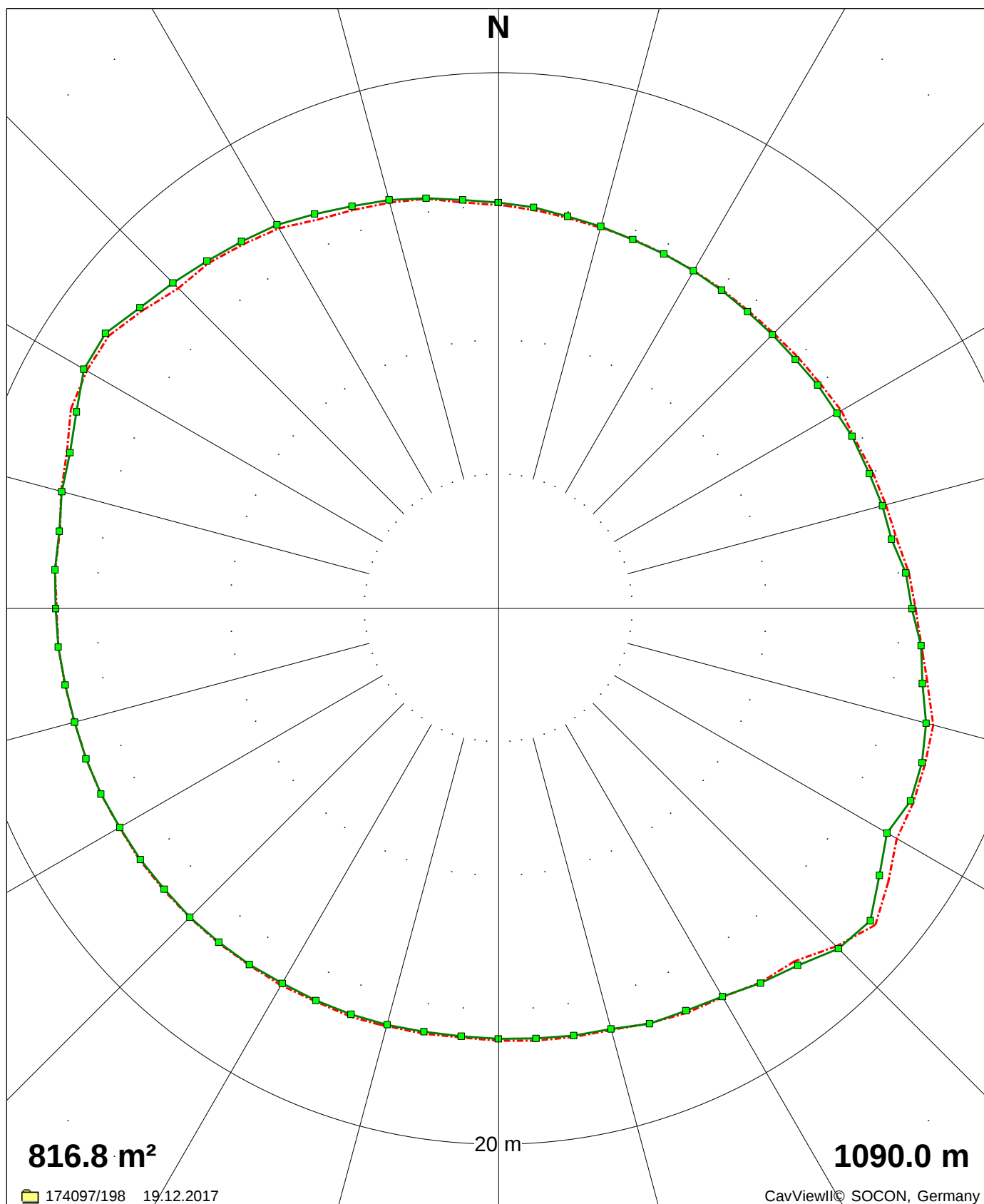
--- (19.05.2014) (809.5 m²)

—■— (19.12.2017) (806.7 m²)

$d_{\max}$: 35.3 m 130° <--> 310° $r_{\min}$: 14.3 m -> 41° $r_{\sim}$: 16.0 m $r_{\max}$: 17.9 m -> 130°

Heiligerlee K

19.12.2017



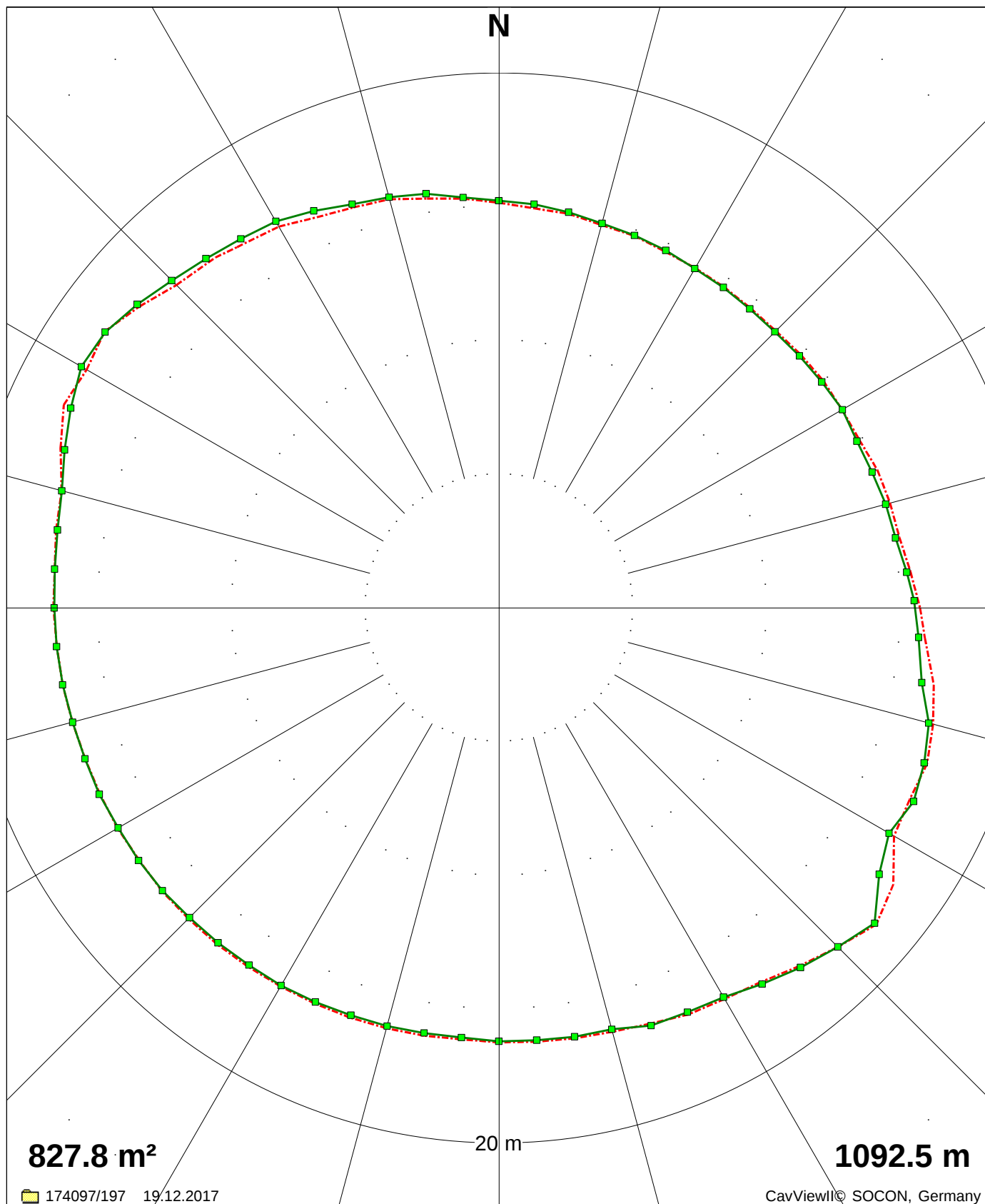
--- (19.05.2014) (819.7 m²)

—■ (19.12.2017) (816.8 m²)

$d_{\max}$: 35.6 m 130° <--> 310° $r_{\min}$: 14.4 m -> 42° $r_{\sim}$: 16.1 m $r_{\max}$: 18.1 m -> 130°

Heiligerlee K

19.12.2017



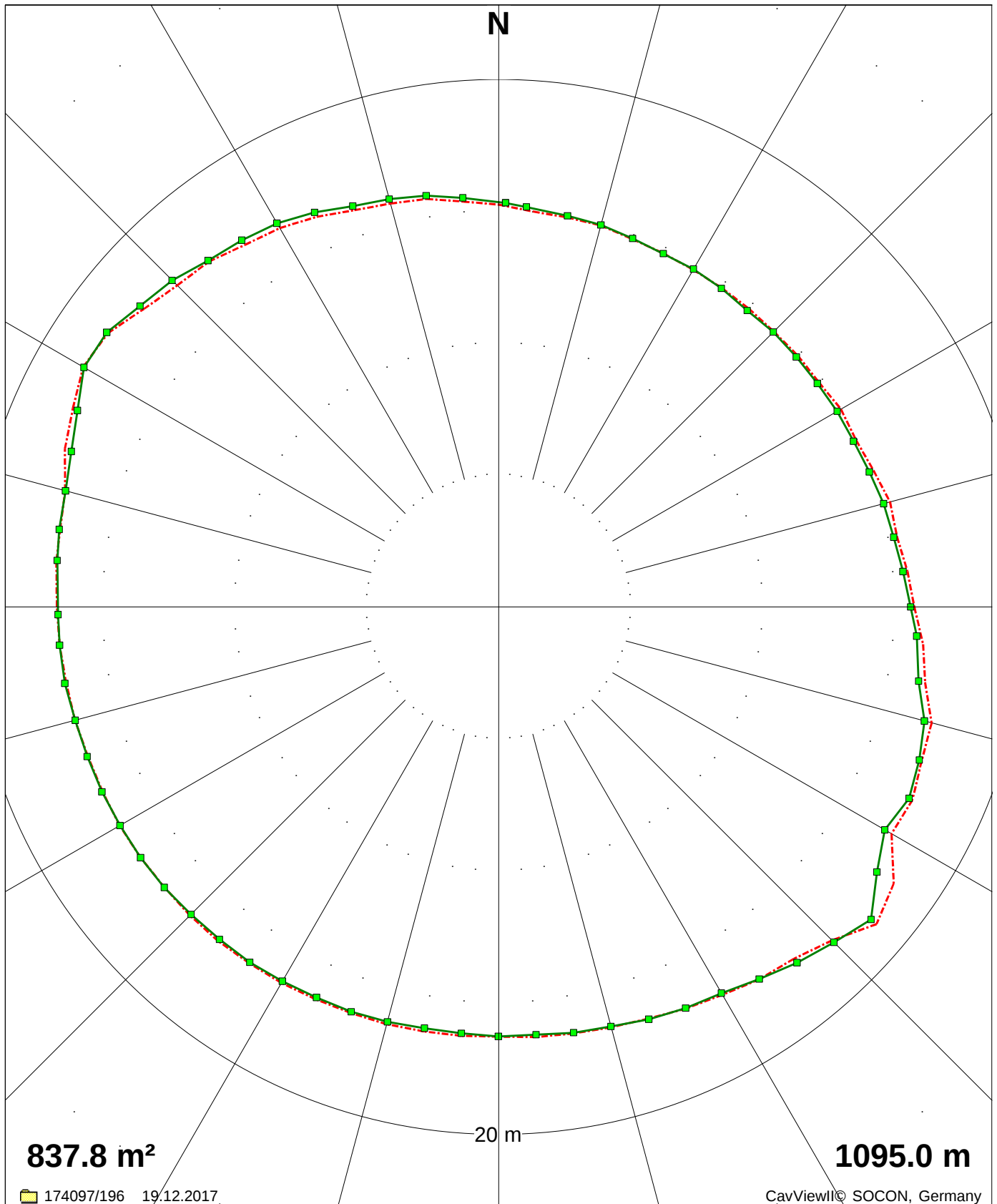
--- (19.05.2014) (830.8 m²)

—■— (19.12.2017) (827.8 m²)

$d_{\max}$: 36.0 m 130° <--> 310° $r_{\min}$: 14.6 m -> 41° $r_{\sim}$: 16.2 m $r_{\max}$: 18.3 m -> 130°

Heiligerlee K

19.12.2017



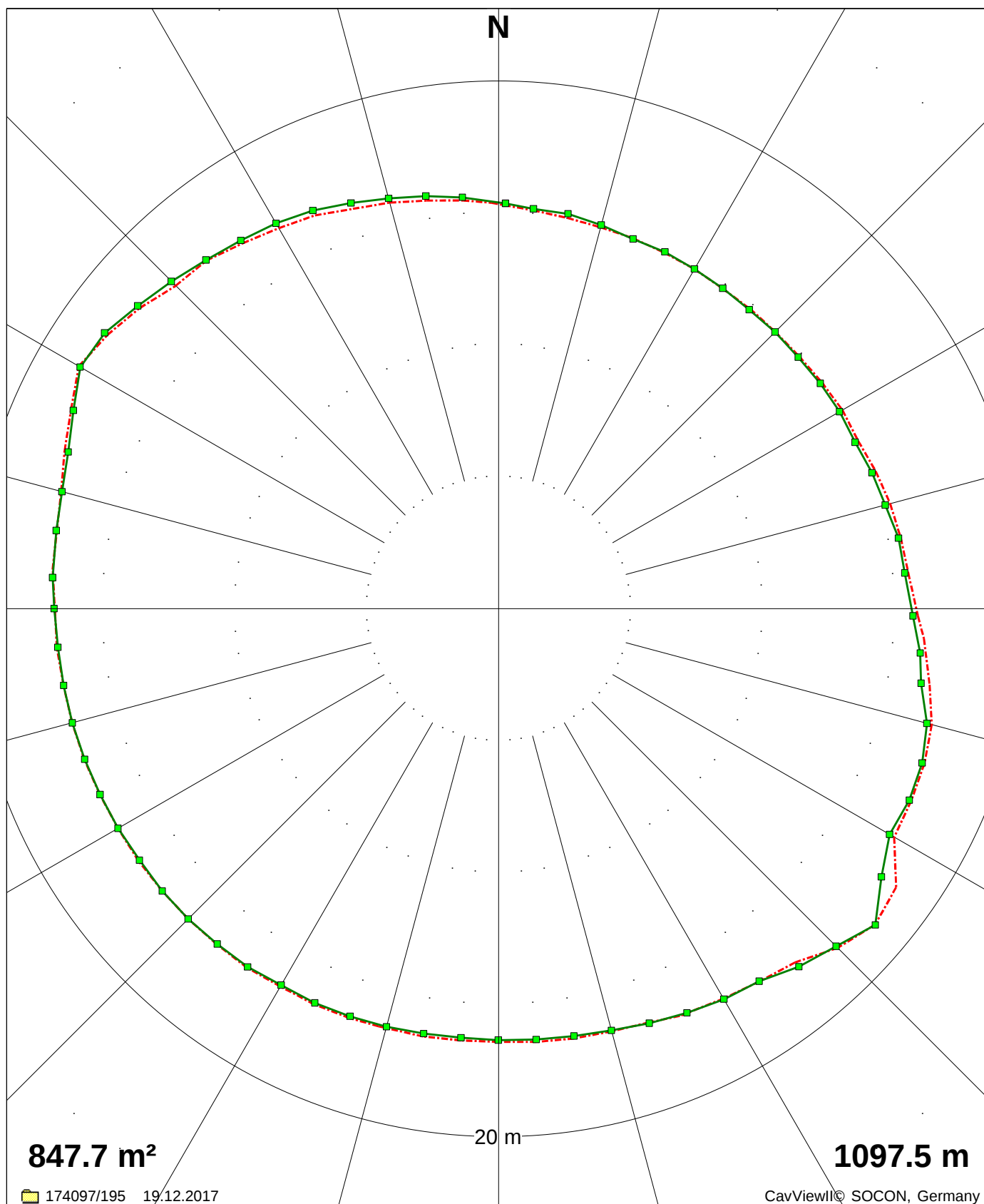
--- (19.05.2014) (841.7 m²)

—■— (19.12.2017) (837.8 m²)

$d_{\max}$: 36.2 m 130° <--> 310° $r_{\min}$: 14.7 m -> 38° $r_{\sim}$: 16.3 m $r_{\max}$: 18.4 m -> 130°

Heiligerlee K

19.12.2017



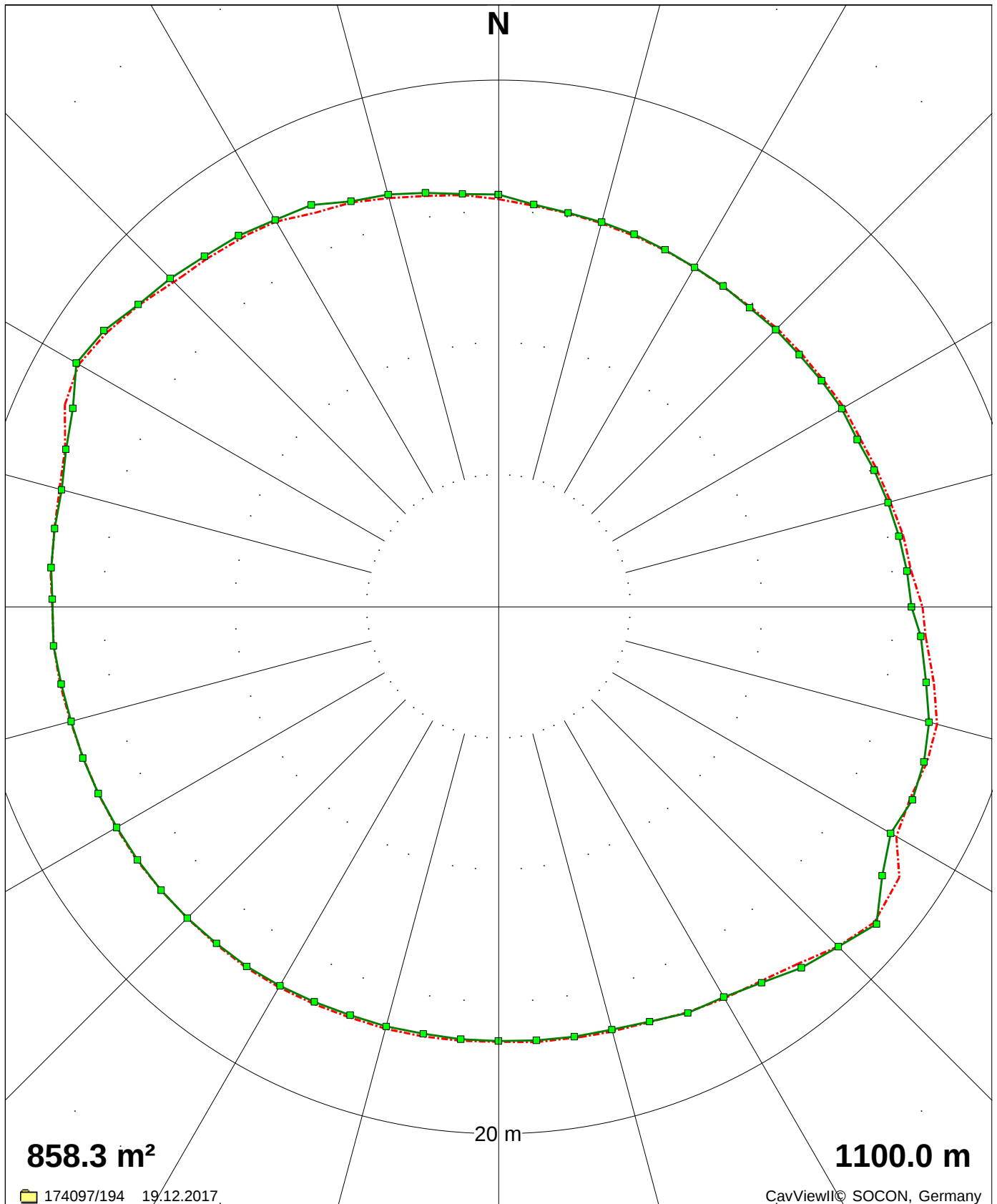
--- (19.05.2014) (850.5 m²)

—■— (19.12.2017) (847.7 m²)

$d_{\max}$: 36.5 m 130° <--> 310° $r_{\min}$: 14.8 m -> 38° $r_{\sim}$: 16.4 m $r_{\max}$: 18.6 m -> 130°

Heiligerlee K

19.12.2017



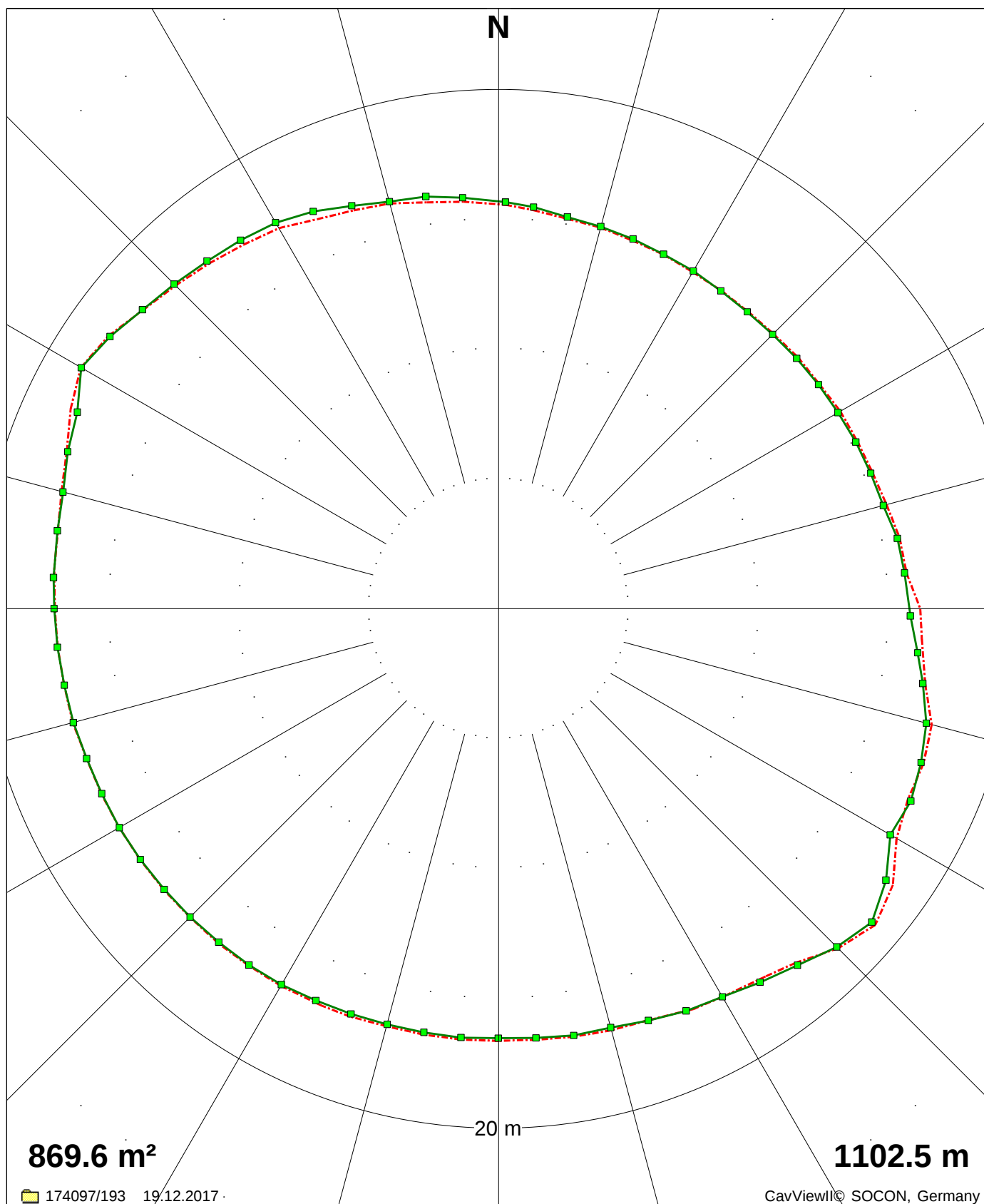
--- (19.05.2014) (861.7 m²)

—■— (19.12.2017) (858.3 m²)

d_{max}: 36.6 m 130° <--> 310° r_{min}: 14.8 m -> 38° r~: 16.5 m r_{max}: 18.7 m -> 130°

Heiligerlee K

19.12.2017



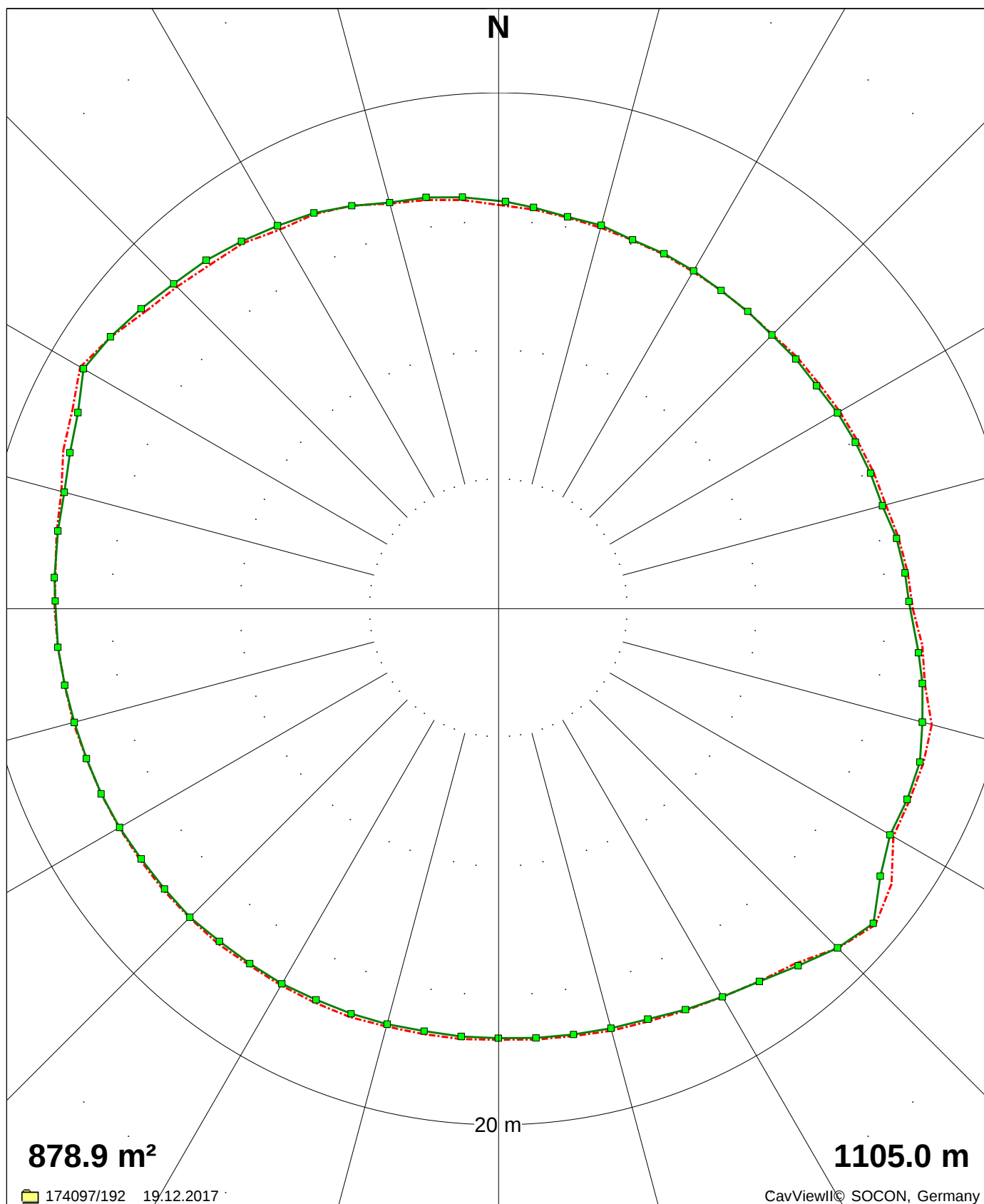
--- (19.05.2014) (872.1 m²)

—■— (19.12.2017) (869.6 m²)

$d_{\max}$: 36.7 m 130° <--> 310° $r_{\min}$: 14.9 m -> 37° $r_{\sim}$: 16.6 m $r_{\max}$: 18.8 m -> 130°

Heiligerlee K

19.12.2017



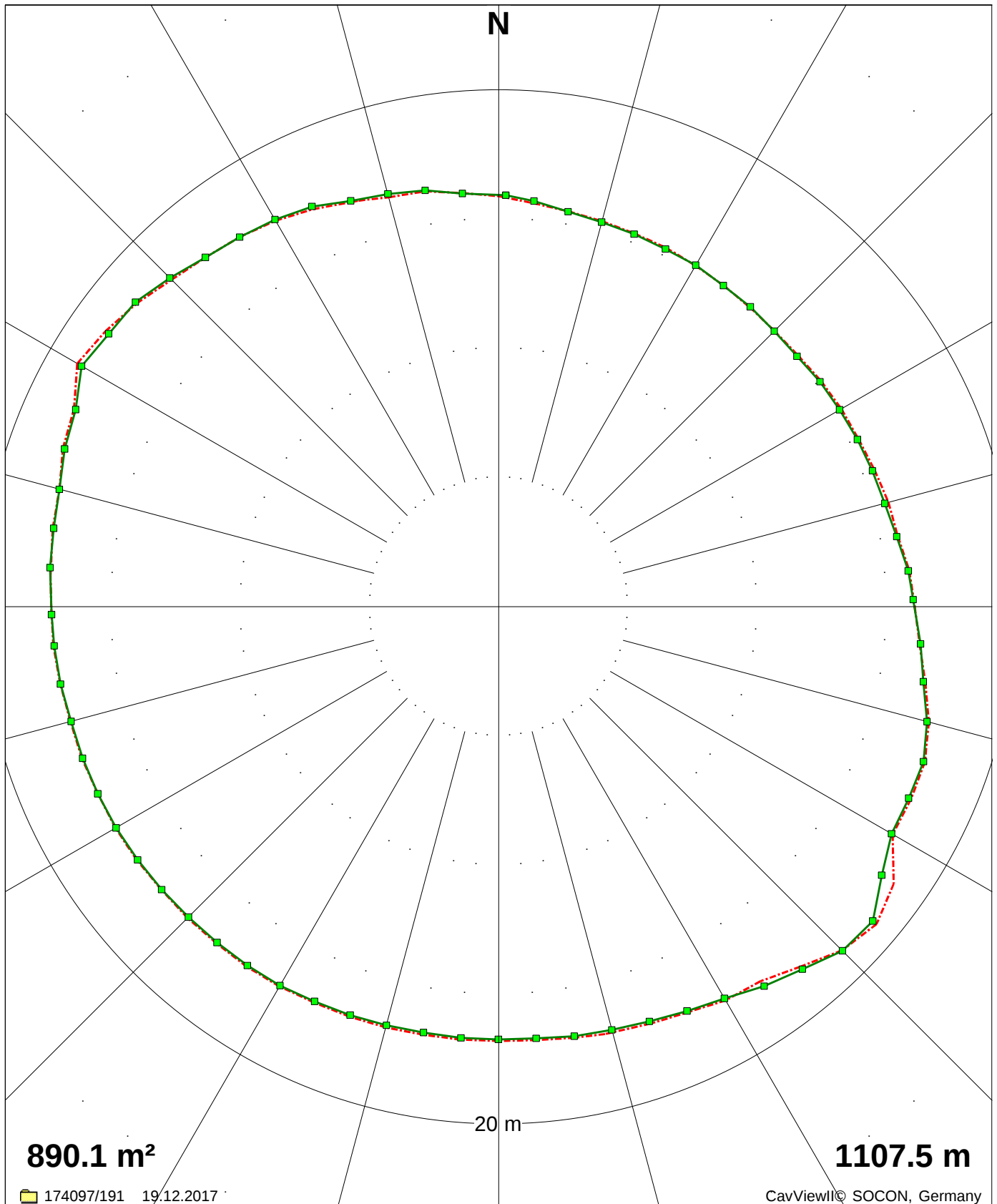
--- (19.05.2014) (883.7 m²)

—■— (19.12.2017) (878.9 m²)

$d_{\max}$: 37.1 m 130° <--> 310° $r_{\min}$: 15.0 m -> 43° $r_{\sim}$: 16.7 m $r_{\max}$: 19.0 m -> 130°

Heiligerlee K

19.12.2017



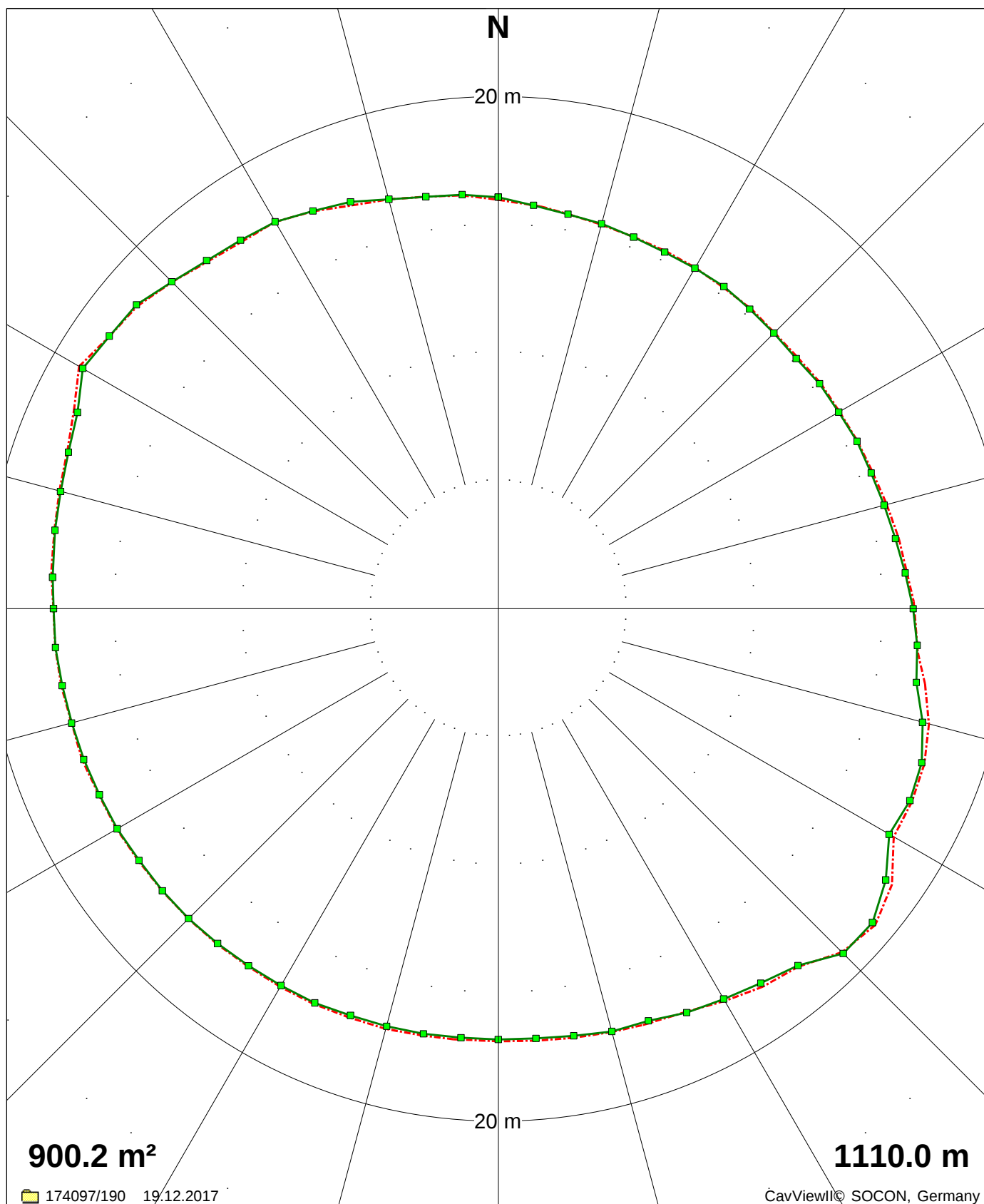
--- (19.05.2014) (893.7 m²)

—■— (19.12.2017) (890.1 m²)

$d_{\max}$: 37.2 m 130° <--> 310° $r_{\min}$: 15.1 m -> 47° $r_{\sim}$: 16.8 m $r_{\max}$: 18.9 m -> 130°

Heiligerlee K

19.12.2017



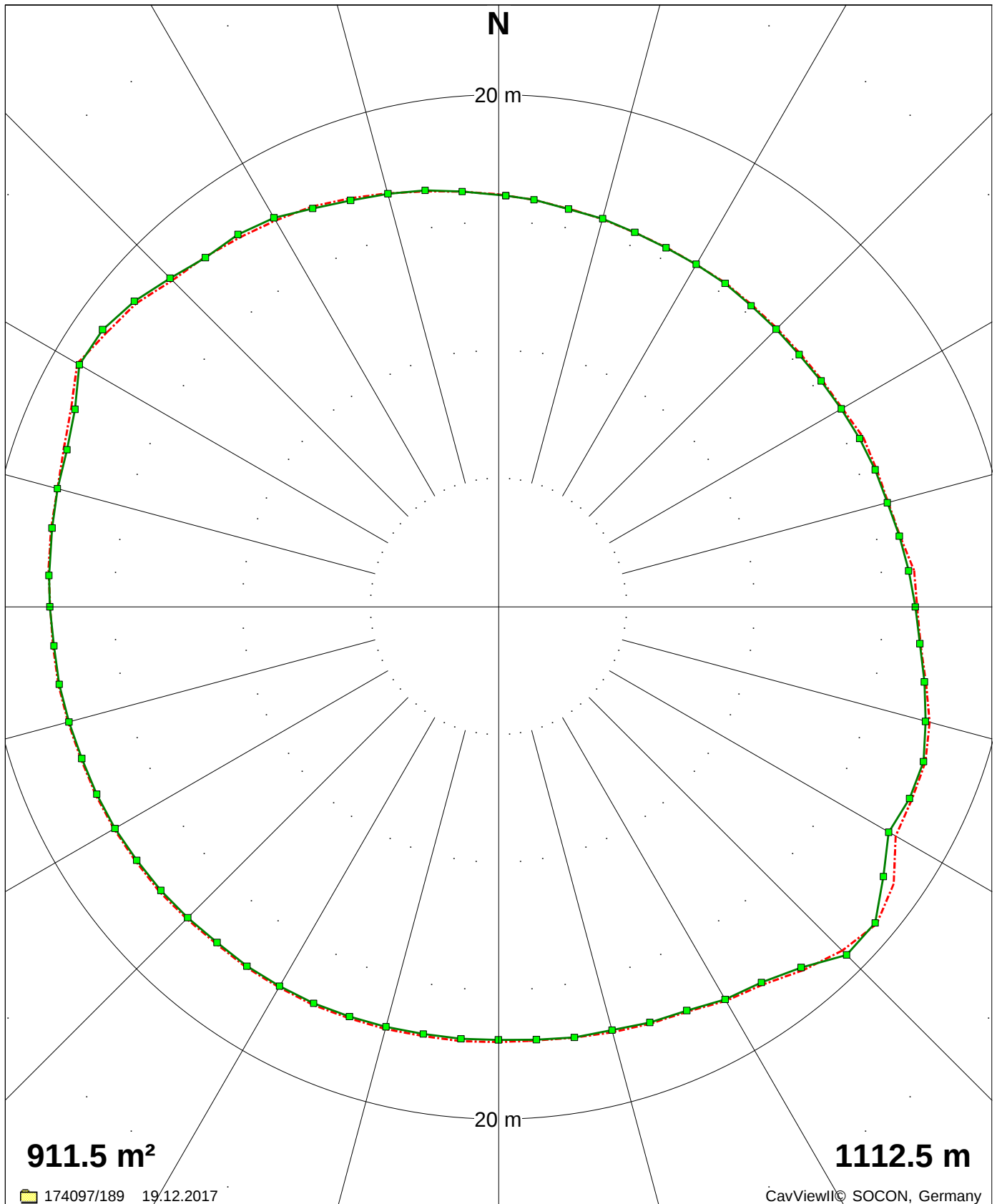
--- (19.05.2014) (905.4 m²)

—■— (19.12.2017) (900.2 m²)

$d_{\max}$: 37.5 m 130° <--> 310° $r_{\min}$: 15.2 m -> 47° $r_{\sim}$: 16.9 m $r_{\max}$: 19.1 m -> 130°

Heiligerlee K

19.12.2017



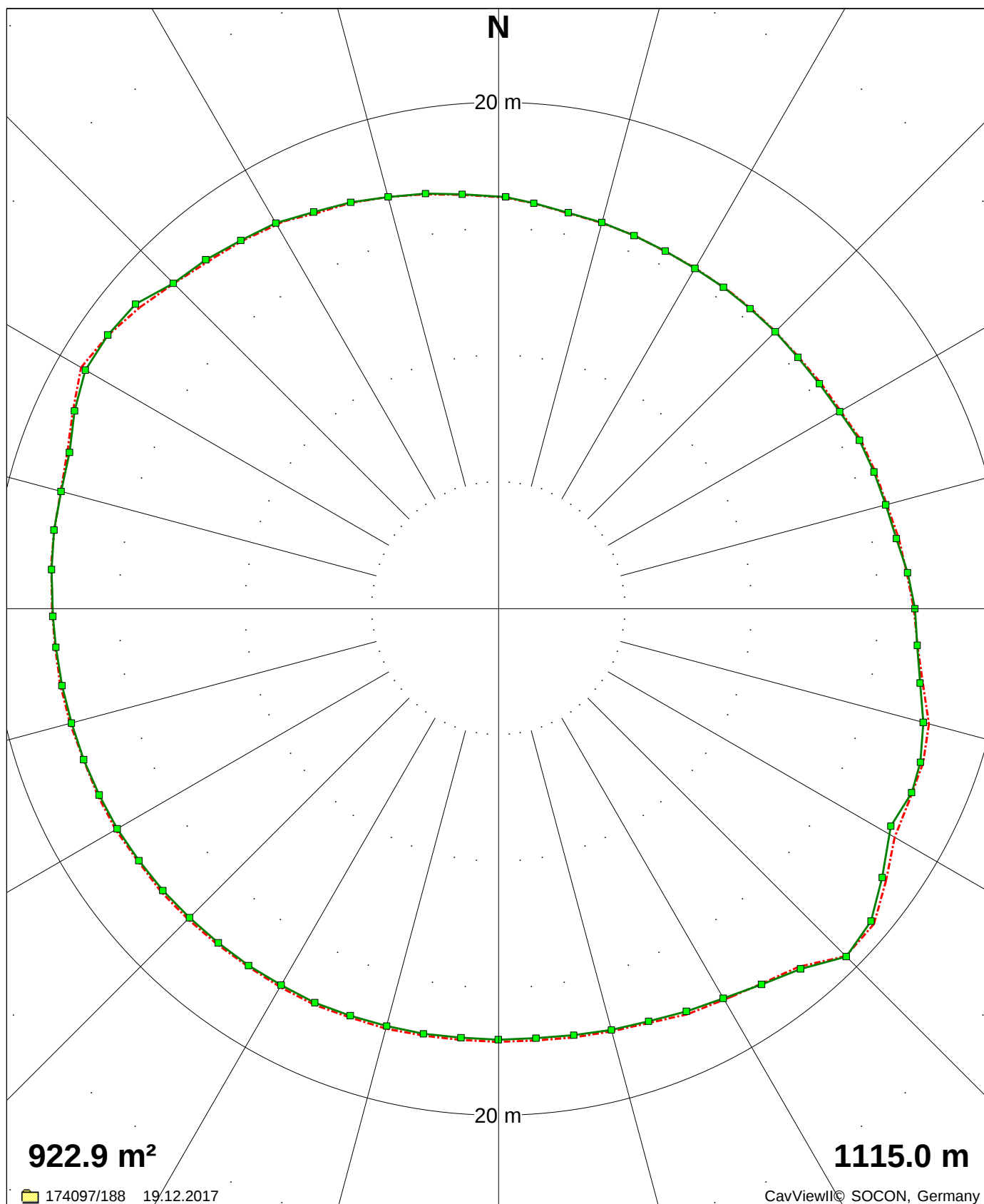
--- (19.05.2014) (916.6 m²)

—■— (19.12.2017) (911.5 m²)

$d_{\max}$: 37.8 m 130° <--> 310° $r_{\min}$: 15.3 m -> 47° $r_{\sim}$: 17.0 m $r_{\max}$: 19.2 m -> 135°

Heiligerlee K

19.12.2017



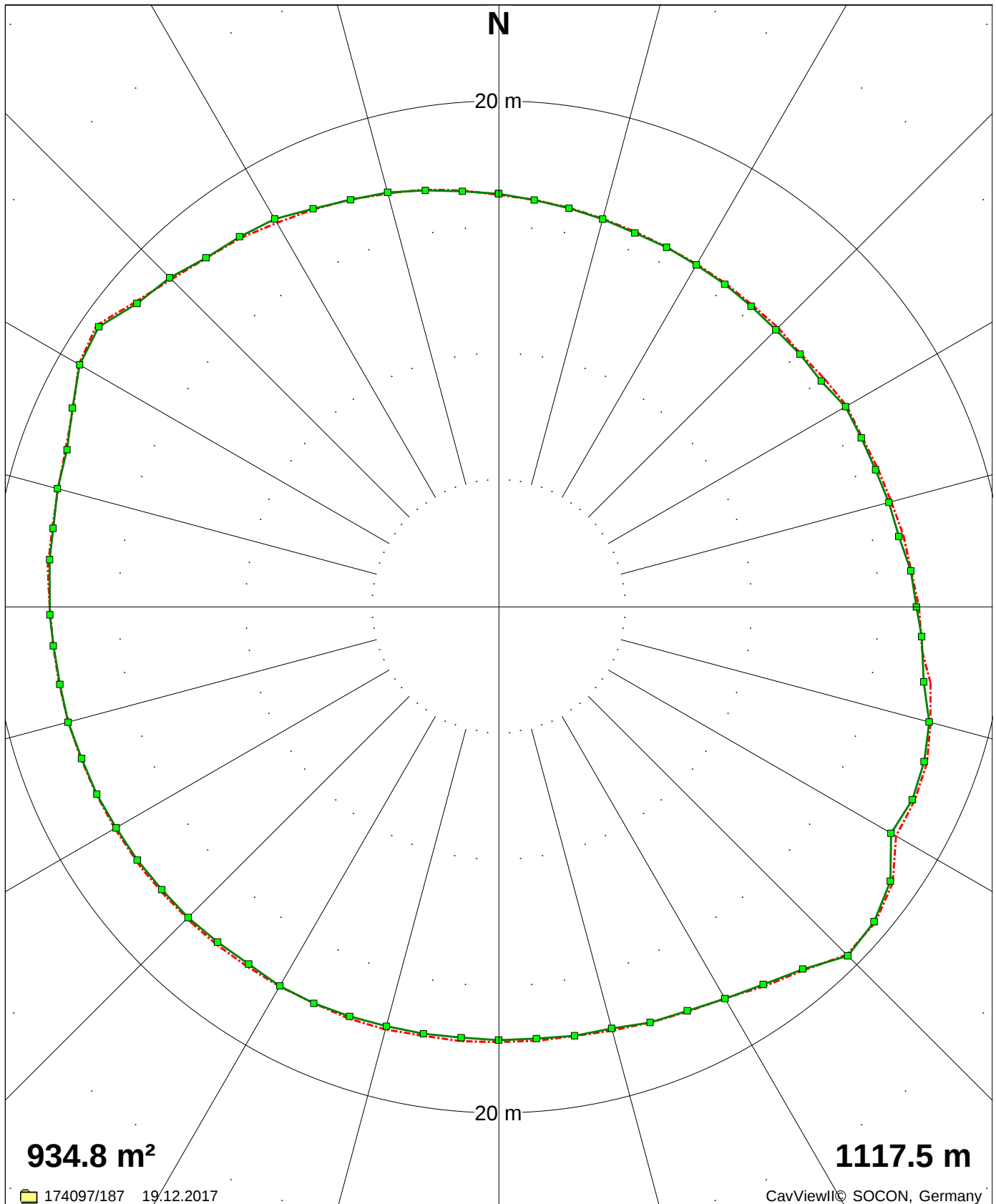
--- (19.05.2014) (927.1 m²)

—■— (19.12.2017) (922.9 m²)

$d_{\max}$: 37.9 m 130° <--> 310° $r_{\min}$: 15.4 m -> 47° $r_{\sim}$: 17.1 m $r_{\max}$: 19.4 m -> 135°

Heiligerlee K

19.12.2017



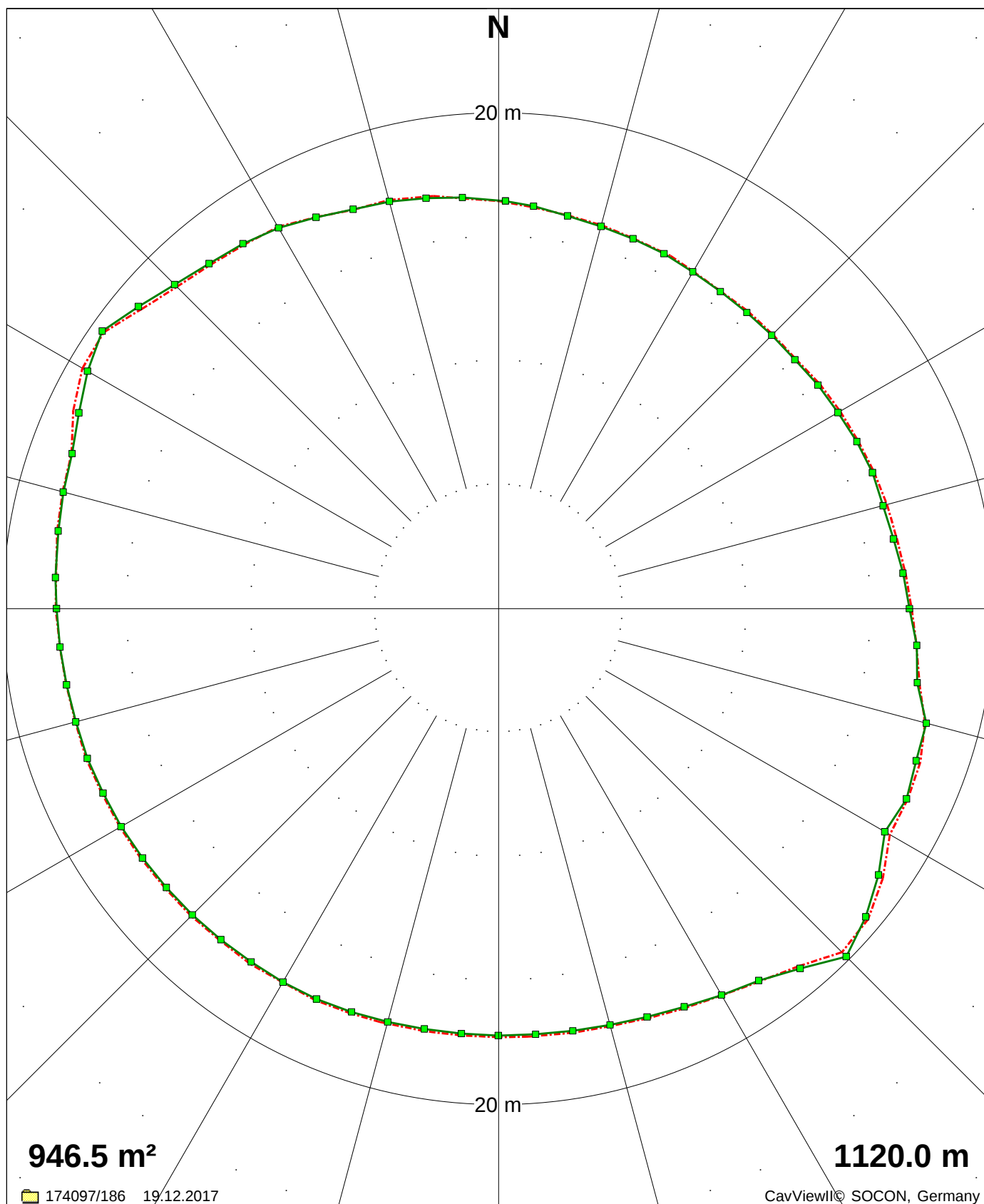
--- (19.05.2014) (939.7 m²)

—■— (19.12.2017) (934.8 m²)

$d_{\max}$: 38.2 m 125° <--> 305° $r_{\min}$: 15.5 m -> 42° $r_{\sim}$: 17.2 m $r_{\max}$: 19.5 m -> 135°

Heiligerlee K

19.12.2017



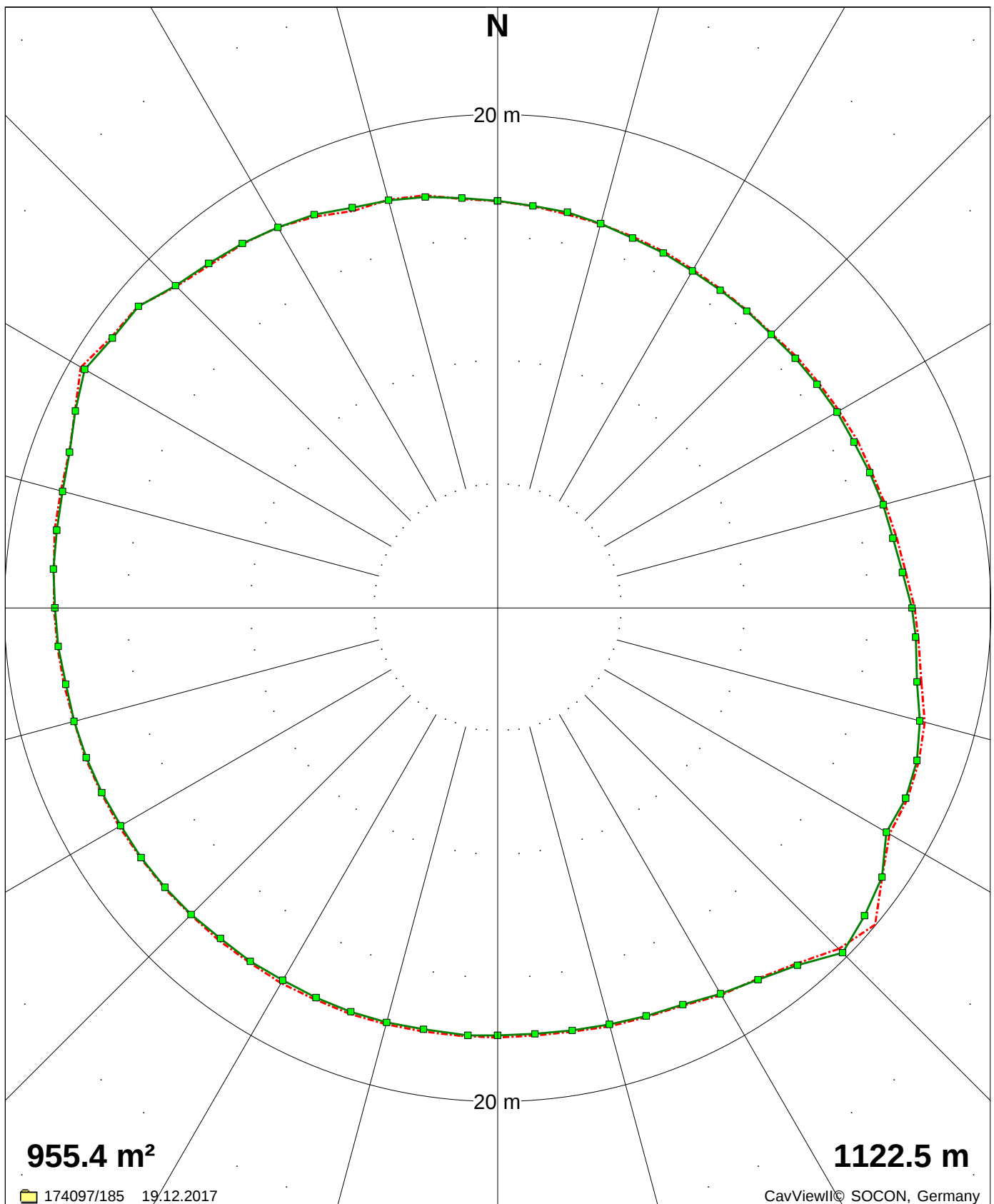
--- (19.05.2014) (951.1 m²)

—■— (19.12.2017) (946.5 m²)

$d_{\max}$: 38.3 m 135° <--> 315° $r_{\min}$: 15.6 m -> 41° $r_{\sim}$: 17.4 m $r_{\max}$: 19.8 m -> 135°

Heiligerlee K

19.12.2017



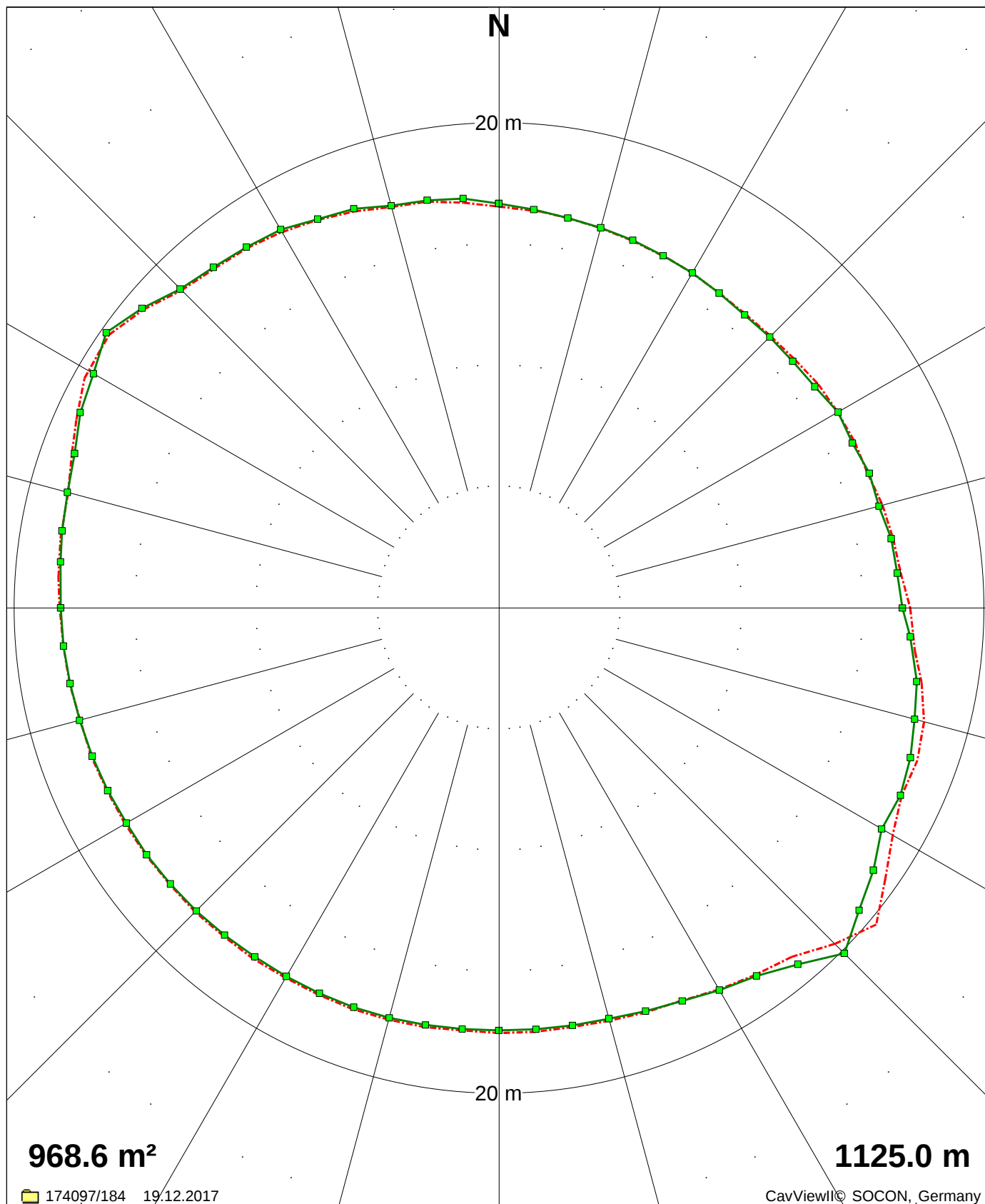
--- (19.05.2014) (961.2 m²)

—■ (19.12.2017) (955.4 m²)

$d_{\max}$: 38.4 m 130° <--> 310° $r_{\min}$: 15.7 m -> 43° $r_{\sim}$: 17.4 m $r_{\max}$: 19.8 m -> 135°

Heiligerlee K

19.12.2017



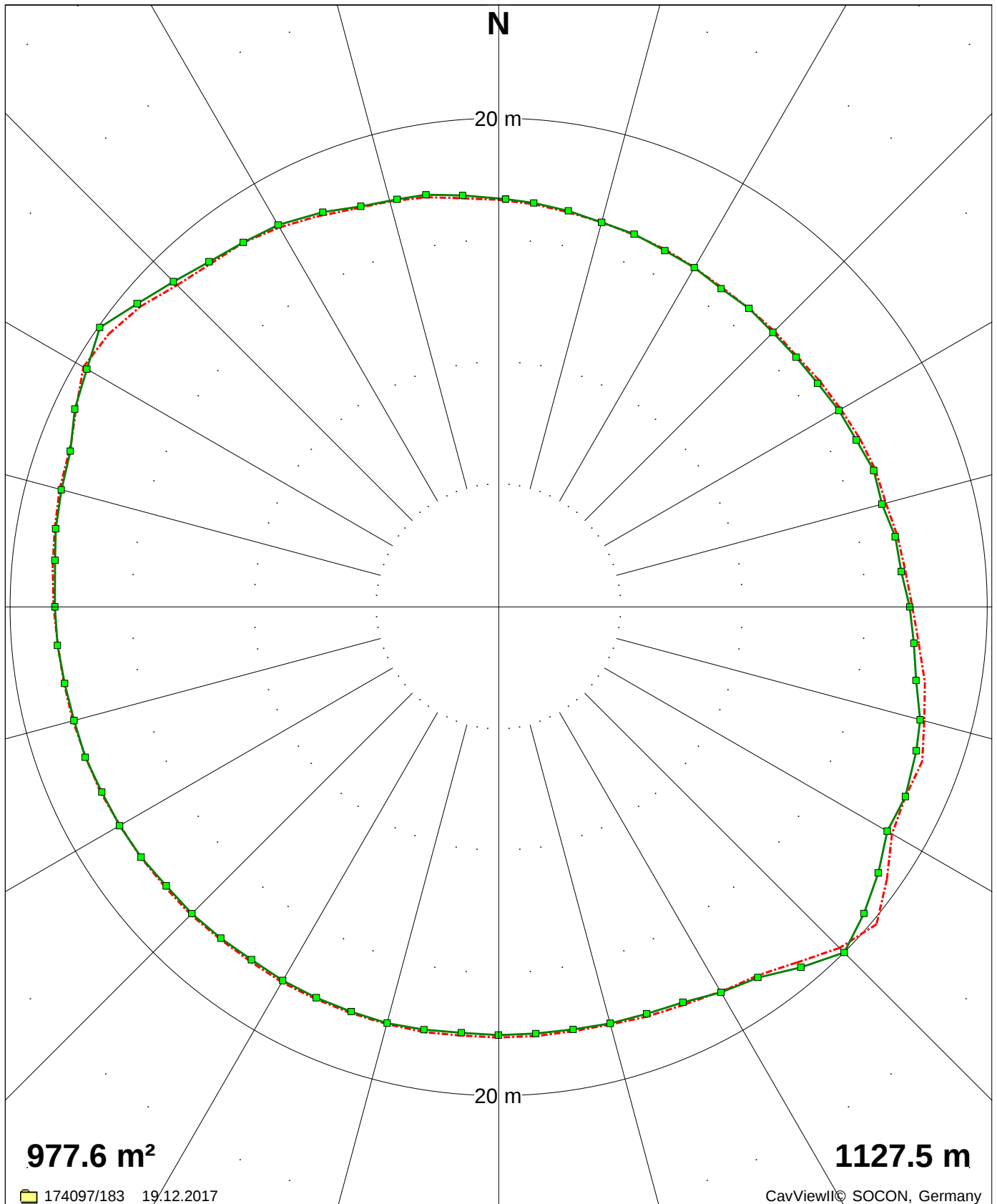
--- (19.05.2014) (974.6 m²)

—■— (19.12.2017) (968.6 m²)

$d_{\max}$: 38.7 m 135° <--> 315° $r_{\min}$: 15.7 m -> 41° $r_{\sim}$: 17.6 m $r_{\max}$: 20.1 m -> 135°

Heiligerlee K

19.12.2017



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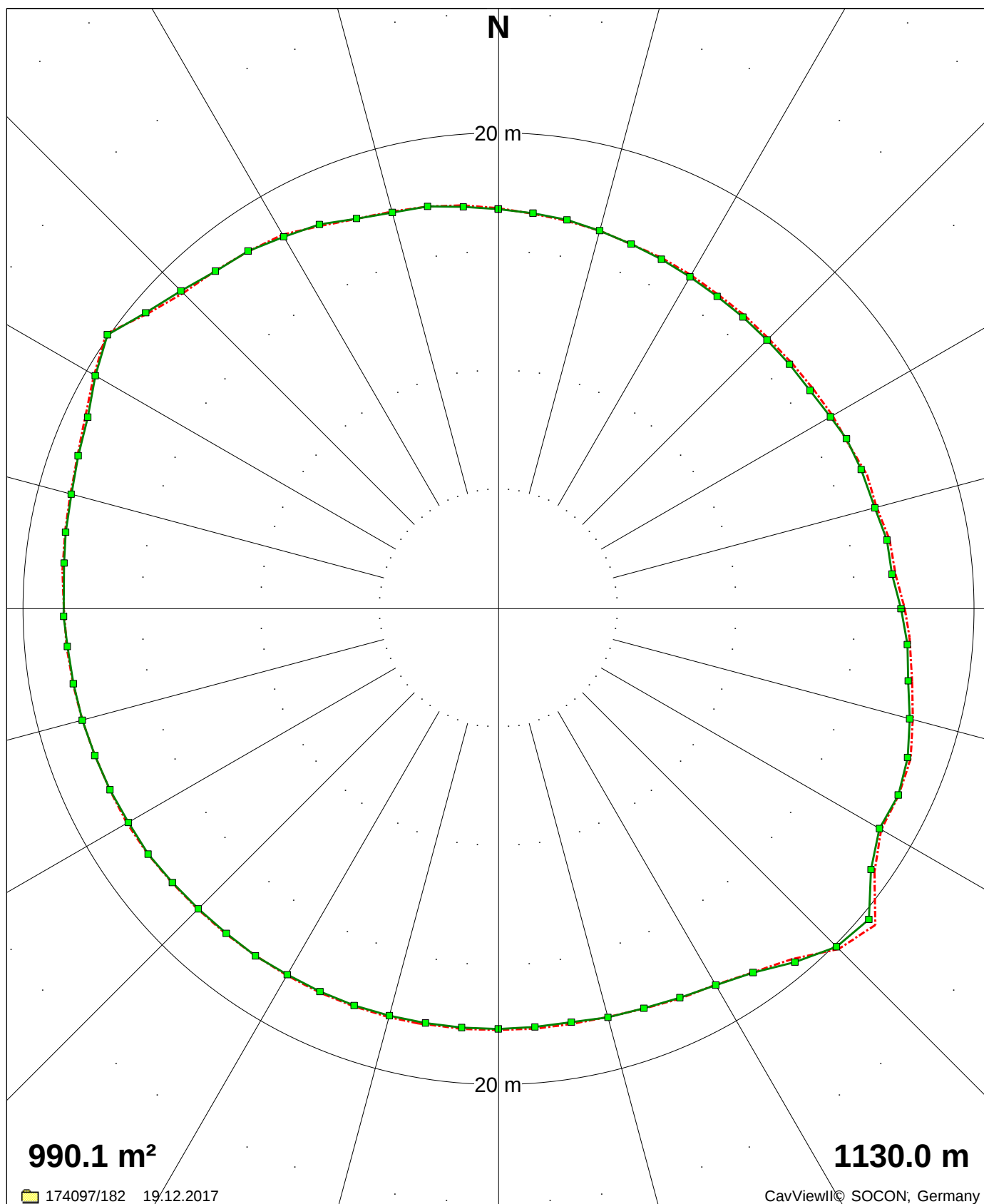
--- (19.05.2014) (982.4 m²)

—■— (19.12.2017) (977.6 m²)

$d_{\max}$: 38.9 m 125° <--> 305° $r_{\min}$: 15.9 m -> 46° $r_{\sim}$: 17.6 m $r_{\max}$: 20.0 m -> 135°

Heiligerlee K

19.12.2017



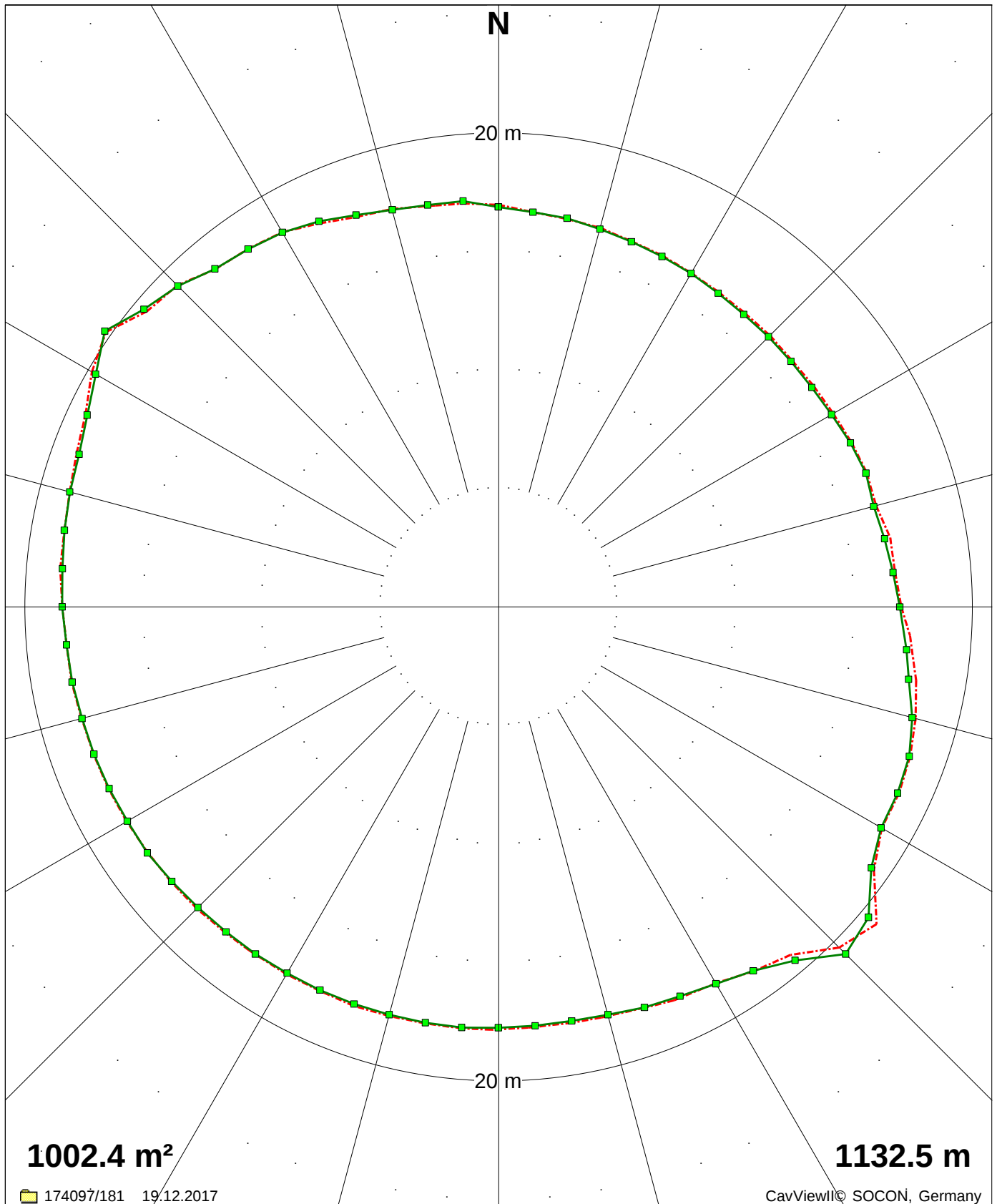
--- (19.05.2014) (995.5 m²)

—■— (19.12.2017) (990.1 m²)

$d_{\max}$: 39.7 m 130° <--> 310° $r_{\min}$: 15.9 m -> 46° $r_{\sim}$: 17.8 m $r_{\max}$: 20.3 m -> 130°

Heiligerlee K

19.12.2017



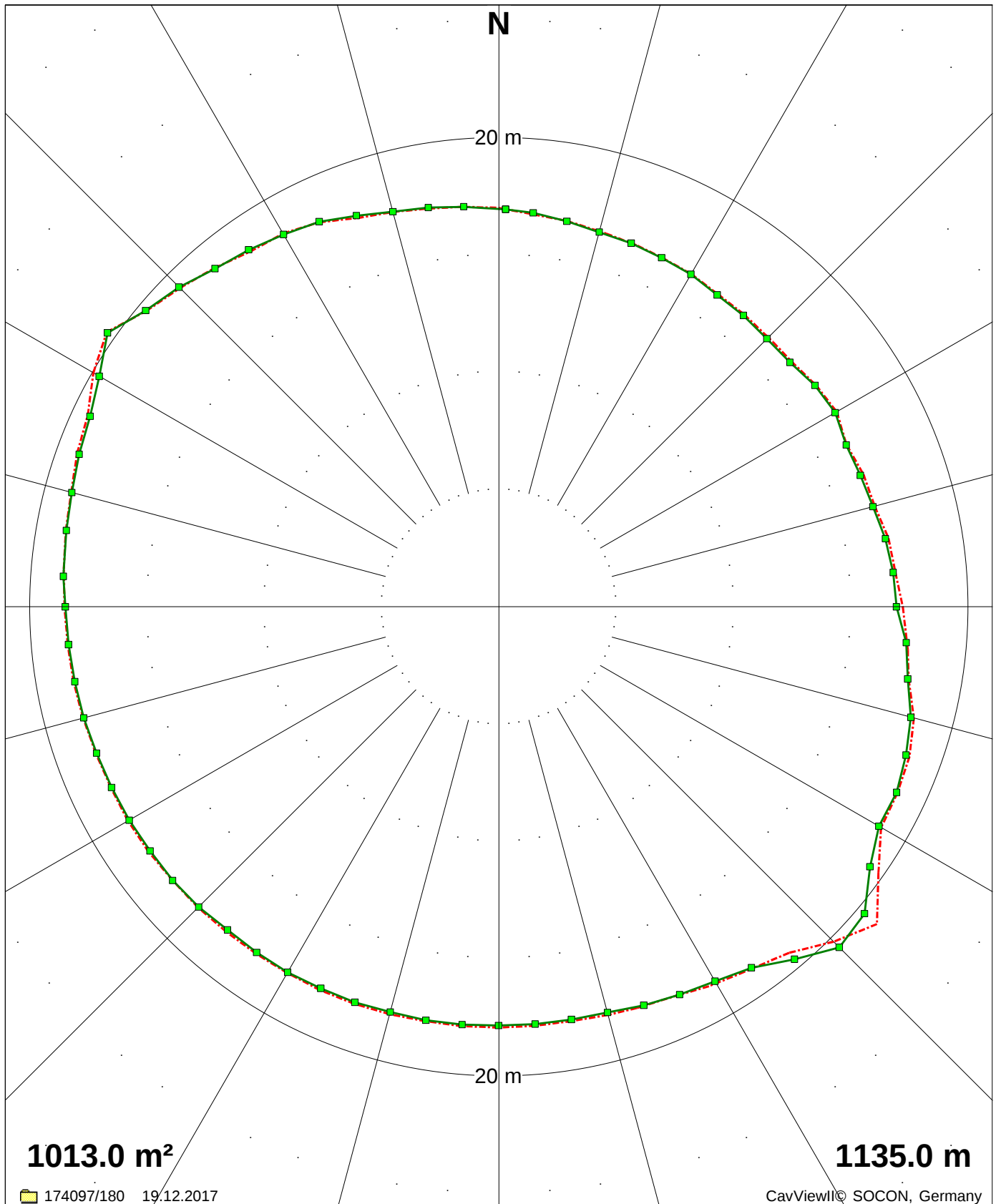
--- (19.05.2014) (1006.8 m²)

—■— (19.12.2017) (1002.4 m²)

$d_{\max}$: 39.9 m 130° <--> 310° $r_{\min}$: 16.1 m -> 41° $r_{\sim}$: 17.9 m $r_{\max}$: 20.7 m -> 135°

Heiligerlee K

19.12.2017



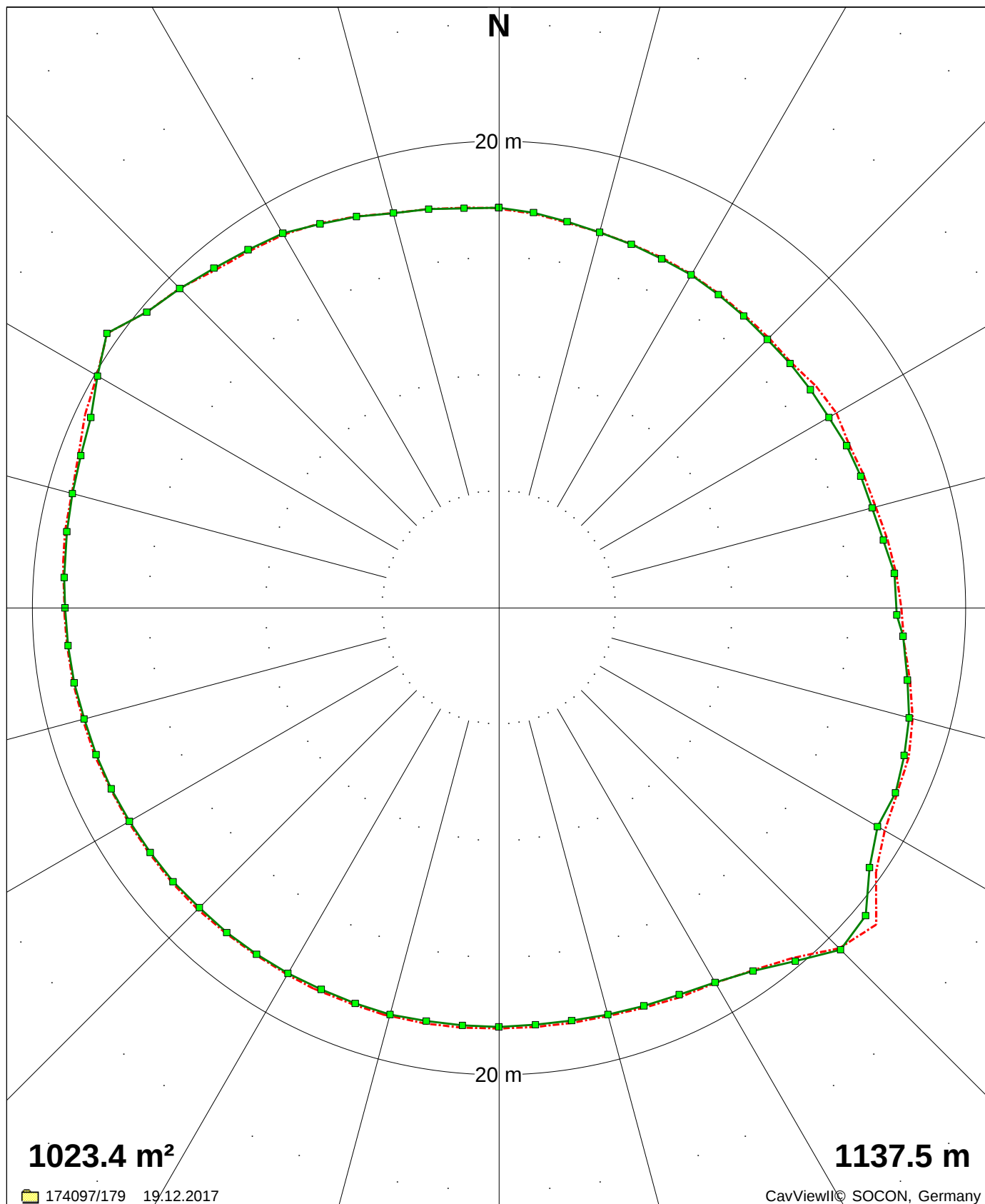
--- (19.05.2014) (1019.2 m²)

—■ (19.12.2017) (1013.0 m²)

$d_{\max}$: 40.0 m 130° <--> 310° $r_{\min}$: 16.2 m -> 45° $r_{\sim}$: 18.0 m $r_{\max}$: 20.5 m -> 135°

Heiligerlee K

19.12.2017



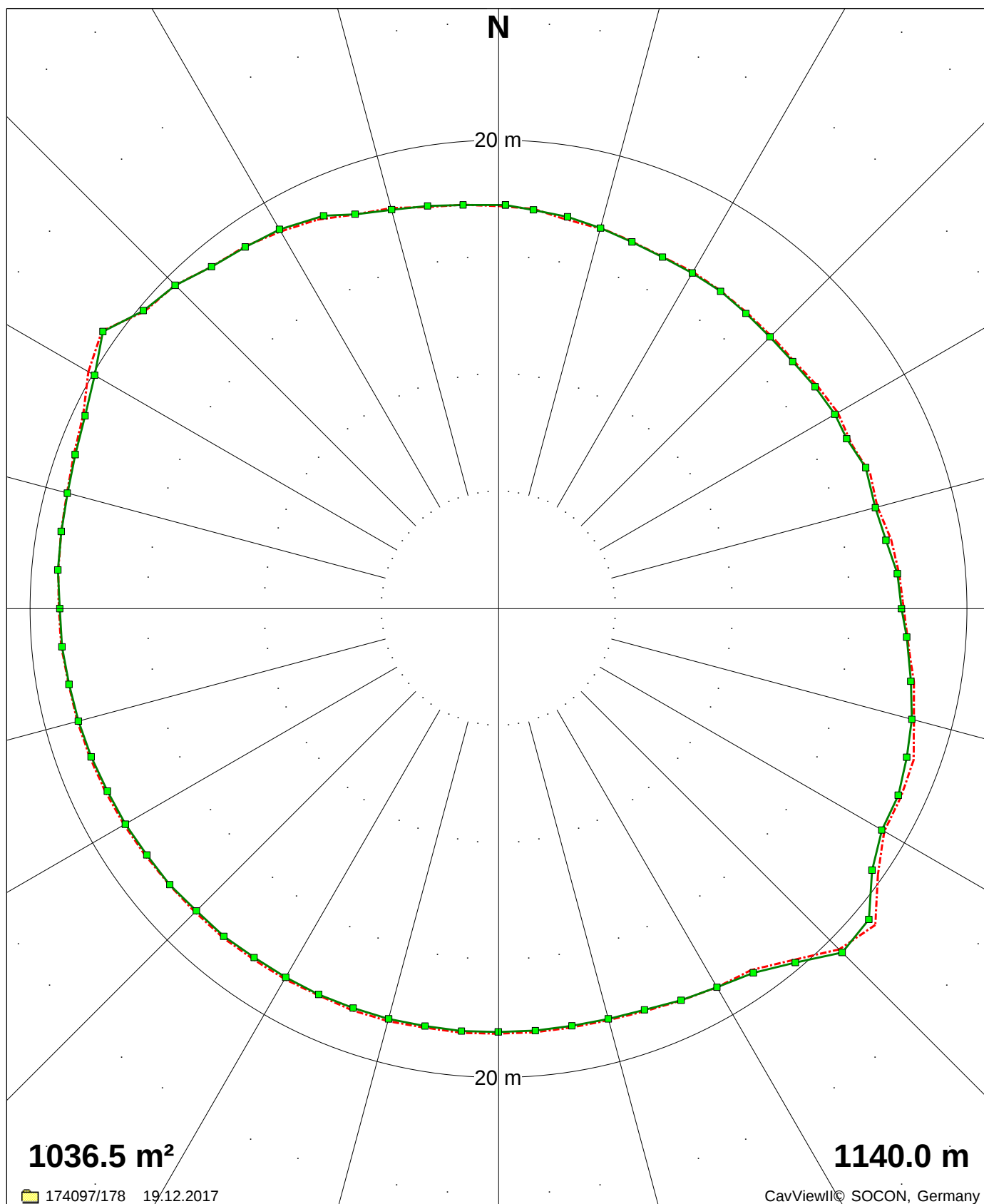
--- (19.05.2014) (1032.1 m²)

—■ (19.12.2017) (1023.4 m²)

$d_{\max}$: 40.2 m 130° <--> 310° $r_{\min}$: 16.3 m -> 46° $r_{\sim}$: 18.0 m $r_{\max}$: 20.7 m -> 135°

Heiligerlee K

19.12.2017



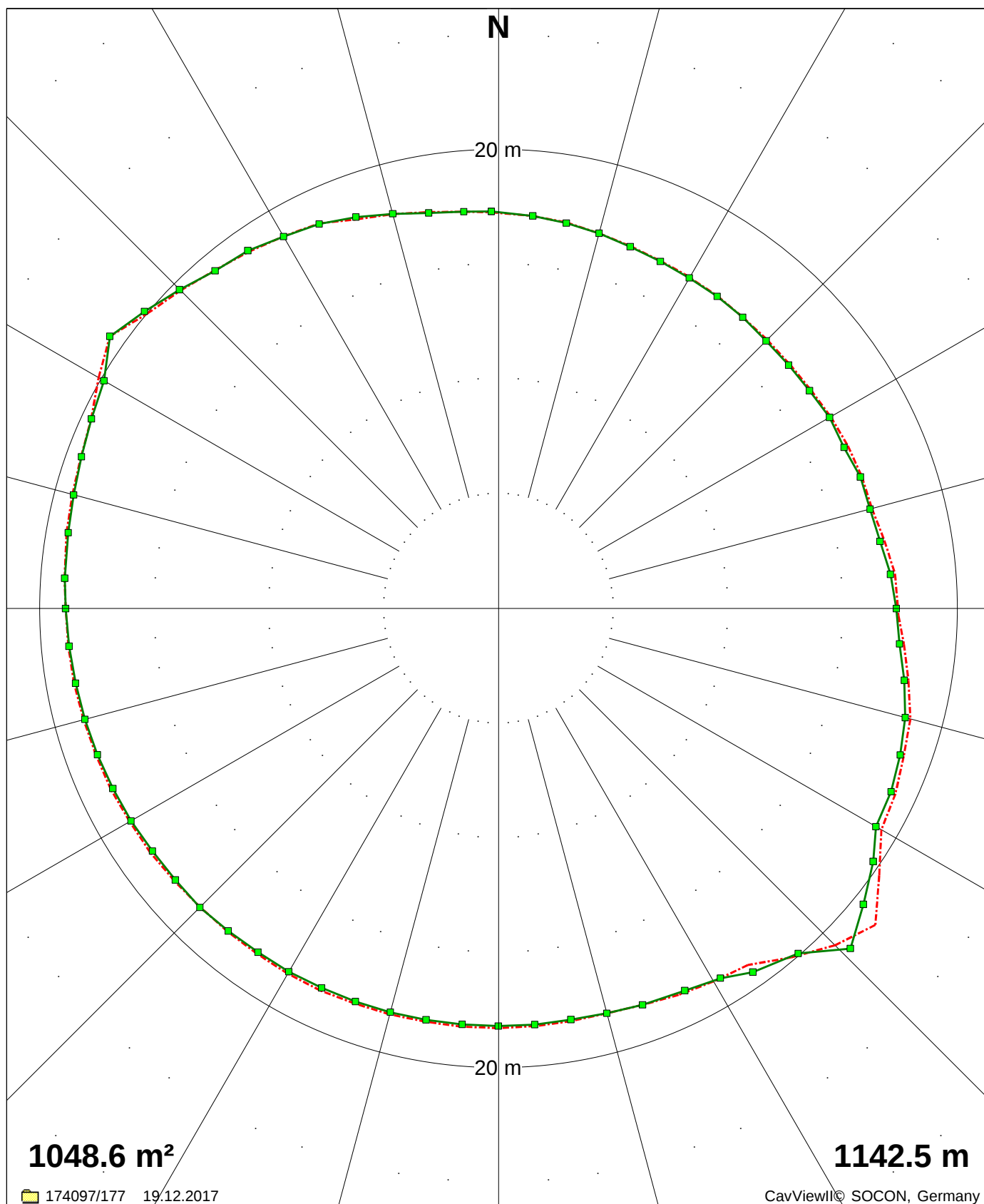
--- (19.05.2014) (1042.6 m²)

—■ (19.12.2017) (1036.5 m²)

$d_{\max}$: 40.4 m 130° <--> 310° $r_{\min}$: 16.4 m -> 46° $r_{\sim}$: 18.2 m $r_{\max}$: 20.7 m -> 135°

Heiligerlee K

19.12.2017



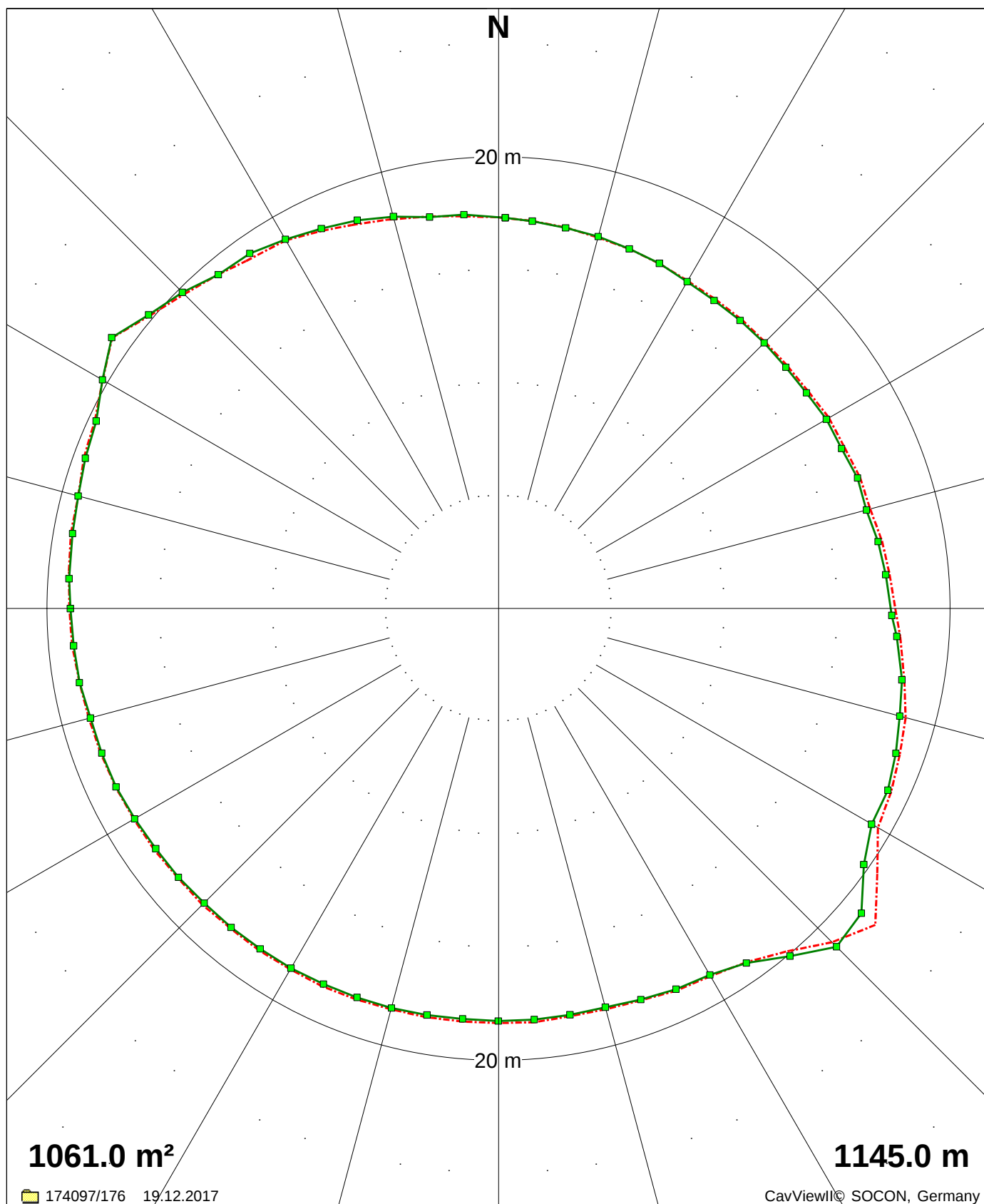
--- (19.05.2014) (1056.0 m²)

—■— (19.12.2017) (1048.6 m²)

$d_{\max}$: 41.0 m 134° <--> 314° $r_{\min}$: 16.5 m -> 46° $r_{\sim}$: 18.3 m $r_{\max}$: 21.3 m -> 134°

Heiligerlee K

19.12.2017



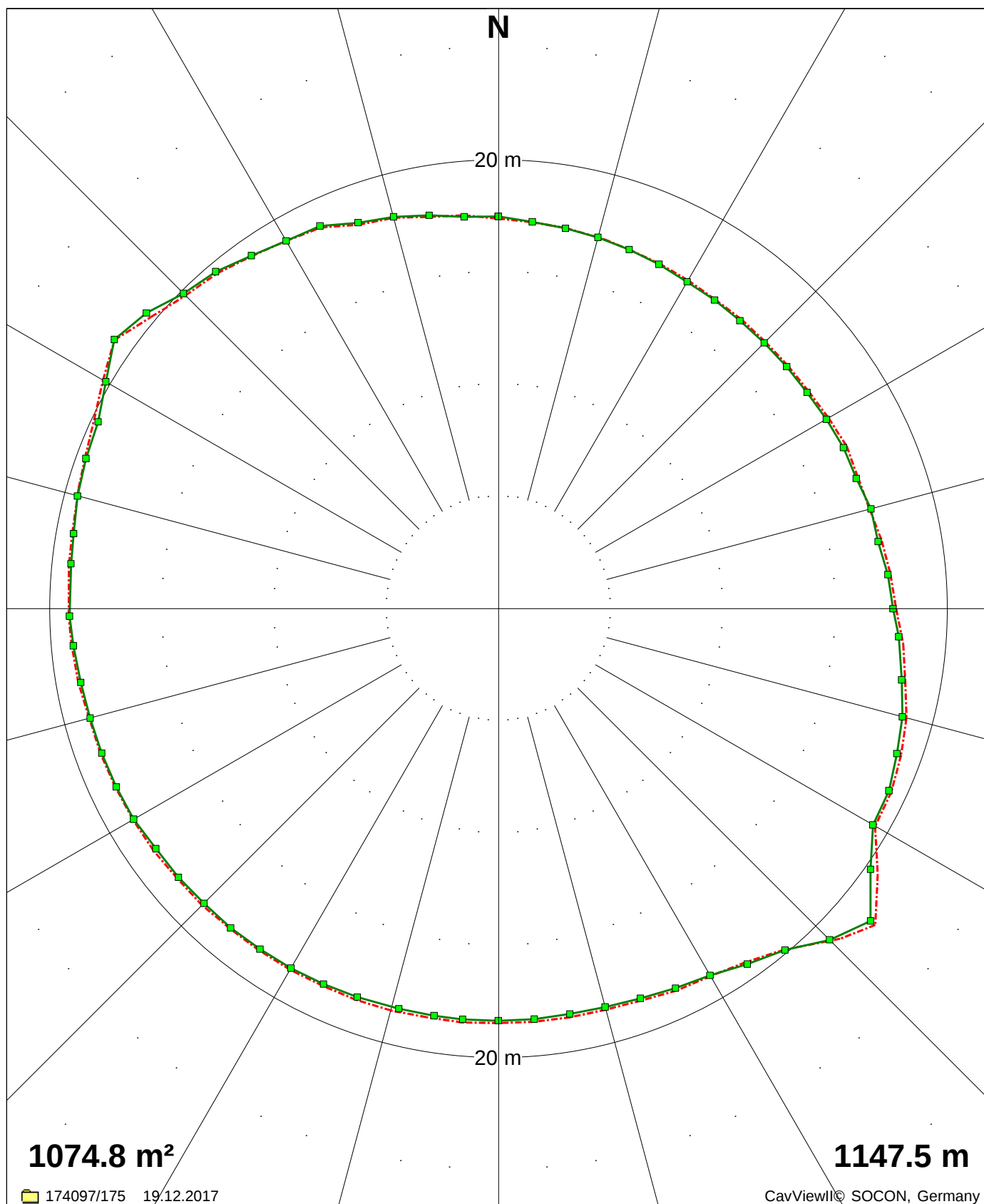
--- (19.05.2014) (1068.6 m²)

—■— (19.12.2017) (1061.0 m²)

$d_{\max}$: 41.2 m 130° <--> 310° $r_{\min}$: 16.6 m -> 47° $r_{\sim}$: 18.4 m $r_{\max}$: 21.2 m -> 135°

Heiligerlee K

19.12.2017



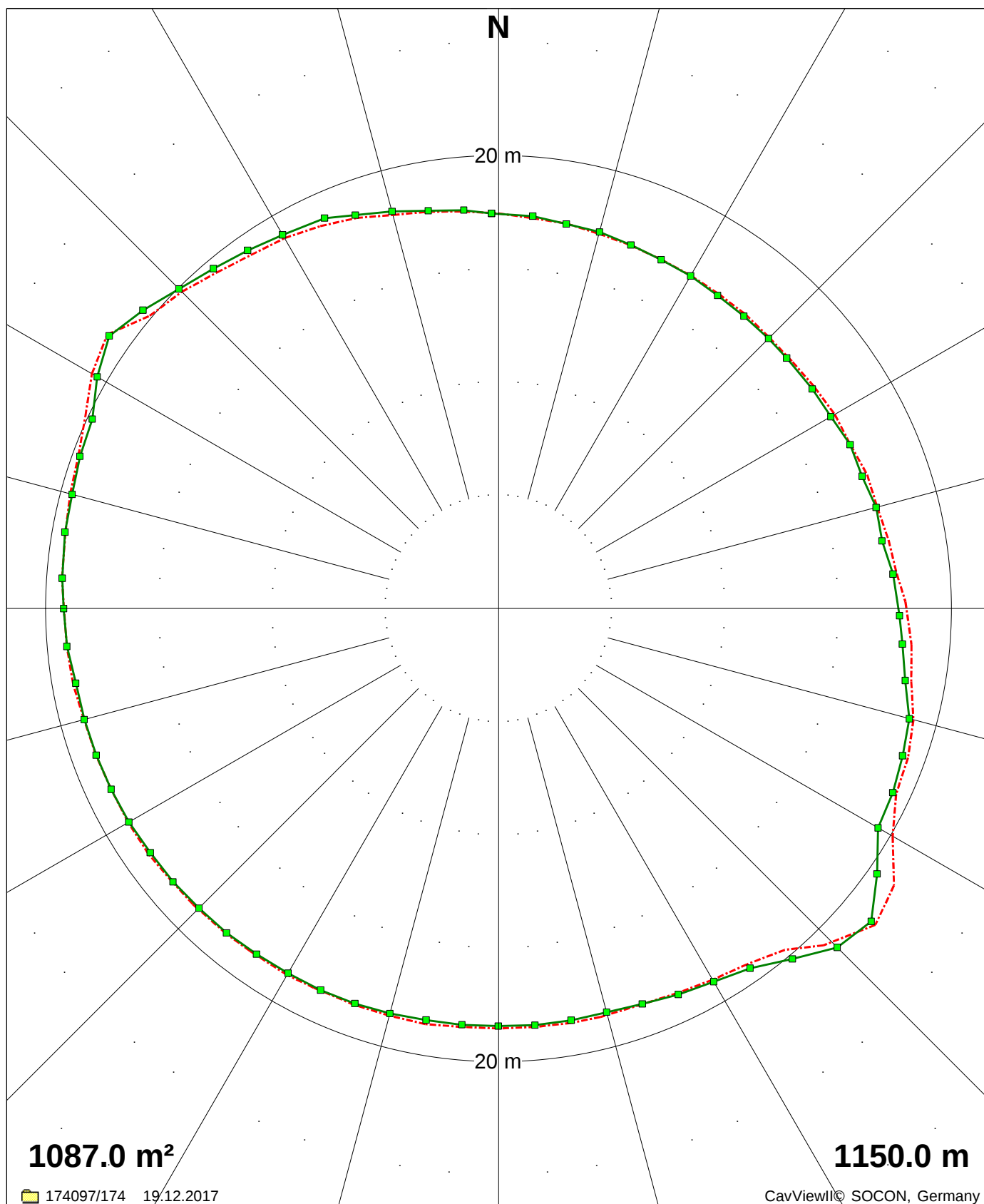
--- (19.05.2014) (1082.6 m²)

—■— (19.12.2017) (1074.8 m²)

$d_{\max}$: 42.1 m 130° <--> 310° $r_{\min}$: 16.7 m -> 41° $r_{\sim}$: 18.5 m $r_{\max}$: 21.6 m -> 130°

Heiligerlee K

19.12.2017



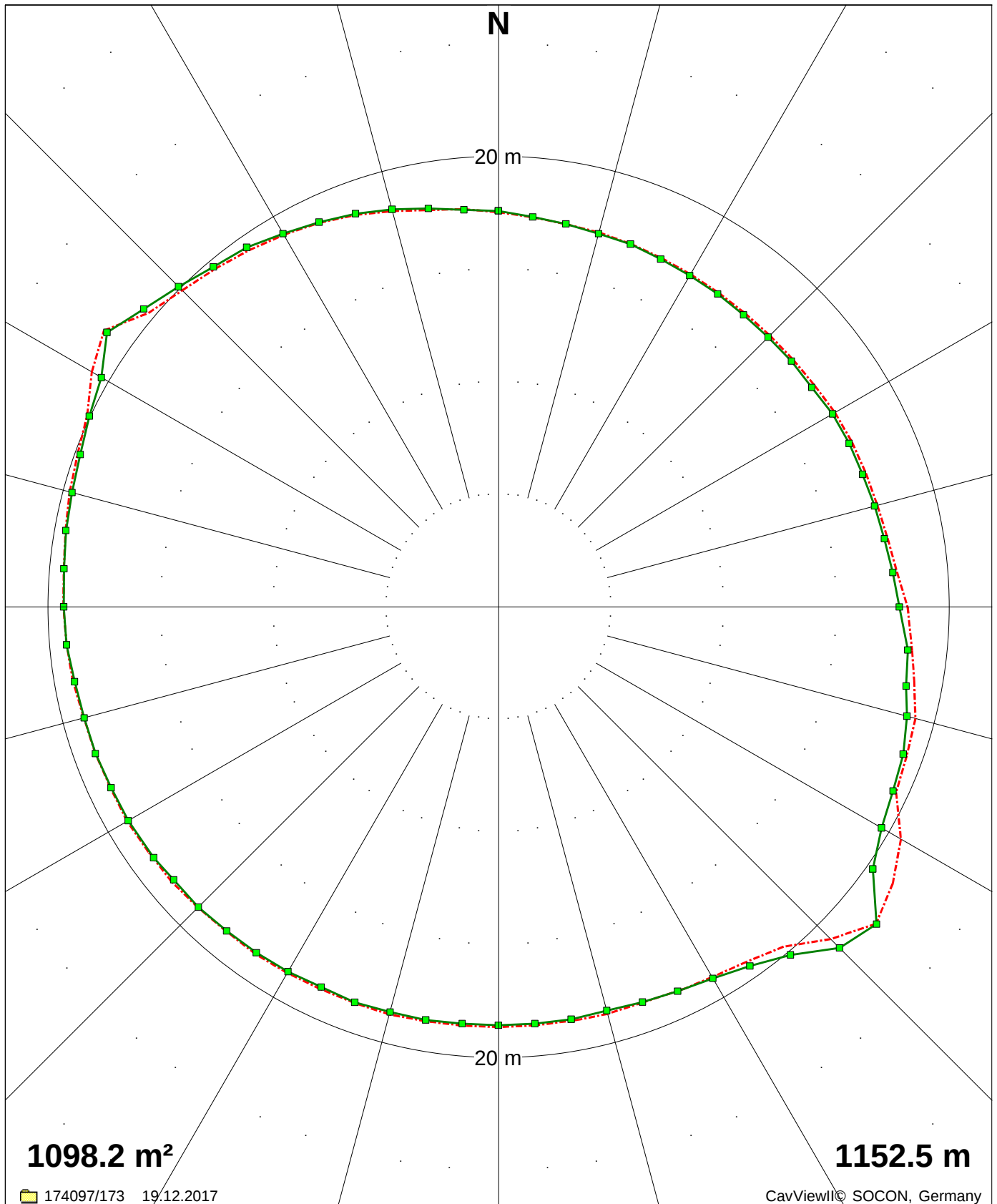
--- (19.05.2014) (1093.6 m²)

—■— (19.12.2017) (1087.0 m²)

$d_{\max}$: 42.0 m 130° <--> 310° $r_{\min}$: 16.8 m -> 37° $r_{\sim}$: 18.6 m $r_{\max}$: 21.5 m -> 130°

Heiligerlee K

19.12.2017



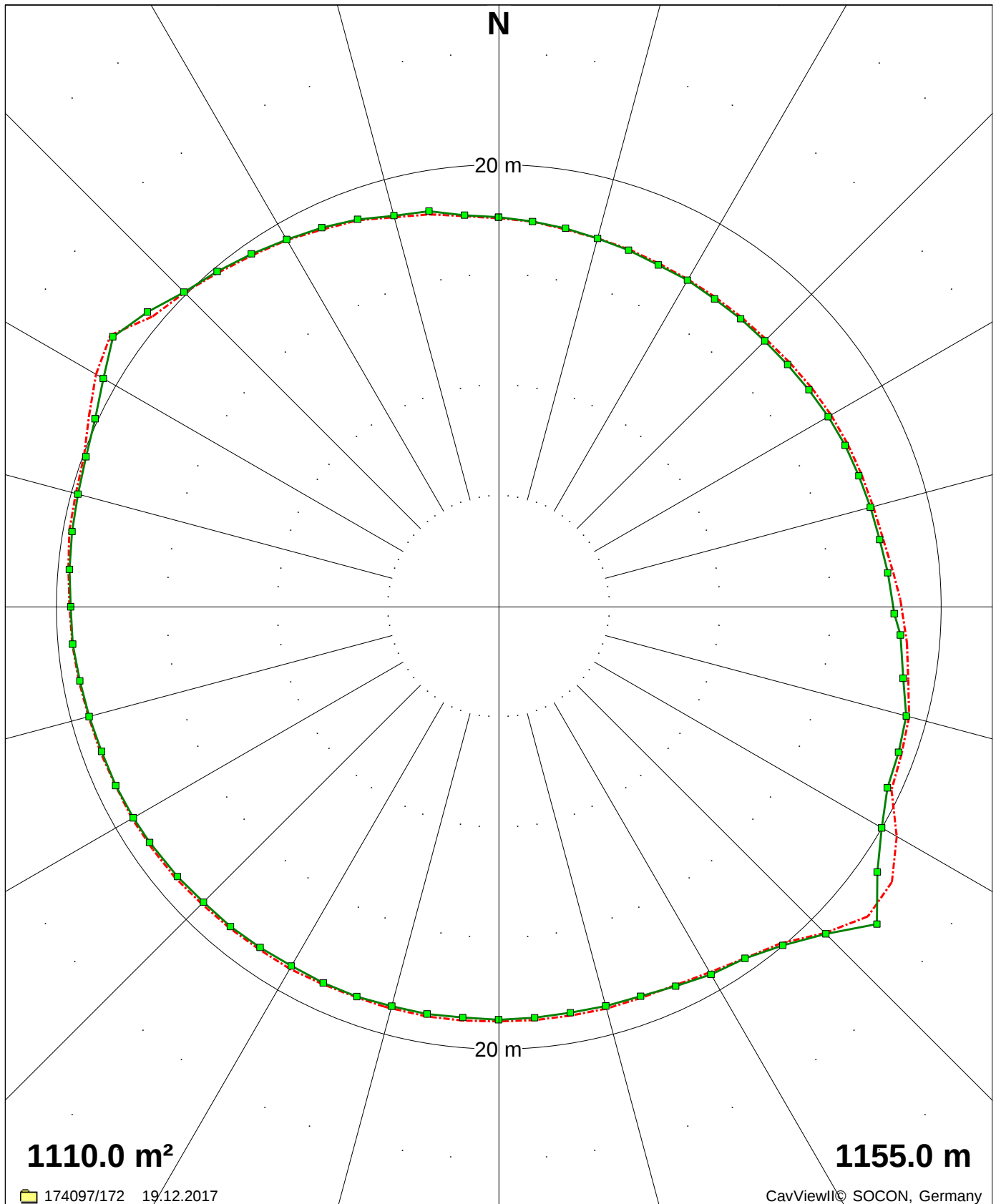
--- (19.05.2014) (1106.6 m²)

—■ (19.12.2017) (1098.2 m²)

$d_{\max}$: 42.5 m 130° <--> 310° $r_{\min}$: 16.9 m -> 41° $r_{\sim}$: 18.7 m $r_{\max}$: 21.9 m -> 130°

Heiligerlee K

19.12.2017



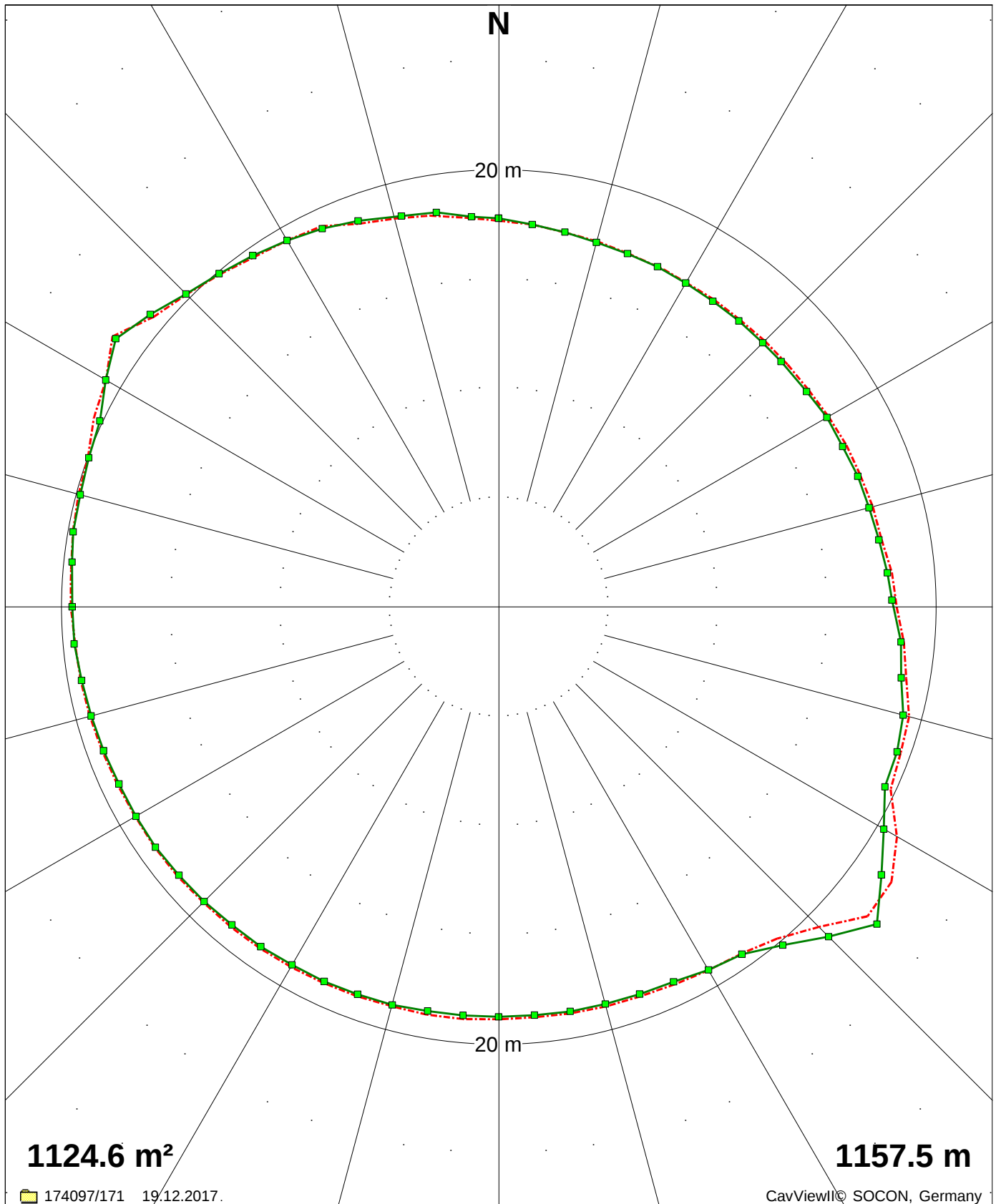
--- (19.05.2014) (1119.5 m²)

—■ (19.12.2017) (1110.0 m²)

$d_{\max}$: 43.0 m 130° <--> 310° $r_{\min}$: 17.0 m -> 37° $r_{\sim}$: 18.8 m $r_{\max}$: 22.3 m -> 130°

Heiligerlee K

19.12.2017



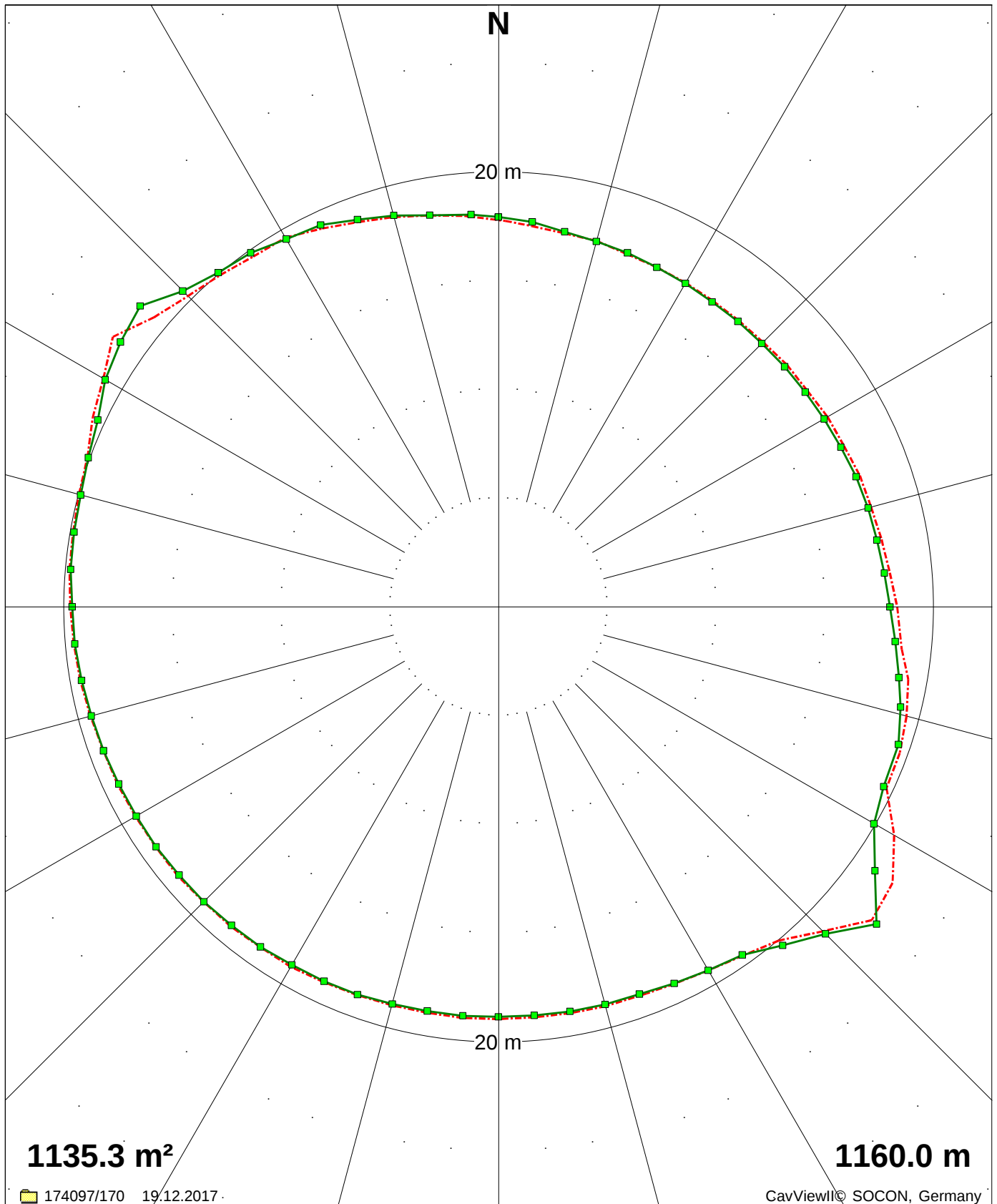
--- (19.05.2014) (1131.6 m²)

—■— (19.12.2017) (1124.6 m²)

$d_{\max}$: 43.4 m 130° <--> 310° $r_{\min}$: 17.0 m -> 36° $r_{\sim}$: 18.9 m $r_{\max}$: 22.6 m -> 130°

Heiligerlee K

19.12.2017



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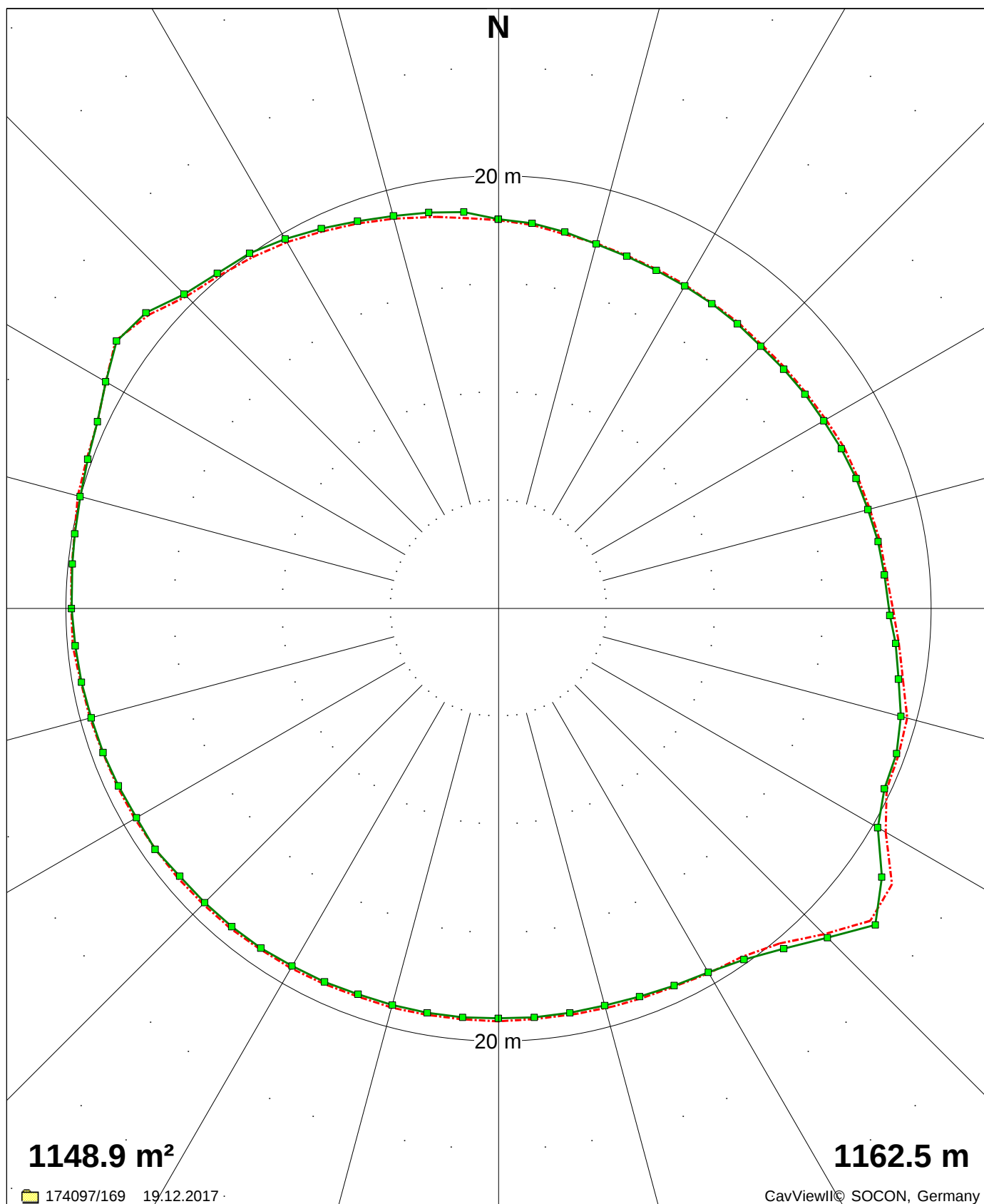
--- (19.05.2014) (1143.1 m²)

— (19.12.2017) (1135.3 m²)

$d_{\max}$: 44.2 m 130° <--> 310° $r_{\min}$: 17.1 m -> 36° $r_{\sim}$: 19.0 m $r_{\max}$: 22.7 m -> 130°

Heiligerlee K

19.12.2017



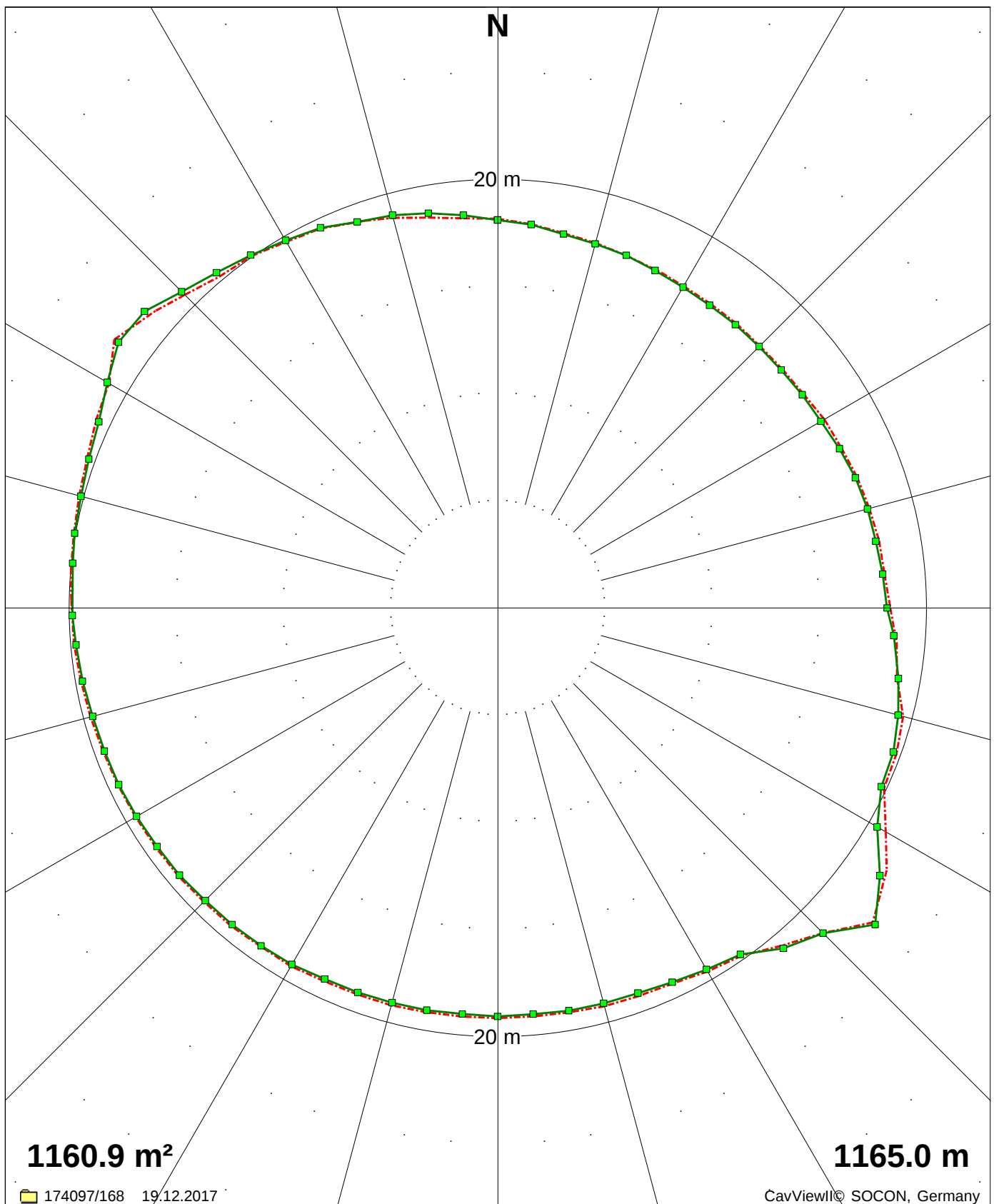
--- (19.05.2014) (1153.1 m²)

—■— (19.12.2017) (1148.9 m²)

$d_{\max}$: 44.0 m 130° <--> 310° $r_{\min}$: 17.1 m -> 43° $r_{\sim}$: 19.1 m $r_{\max}$: 22.7 m -> 130°

Heiligerlee K

19.12.2017



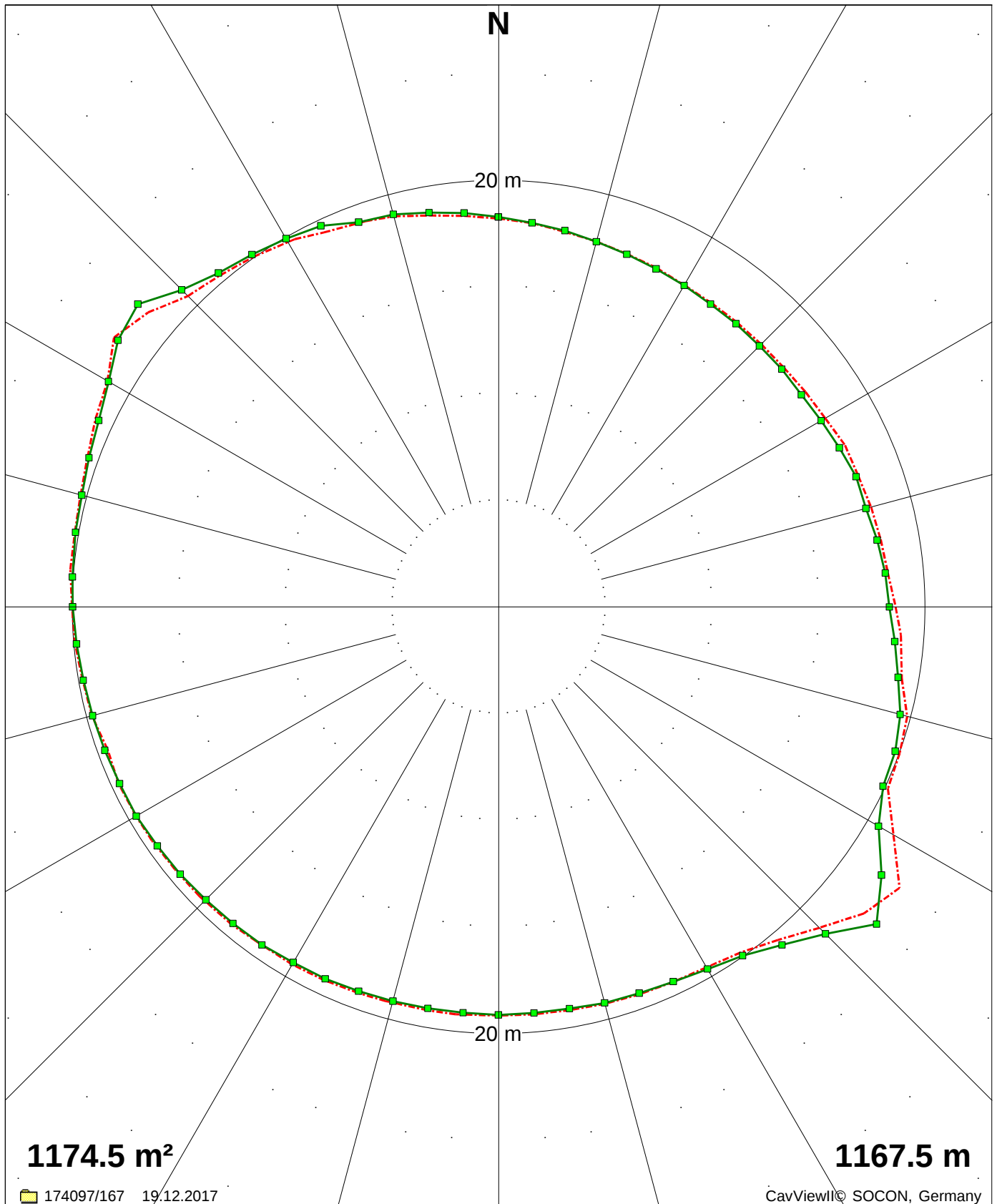
--- (19.05.2014) (1167.3 m²)

—■ (19.12.2017) (1160.9 m²)

$d_{\max}$: 44.5 m 130° <--> 310° $r_{\min}$: 17.2 m -> 36° $r_{\sim}$: 19.2 m $r_{\max}$: 23.0 m -> 130°

Heiligerlee K

19.12.2017



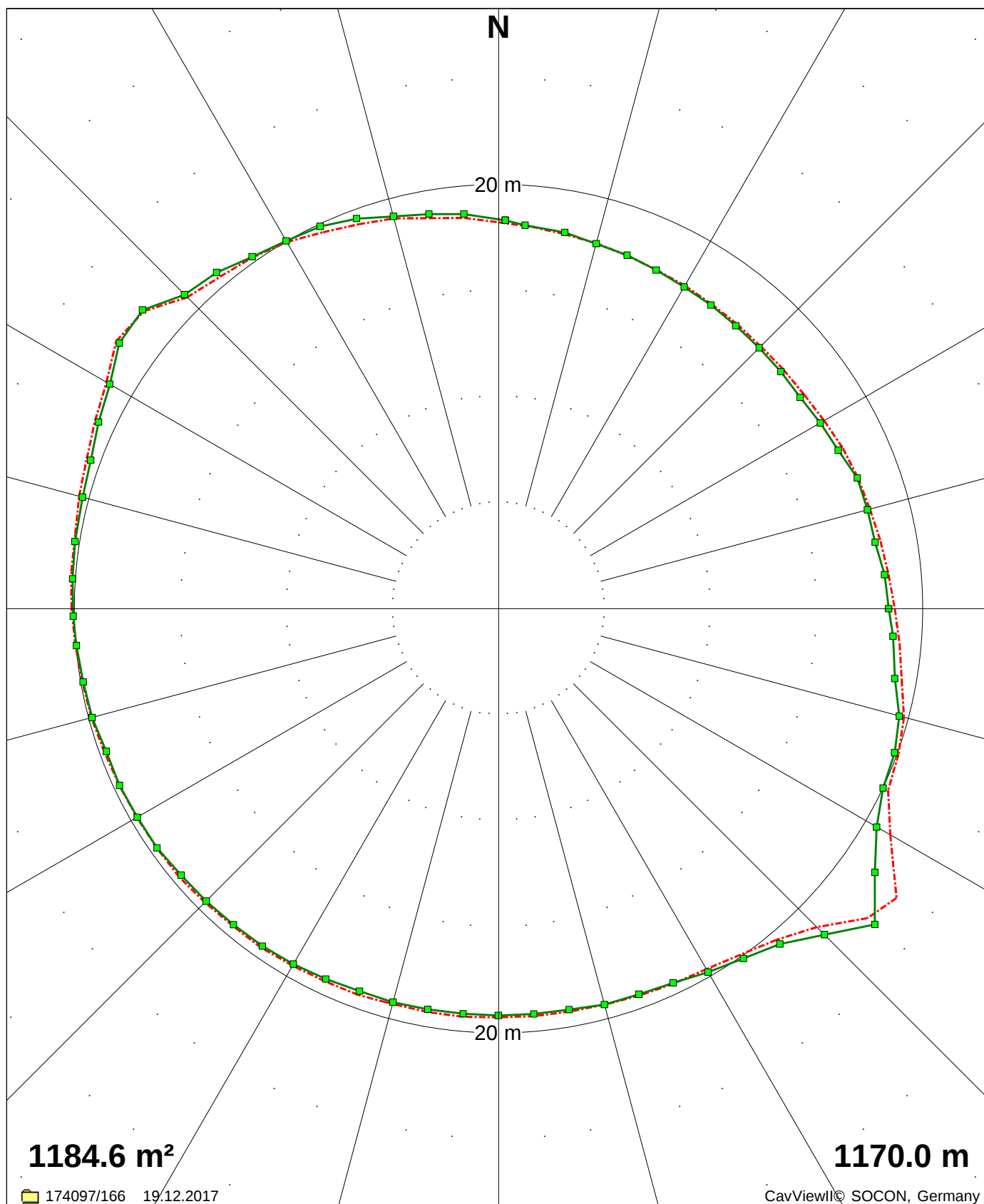
--- (19.05.2014) (1179.6 m²)

—■ (19.12.2017) (1174.5 m²)

$d_{\max}$: 45.2 m 130° <--> 310° $r_{\min}$: 17.3 m -> 42° $r_{\sim}$: 19.3 m $r_{\max}$: 23.1 m -> 130°

Heiligerlee K

19.12.2017



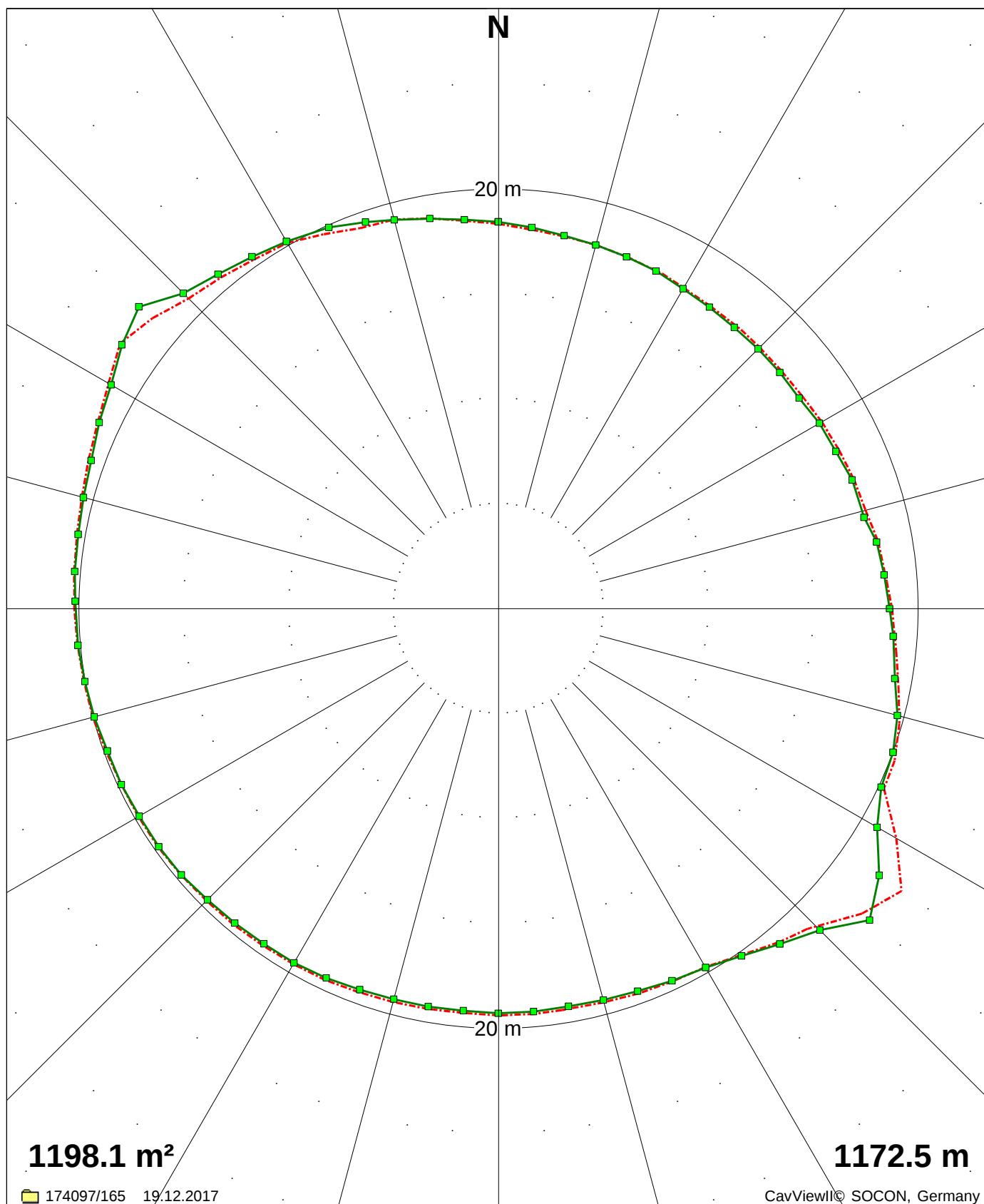
--- (19.05.2014) (1192.7 m²)

—■ (19.12.2017) (1184.6 m²)

$d_{\max}$: 45.1 m 130° <--> 310° $r_{\min}$: 17.3 m -> 52° $r_{\sim}$: 19.4 m $r_{\max}$: 23.2 m -> 130°

Heiligerlee K

19.12.2017



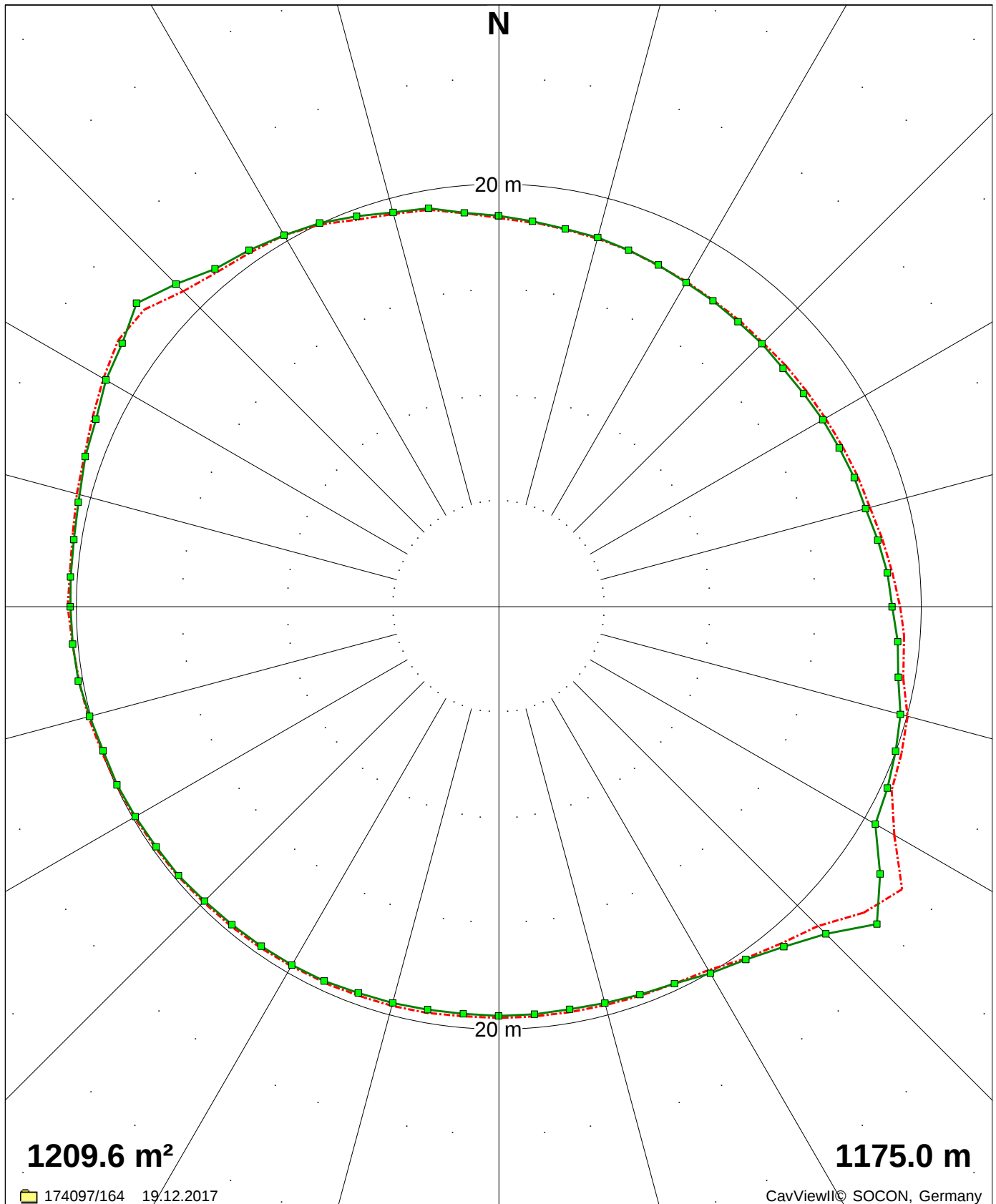
--- (19.05.2014) (1204.3 m²)

—■ (19.12.2017) (1198.1 m²)

$d_{\max}$: 45.5 m 130° <--> 310° $r_{\min}$: 17.5 m -> 41° $r_{\sim}$: 19.5 m $r_{\max}$: 23.1 m -> 130°

Heiligerlee K

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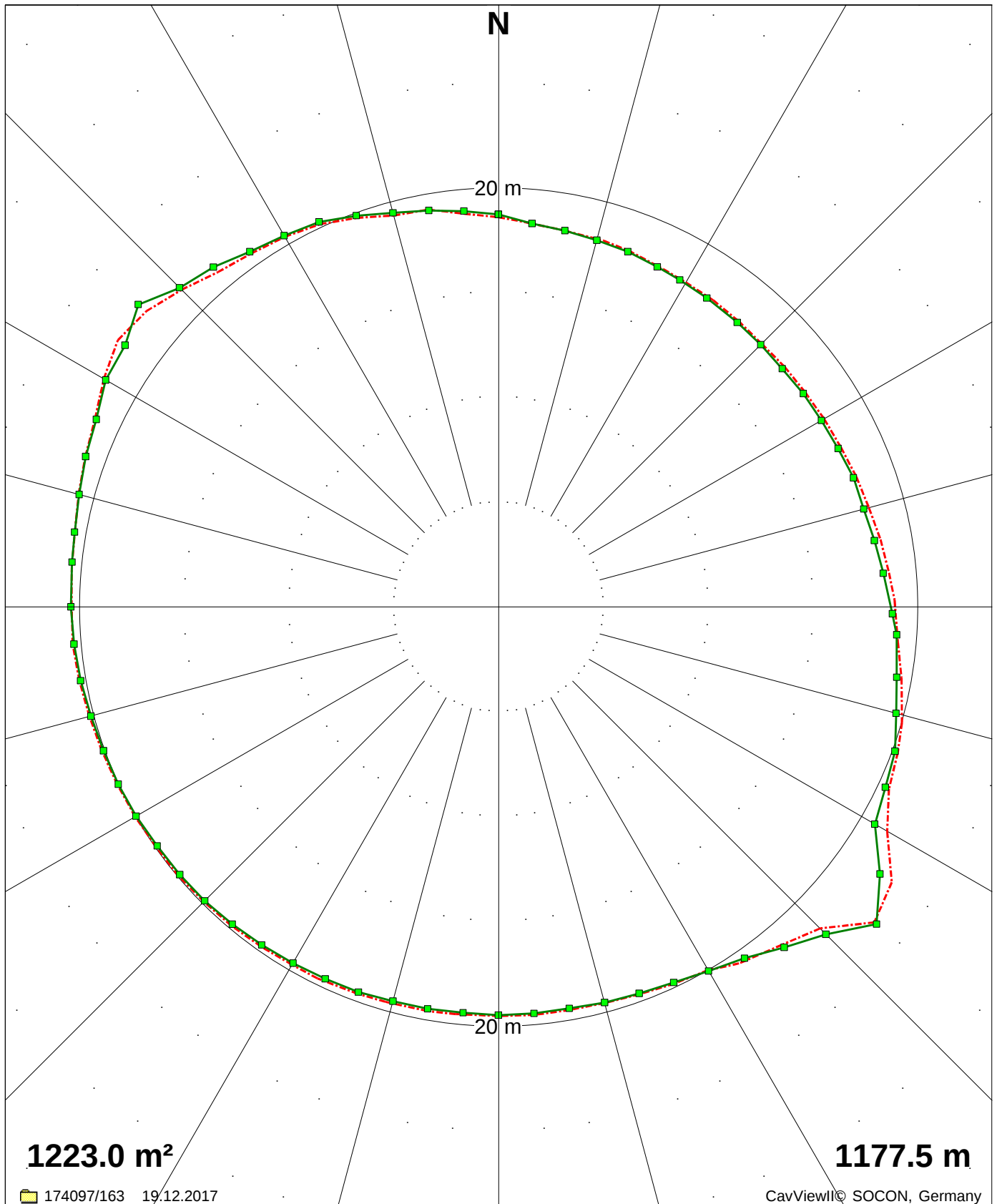
--- (19.05.2014) (1217.8 m²)

—■— (19.12.2017) (1209.6 m²)

$d_{\max}$: 45.7 m 130° <--> 310° $r_{\min}$: 17.6 m -> 48° $r_{\sim}$: 19.6 m $r_{\max}$: 23.4 m -> 130°

Heiligerlee K

19.12.2017



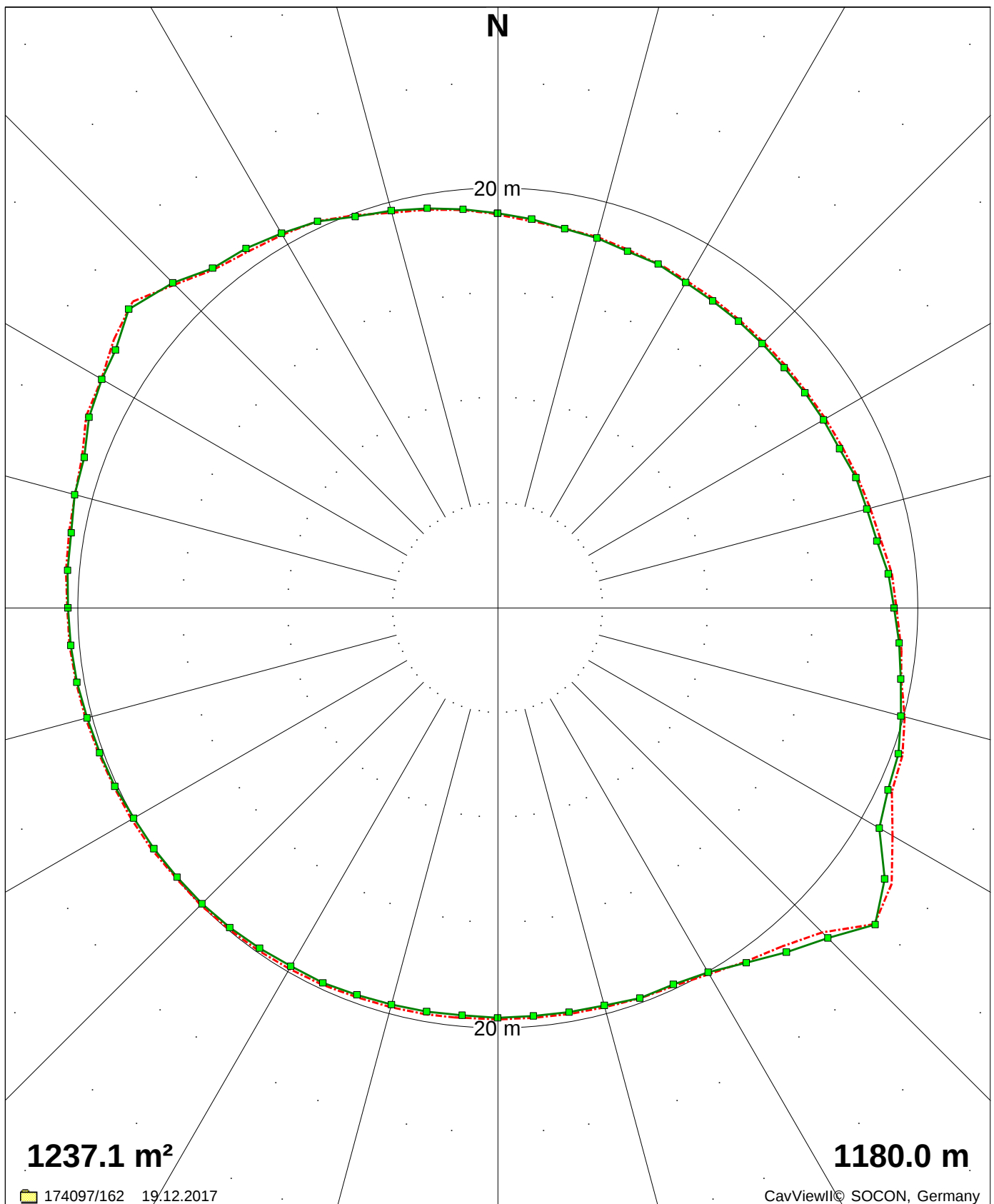
--- (19.05.2014) (1230.7 m²)

—■— (19.12.2017) (1223.0 m²)

d_{max}: 46.0 m 130° <--> 310° r_{min}: 17.7 m -> 47° r~: 19.7 m r_{max}: 23.5 m -> 130°

Heiligerlee K

19.12.2017



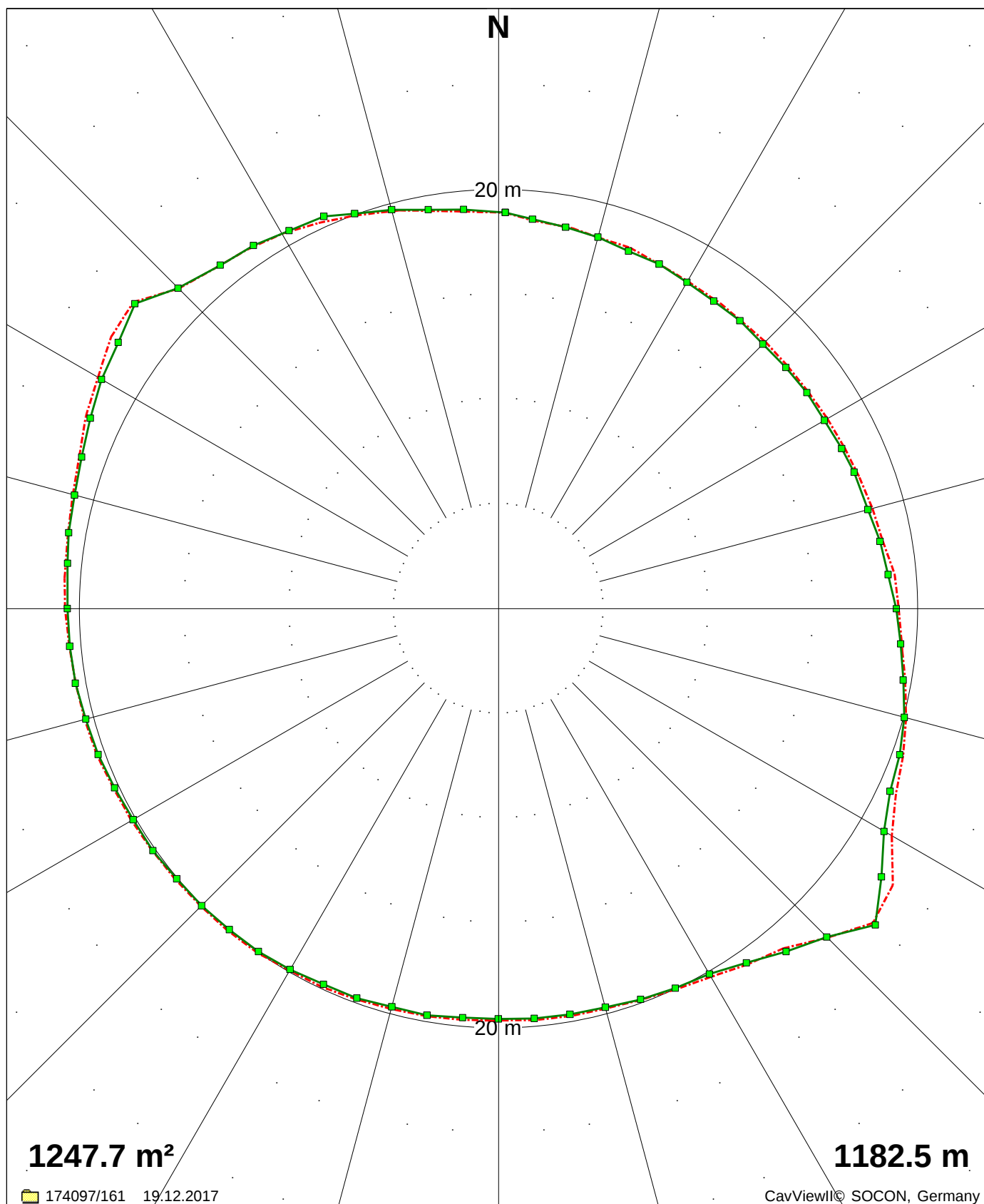
--- (19.05.2014) (1245.6 m²)

—■— (19.12.2017) (1237.1 m²)

d_{max}: 45.9 m 130° <--> 310° r_{min}: 17.8 m -> 46° r~: 19.8 m r_{max}: 23.5 m -> 130°

Heiligerlee K

19.12.2017



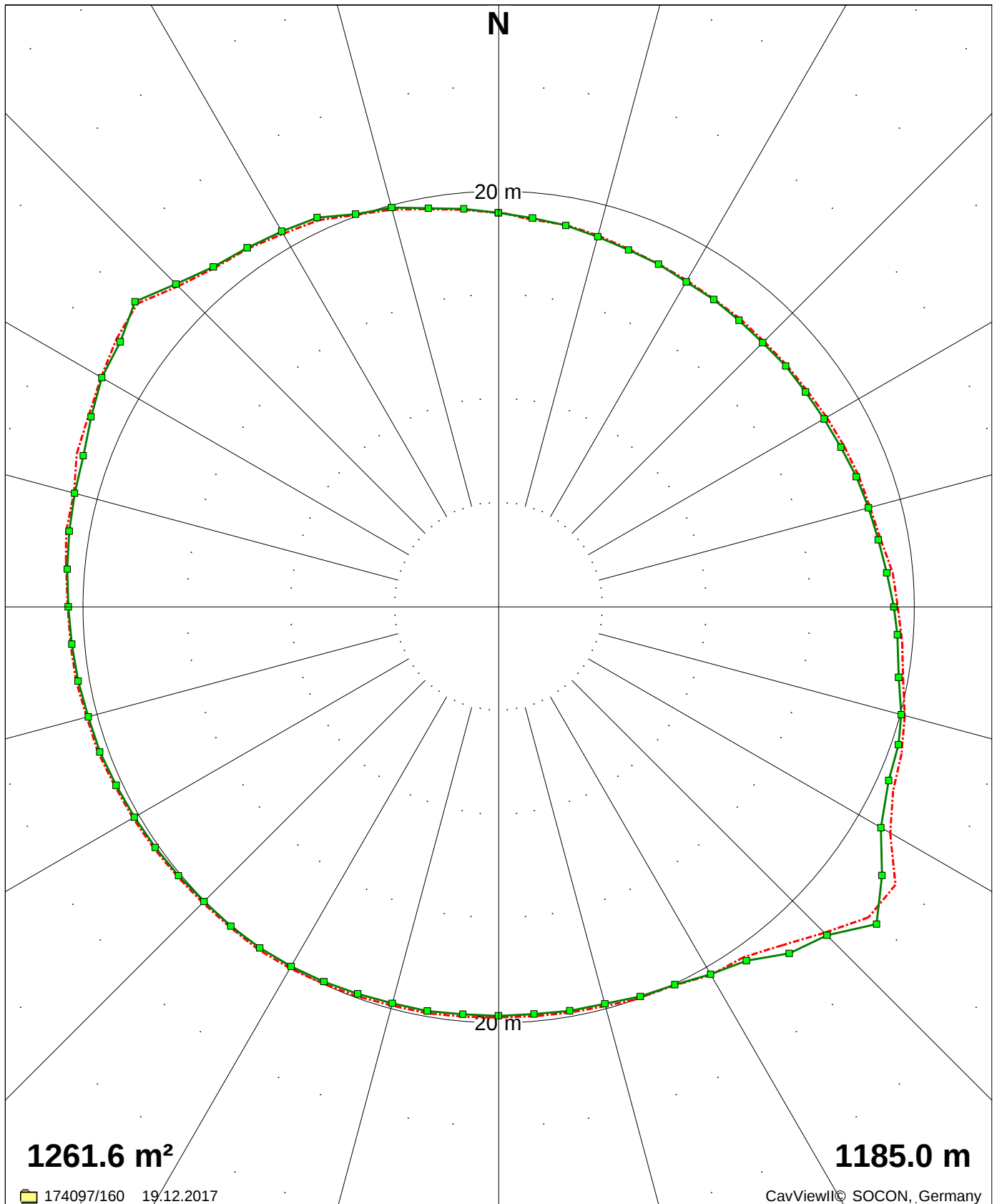
--- (19.05.2014) (1258.2 m²)

—■ (19.12.2017) (1247.7 m²)

d_{max}: 46.1 m 130° <--> 310° r_{min}: 17.8 m -> 45° r~: 19.9 m r_{max}: 23.5 m -> 130°

Heiligerlee K

19.12.2017



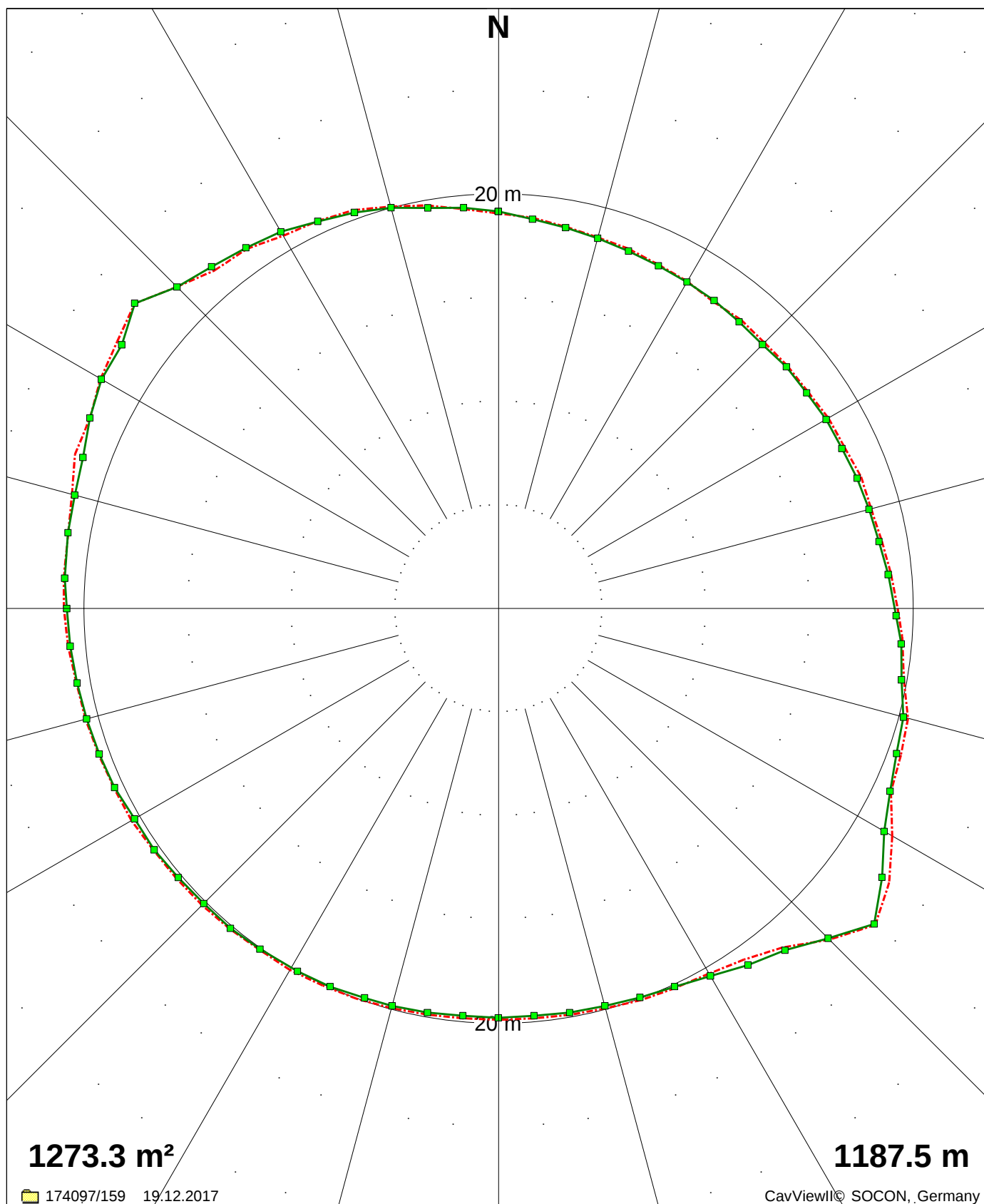
--- (19.05.2014) (1269.8 m²)

— (19.12.2017) (1261.6 m²)

$d_{\max}$: 46.6 m 130° <--> 310° $r_{\min}$: 18.0 m -> 42° $r_{\sim}$: 20.0 m $r_{\max}$: 23.7 m -> 130°

Heiligerlee K

19.12.2017



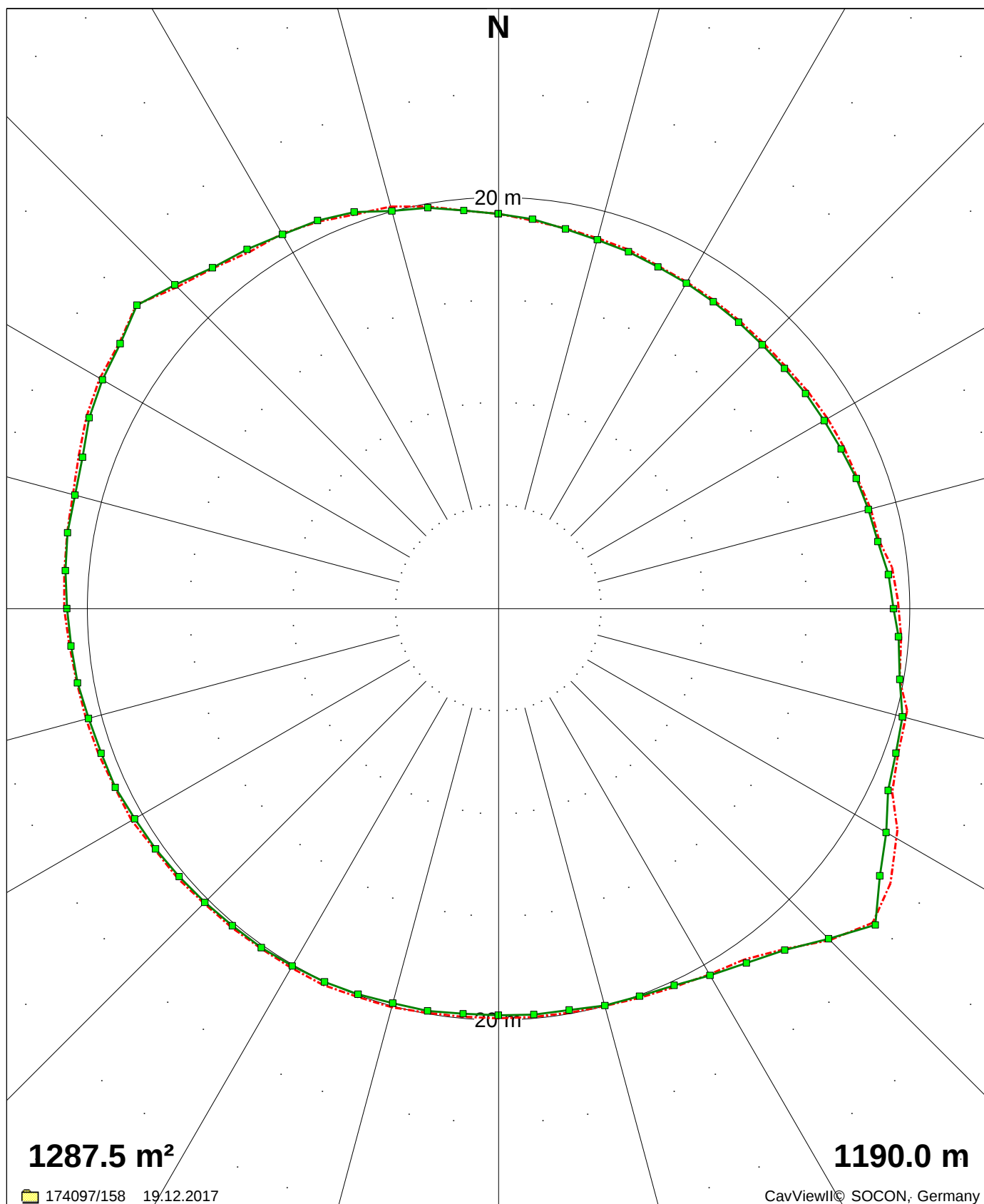
--- (19.05.2014) (1283.1 m²)

—■ (19.12.2017) (1273.3 m²)

d_{max}: 46.6 m 130° <--> 310° r_{min}: 18.0 m -> 43° r~: 20.1 m r_{max}: 23.7 m -> 130°

Heiligerlee K

19.12.2017



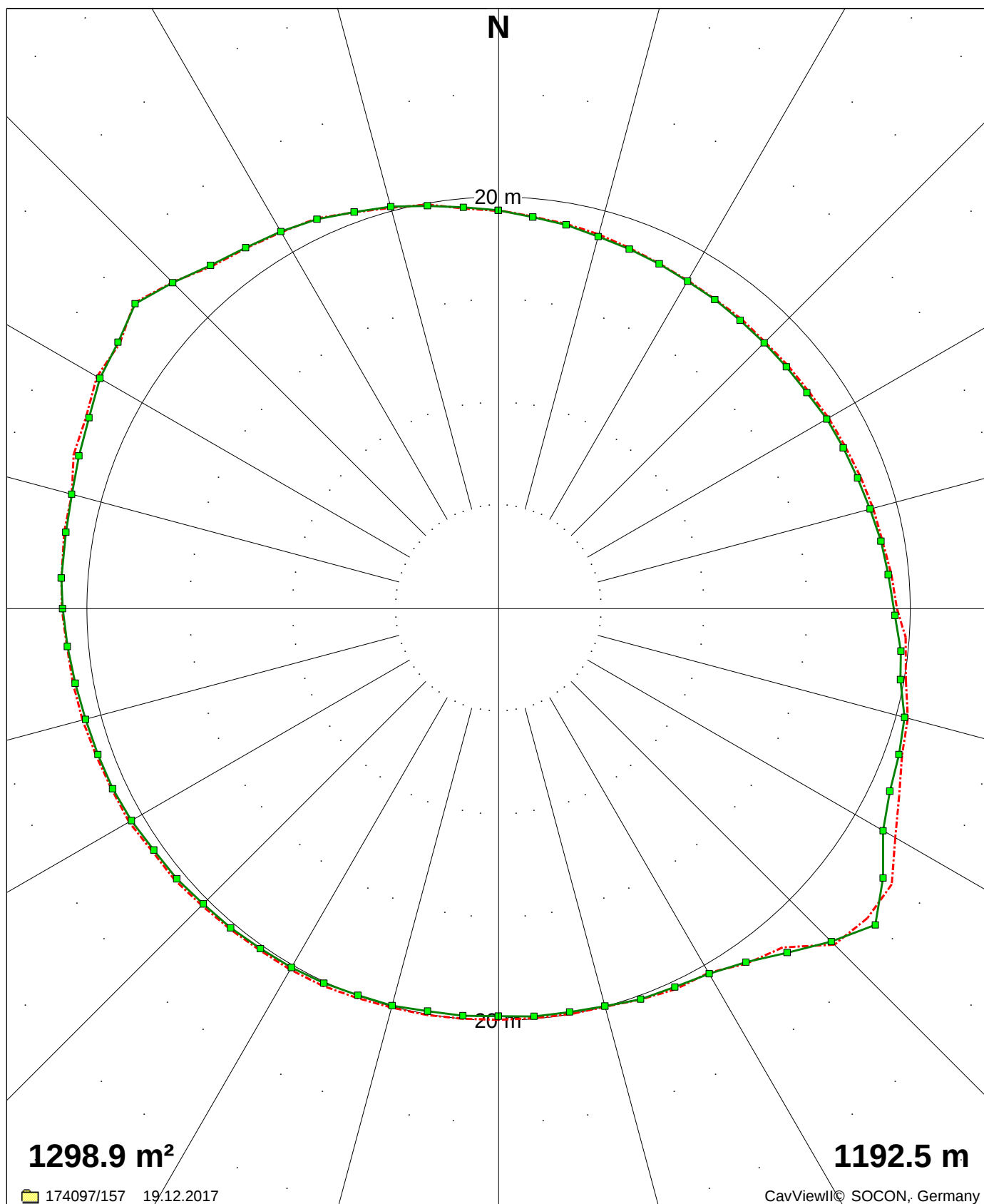
--- (19.05.2014) (1298.9 m²)

—■ (19.12.2017) (1287.5 m²)

$d_{\max}$: 46.9 m 130° <--> 310° $r_{\min}$: 18.1 m -> 46° $r_{\sim}$: 20.2 m $r_{\max}$: 23.9 m -> 130°

Heiligerlee K

19.12.2017



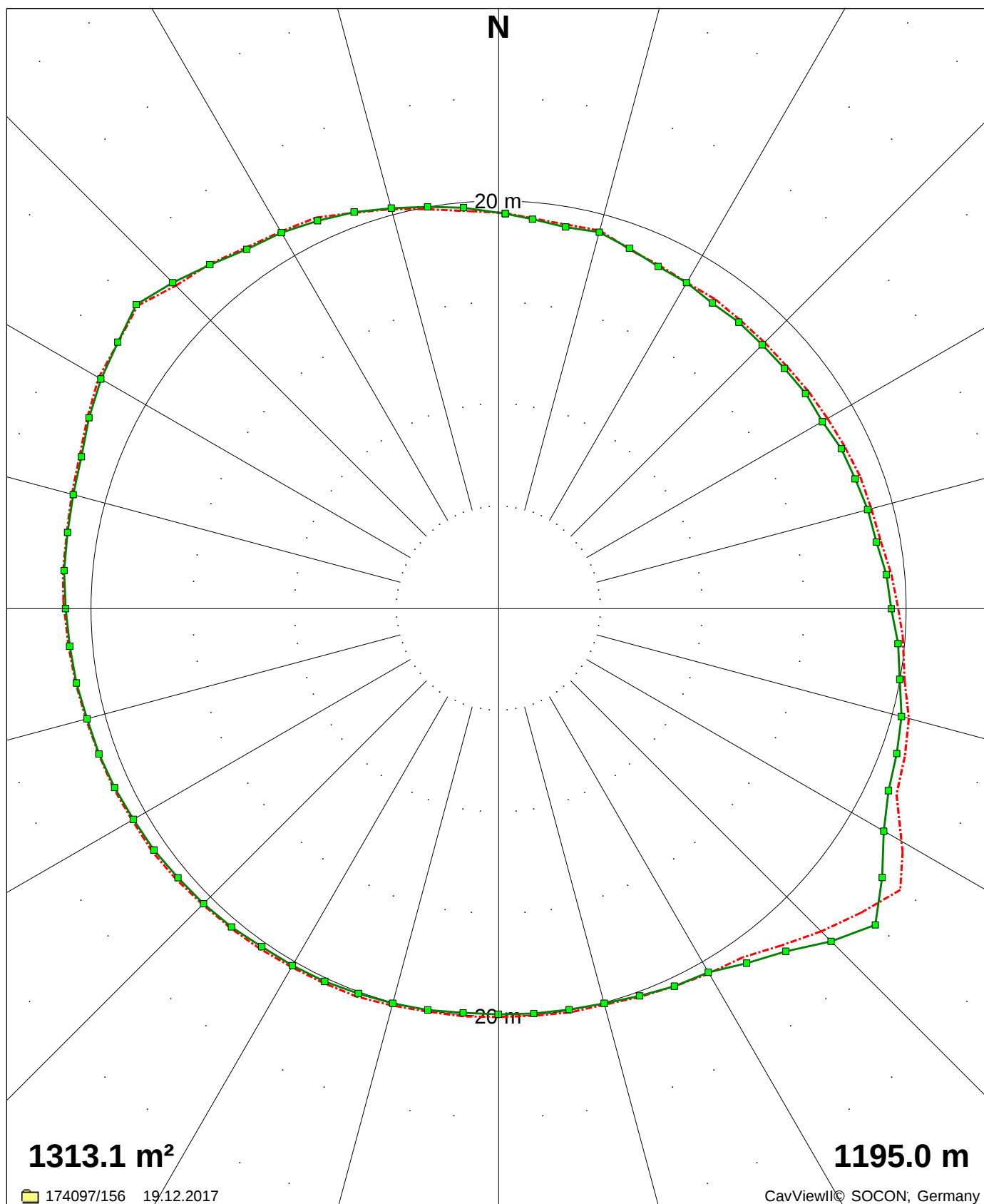
--- (19.05.2014) (1310.5 m²)

—■— (19.12.2017) (1298.9 m²)

$d_{\max}$: 47.0 m 130° <--> 310° $r_{\min}$: 18.2 m -> 46° $r_{\sim}$: 20.3 m $r_{\max}$: 23.9 m -> 130°

Heiligerlee K

19.12.2017



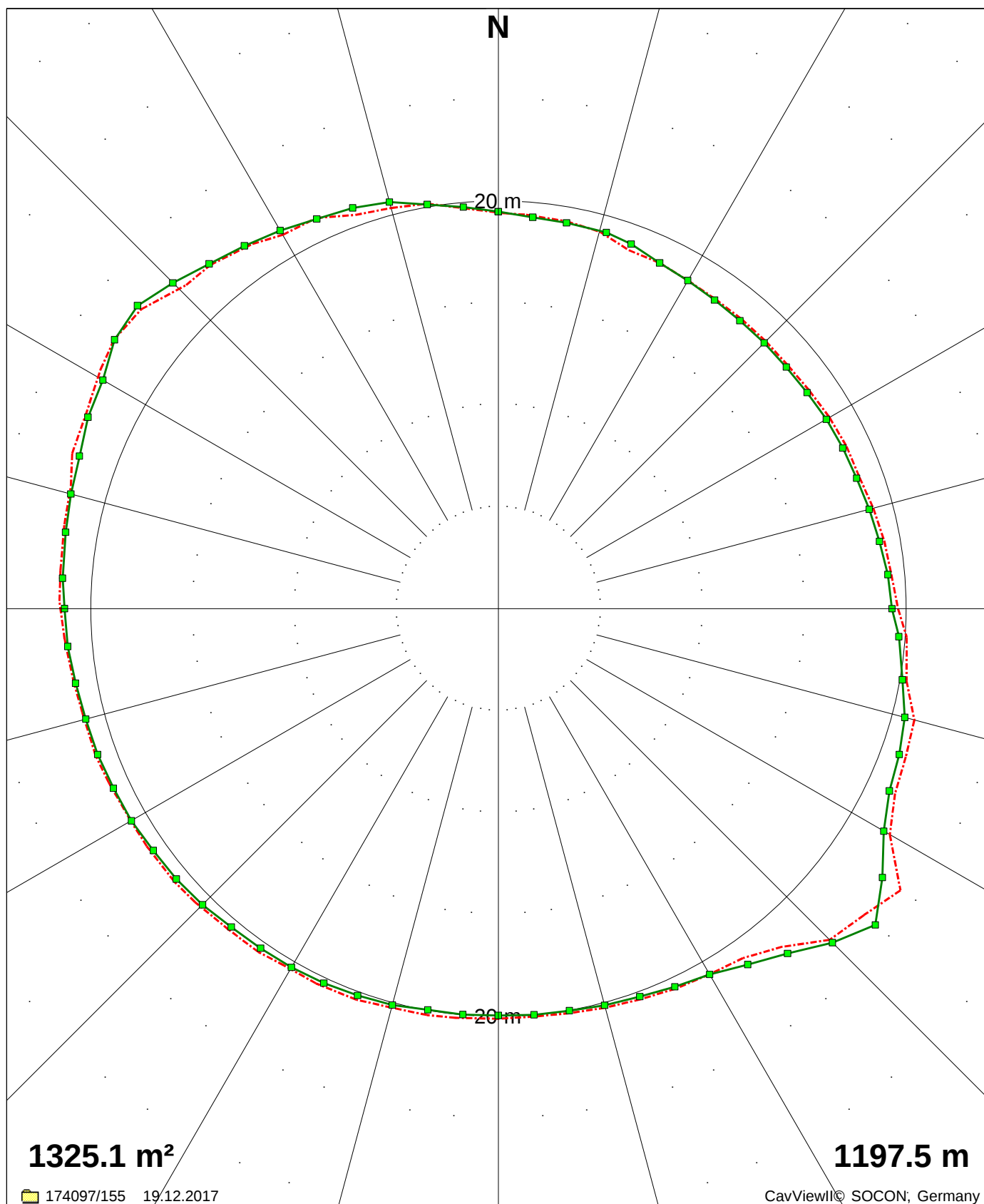
--- (19.05.2014) (1324.8 m²)

— (19.12.2017) (1313.1 m²)

$d_{\max}$: 47.3 m 130° <--> 310° $r_{\min}$: 18.3 m -> 46° $r_{\sim}$: 20.4 m $r_{\max}$: 24.1 m -> 130°

Heiligerlee K

19.12.2017



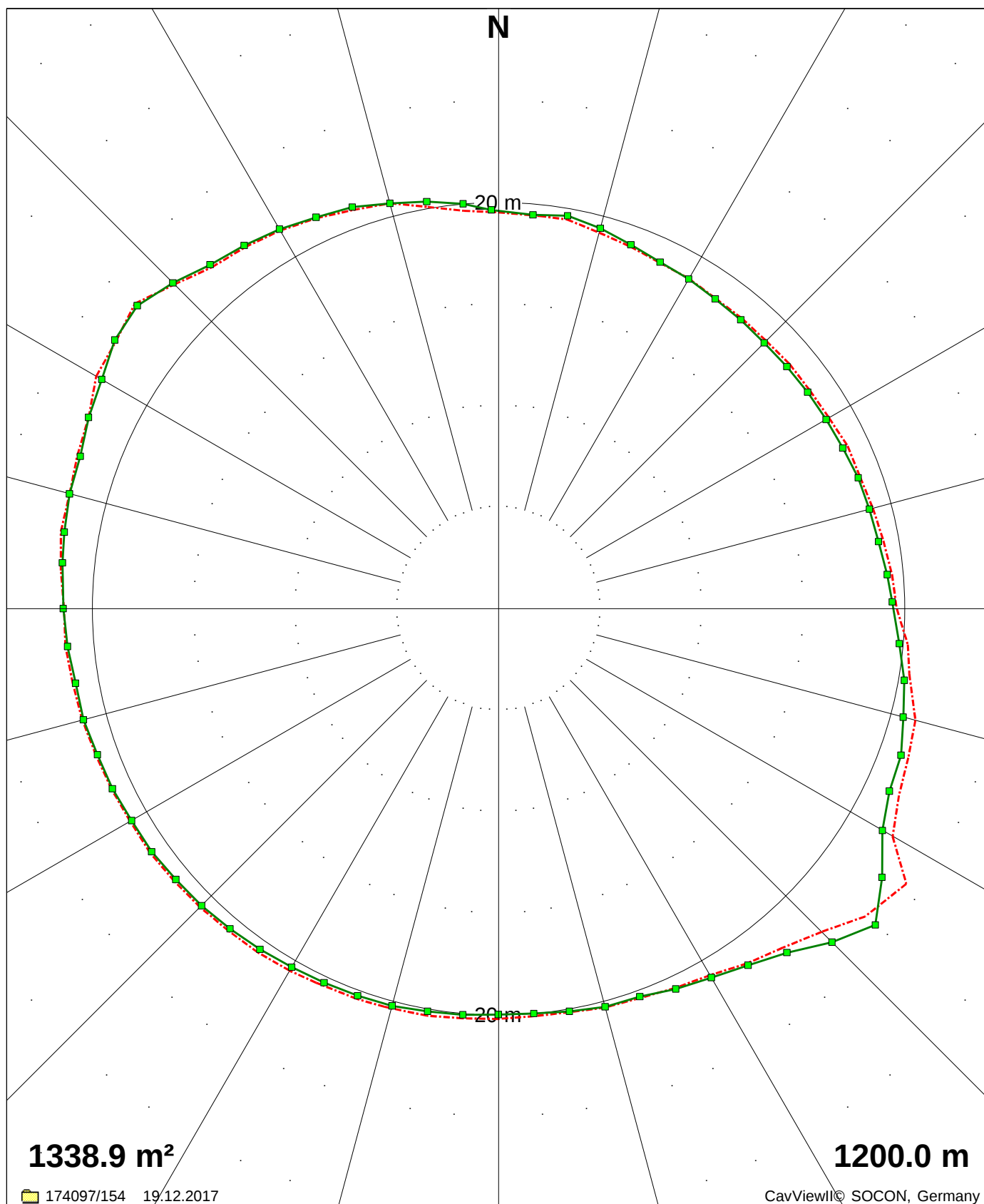
--- (19.05.2014) (1335.3 m²)

—■ (19.12.2017) (1325.1 m²)

$d_{\max}$: 47.2 m 130° <--> 310° $r_{\min}$: 18.4 m -> 42° $r_{\sim}$: 20.5 m $r_{\max}$: 24.1 m -> 130°

Heiligerlee K

19.12.2017



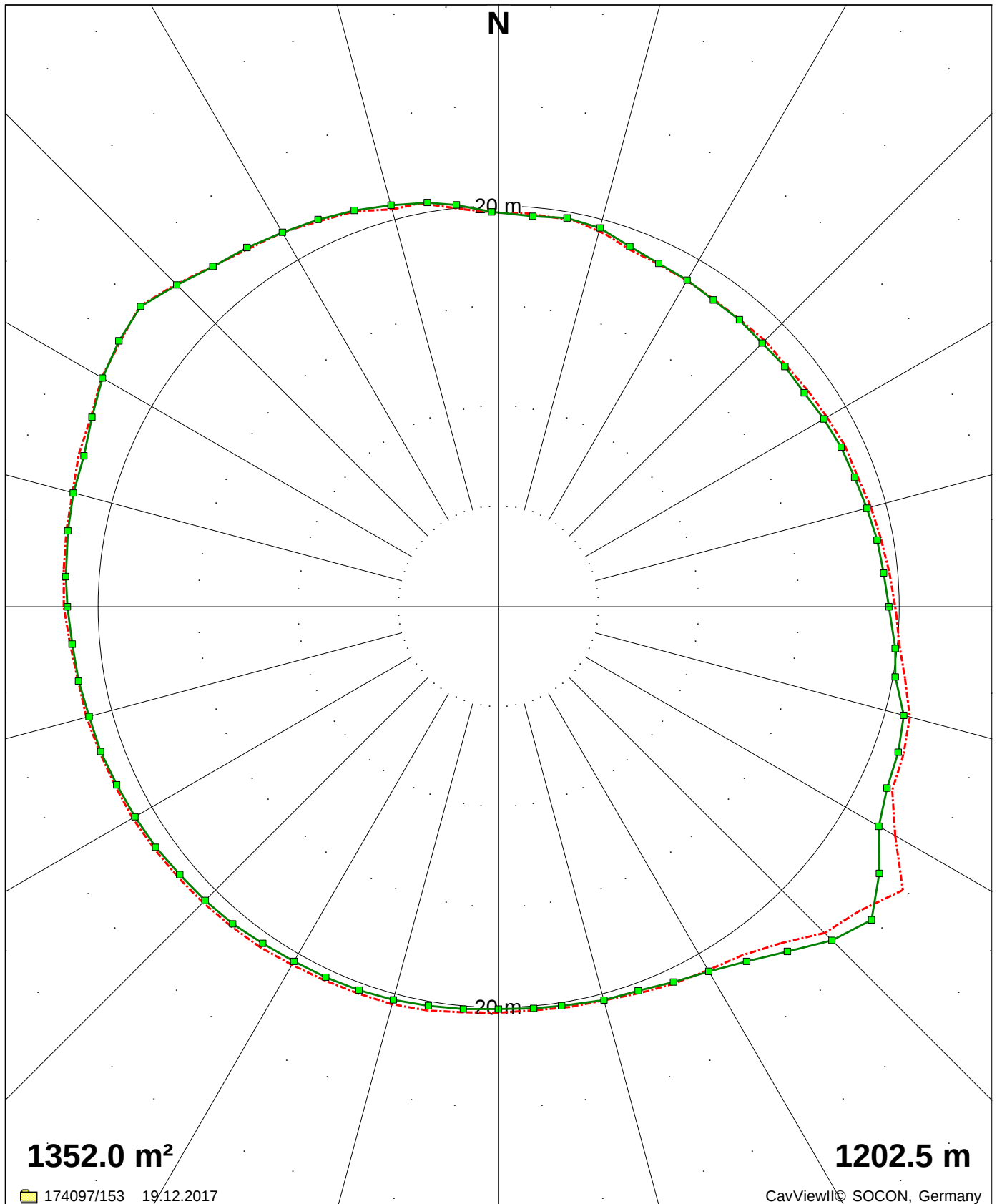
--- (19.05.2014) (1349.0 m²)

—■— (19.12.2017) (1338.9 m²)

d_{max}: 47.4 m 130° <--> 310° r_{min}: 18.5 m -> 46° r~: 20.6 m r_{max}: 24.2 m -> 130°

Heiligerlee K

19.12.2017



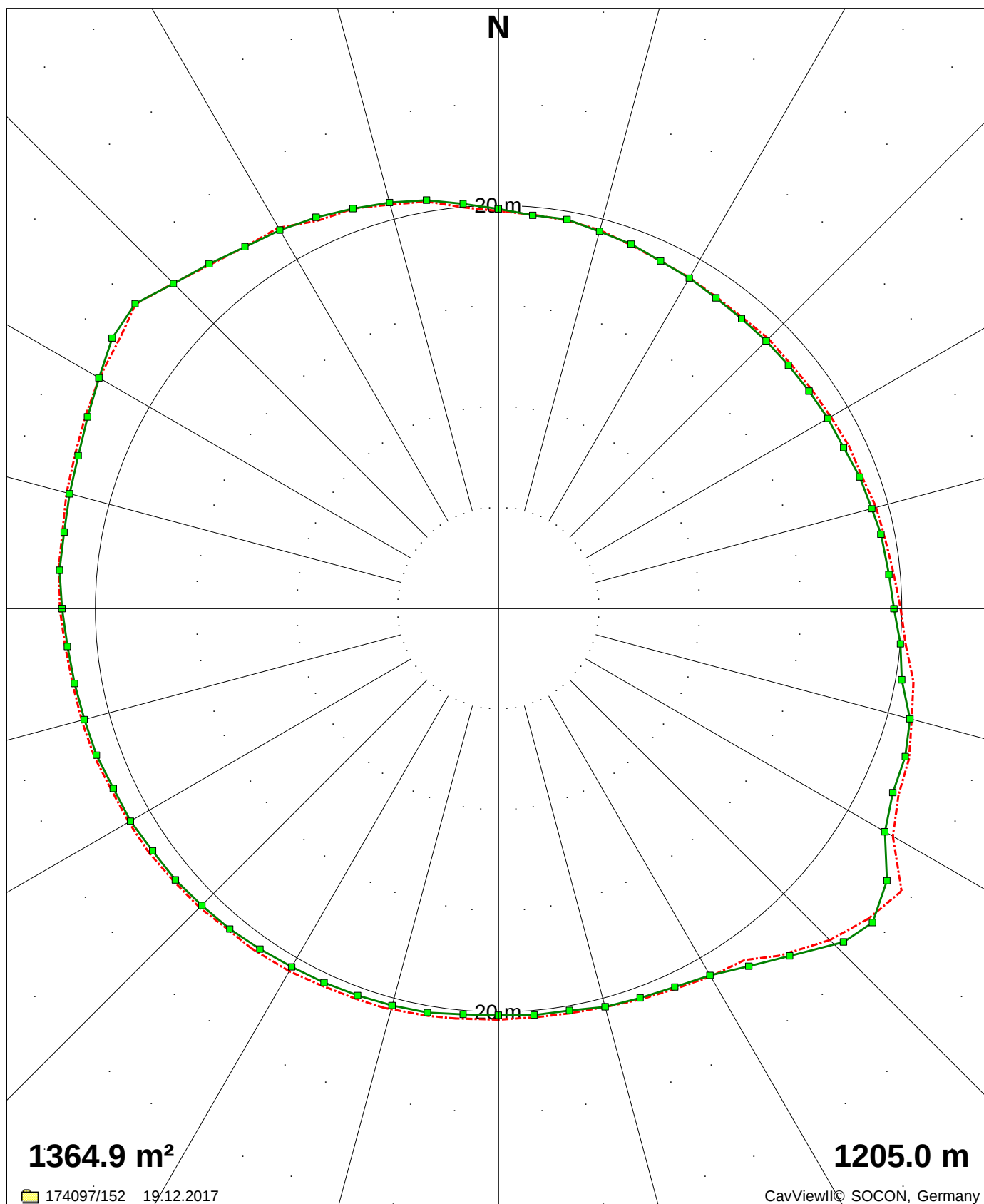
--- (19.05.2014) (1364.3 m²)

—■— (19.12.2017) (1352.0 m²)

$d_{\max}$: 47.6 m 130° <--> 310° $r_{\min}$: 18.6 m -> 45° $r_{\sim}$: 20.7 m $r_{\max}$: 24.3 m -> 130°

Heiligerlee K

19.12.2017



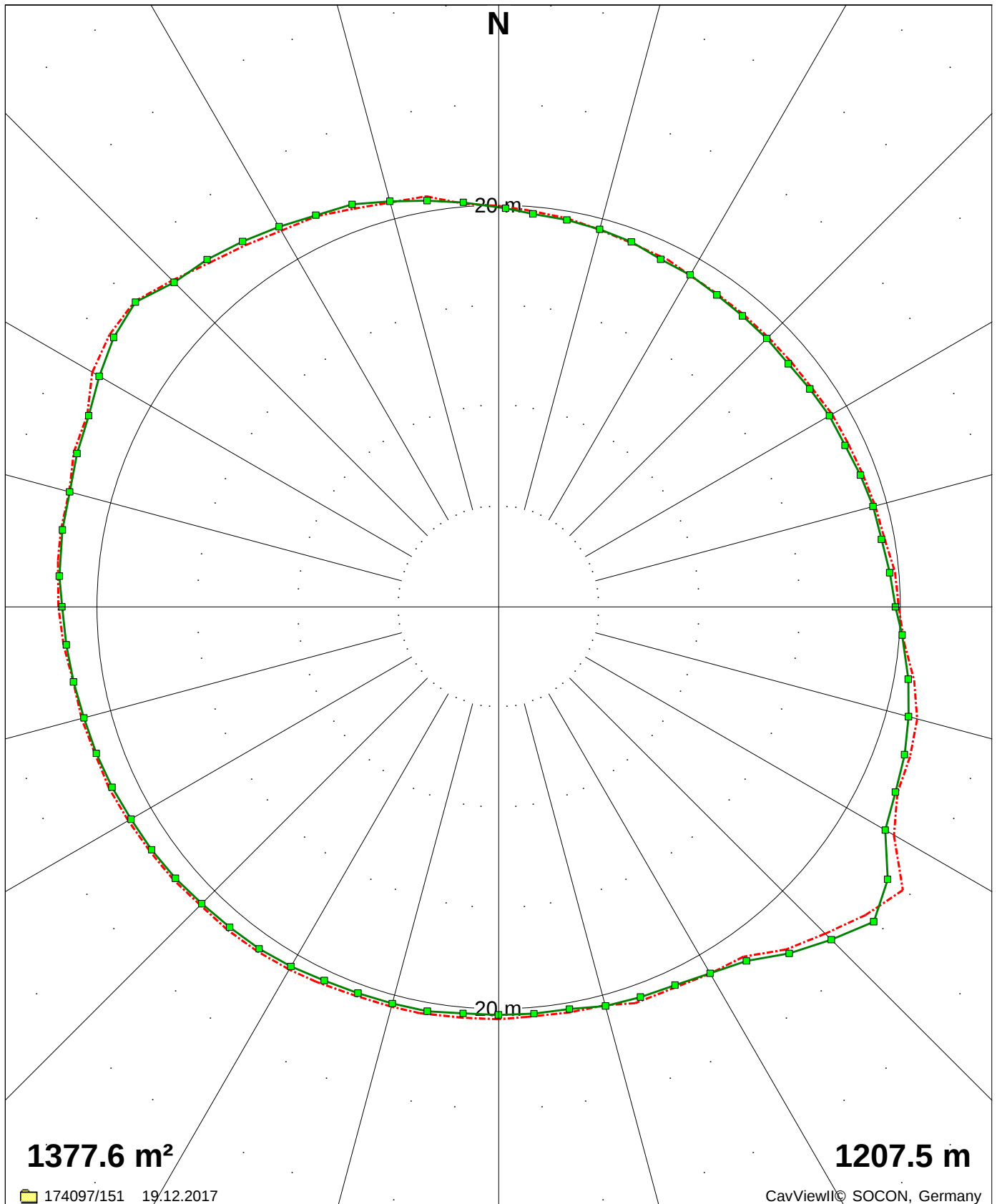
--- (19.05.2014) (1377.1 m²)

— (19.12.2017) (1364.9 m²)

$d_{\max}$: 47.7 m 130° <--> 310° $r_{\min}$: 18.7 m -> 41° $r_{\sim}$: 20.8 m $r_{\max}$: 24.2 m -> 130°

Heiligerlee K

19.12.2017



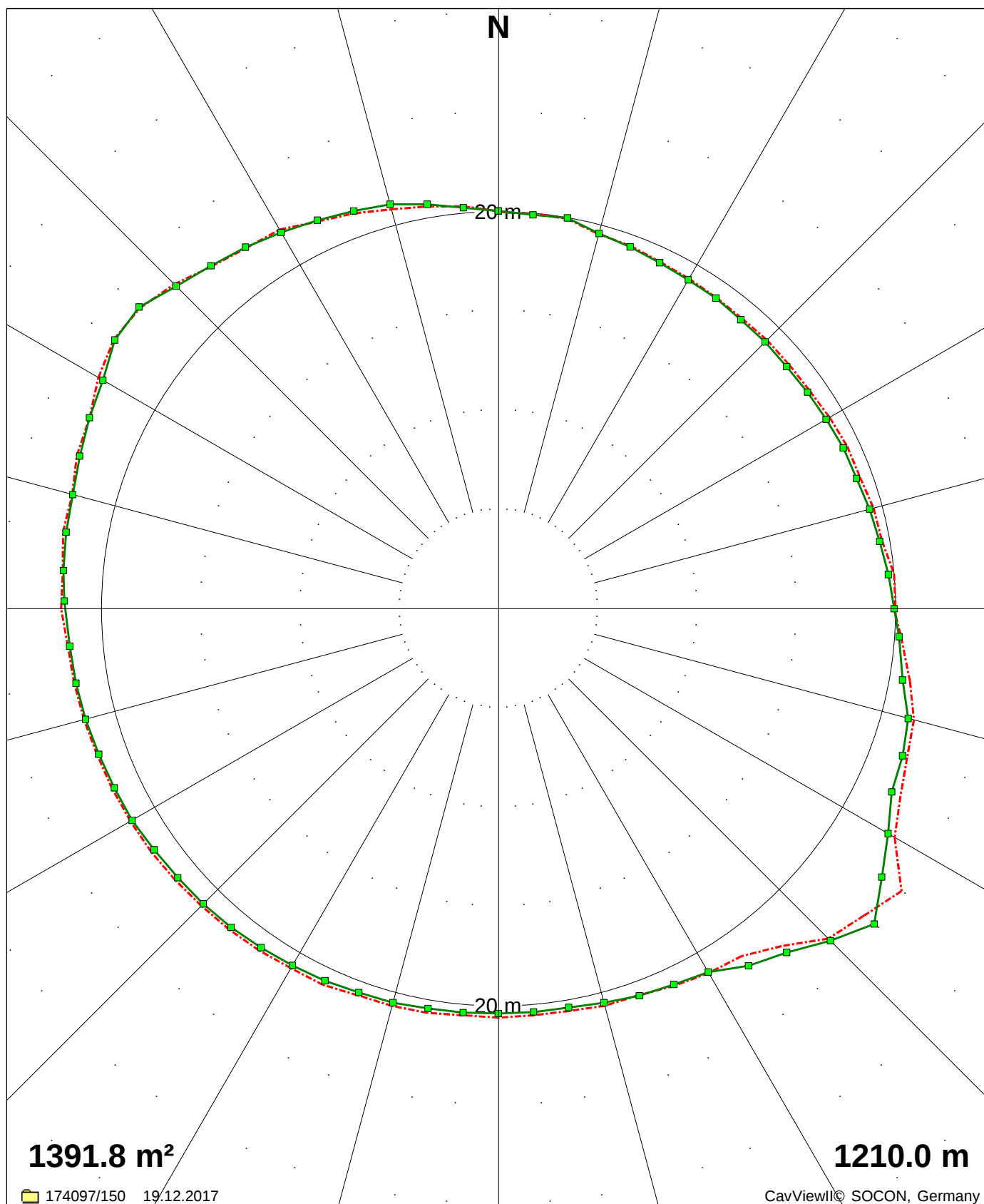
--- (19.05.2014) (1390.3 m²)

—■ (19.12.2017) (1377.6 m²)

$d_{\max}$: 48.0 m 130° <--> 310° $r_{\min}$: 18.8 m -> 48° $r_{\sim}$: 20.9 m $r_{\max}$: 24.4 m -> 130°

Heiligerlee K

19.12.2017



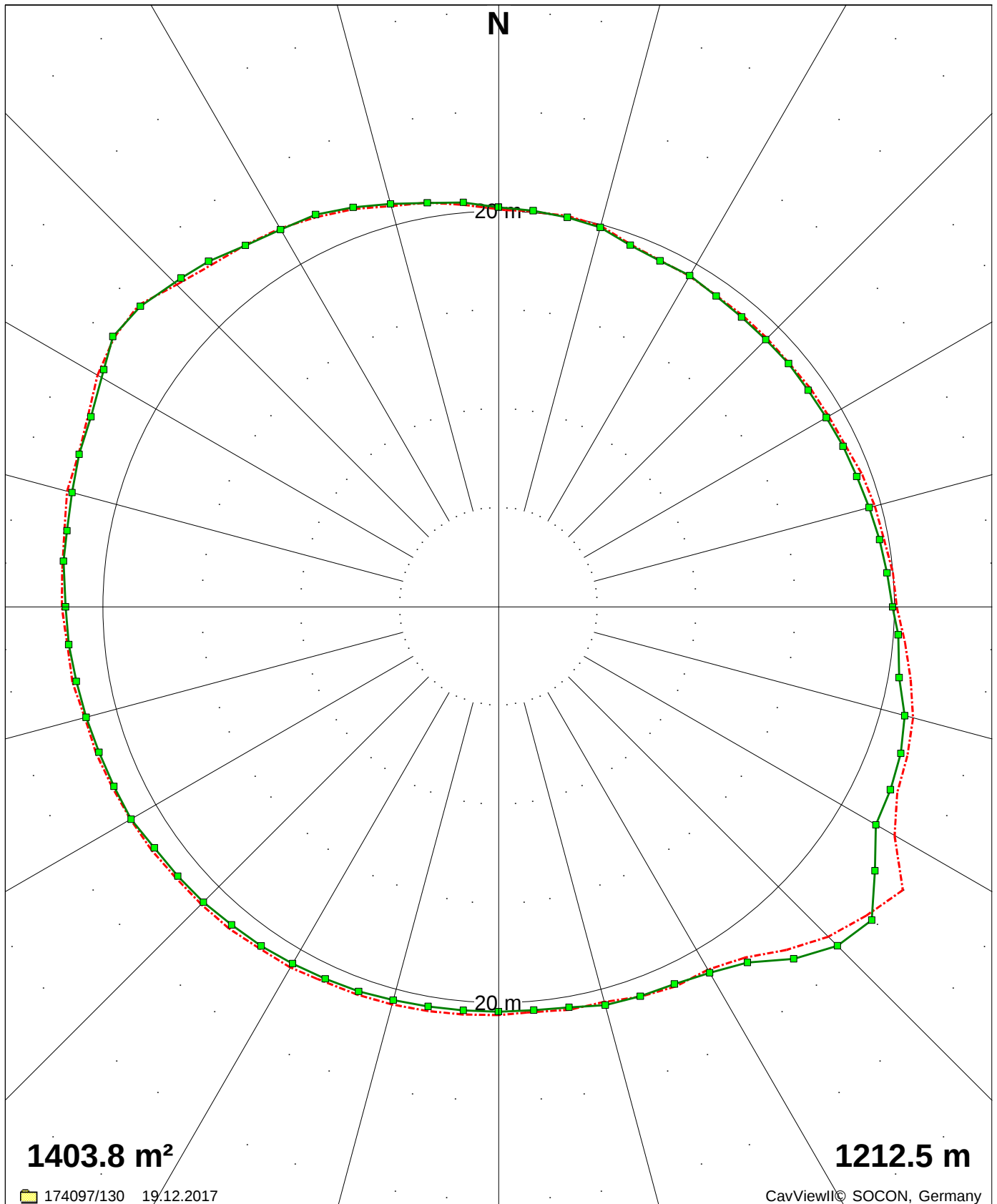
--- (19.05.2014) (1404.6 m²)

— (19.12.2017) (1391.8 m²)

$d_{\max}$: 48.3 m 130° <--> 310° $r_{\min}$: 18.9 m -> 48° $r_{\sim}$: 21.0 m $r_{\max}$: 24.7 m -> 130°

Heiligerlee K

19.12.2017



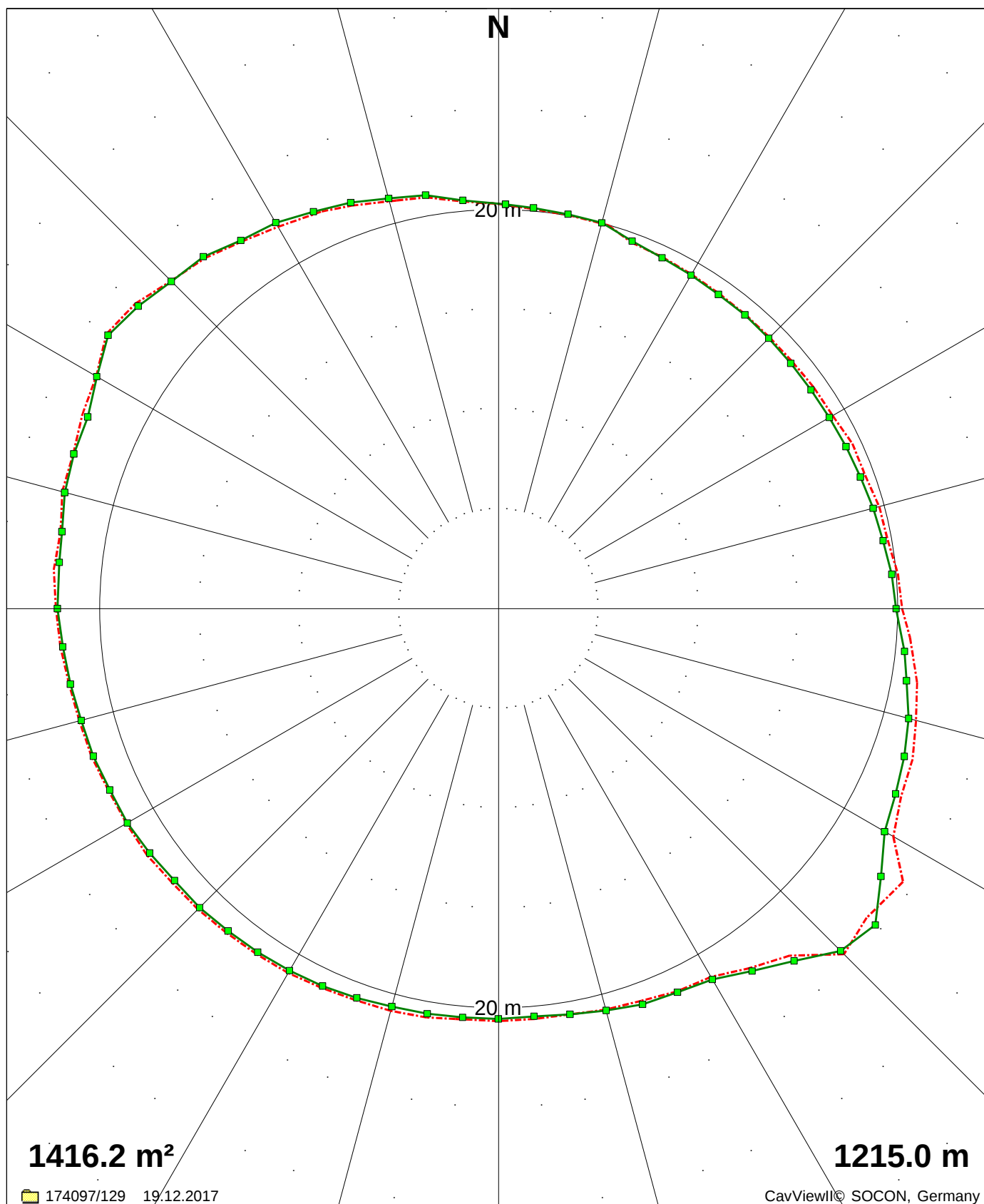
--- (19.05.2014) (1419.0 m²)

—■— (19.12.2017) (1403.8 m²)

$d_{\max}$: 48.2 m 130° <--> 310° $r_{\min}$: 19.1 m -> 42° $r_{\sim}$: 21.1 m $r_{\max}$: 24.6 m -> 130°

Heiligerlee K

19.12.2017



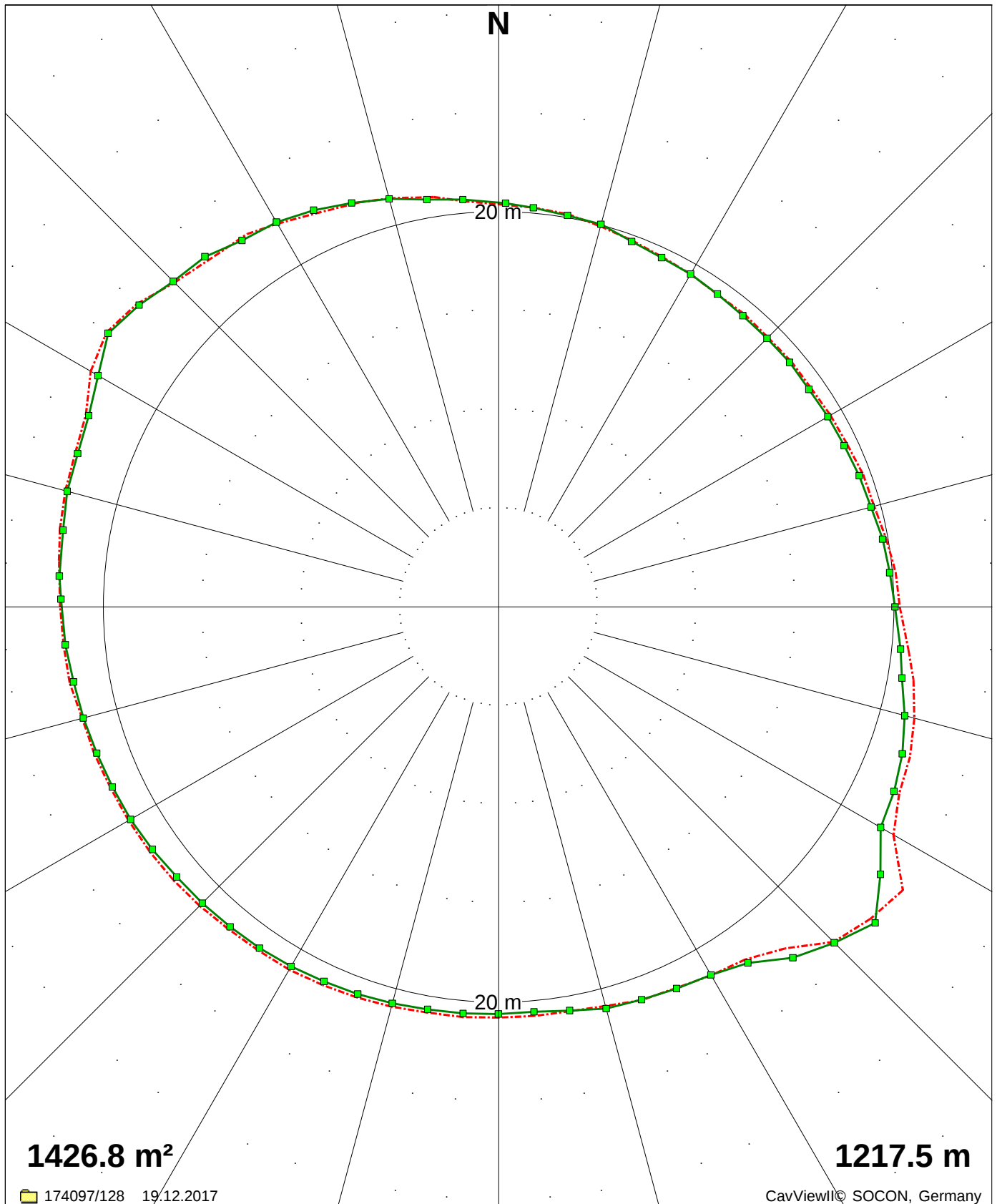
--- (19.05.2014) (1429.7 m²)

— (19.12.2017) (1416.2 m²)

$d_{\max}$: 48.2 m 130° <--> 310° $r_{\min}$: 19.1 m -> 52° $r_{\sim}$: 21.2 m $r_{\max}$: 24.6 m -> 130°

Heiligerlee K

19.12.2017



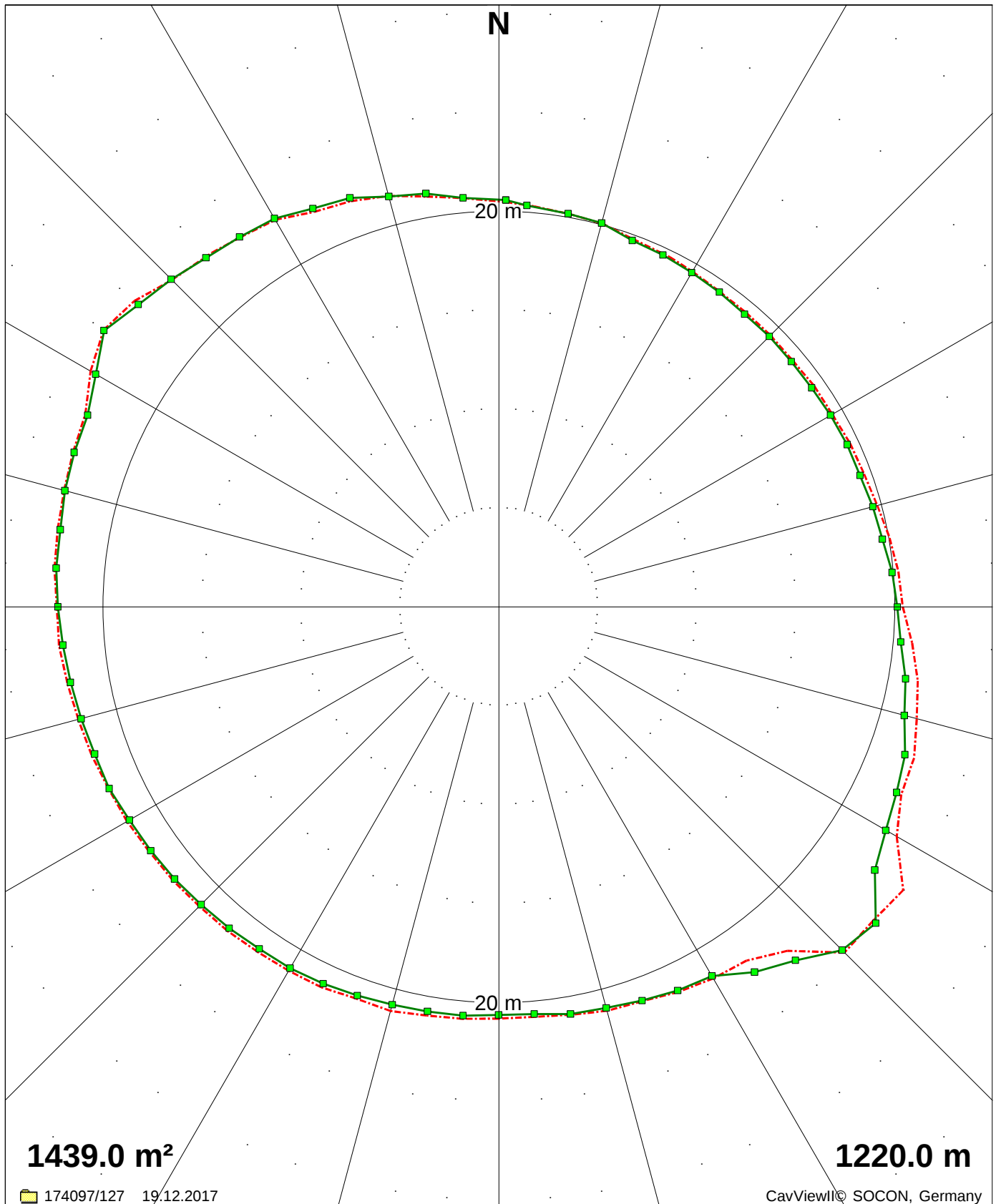
--- (19.05.2014) (1443.3 m²)

—■ (19.12.2017) (1426.8 m²)

$d_{\max}$: 48.6 m 130° <--> 310° $r_{\min}$: 19.2 m -> 53° $r_{\sim}$: 21.3 m $r_{\max}$: 24.9 m -> 130°

Heiligerlee K

19.12.2017



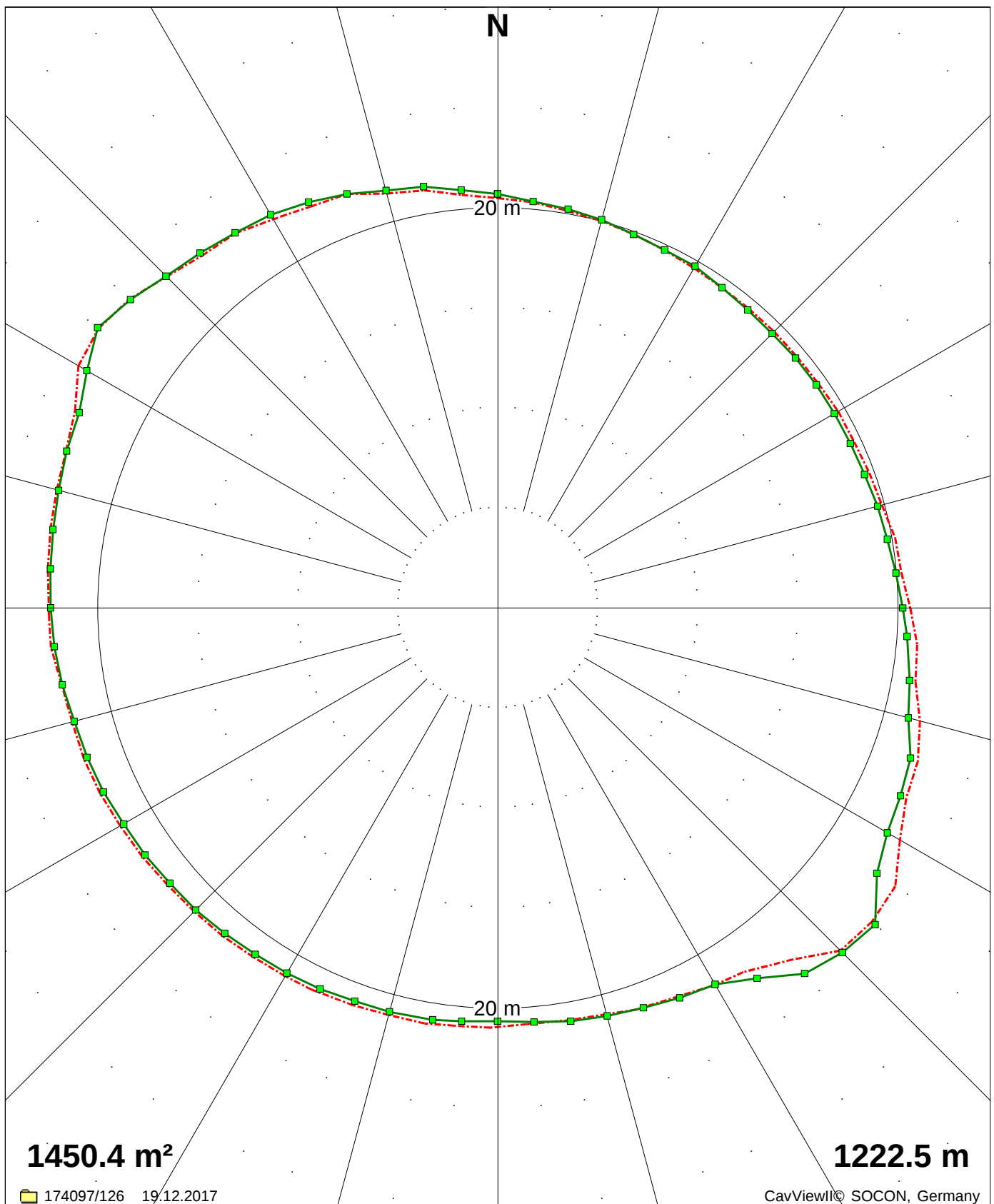
--- (19.05.2014) (1457.7 m²)

— (19.12.2017) (1439.0 m²)

d_{max}: 48.6 m 130° <--> 310° r_{min}: 19.3 m -> 51° r~: 21.4 m r_{max}: 24.9 m -> 130°

Heiligerlee K

19.12.2017



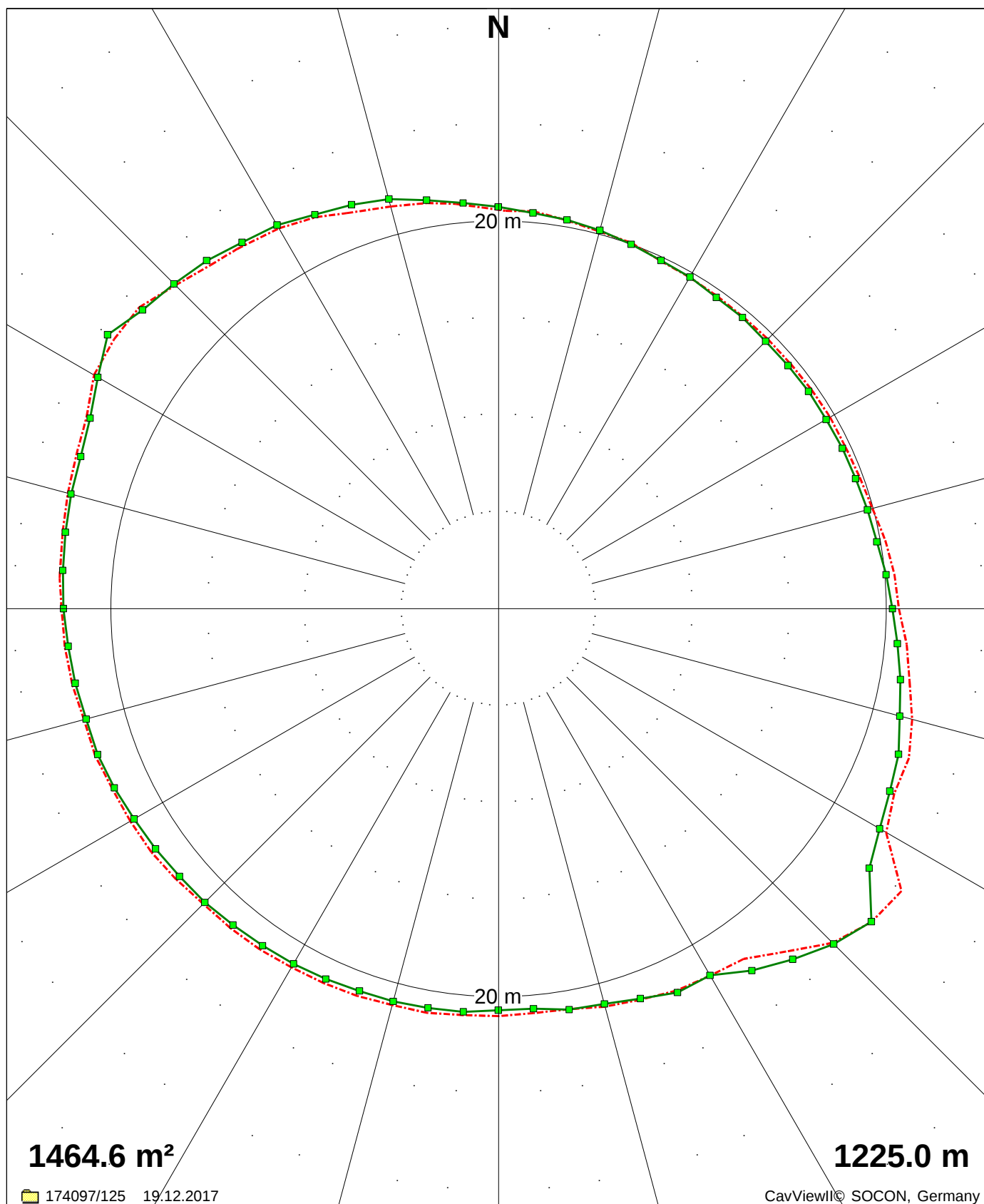
--- (19.05.2014) (1463.4 m²)

—■— (19.12.2017) (1450.4 m²)

$d_{\max}$: 48.6 m 130° <--> 310° $r_{\min}$: 19.4 m -> 43° $r_{\sim}$: 21.5 m $r_{\max}$: 24.6 m -> 130°

Heiligerlee K

19.12.2017



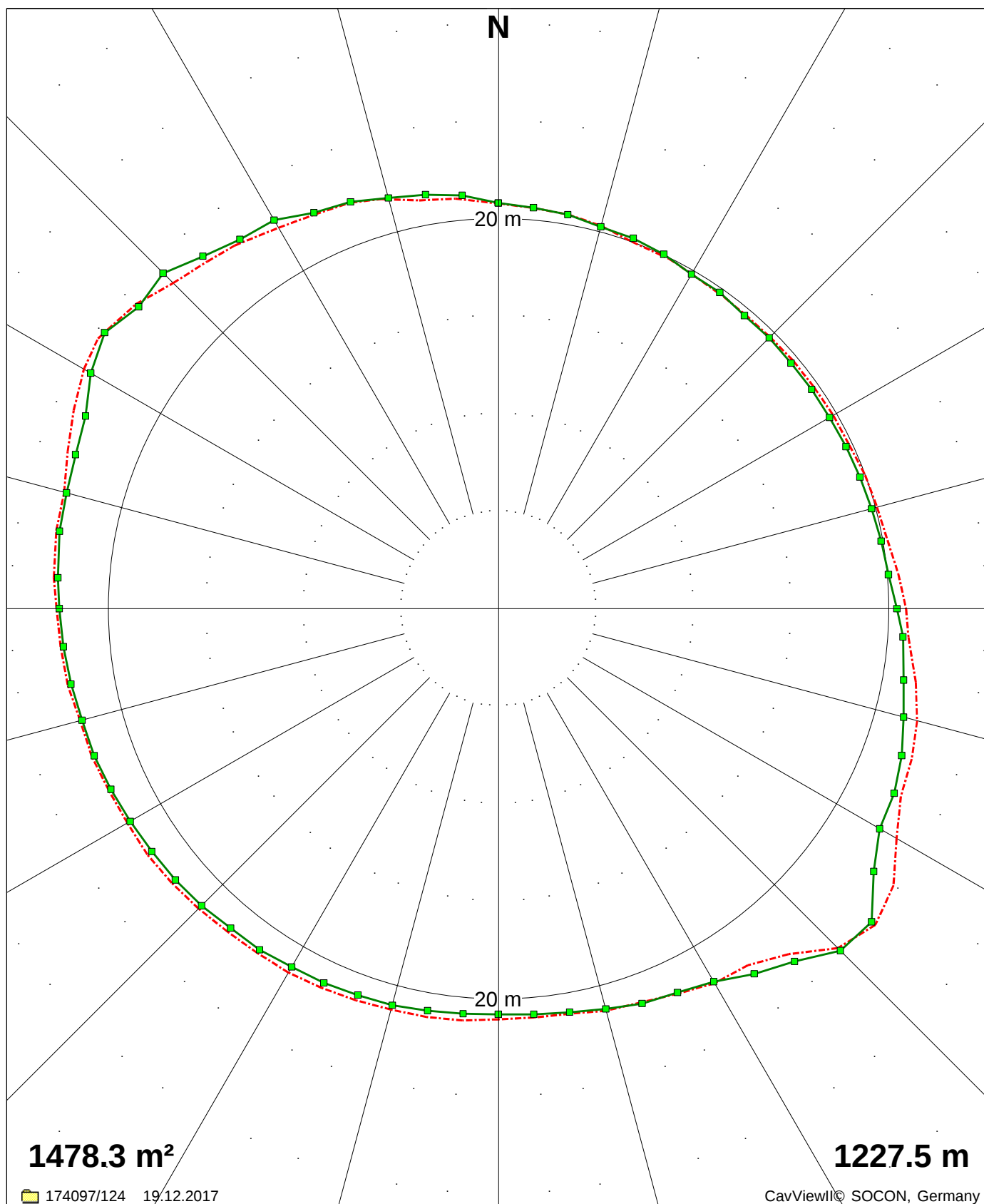
--- (19.05.2014) (1482.0 m²)

—■— (19.12.2017) (1464.6 m²)

d_{max}: 49.1 m 130° <--> 310° r_{min}: 19.5 m -> 46° r~: 21.6 m r_{max}: 25.1 m -> 130°

Heiligerlee K

19.12.2017



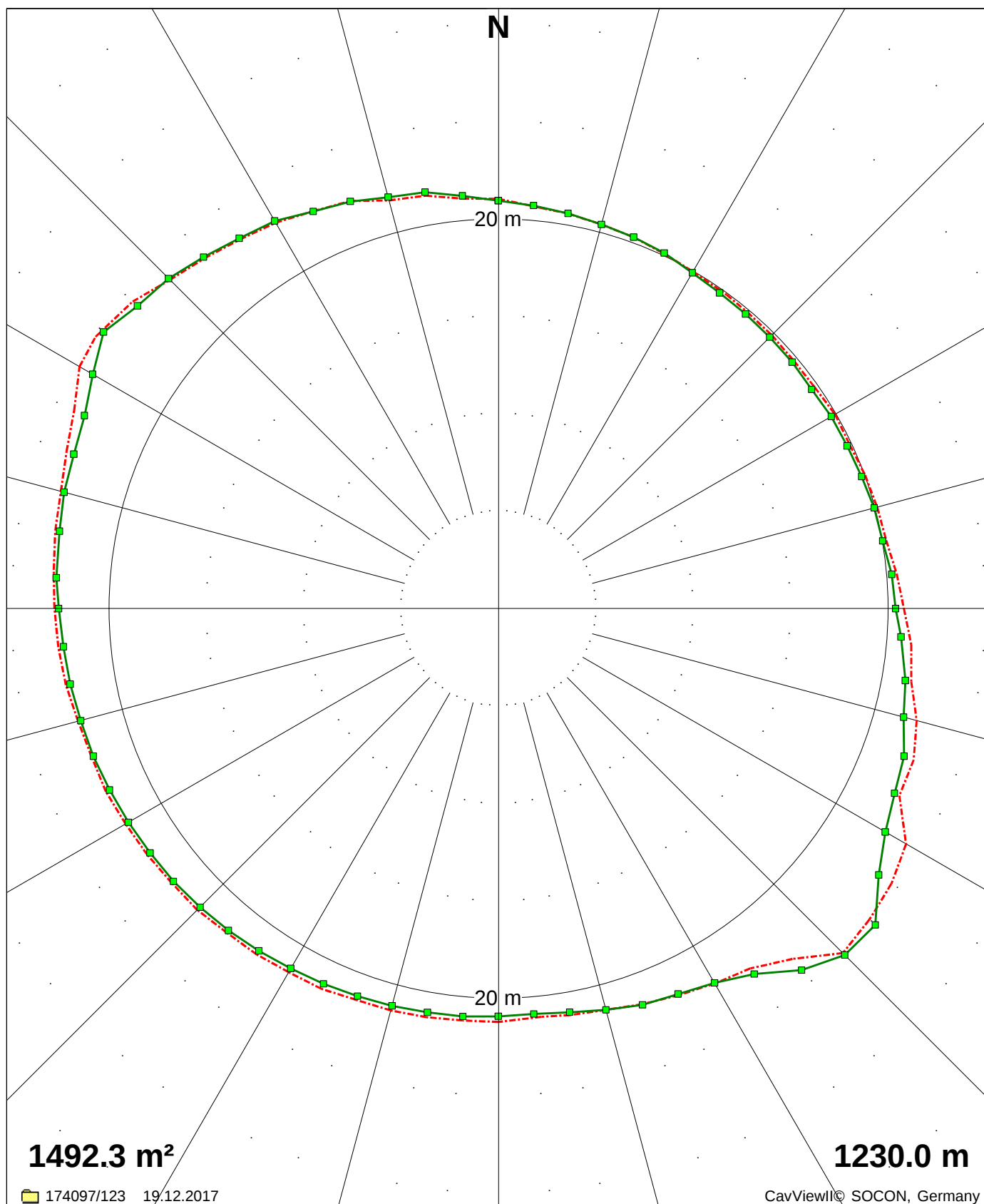
--- (19.05.2014) (1498.9 m²)

—■— (19.12.2017) (1478.3 m²)

$d_{\max}$: 49.1 m 135° <--> 315° $r_{\min}$: 19.6 m -> 51° $r_{\sim}$: 21.7 m $r_{\max}$: 25.0 m -> 130°

Heiligerlee K

19.12.2017



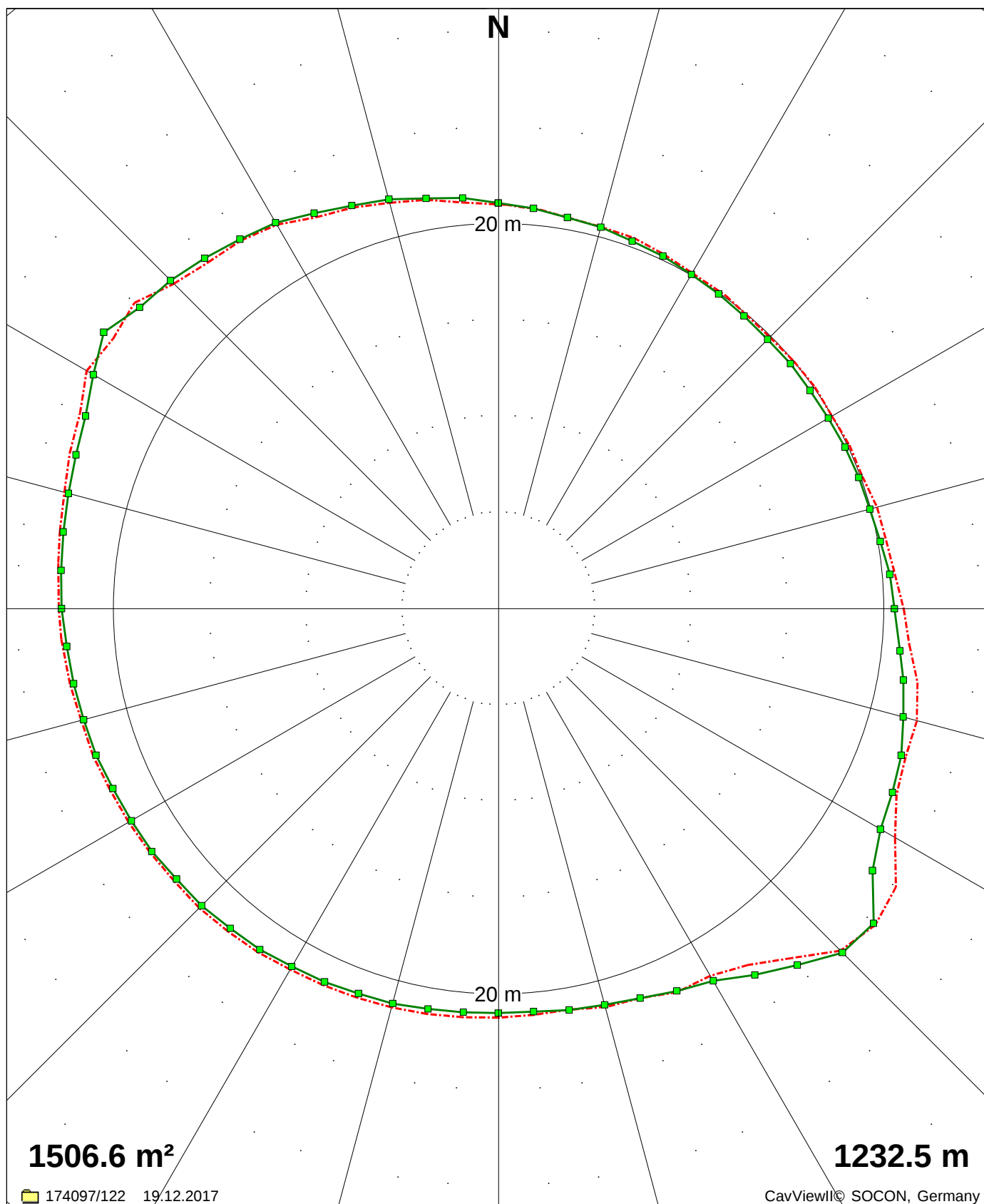
--- (19.05.2014) (1513.8 m²)

—■ (19.12.2017) (1492.3 m²)

$d_{\max}$: 49.4 m 130° <--> 310° $r_{\min}$: 19.6 m -> 53° $r_{\sim}$: 21.8 m $r_{\max}$: 25.2 m -> 130°

Heiligerlee K

19.12.2017



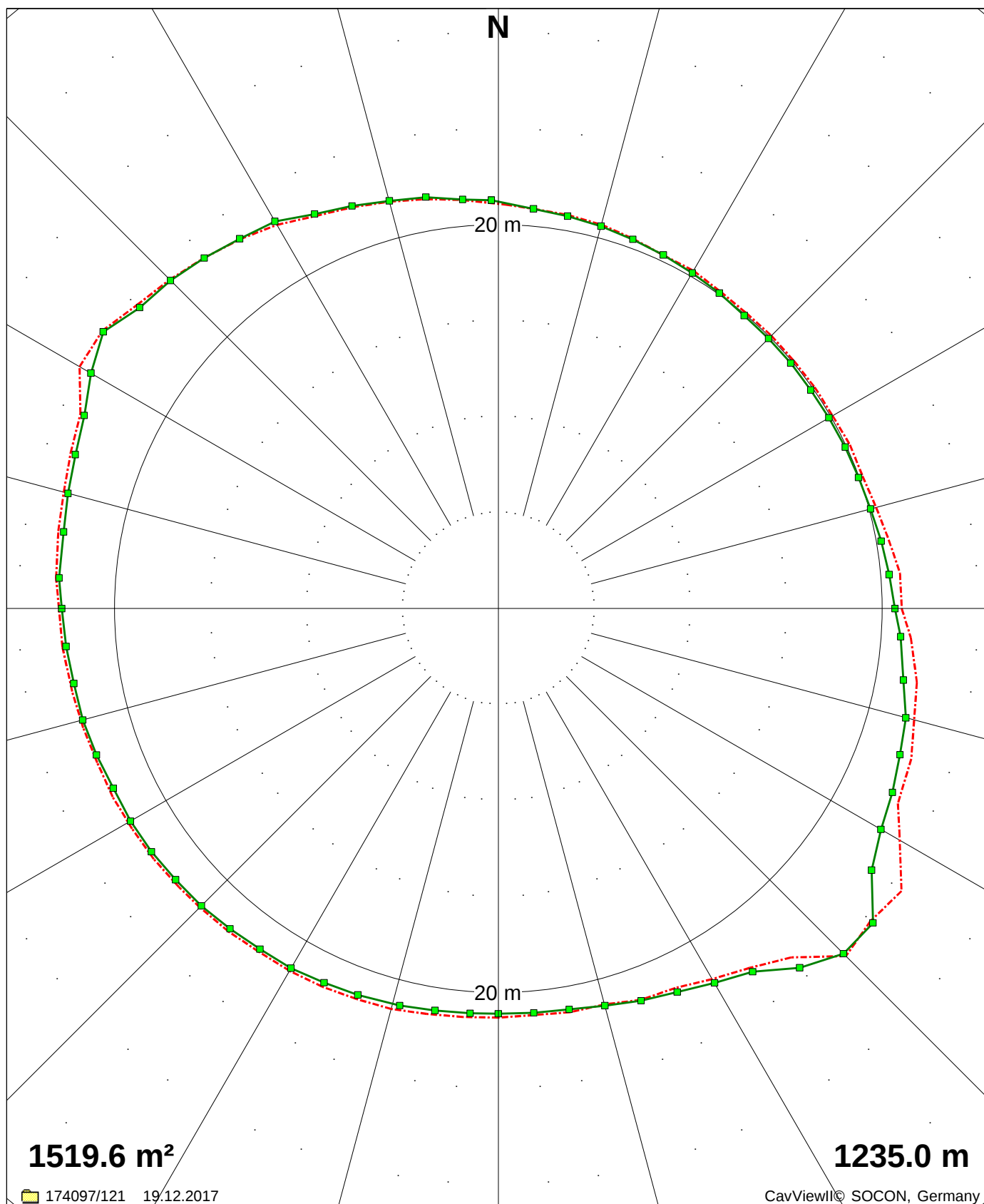
--- (19.05.2014) (1526.5 m²)

—■ (19.12.2017) (1506.6 m²)

d_{max}: 49.8 m 130° <--> 310° r_{min}: 19.7 m -> 52° r~: 21.9 m r_{max}: 25.4 m -> 130°

Heiligerlee K

19.12.2017



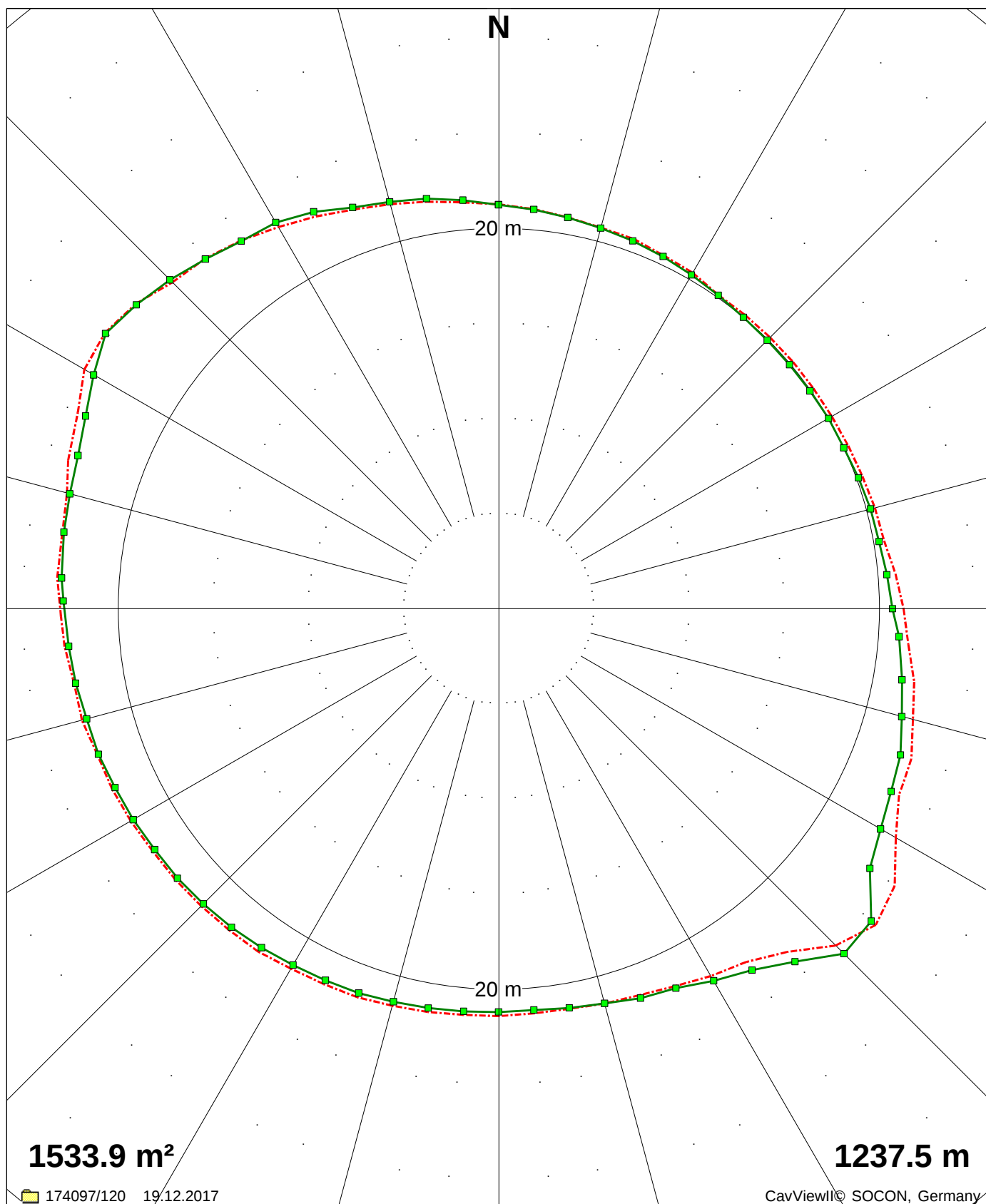
--- (19.05.2014) (1544.6 m²)

—■— (19.12.2017) (1519.6 m²)

d_{max}: 49.8 m 130° <--> 310° r_{min}: 19.8 m -> 56° r~: 22.0 m r_{max}: 25.5 m -> 130°

Heiligerlee K

19.12.2017



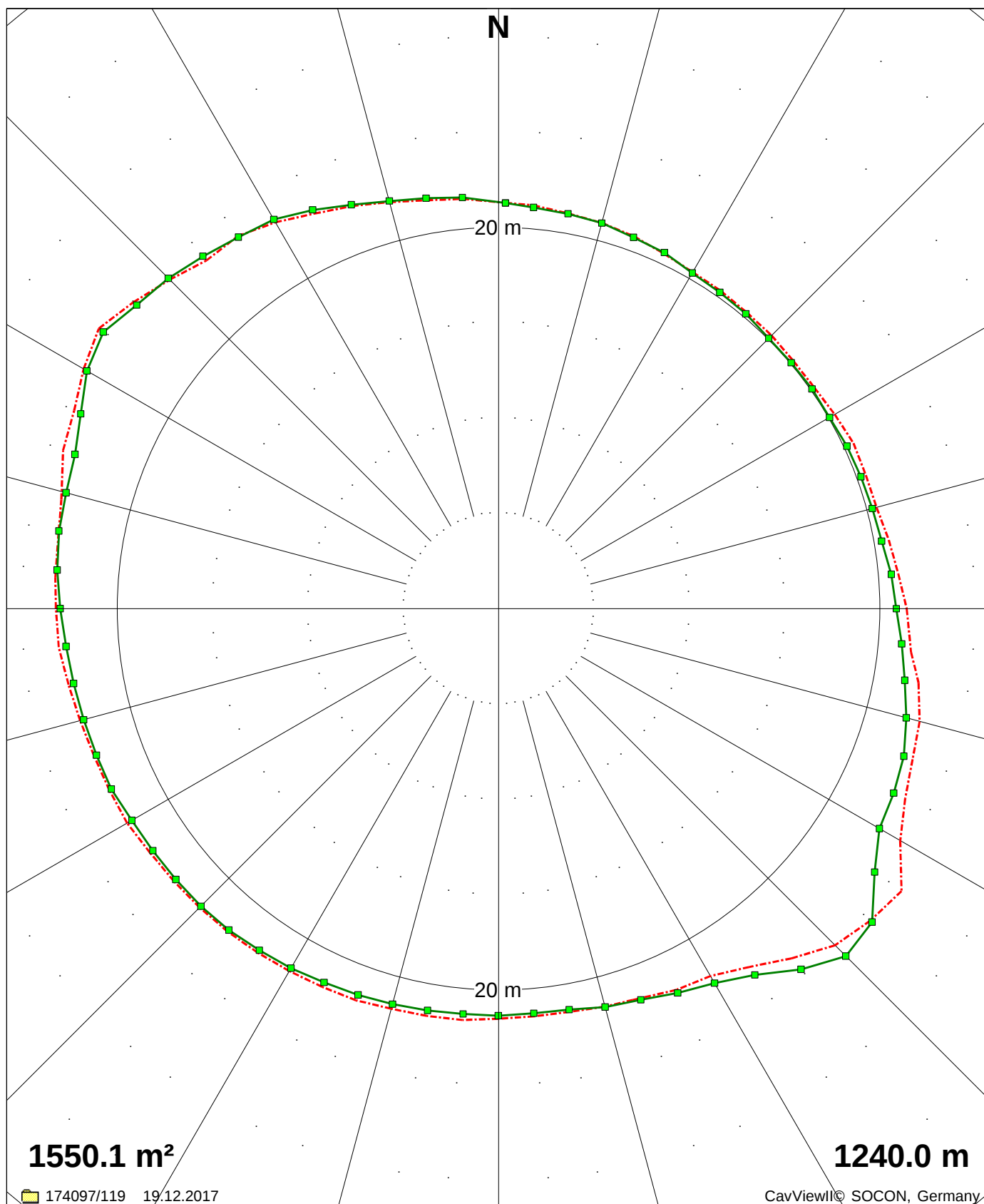
--- (19.05.2014) (1556.0 m²)

—■— (19.12.2017) (1533.9 m²)

d_{max}: 50.4 m 130° <--> 310° r_{min}: 19.9 m -> 47° r~: 22.1 m r_{max}: 25.7 m -> 135°

Heiligerlee K

19.12.2017



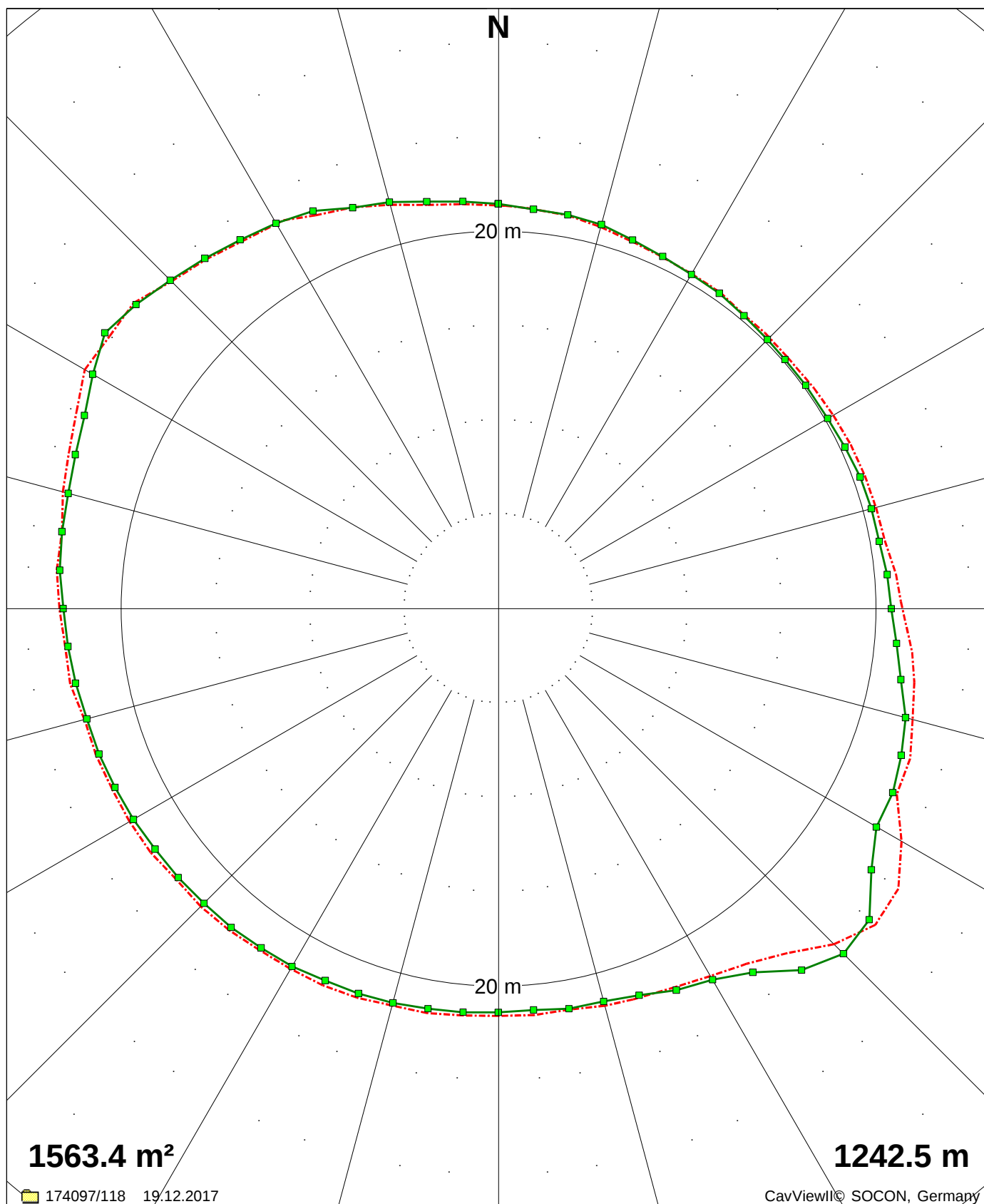
--- (19.05.2014) (1572.9 m²)

—■— (19.12.2017) (1550.1 m²)

$d_{\max}$: 50.3 m 130° <--> 310° $r_{\min}$: 20.0 m -> 46° $r_{\sim}$: 22.2 m $r_{\max}$: 25.8 m -> 135°

Heiligerlee K

19.12.2017



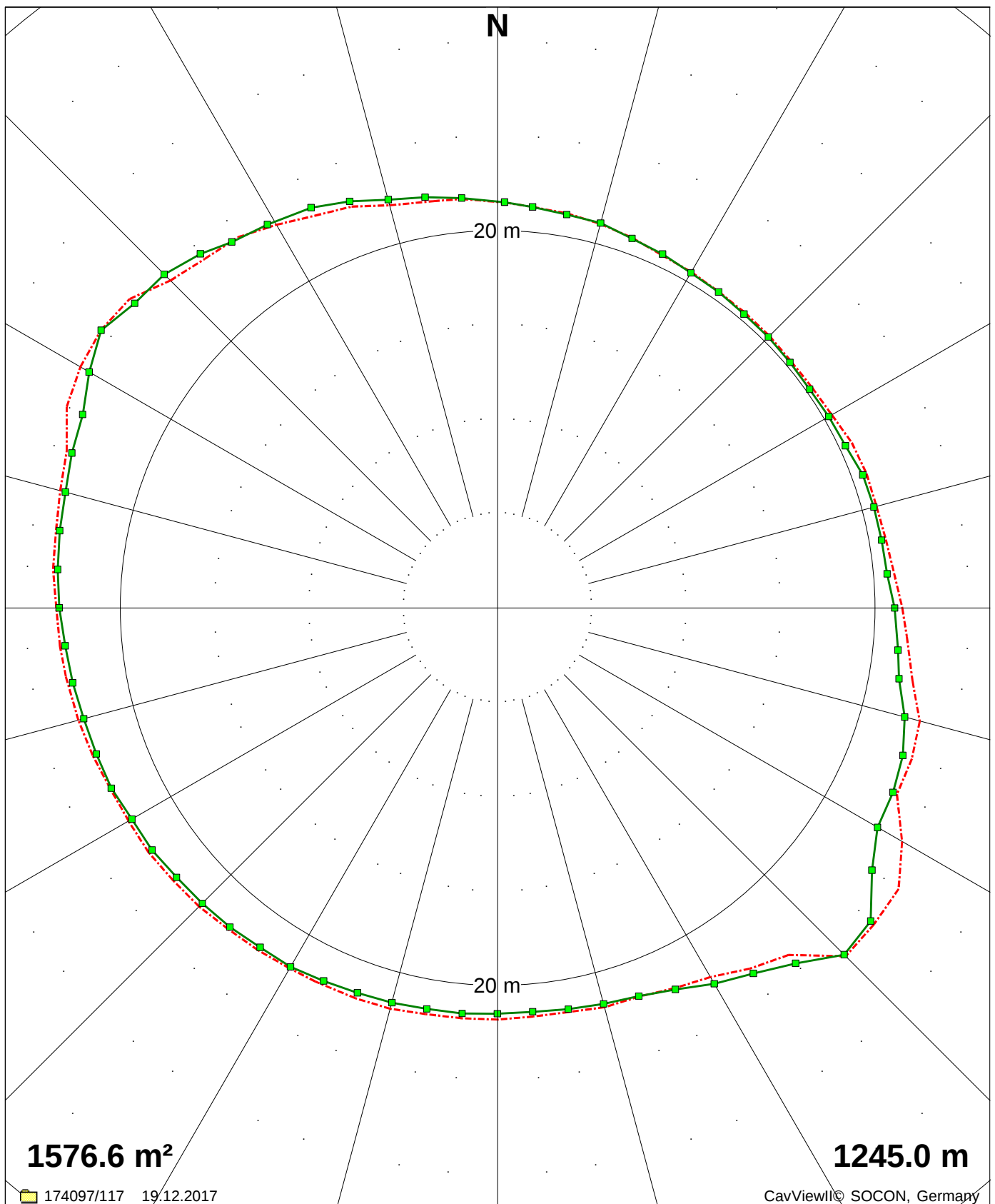
--- (19.05.2014) (1585.9 m²)

—■ (19.12.2017) (1563.4 m²)

$d_{\max}$: 50.7 m 130° <--> 310° $r_{\min}$: 20.1 m -> 50° $r_{\sim}$: 22.3 m $r_{\max}$: 25.9 m -> 135°

Heiligerlee K

19.12.2017



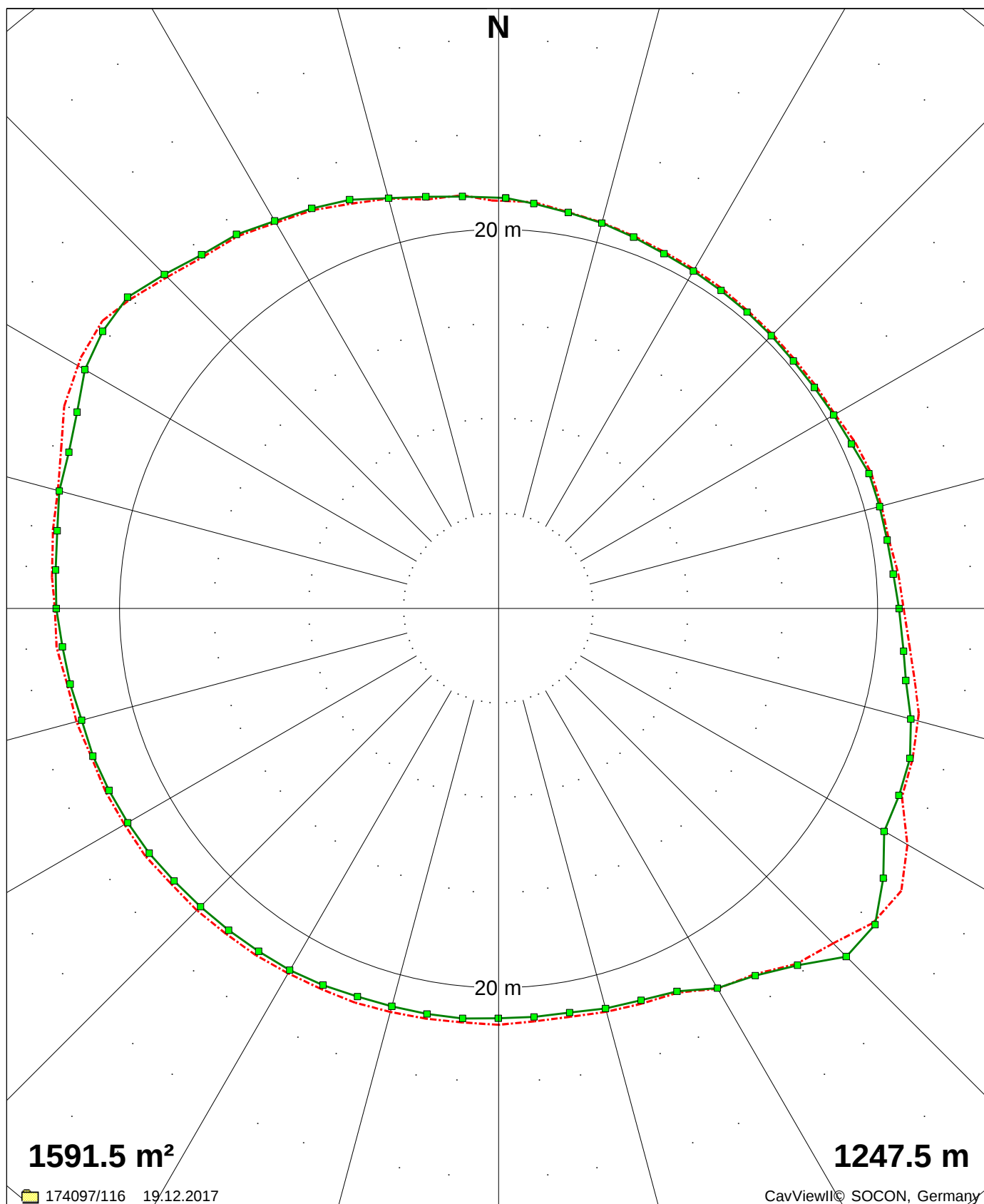
--- (19.05.2014) (1602.4 m²)

—■ (19.12.2017) (1576.6 m²)

$d_{\max}$: 51.0 m 135° <--> 315° $r_{\min}$: 20.2 m -> 52° $r_{\sim}$: 22.4 m $r_{\max}$: 26.0 m -> 135°

Heiligerlee K

19.12.2017



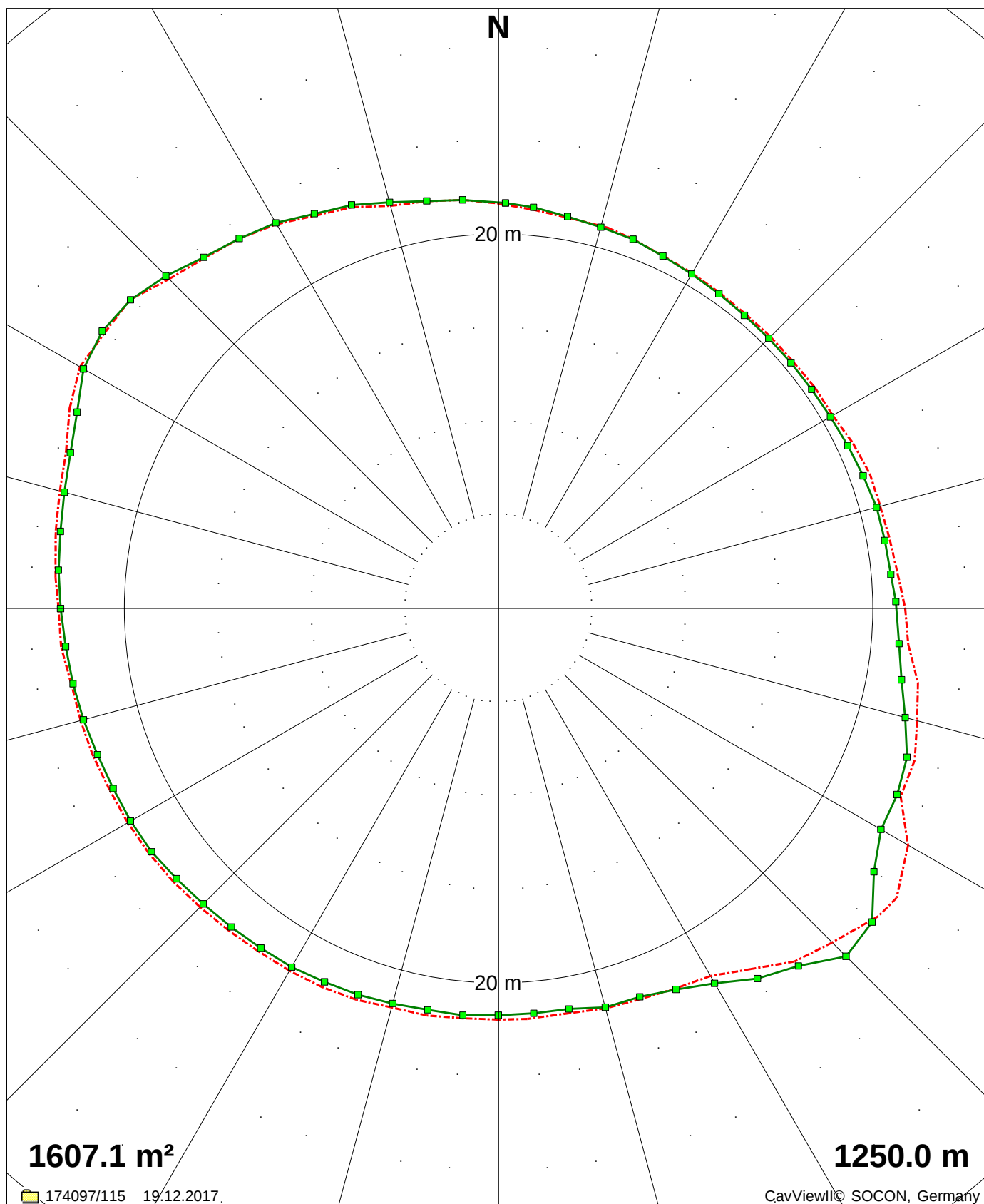
--- (19.05.2014) (1614.0 m²)

—■ (19.12.2017) (1591.5 m²)

$d_{\max}$: 51.5 m 130° <--> 310° $r_{\min}$: 20.3 m -> 51° $r_{\sim}$: 22.5 m $r_{\max}$: 25.9 m -> 135°

Heiligerlee K

19.12.2017



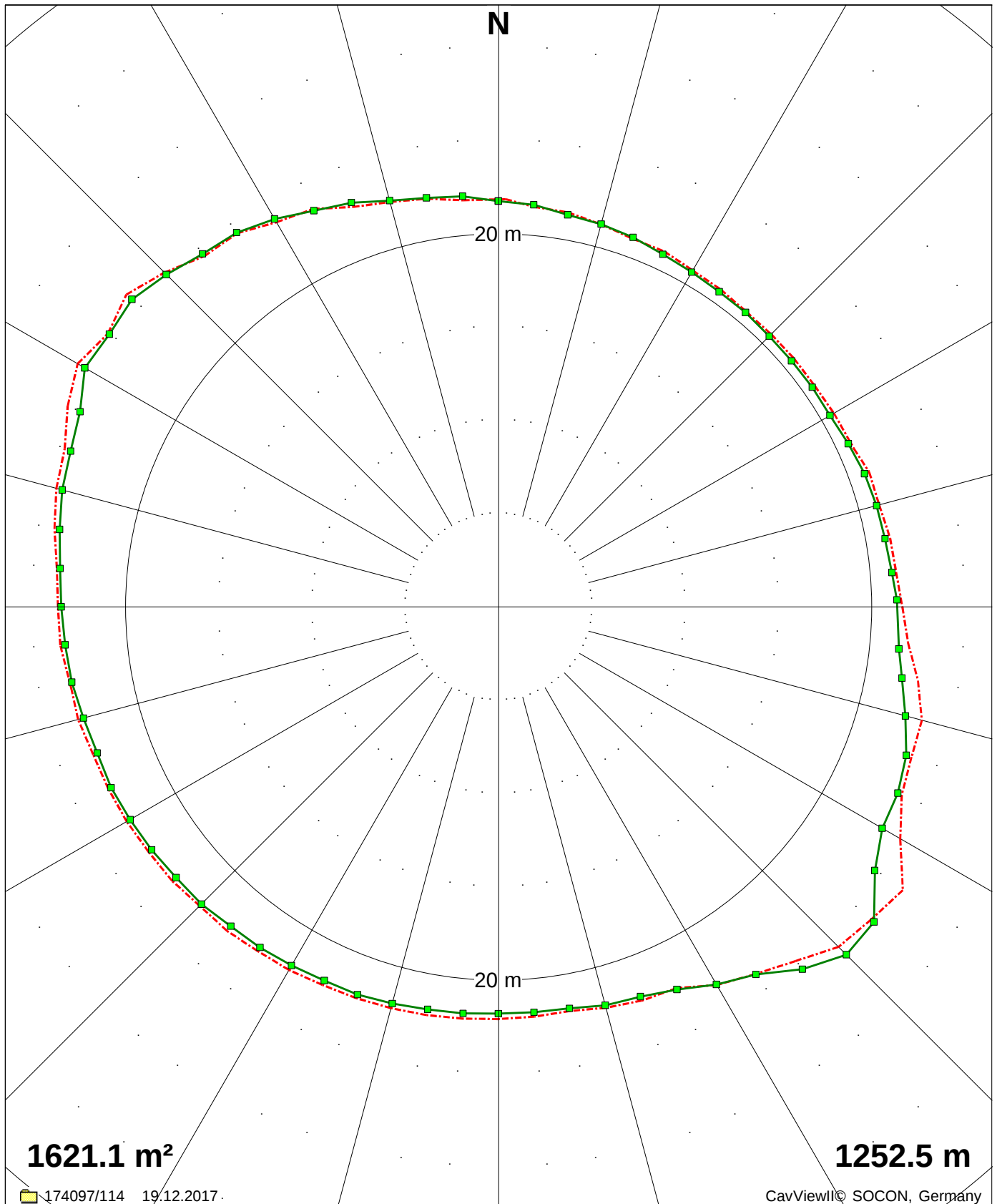
--- (19.05.2014) (1629.8 m²)

—■ (19.12.2017) (1607.1 m²)

$d_{\max}$: 51.7 m 130° <--> 310° $r_{\min}$: 20.4 m -> 47° $r_{\sim}$: 22.6 m $r_{\max}$: 26.3 m -> 135°

Heiligerlee K

19.12.2017



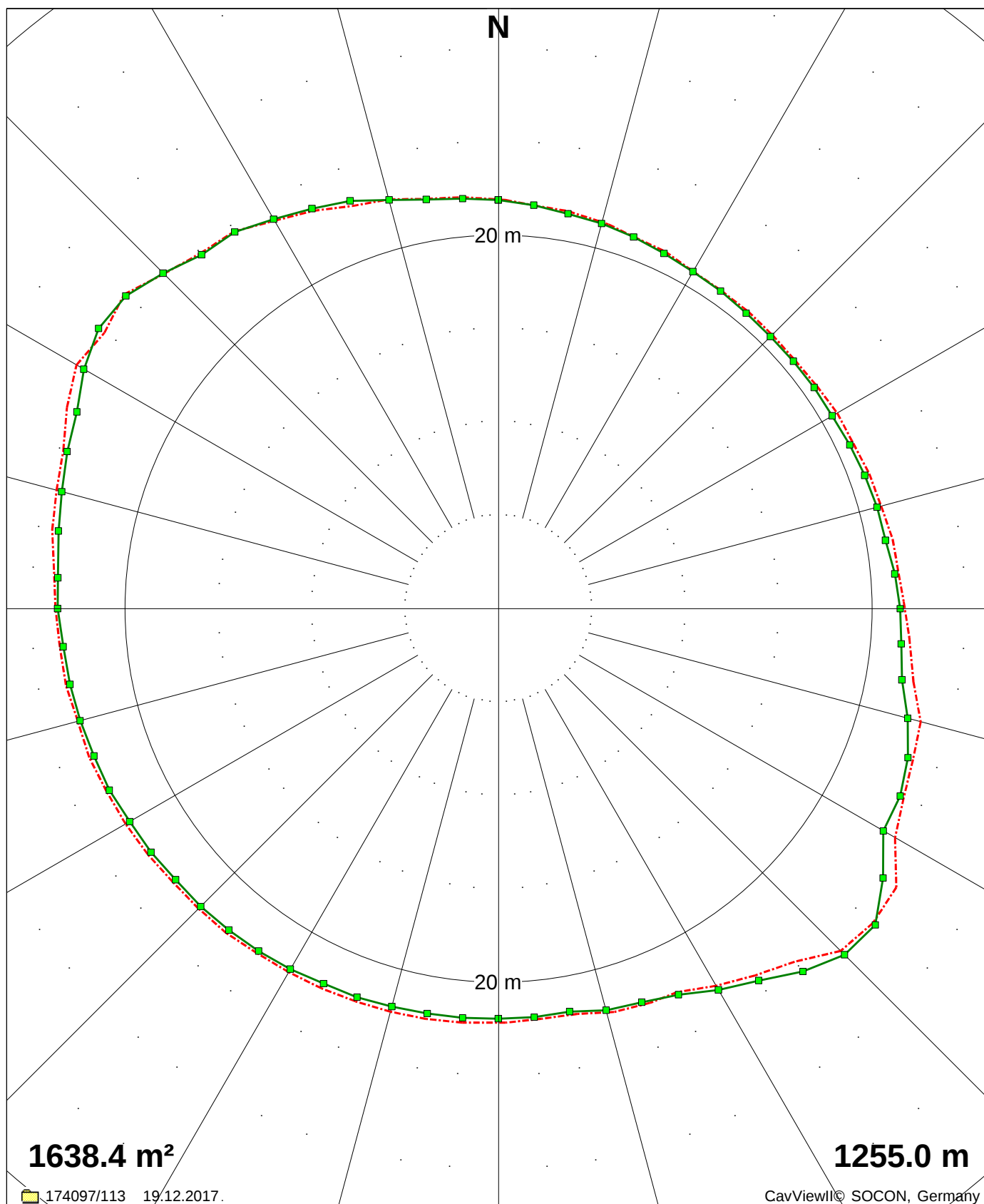
--- (19.05.2014) (1649.6 m²)

—■— (19.12.2017) (1621.1 m²)

$d_{\max}$: 51.9 m 130° <--> 310° $r_{\min}$: 20.5 m -> 47° $r_{\sim}$: 22.7 m $r_{\max}$: 26.3 m -> 135°

Heiligerlee K

19.12.2017



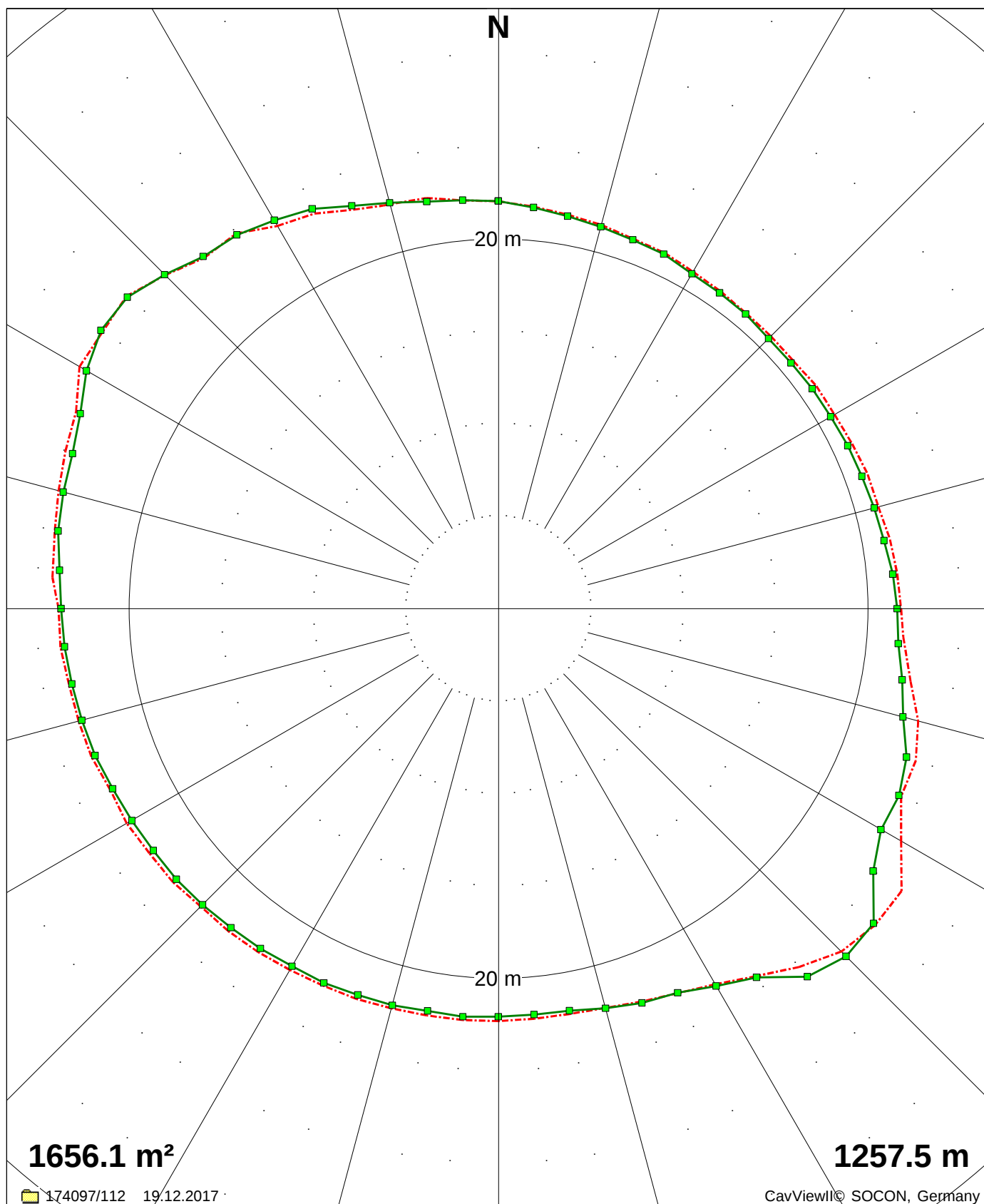
--- (19.05.2014) (1660.3 m²)

—■— (19.12.2017) (1638.4 m²)

$d_{\max}$: 52.4 m 130° <--> 310° $r_{\min}$: 20.6 m -> 46° $r_{\sim}$: 22.8 m $r_{\max}$: 26.3 m -> 130°

Heiligerlee K

19.12.2017



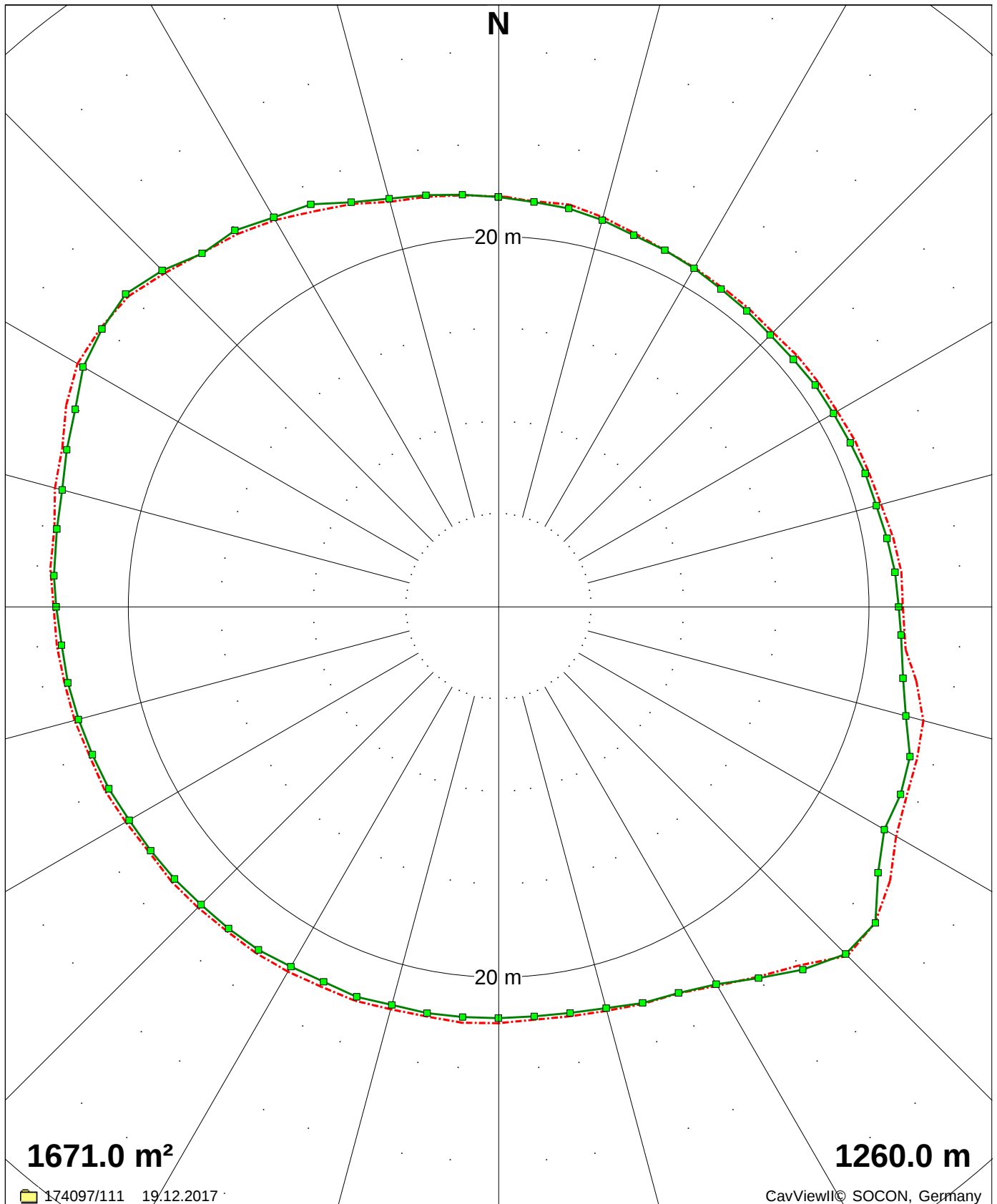
--- (19.05.2014) (1681.8 m²)

—■— (19.12.2017) (1656.1 m²)

$d_{\max}$: 52.7 m 130° <--> 310° $r_{\min}$: 20.6 m -> 47° $r_{\sim}$: 23.0 m $r_{\max}$: 26.6 m -> 135°

Heiligerlee K

19.12.2017



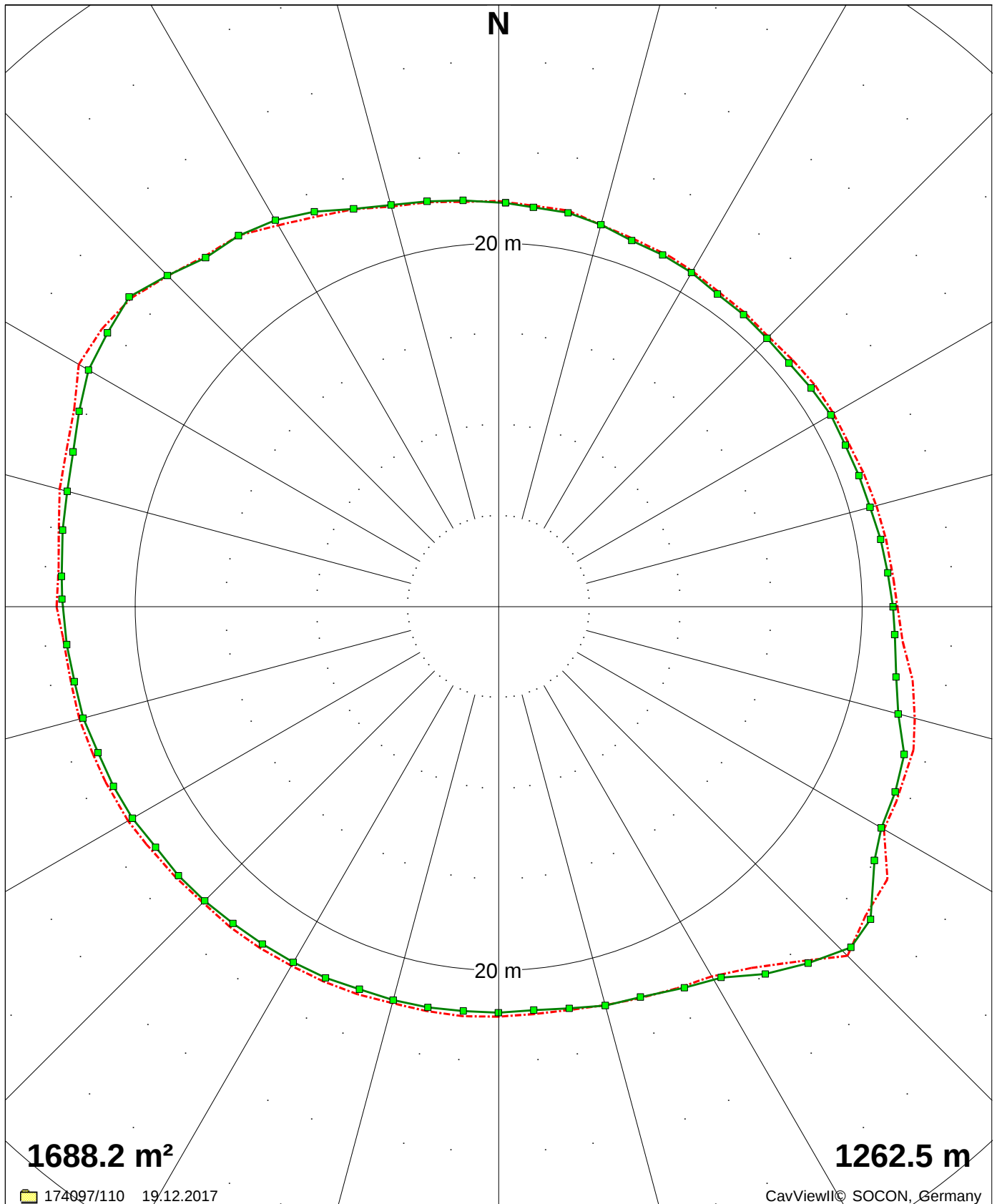
--- (19.05.2014) (1696.2 m²)

—■— (19.12.2017) (1671.0 m²)

$d_{\max}$: 52.9 m 130° <--> 310° $r_{\min}$: 20.7 m -> 46° $r_{\sim}$: 23.1 m $r_{\max}$: 26.6 m -> 130°

Heiligerlee K

19.12.2017



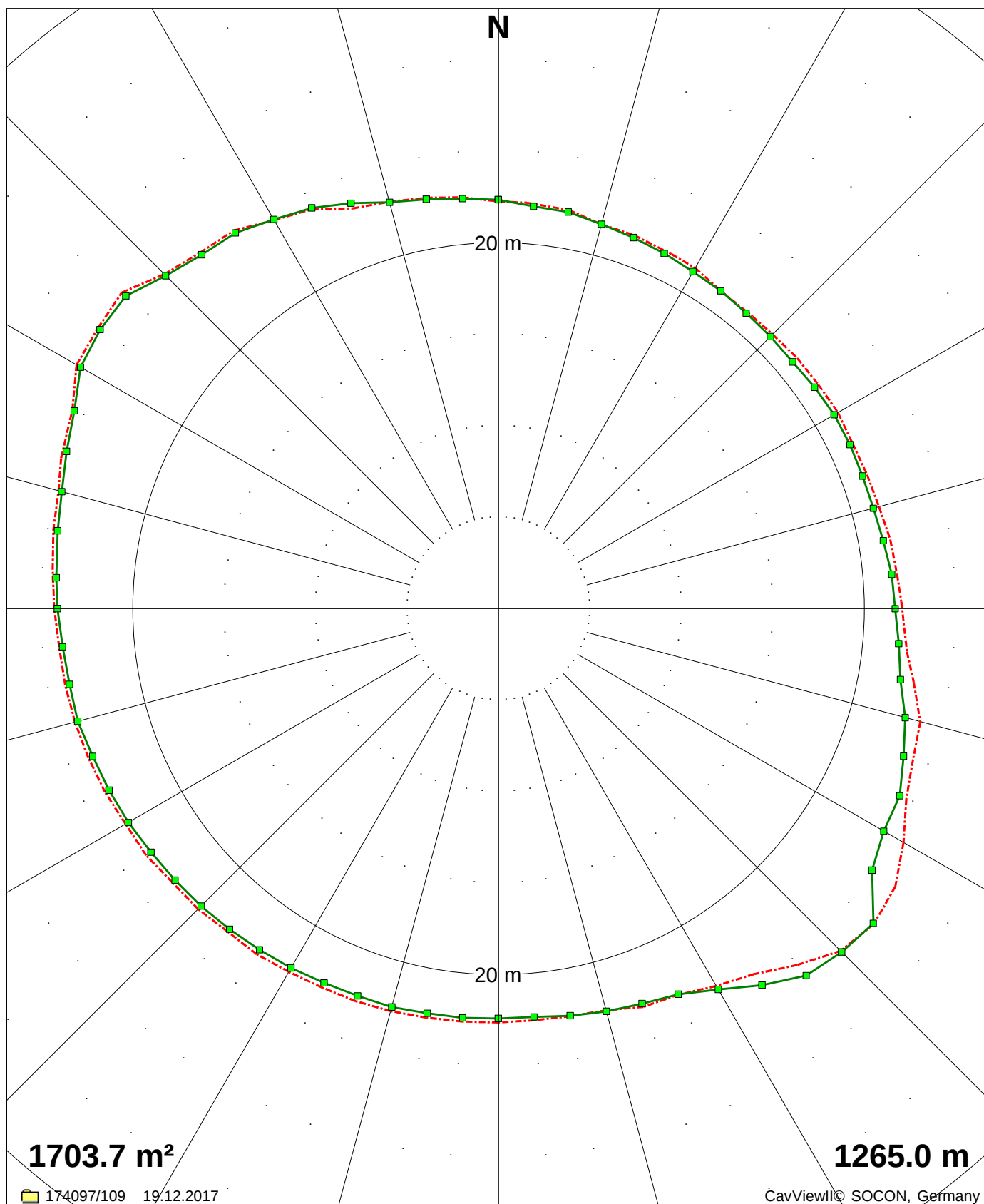
--- (19.05.2014) (1713.9 m²)

—■ (19.12.2017) (1688.2 m²)

d_{max}: 53.3 m 130° <--> 310° r_{min}: 20.8 m -> 47° r~: 23.2 m r_{max}: 26.9 m -> 134°

Heiligerlee K

19.12.2017



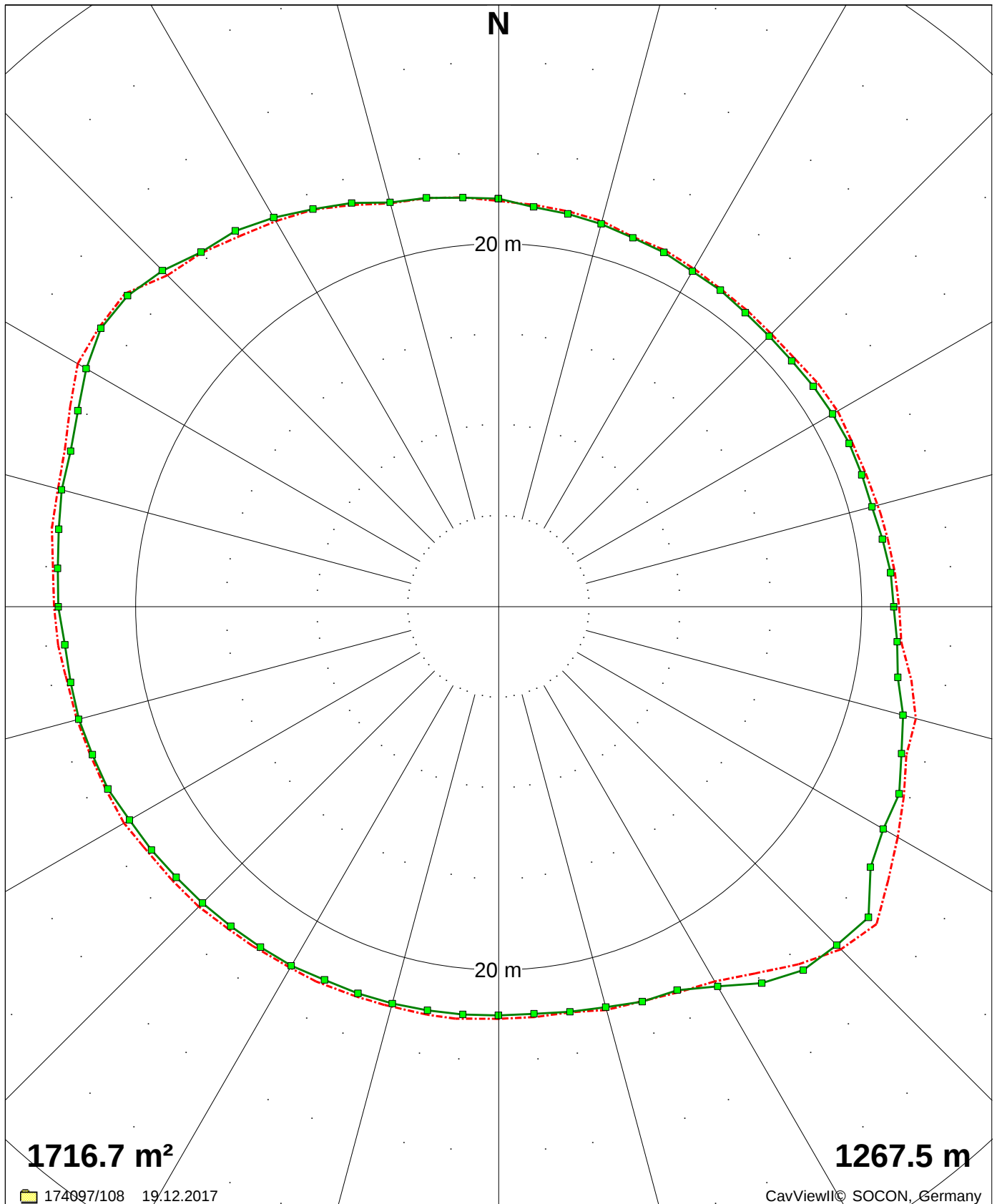
--- (19.05.2014) (1732.3 m²)

—■— (19.12.2017) (1703.7 m²)

$d_{\max}$: 53.3 m 130° <--> 310° $r_{\min}$: 21.0 m -> 48° $r_{\sim}$: 23.3 m $r_{\max}$: 26.7 m -> 130°

Heiligerlee K

19.12.2017



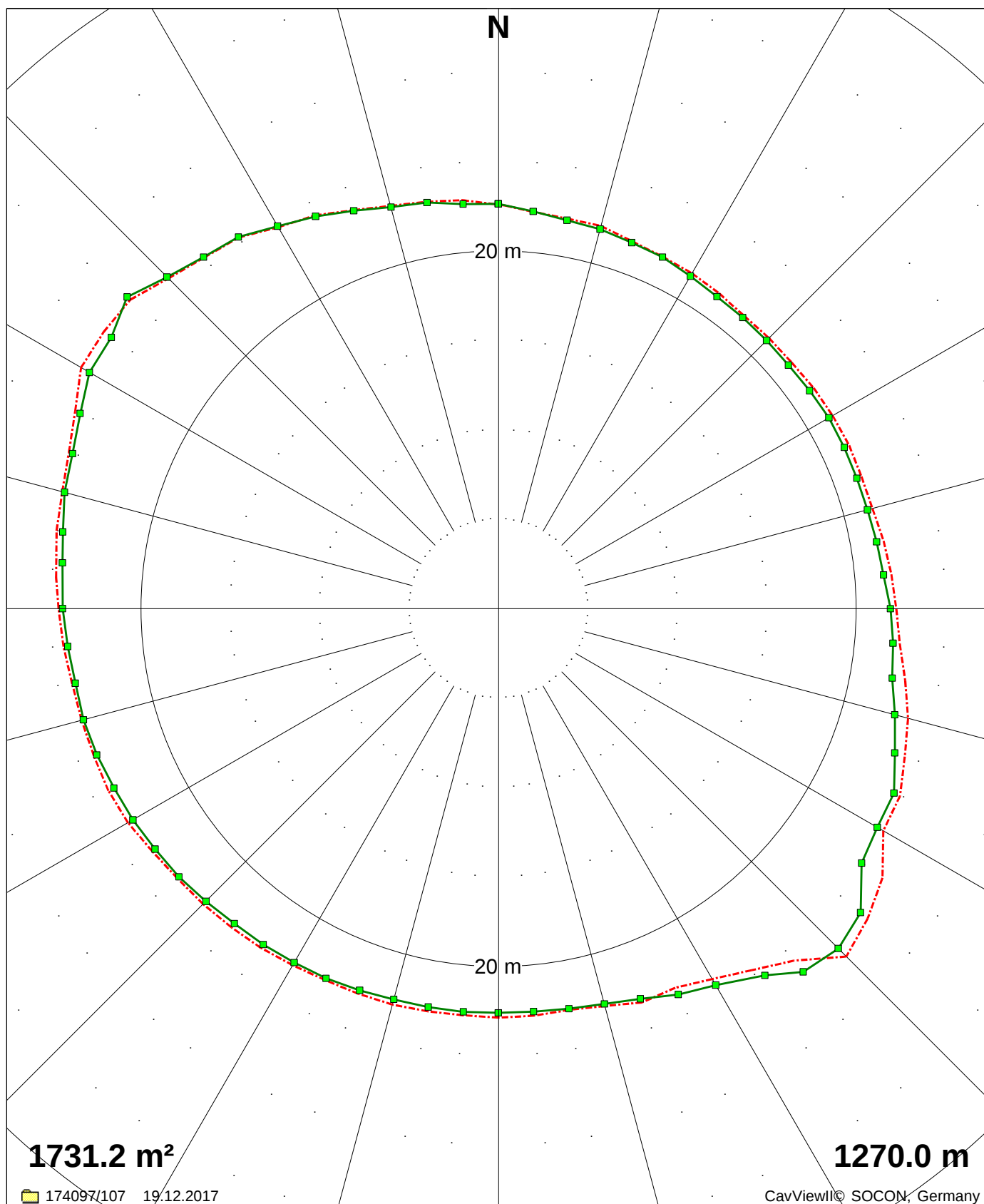
--- (19.05.2014) (1744.0 m²)

—■— (19.12.2017) (1716.7 m²)

$d_{\max}$: 53.3 m 130° <--> 310° $r_{\min}$: 21.0 m -> 47° $r_{\sim}$: 23.4 m $r_{\max}$: 26.7 m -> 305°

Heiligerlee K

19.12.2017



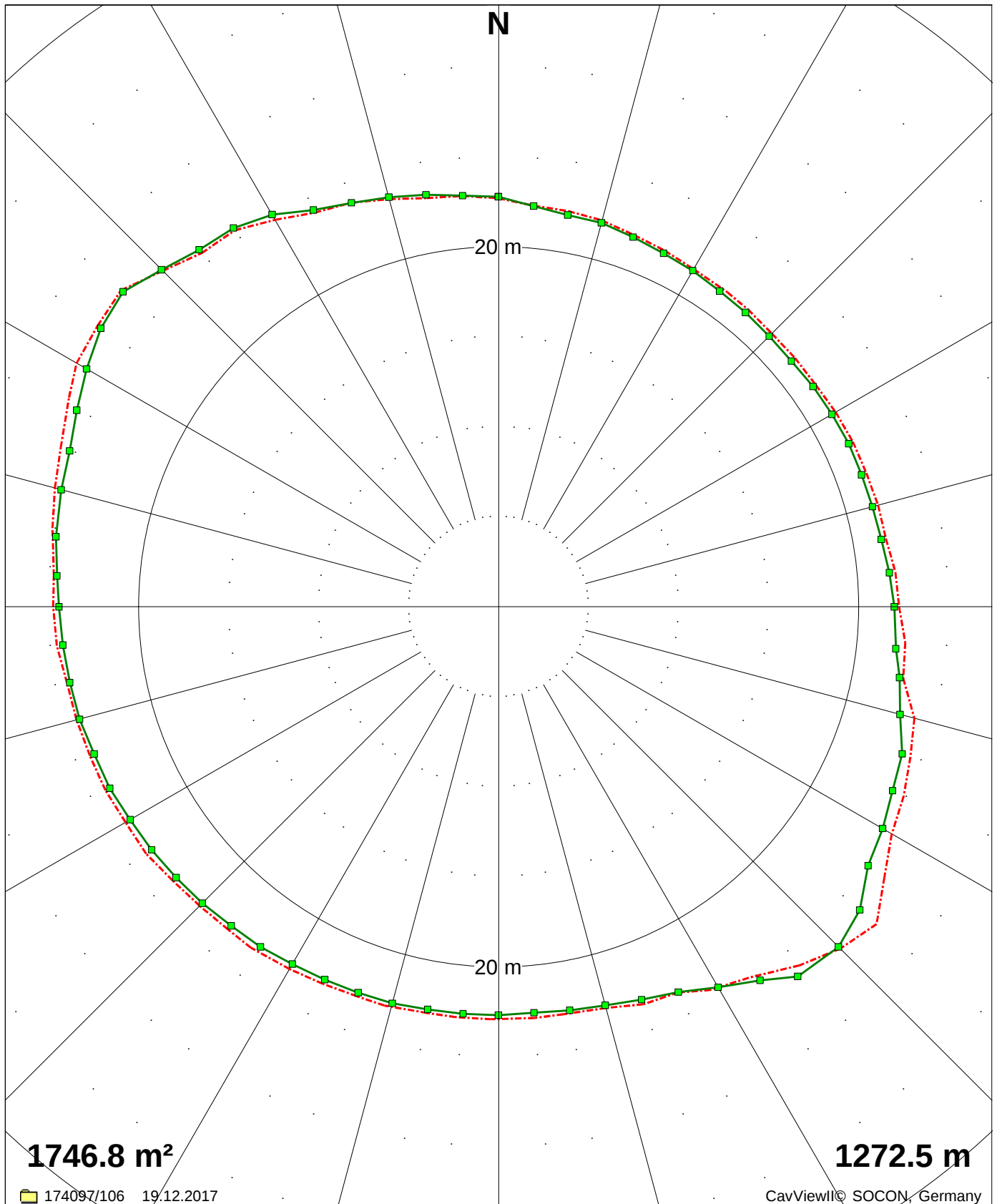
--- (19.05.2014) (1761.4 m²)

—■— (19.12.2017) (1731.2 m²)

$d_{\max}$: 53.5 m 130° <--> 310° $r_{\min}$: 21.2 m -> 47° $r_{\sim}$: 23.5 m $r_{\max}$: 27.1 m -> 310°

Heiligerlee K

19.12.2017



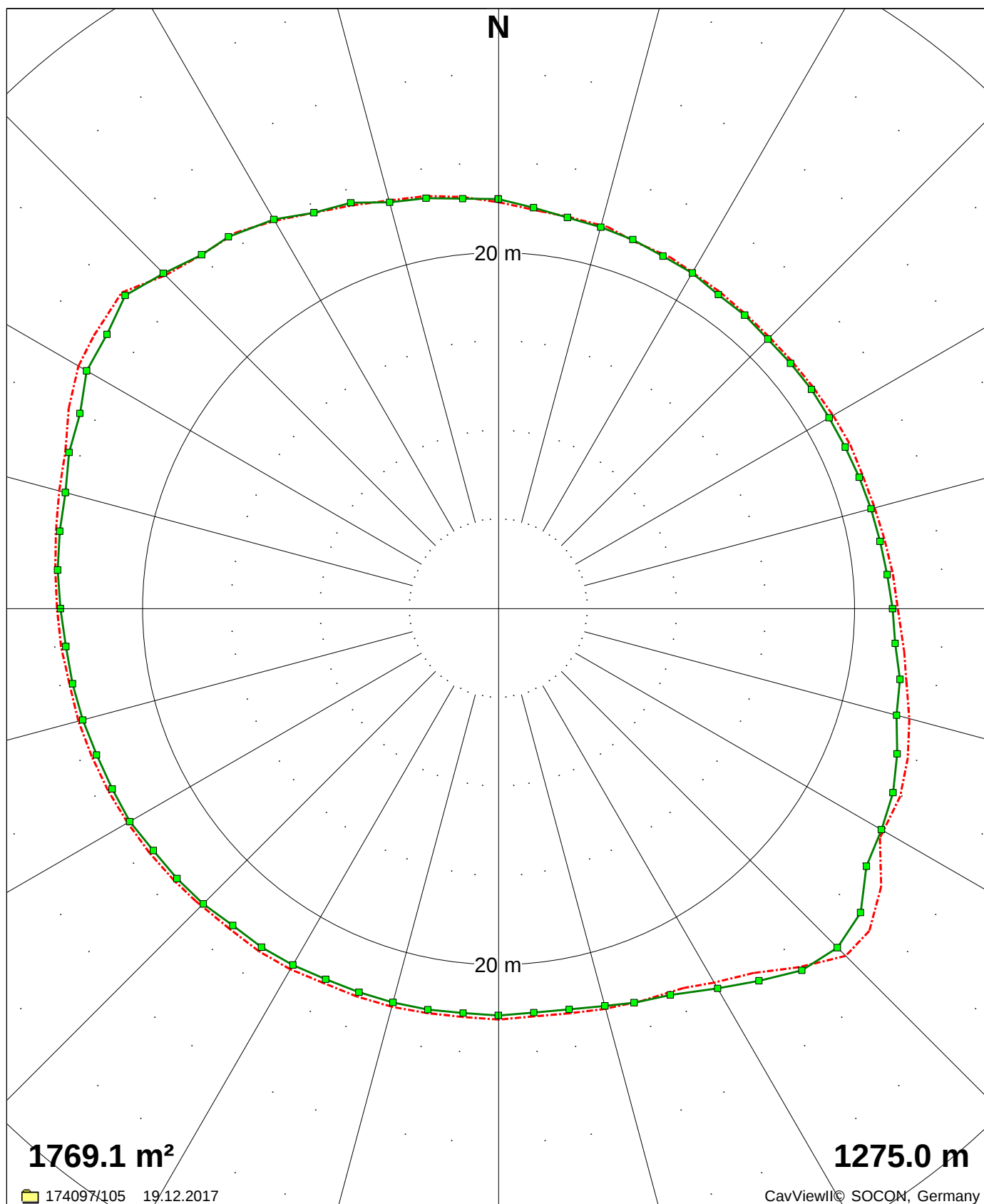
--- (19.05.2014) (1780.1 m²)

—■— (19.12.2017) (1746.8 m²)

$d_{\max}$: 53.4 m 130° <--> 310° $r_{\min}$: 21.2 m -> 47° $r_{\sim}$: 23.6 m $r_{\max}$: 27.2 m -> 310°

Heiligerlee K

19.12.2017



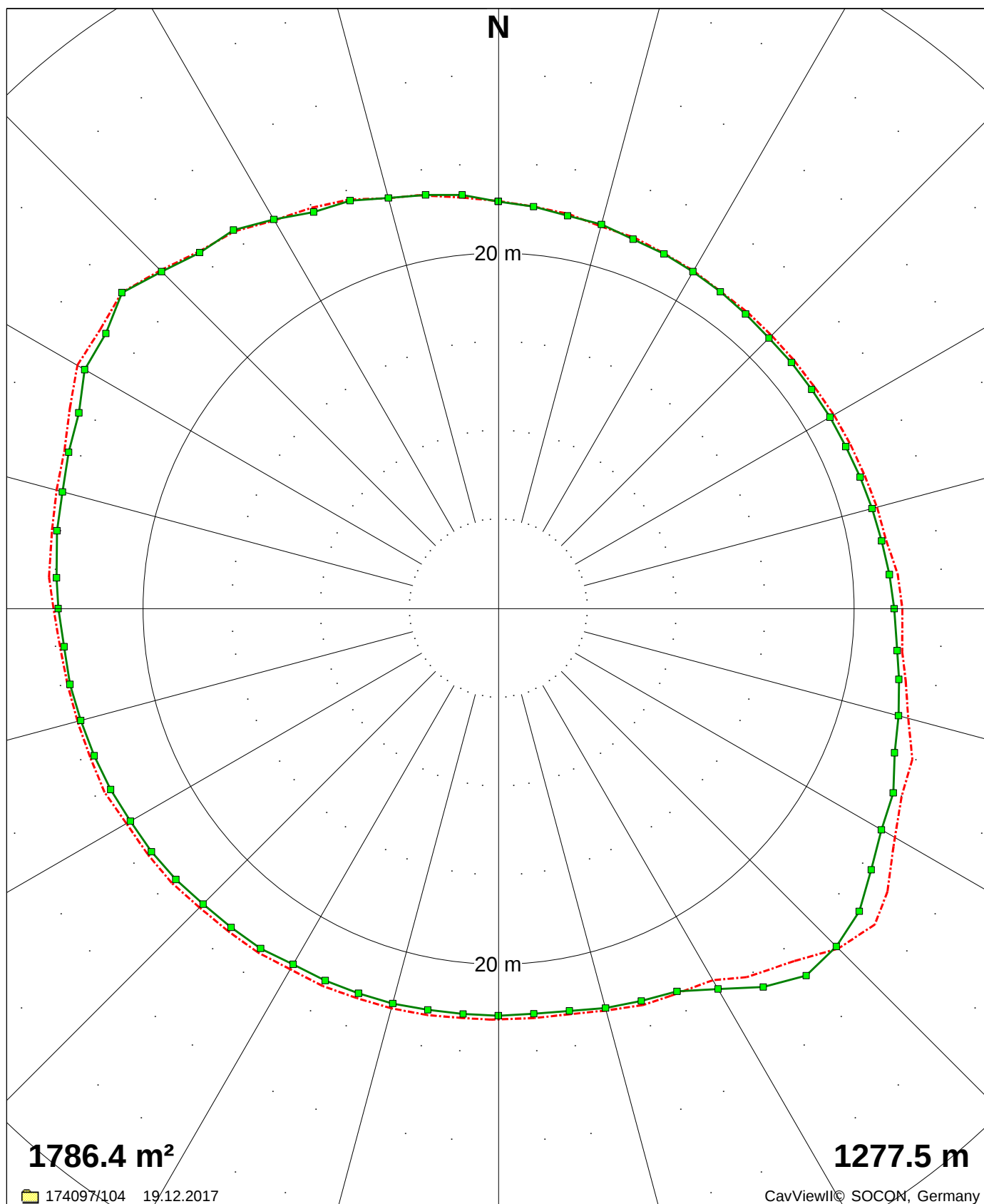
--- (19.05.2014) (1799.5 m²)

—■— (19.12.2017) (1769.1 m²)

$d_{\max}$: 53.9 m 130° <--> 310° $r_{\min}$: 21.4 m -> 46° $r_{\sim}$: 23.7 m $r_{\max}$: 27.4 m -> 310°

Heiligerlee K

19.12.2017



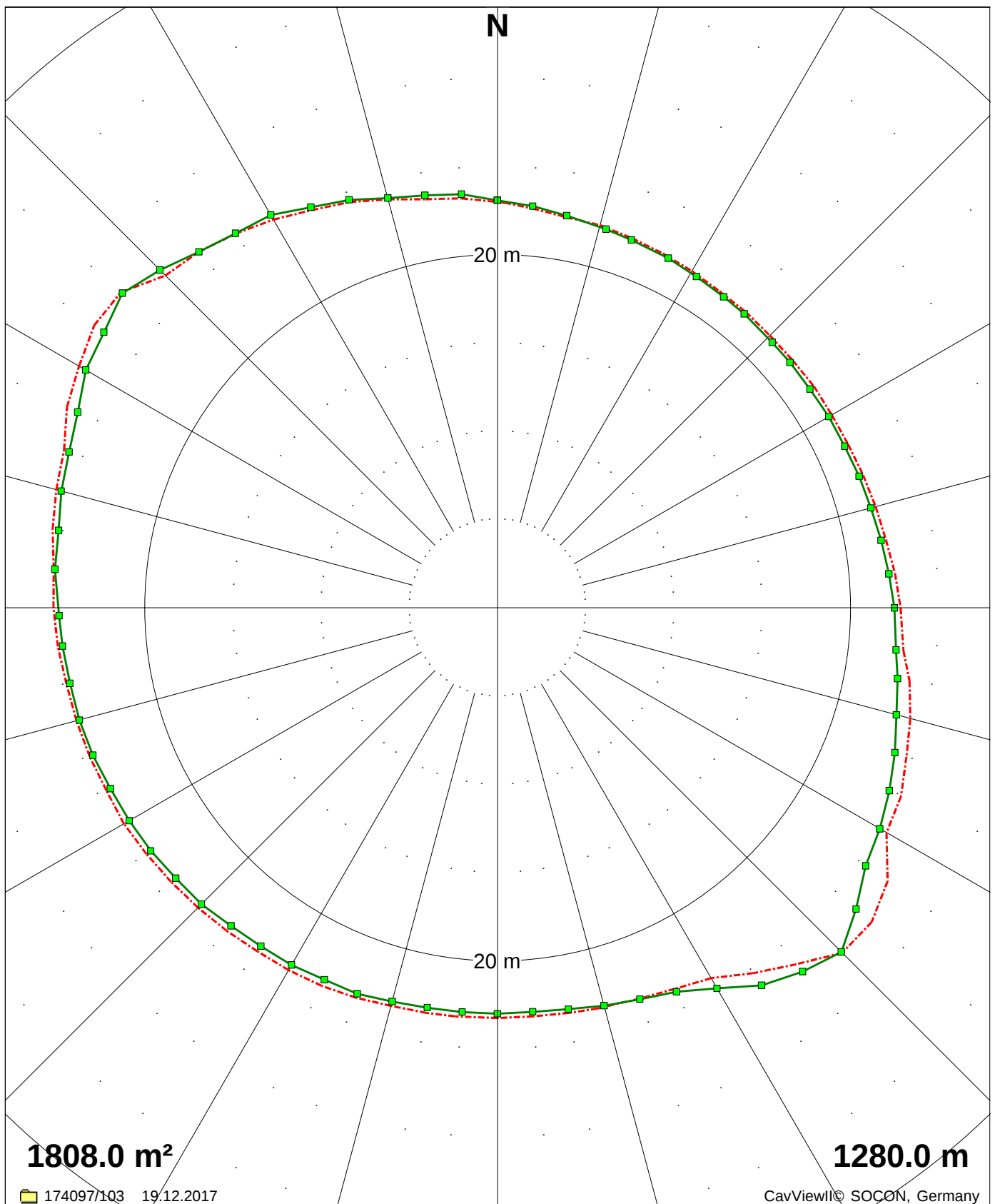
--- (19.05.2014) (1820.2 m²)

—■— (19.12.2017) (1786.4 m²)

$d_{\max}$: 54.1 m 130° <--> 310° $r_{\min}$: 21.5 m -> 52° $r_{\sim}$: 23.8 m $r_{\max}$: 27.6 m -> 310°

Heiligerlee K

19.12.2017



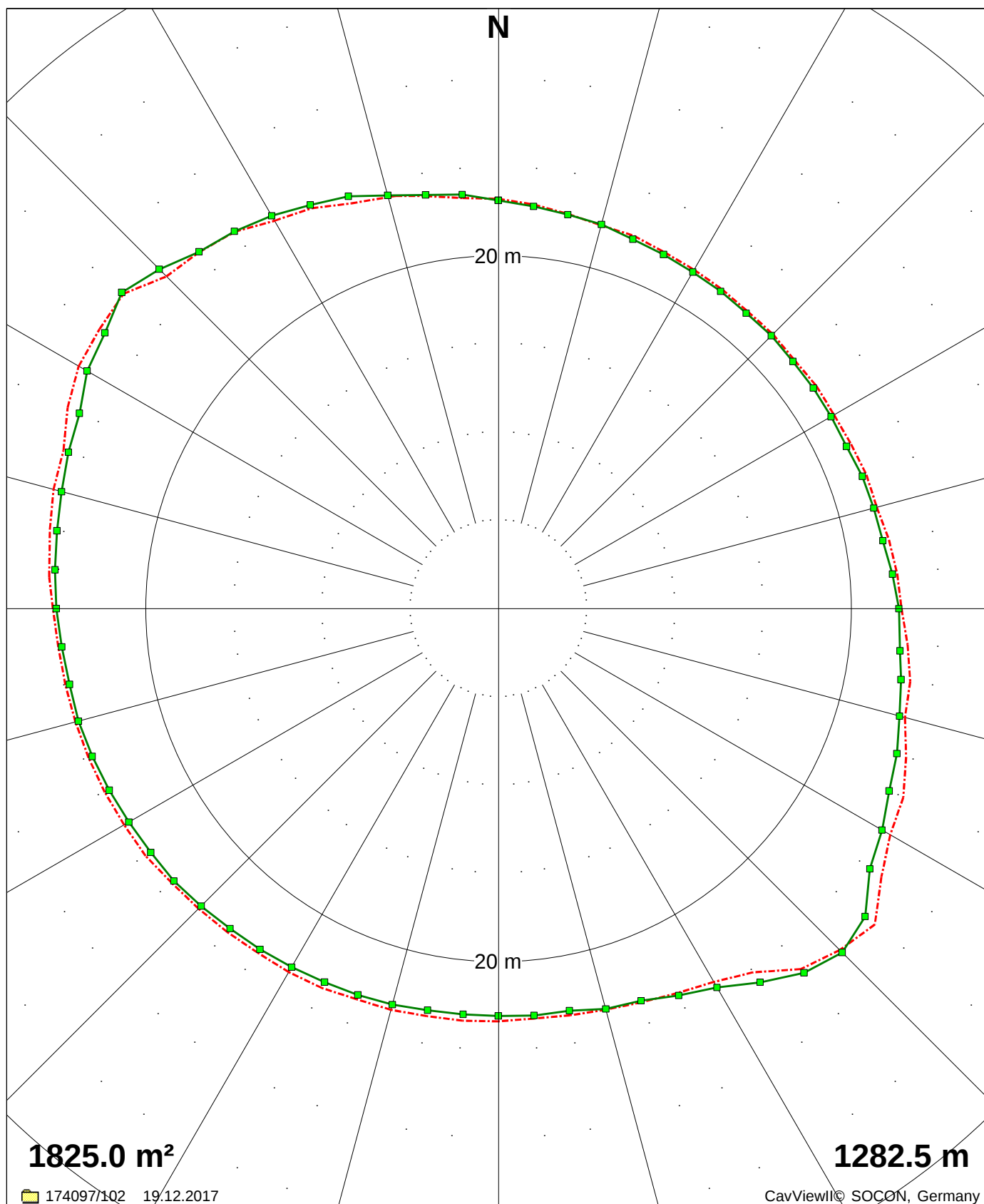
--- (19.05.2014) (1838.4 m²)

—■— (19.12.2017) (1808.0 m²)

$d_{\max}$: 54.6 m 135° <--> 315° $r_{\min}$: 21.6 m -> 52° $r_{\sim}$: 24.0 m $r_{\max}$: 27.7 m -> 310°

Heiligerlee K

19.12.2017



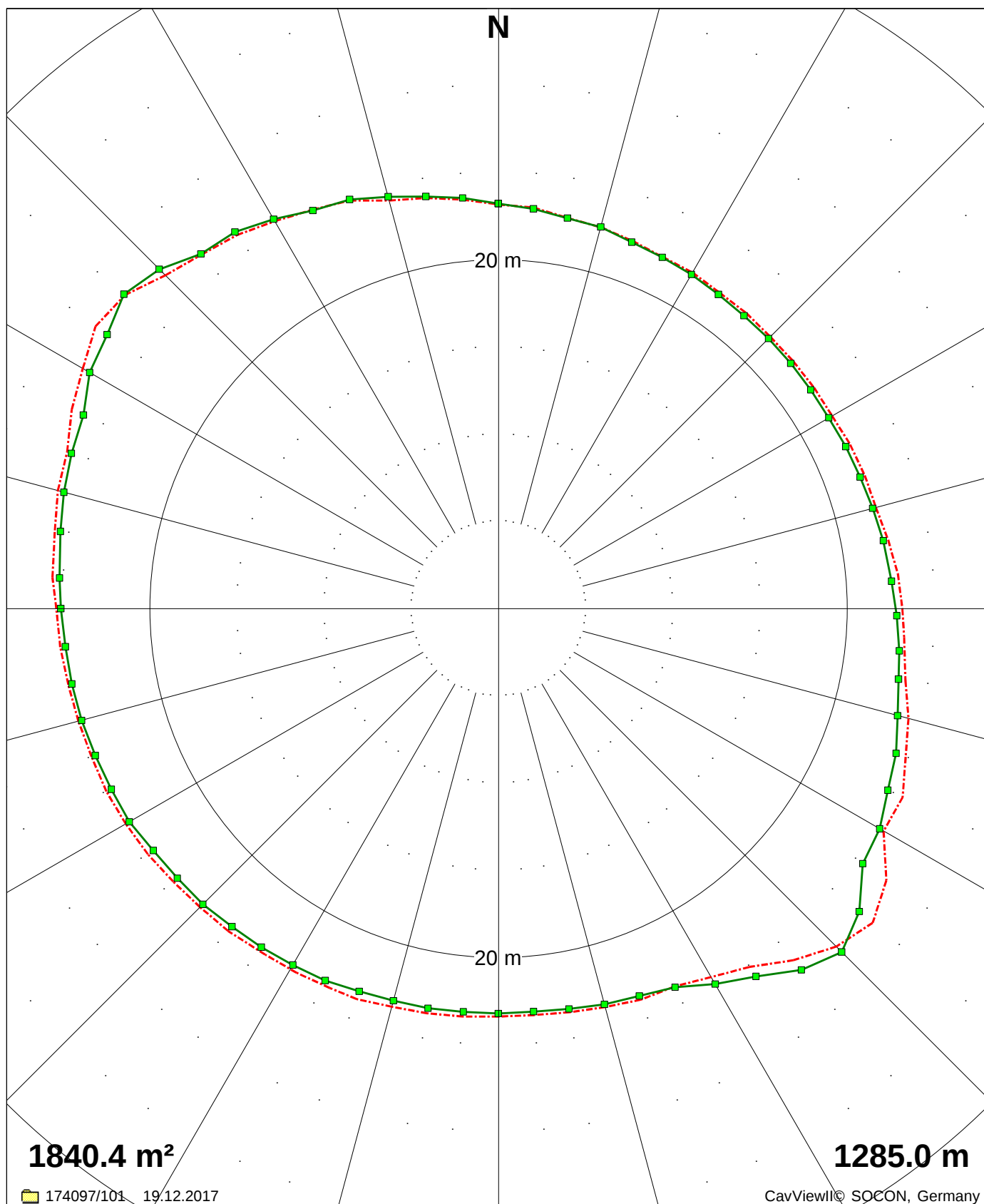
--- (19.05.2014) (1852.2 m²)

—■— (19.12.2017) (1825.0 m²)

$d_{\max}$: 55.0 m 130° <--> 310° $r_{\min}$: 21.7 m -> 62° $r_{\sim}$: 24.1 m $r_{\max}$: 27.9 m -> 310°

Heiligerlee K

19.12.2017



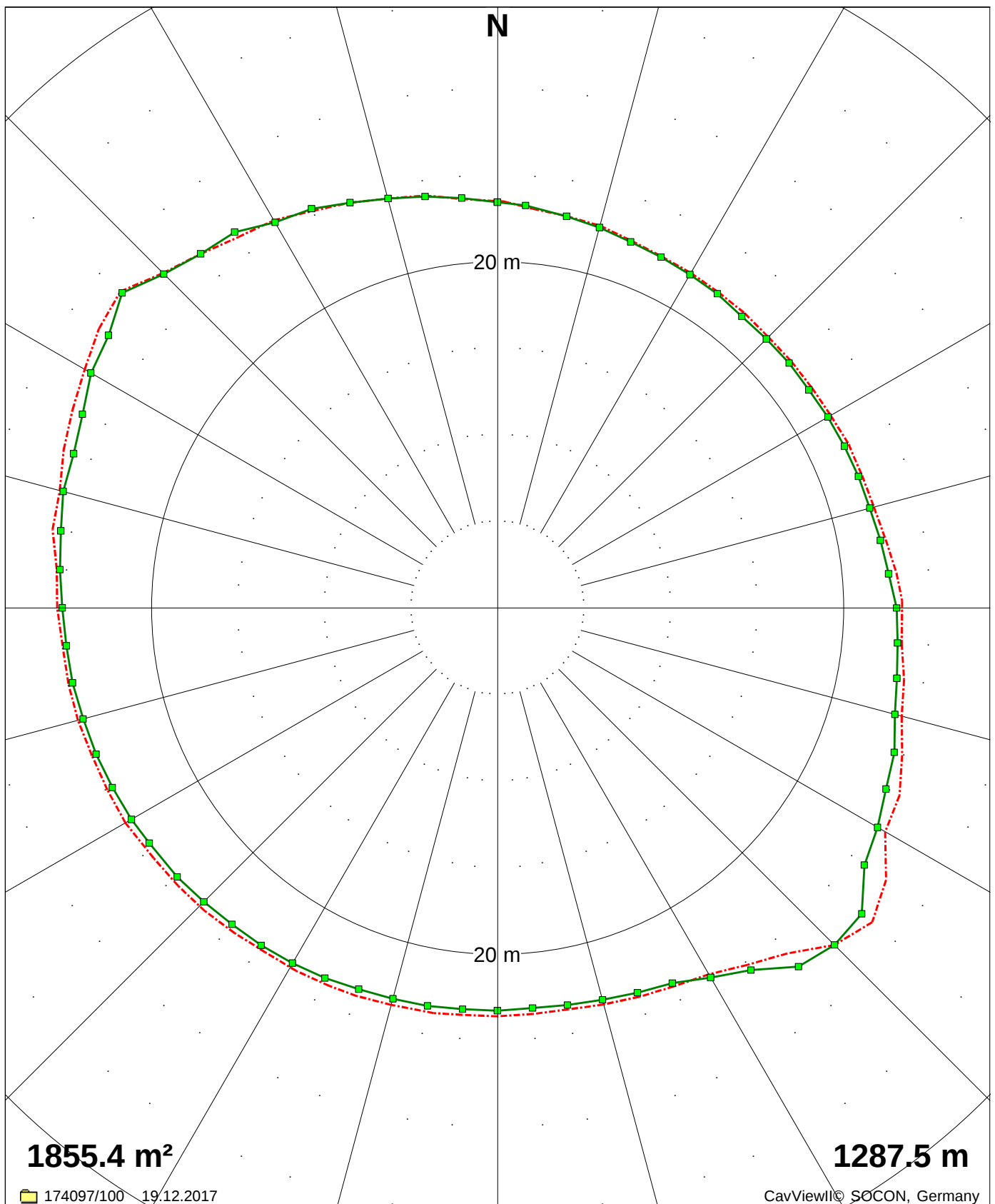
--- (19.05.2014) (1871.9 m²)

—■— (19.12.2017) (1840.4 m²)

$d_{\max}$: 55.3 m 135° <--> 315° $r_{\min}$: 21.8 m -> 56° $r_{\sim}$: 24.2 m $r_{\max}$: 28.0 m -> 310°

Heiligerlee K

19.12.2017



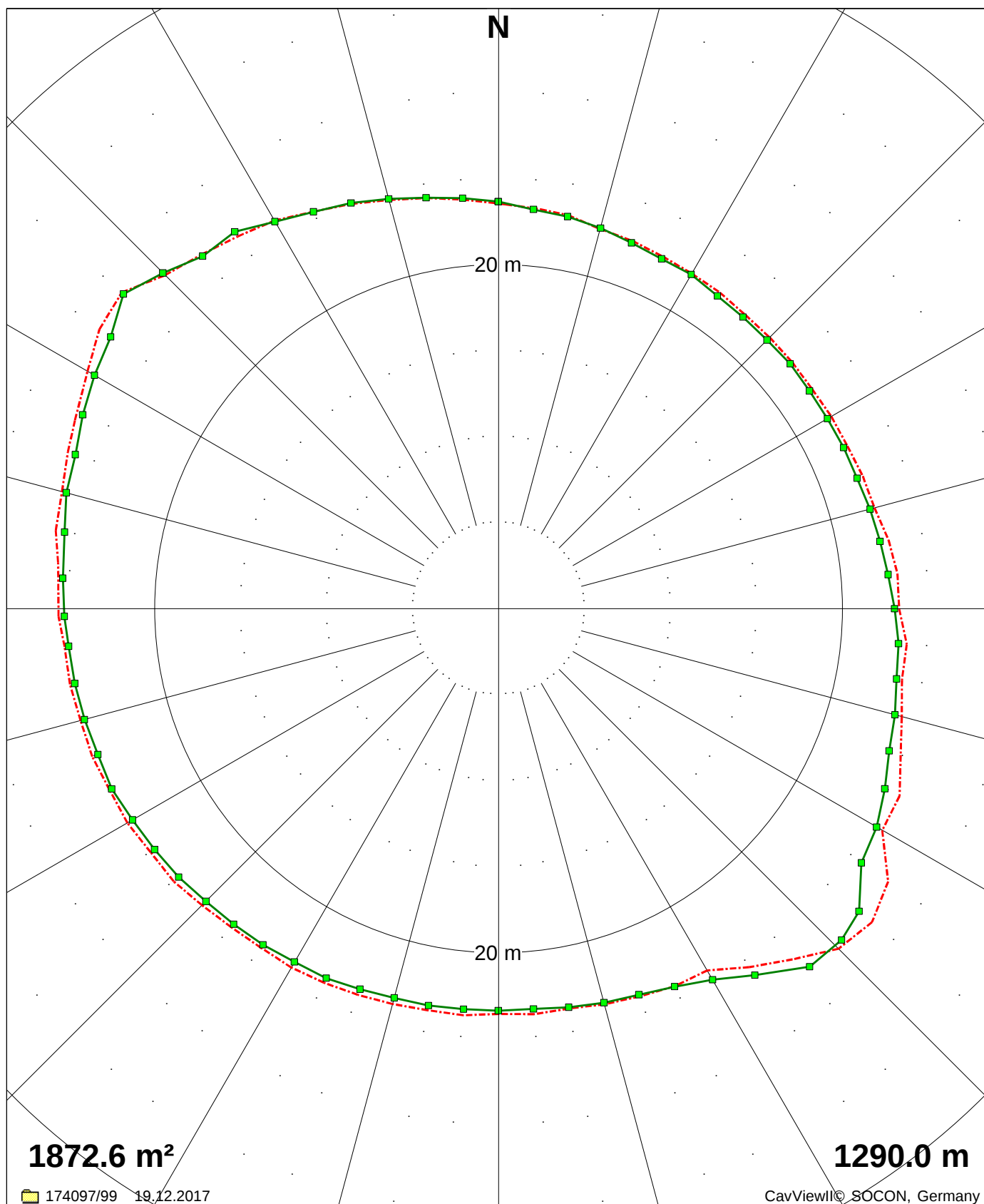
--- (19.05.2014) (1892.7 m²)

—■— (19.12.2017) (1855.4 m²)

$d_{\max}$: 55.8 m 130° <--> 310° $r_{\min}$: 21.9 m -> 53° $r_{\sim}$: 24.3 m $r_{\max}$: 28.3 m -> 310°

Heiligerlee K

19.12.2017



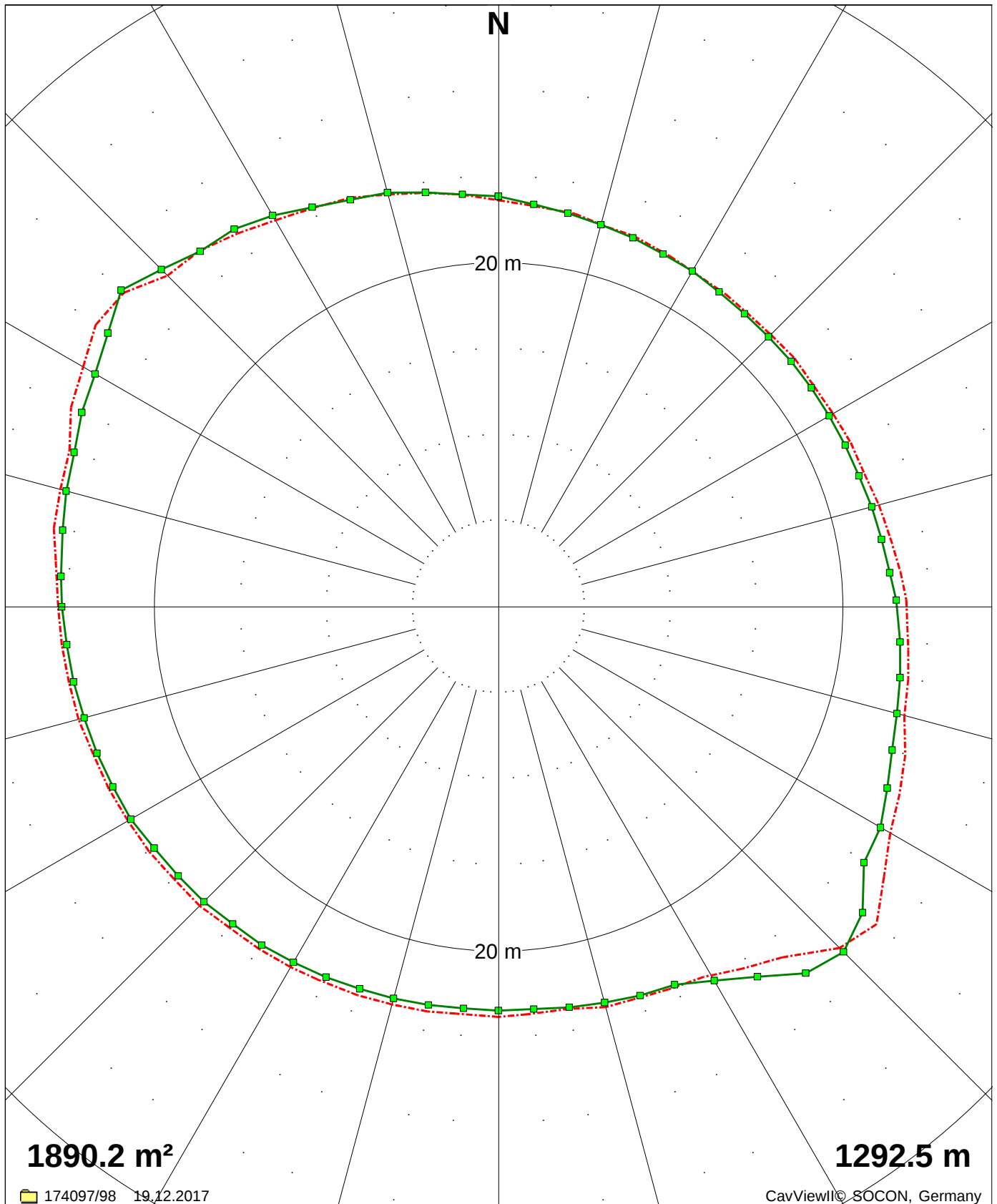
--- (19.05.2014) (1909.2 m²)

—■— (19.12.2017) (1872.6 m²)

d_{max}: 55.8 m 130° <--> 310° r_{min}: 22.1 m -> 56° r~: 24.4 m r_{max}: 28.5 m -> 310°

Heiligerlee K

19.12.2017



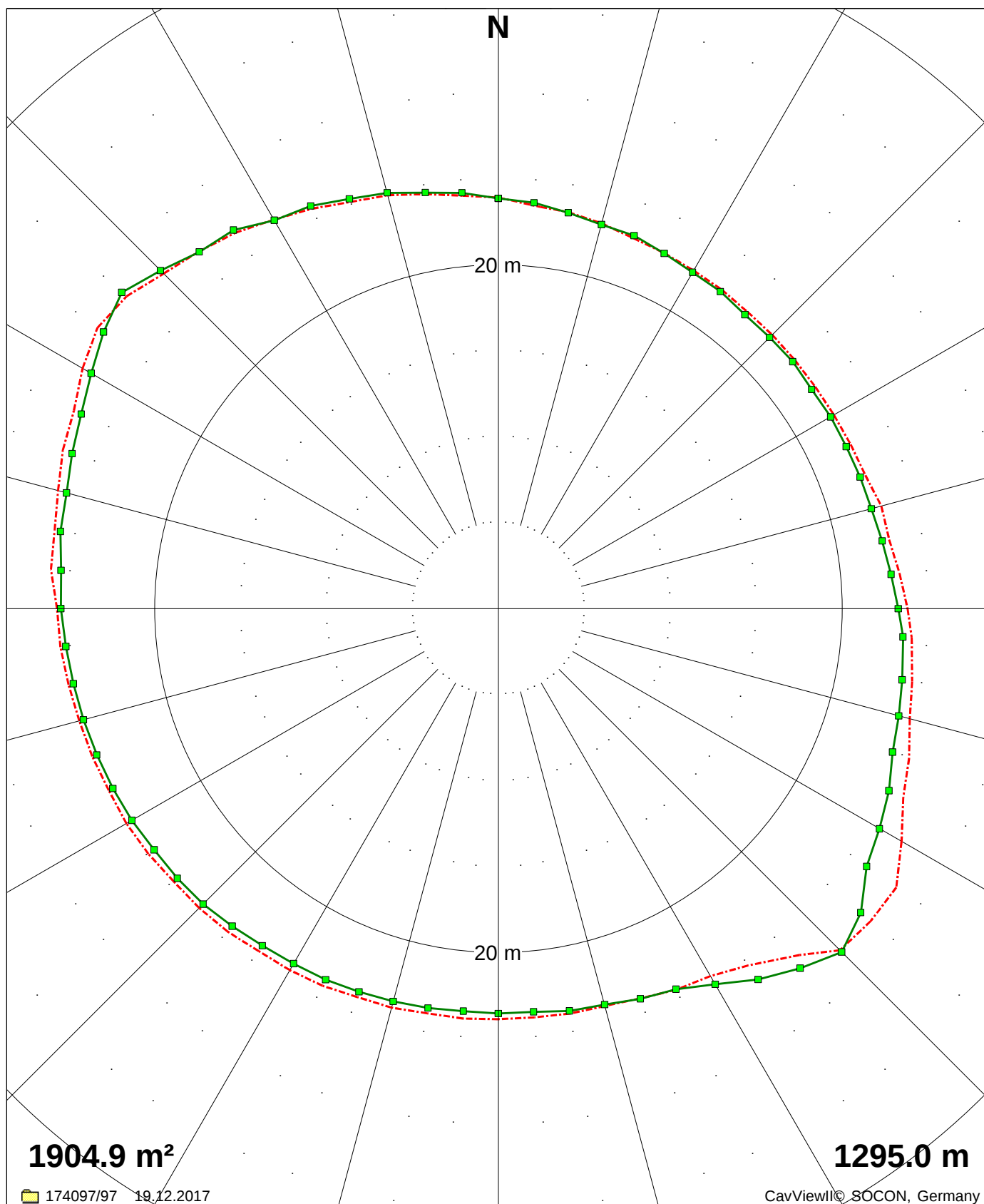
--- (19.05.2014) (1925.4 m²)

—■— (19.12.2017) (1890.2 m²)

d_{max}: 56.2 m 130° <--> 310° r_{min}: 22.2 m -> 47° r~: 24.5 m r_{max}: 28.6 m -> 310°

Heiligerlee K

19.12.2017



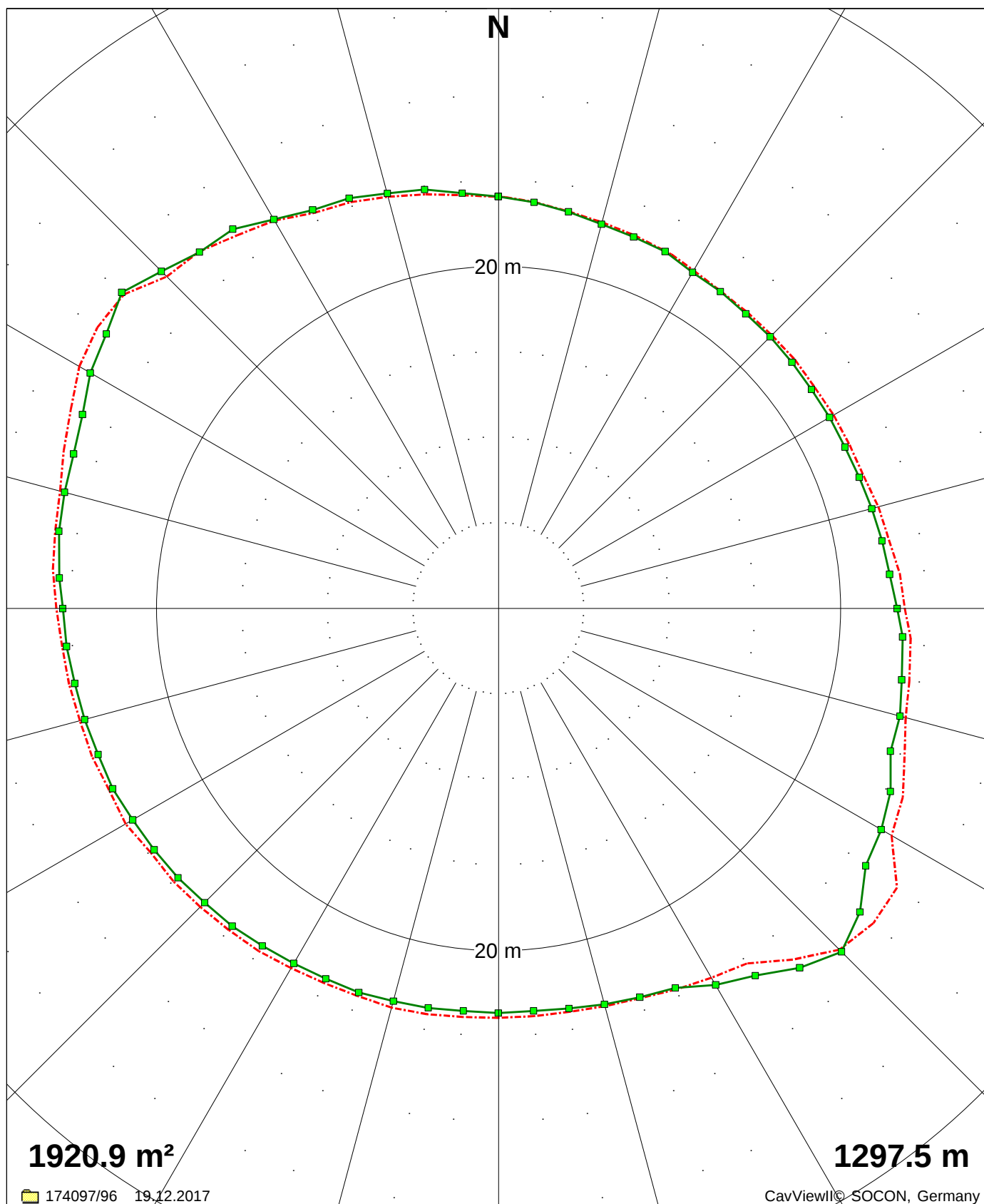
--- (19.05.2014) (1944.4 m²)

—■— (19.12.2017) (1904.9 m²)

d_{max}: 56.1 m 130° <--> 310° r_{min}: 22.2 m -> 54° r~: 24.6 m r_{max}: 28.6 m -> 310°

Heiligerlee K

19.12.2017



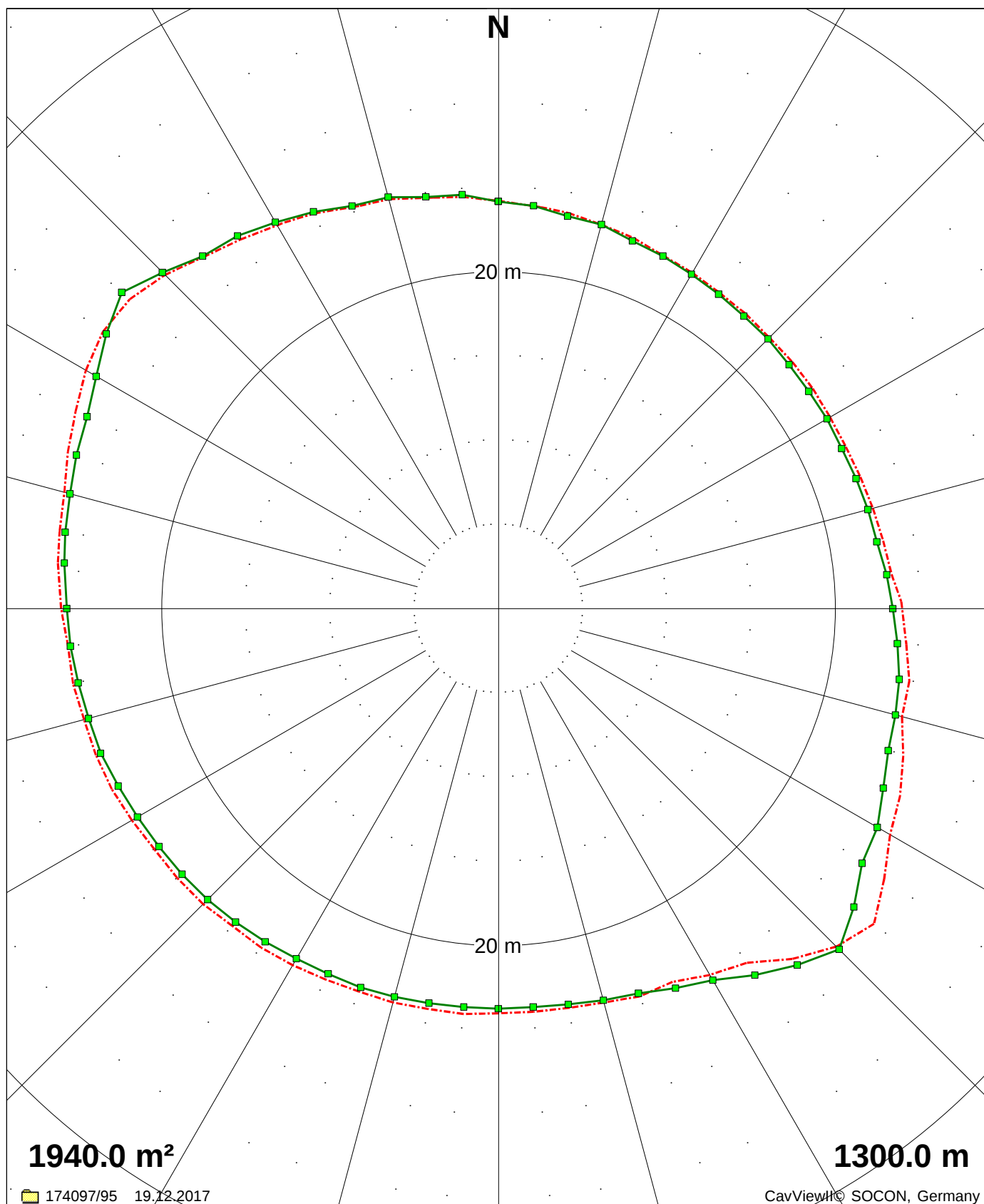
--- (19.05.2014) (1958.1 m²)

—■— (19.12.2017) (1920.9 m²)

d_{max}: 56.3 m 130° <--> 310° r_{min}: 22.3 m -> 56° r~: 24.7 m r_{max}: 28.8 m -> 310°

Heiligerlee K

19.12.2017



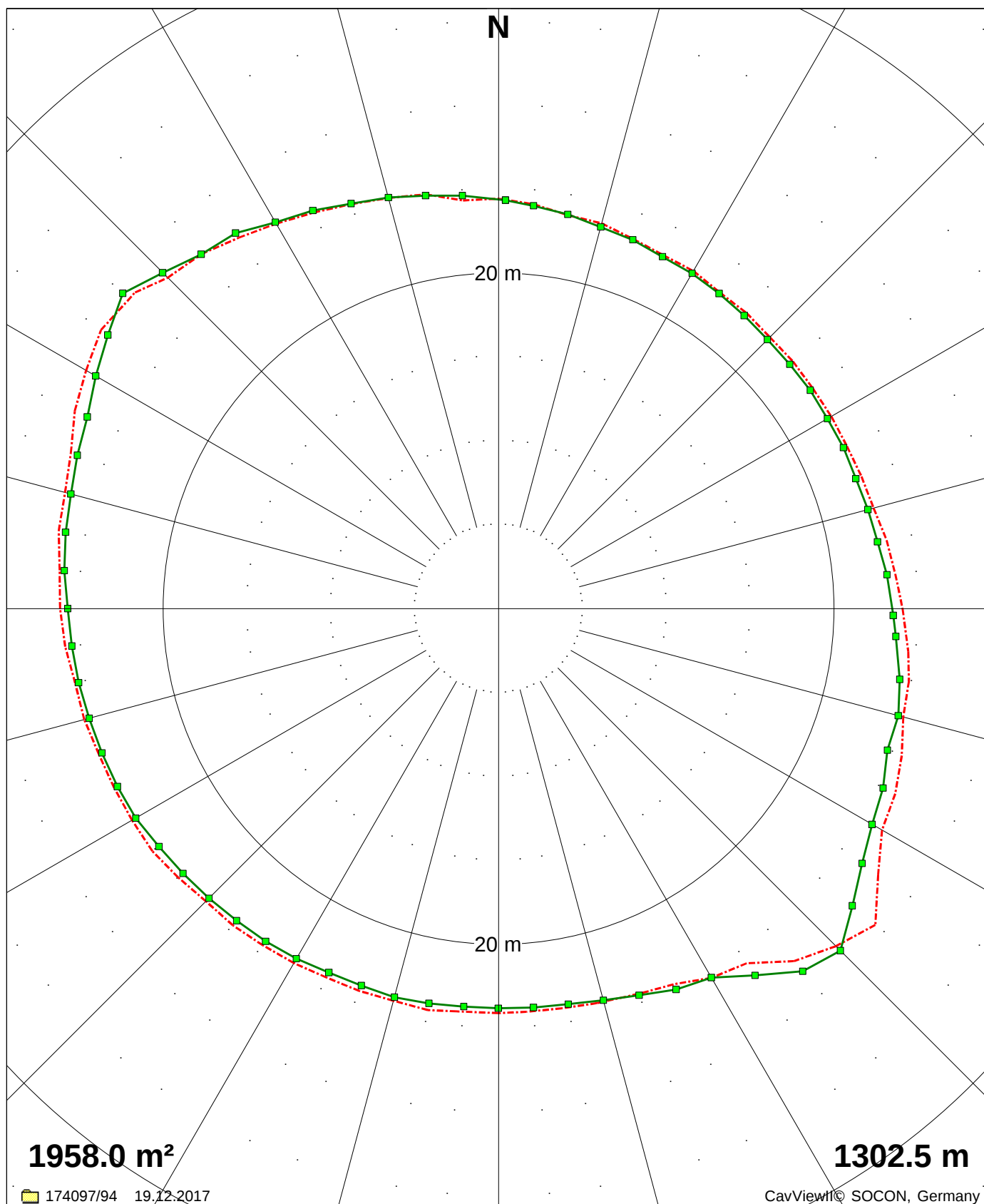
--- (19.05.2014) (1978.7 m²)

—■— (19.12.2017) (1940.0 m²)

$d_{\max}$: 56.8 m 135° <--> 315° $r_{\min}$: 22.5 m -> 63° $r_{\sim}$: 24.9 m $r_{\max}$: 29.2 m -> 310°

Heiligerlee K

19.12.2017



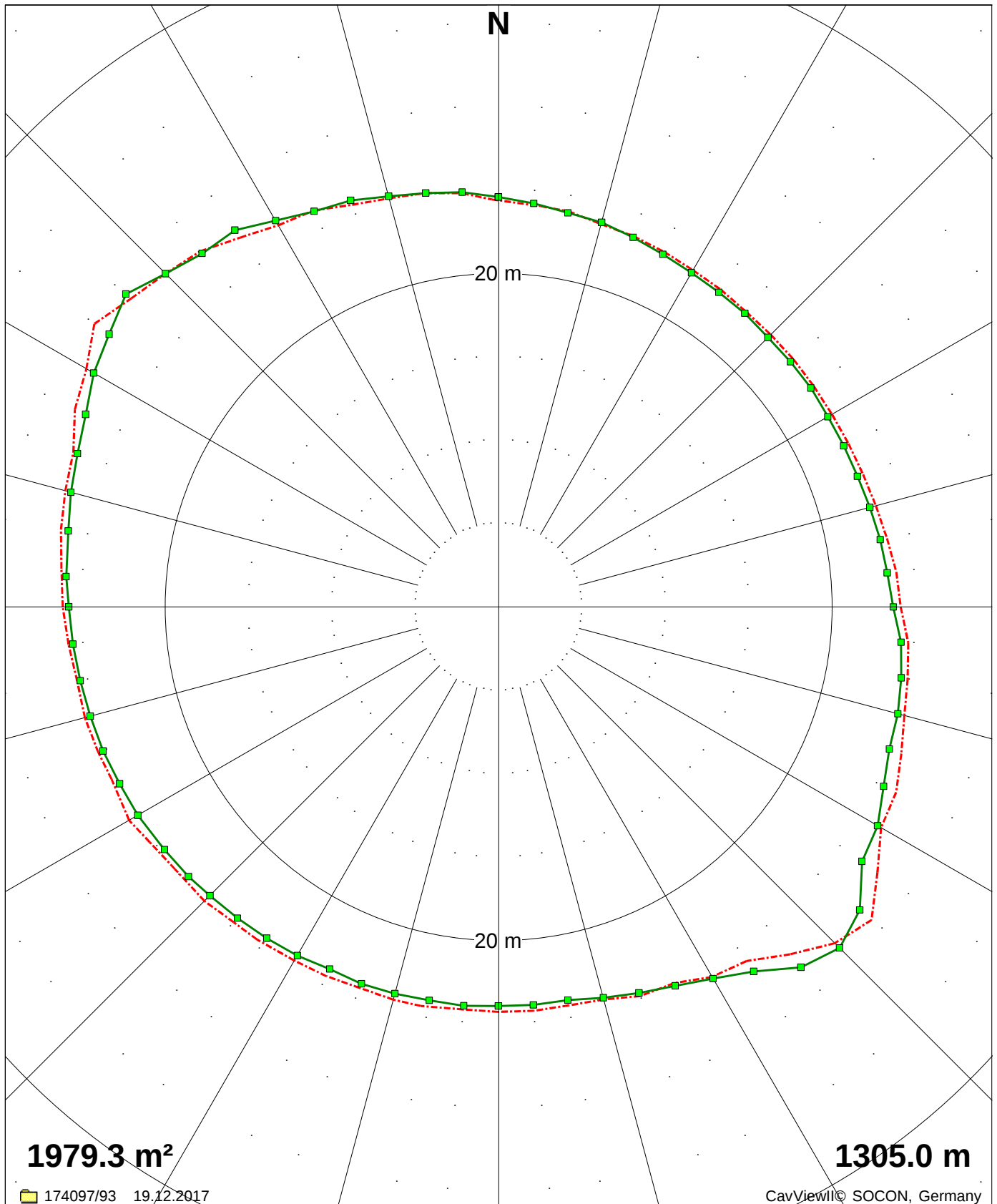
--- (19.05.2014) (1995.2 m²)

—■— (19.12.2017) (1958.0 m²)

d_{max}: 57.1 m 135° <--> 315° r_{min}: 22.6 m -> 58° r~: 25.0 m r_{max}: 29.2 m -> 310°

Heiligerlee K

19.12.2017



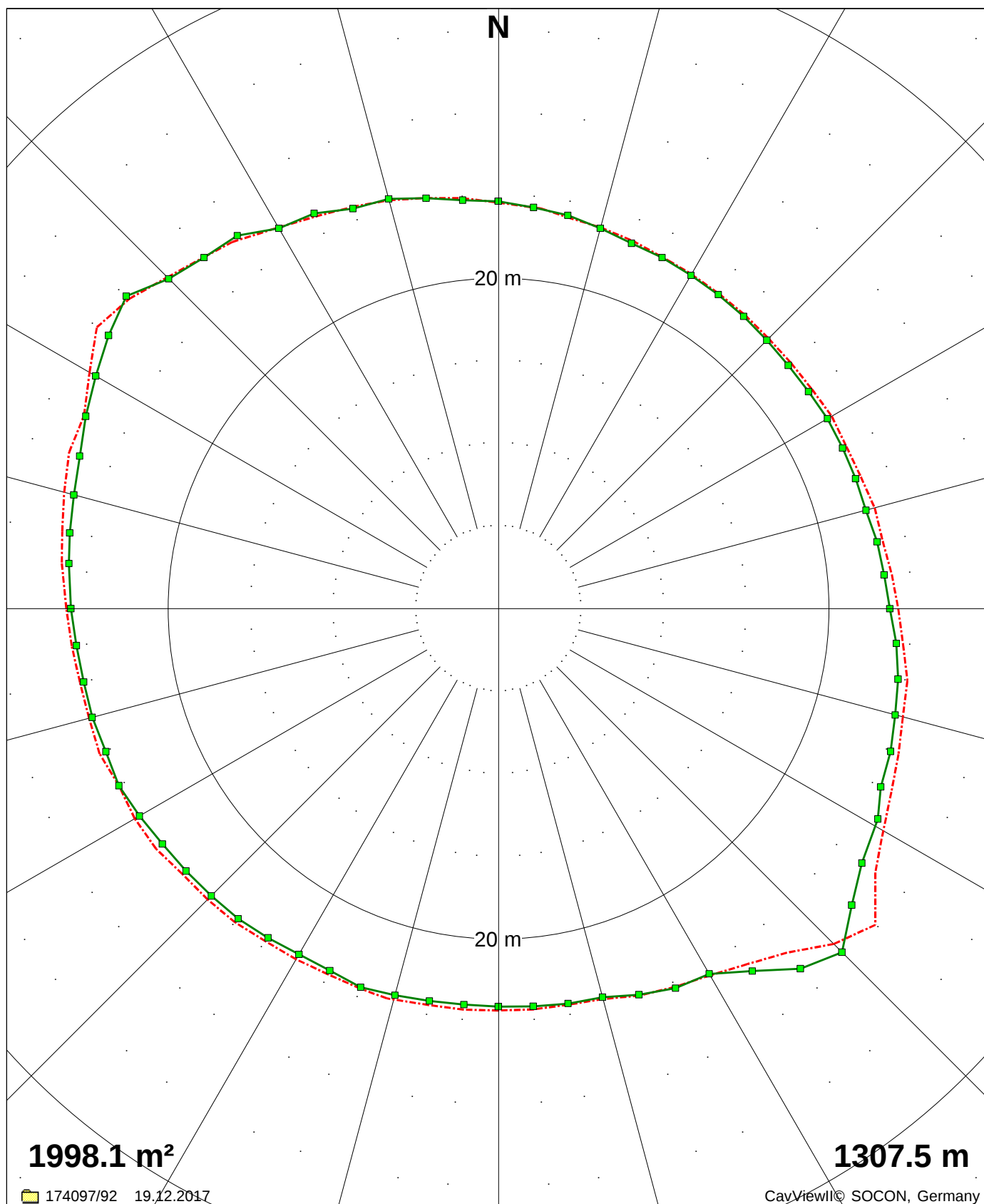
--- (19.05.2014) (1204.5 m²)

—■— (19.12.2017) (1979.3 m²)

$d_{\max}$: 57.4 m 130° <--> 310° $r_{\min}$: 22.8 m -> 61° $r_{\sim}$: 25.1 m $r_{\max}$: 29.2 m -> 310°

Heiligerlee K

19.12.2017



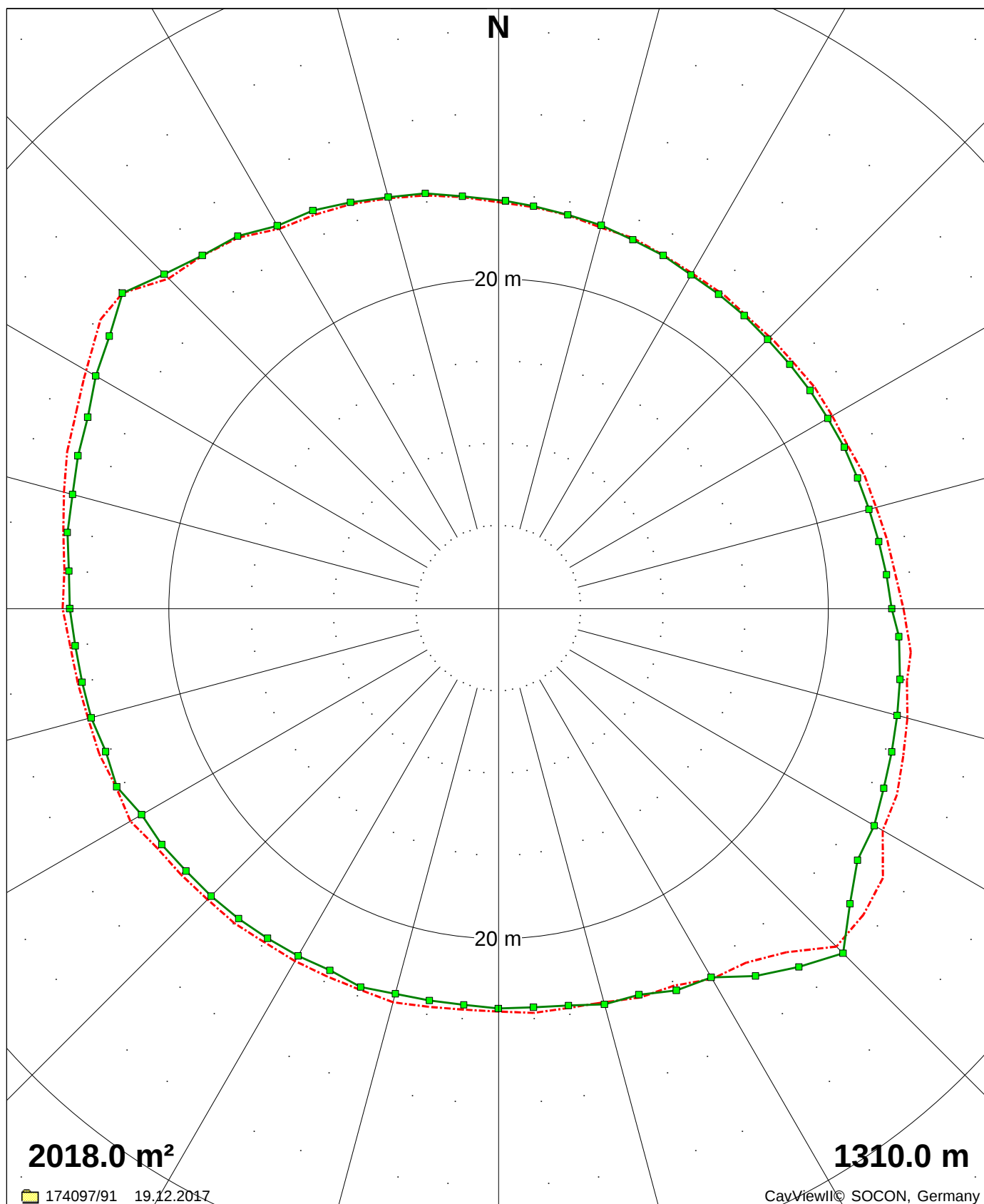
--- (19.05.2014) (2033.6 m²)

—■— (19.12.2017) (1998.1 m²)

d_{max}: 57.6 m 135° <--> 315° r_{min}: 22.9 m -> 51° r~: 25.2 m r_{max}: 29.4 m -> 310°

Heiligerlee K

19.12.2017



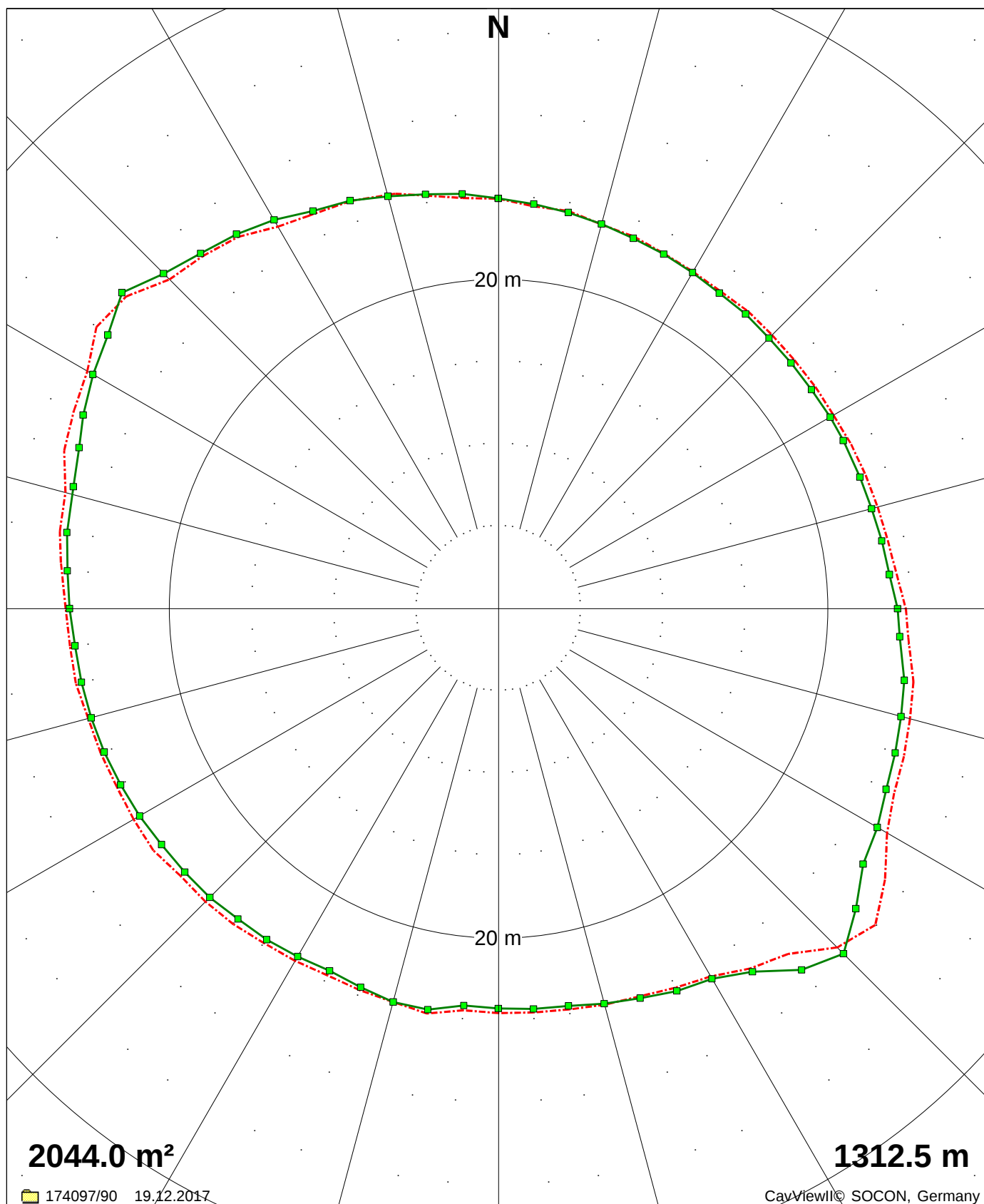
--- (19.05.2014) (2057.5 m²)

—■— (19.12.2017) (2018.0 m²)

d_{max}: 58.2 m 135° <--> 315° r_{min}: 23.0 m -> 51° r~: 25.3 m r_{max}: 29.8 m -> 310°

Heiligerlee K

19.12.2017



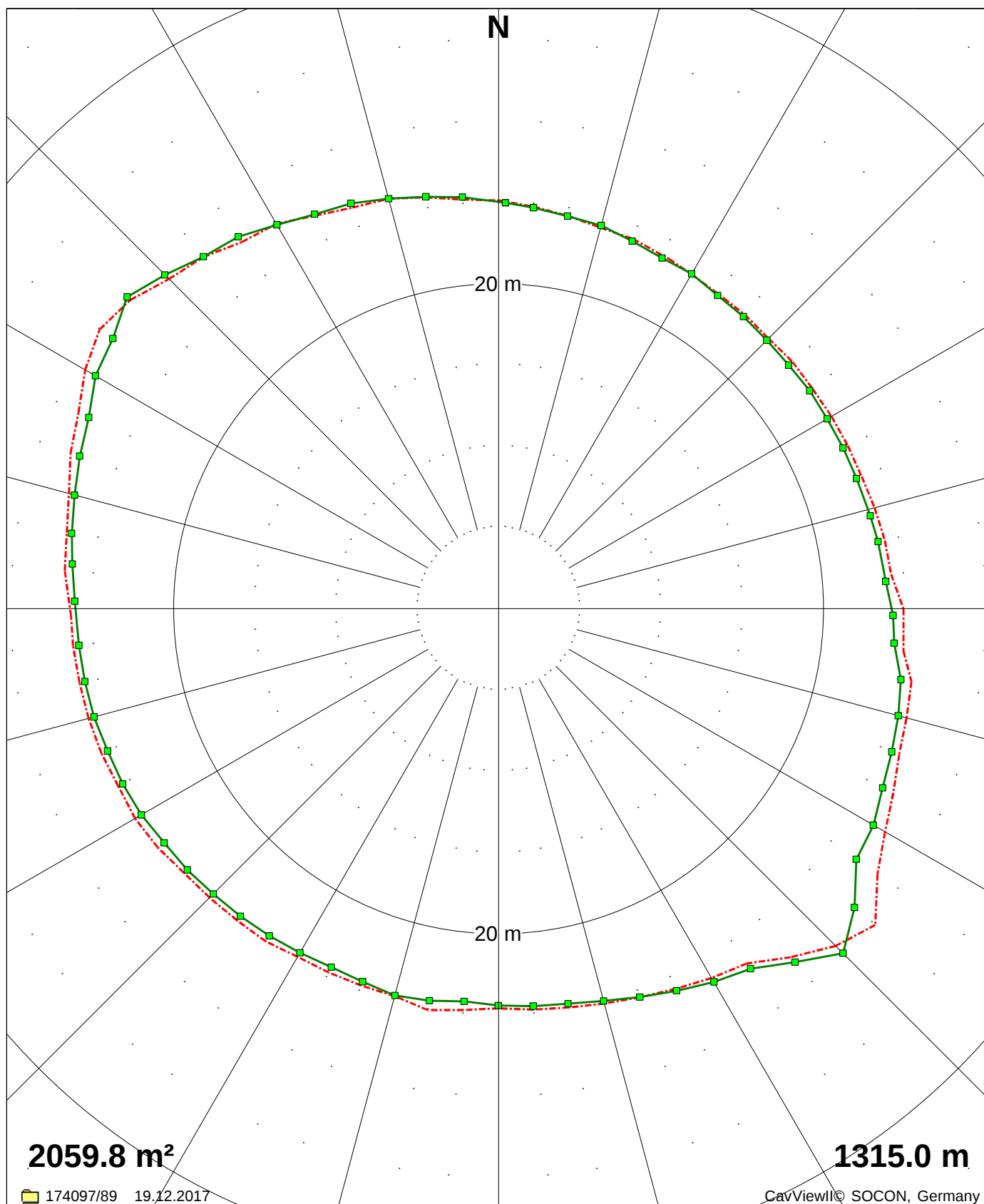
--- (19.05.2014) (2079.3 m²)

—■— (19.12.2017) (2044.0 m²)

$d_{\max}$: 58.4 m 135° <--> 315° $r_{\min}$: 23.2 m -> 52° $r_{\sim}$: 25.5 m $r_{\max}$: 29.9 m -> 310°

Heiligerlee K

19.12.2017



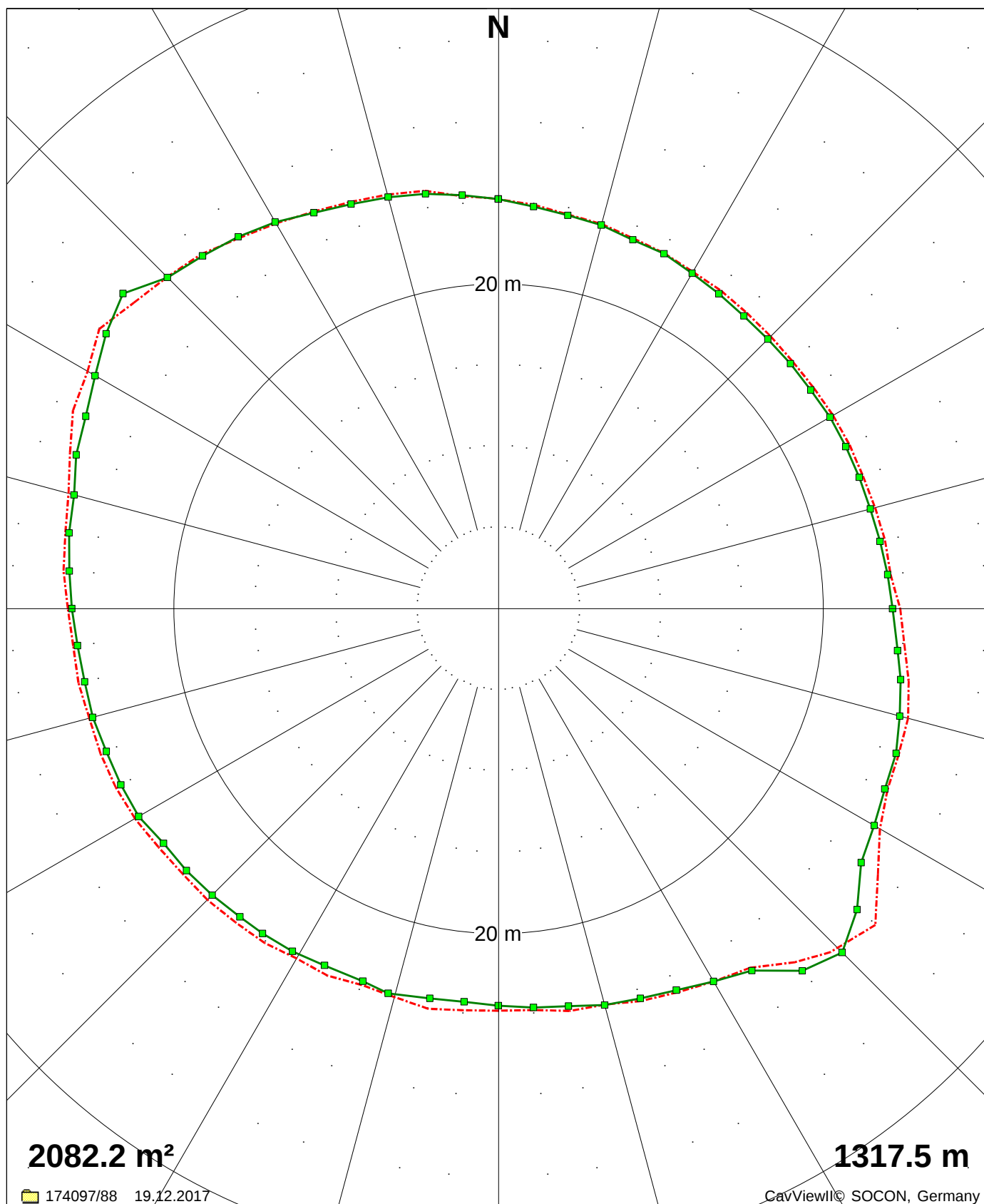
--- (19.05.2014) (2103.0 m²)

—■— (19.12.2017) (2059.8 m²)

$d_{\max}$: 59.0 m 135° <--> 315° $r_{\min}$: 23.3 m -> 47° $r_{\sim}$: 25.6 m $r_{\max}$: 30.0 m -> 135°

Heiligerlee K

19.12.2017



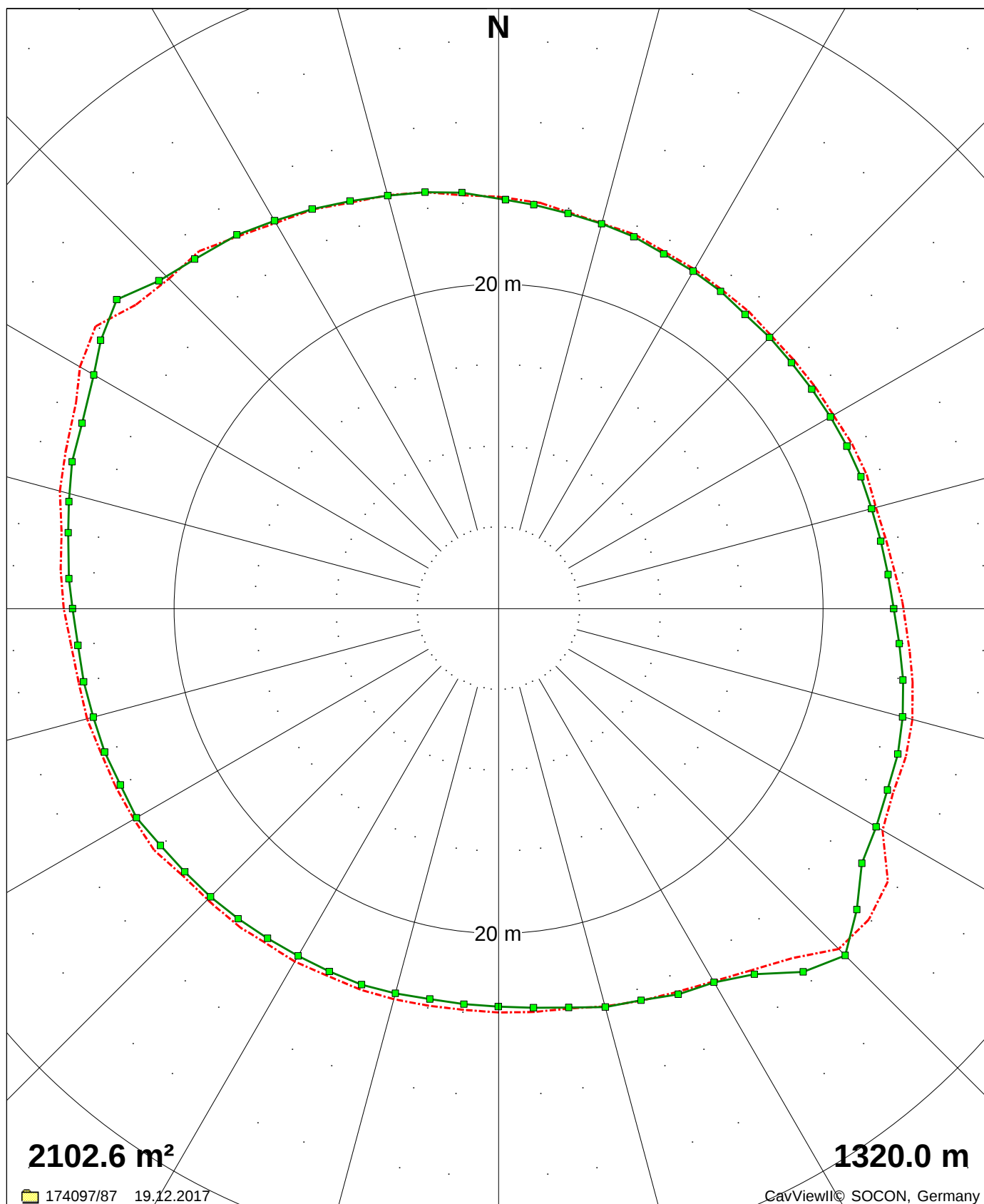
--- (19.05.2014) (2121.9 m²)

—■— (19.12.2017) (2082.2 m²)

d_{max}: 59.0 m 130° <--> 310° r_{min}: 23.4 m -> 46° r~: 25.7 m r_{max}: 30.2 m -> 310°

Heiligerlee K

19.12.2017



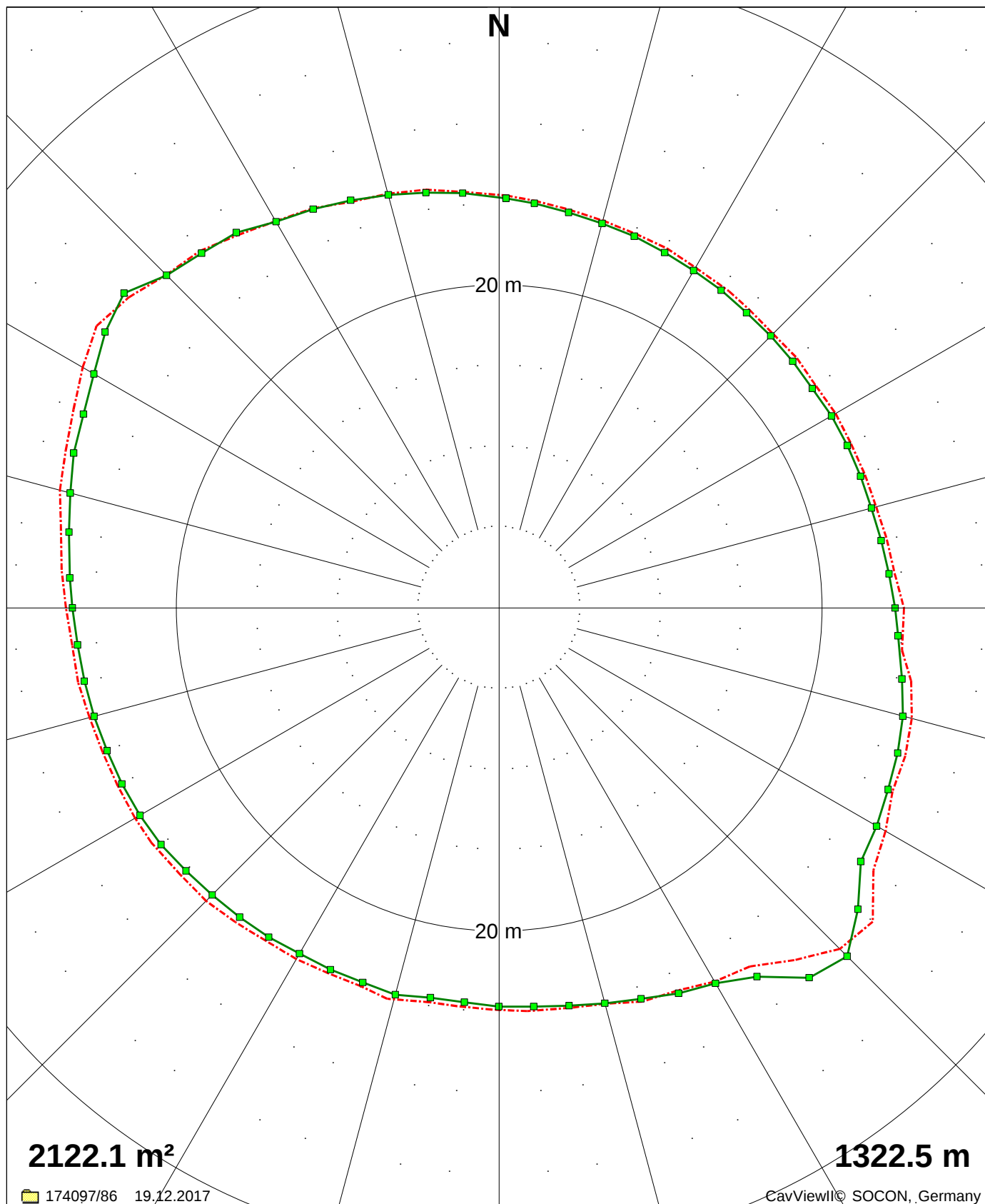
--- (19.05.2014) (2143.2 m²)

—■— (19.12.2017) (2102.6 m²)

$d_{\max}$: 59.2 m 135° <--> 315° $r_{\min}$: 23.5 m -> 52° $r_{\sim}$: 25.9 m $r_{\max}$: 30.3 m -> 309°

Heiligerlee K

19.12.2017



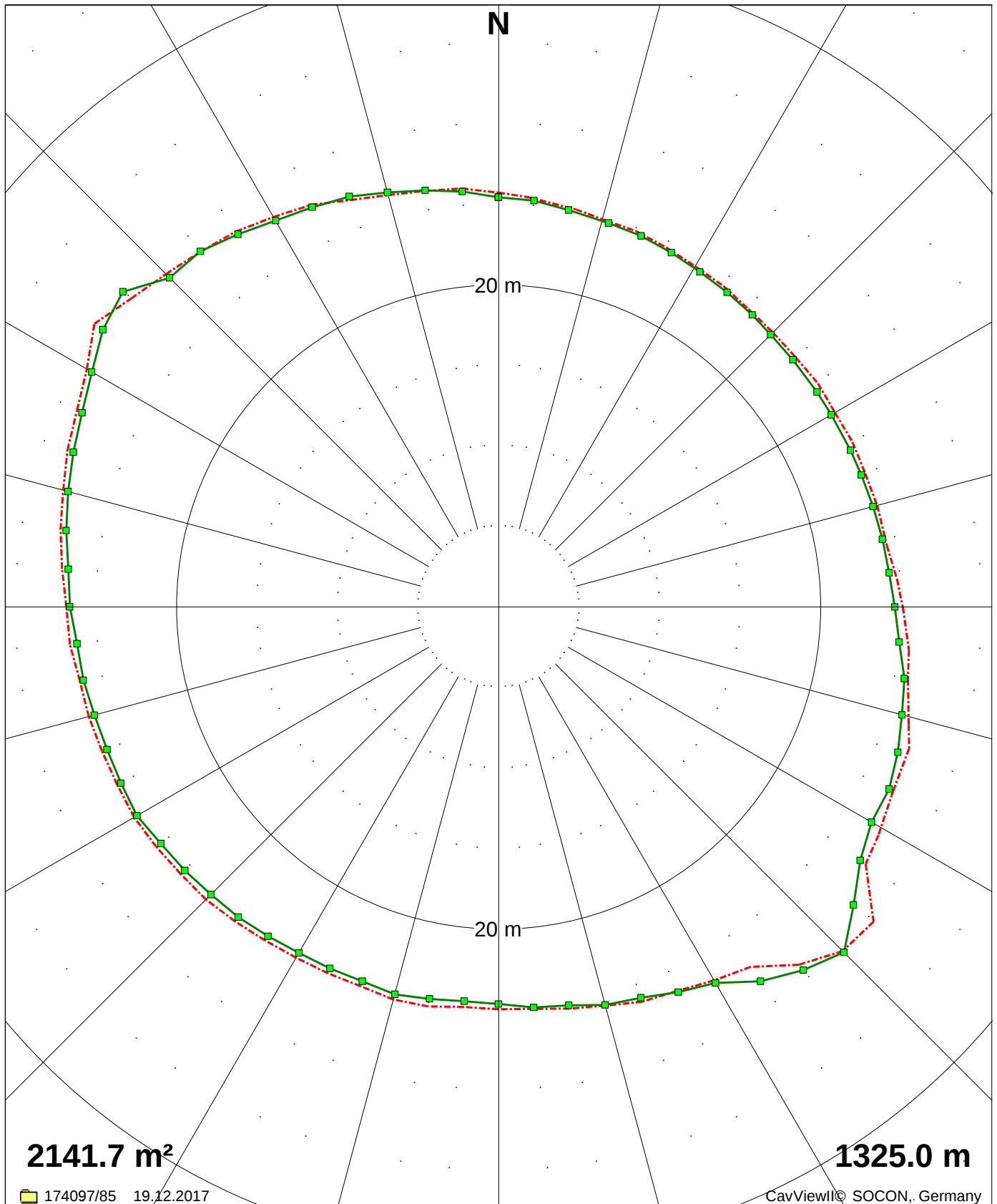
--- (19.05.2014) (2163.0 m²)

—■ (19.12.2017) (2122.1 m²)

$d_{\max}$: 59.6 m 135° <--> 315° $r_{\min}$: 23.7 m -> 53° $r_{\sim}$: 26.0 m $r_{\max}$: 30.5 m -> 135°

Heiligerlee K

19.12.2017



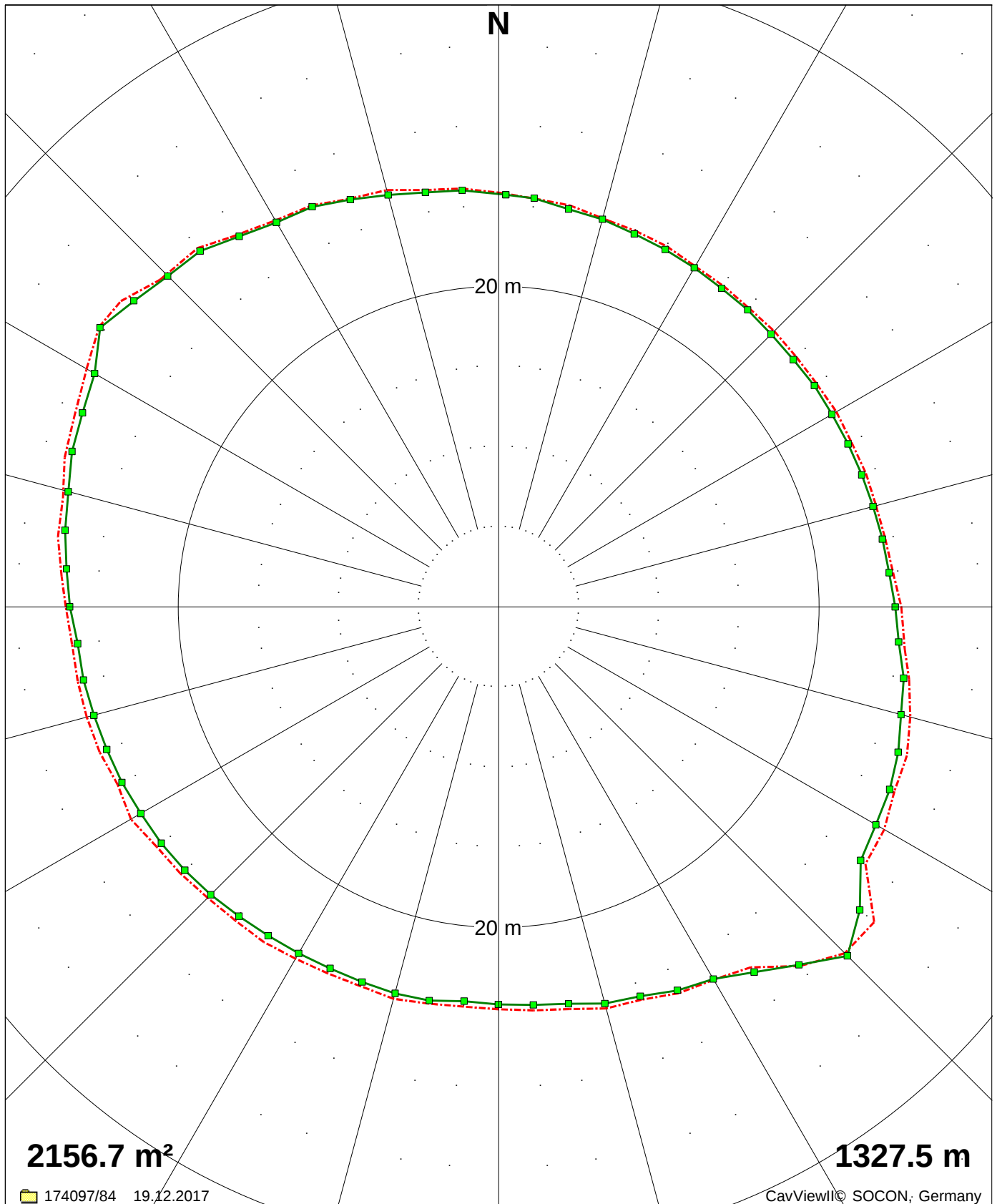
--- (19.05.2014) (2180.1 m²)

—■— (19.12.2017) (2141.7 m²)

$d_{\max}$: 59.2 m 135° <--> 315° $r_{\min}$: 23.8 m -> 52° $r_{\sim}$: 26.1 m $r_{\max}$: 30.5 m -> 310°

Heiligerlee K

19.12.2017



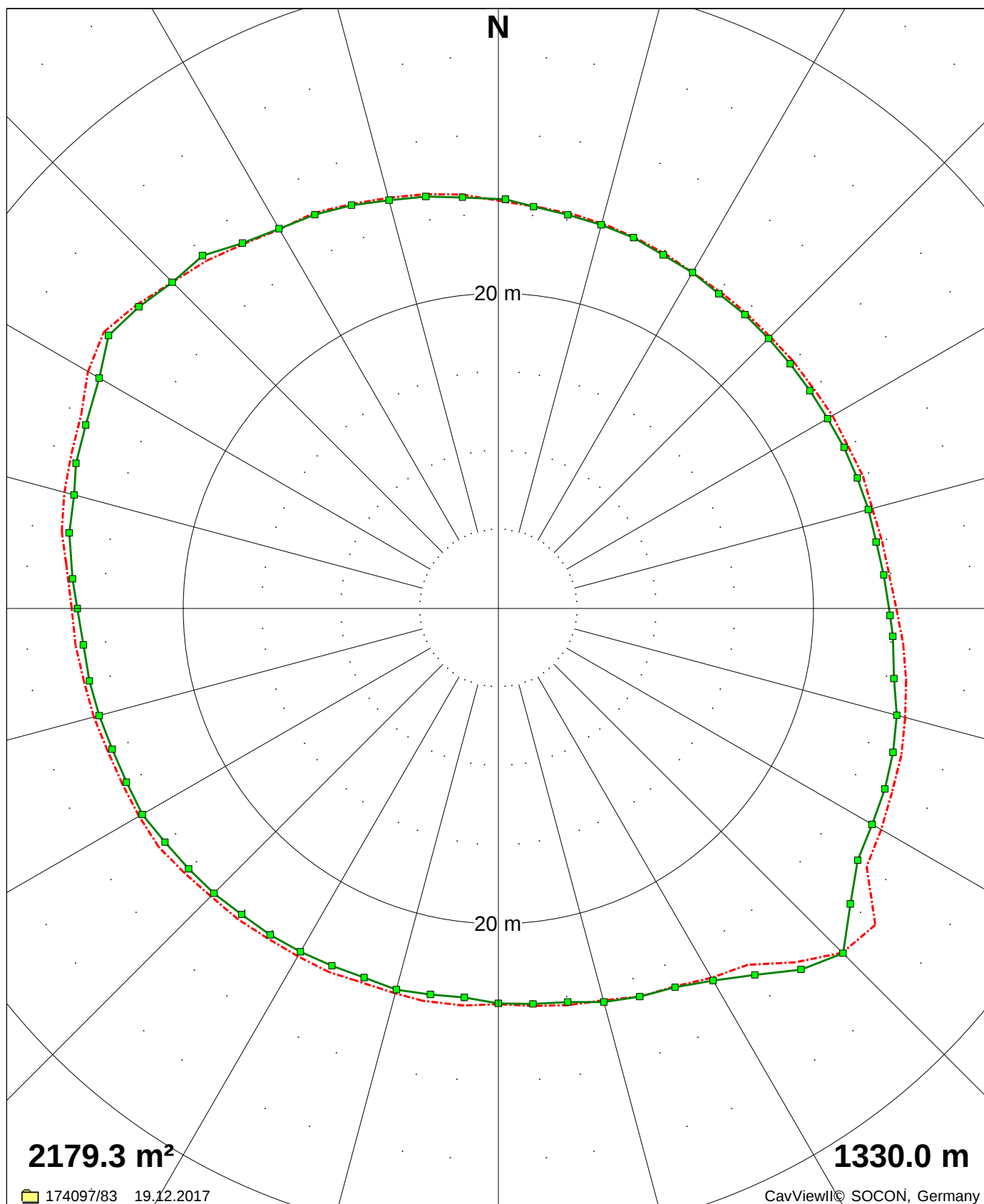
--- (19.05.2014) (2203.7 m²)

—■— (19.12.2017) (2156.7 m²)

$d_{\max}$: 60.0 m 135° <--> 315° $r_{\min}$: 24.0 m -> 48° $r_{\sim}$: 26.2 m $r_{\max}$: 30.8 m -> 135°

Heiligerlee K

19.12.2017



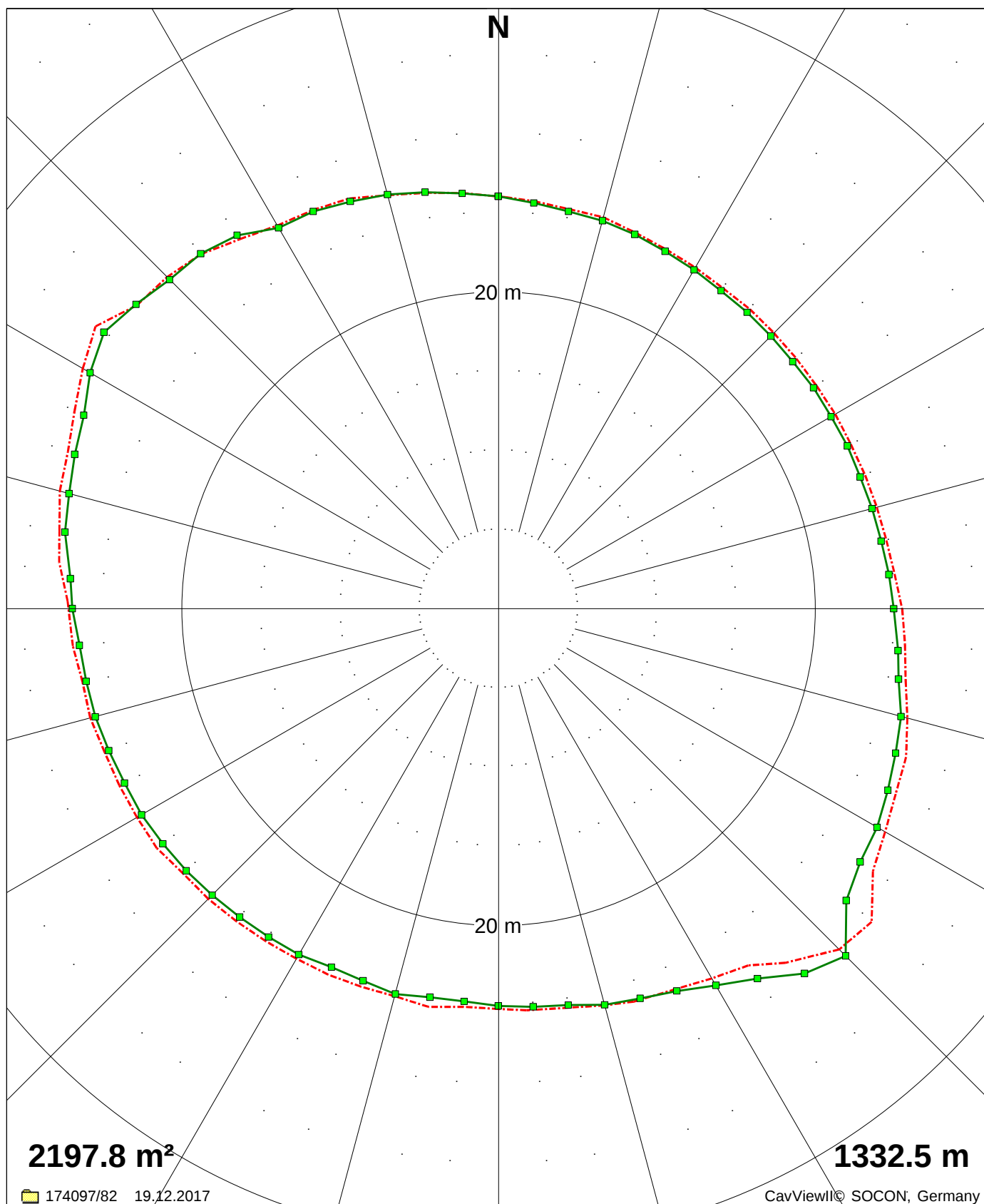
--- (19.05.2014) (2223.4 m²)

—■— (19.12.2017) (2179.3 m²)

$d_{\max}$: 60.2 m 135° <--> 315° $r_{\min}$: 24.1 m -> 57° $r_{\sim}$: 26.3 m $r_{\max}$: 30.9 m -> 135°

Heiligerlee K

19.12.2017



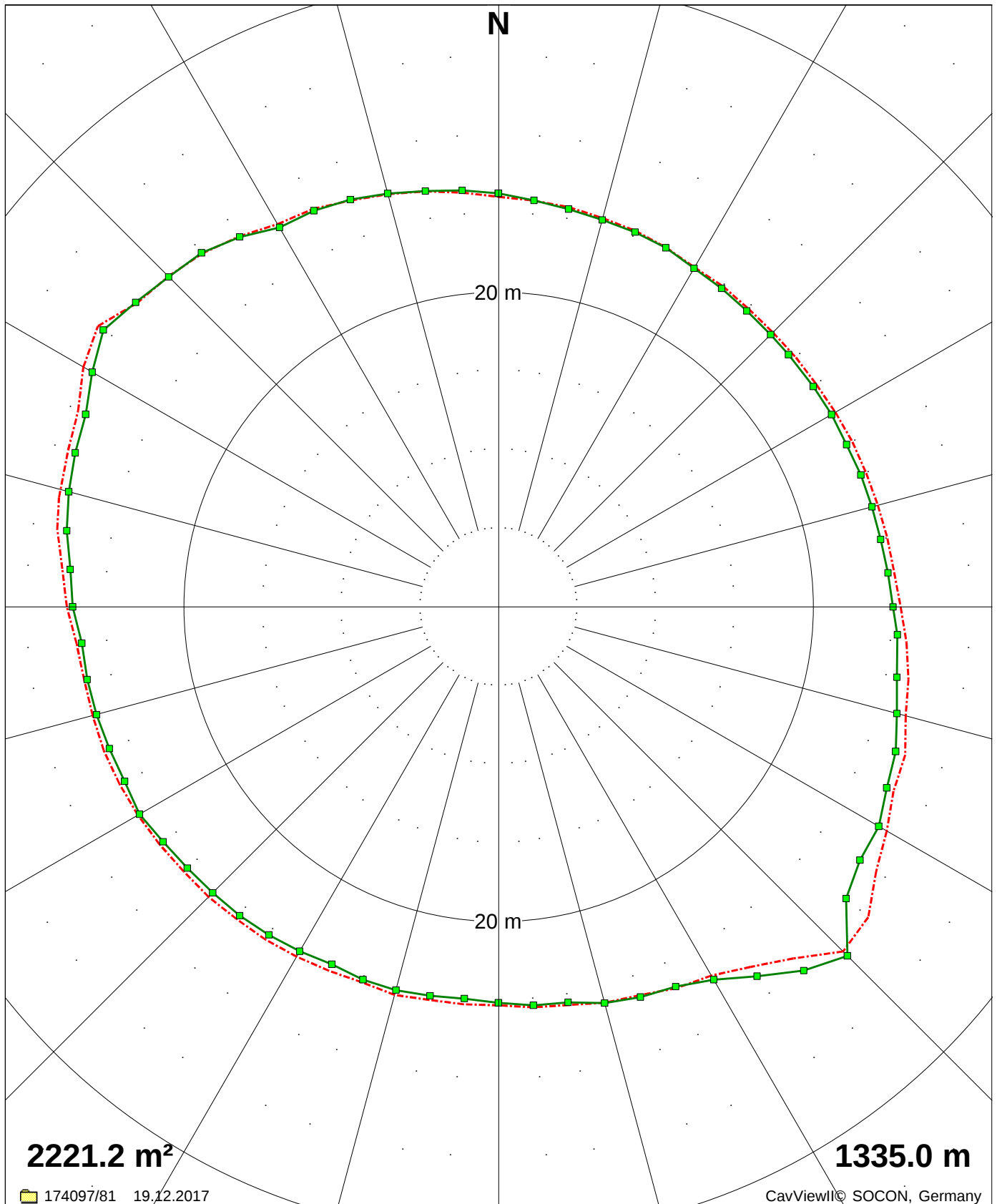
--- (19.05.2014) (2241.0 m²)

—■— (19.12.2017) (2197.8 m²)

$d_{\max}$: 60.4 m 135° <--> 315° $r_{\min}$: 24.2 m -> 58° $r_{\sim}$: 26.4 m $r_{\max}$: 31.0 m -> 135°

Heiligerlee K

19.12.2017



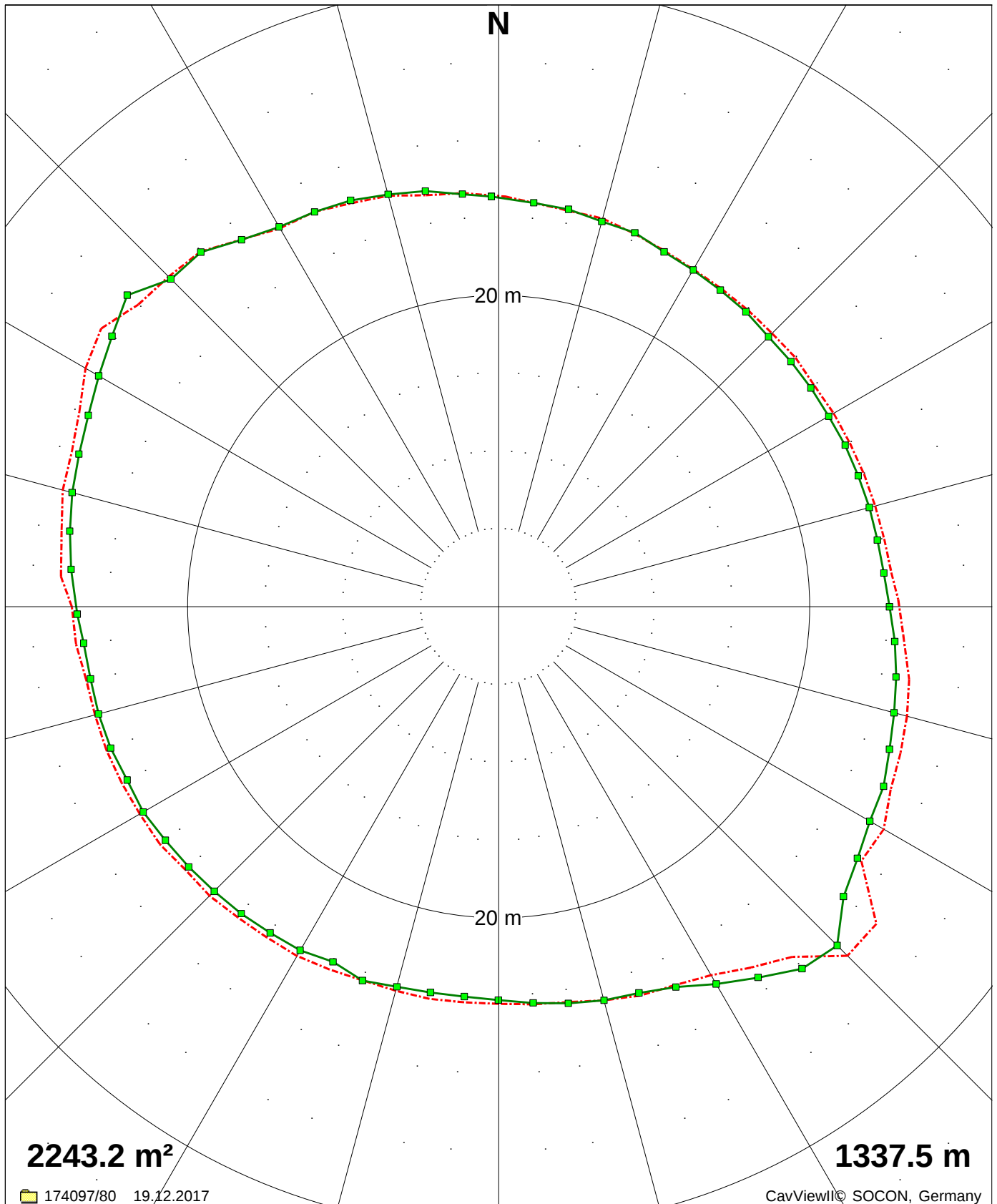
--- (19.05.2014) (2263.1 m²)

—■— (19.12.2017) (2221.2 m²)

$d_{\max}$: 61.0 m 135° <--> 315° $r_{\min}$: 24.4 m -> 51° $r_{\sim}$: 26.6 m $r_{\max}$: 31.4 m -> 135°

Heiligerlee K

19.12.2017



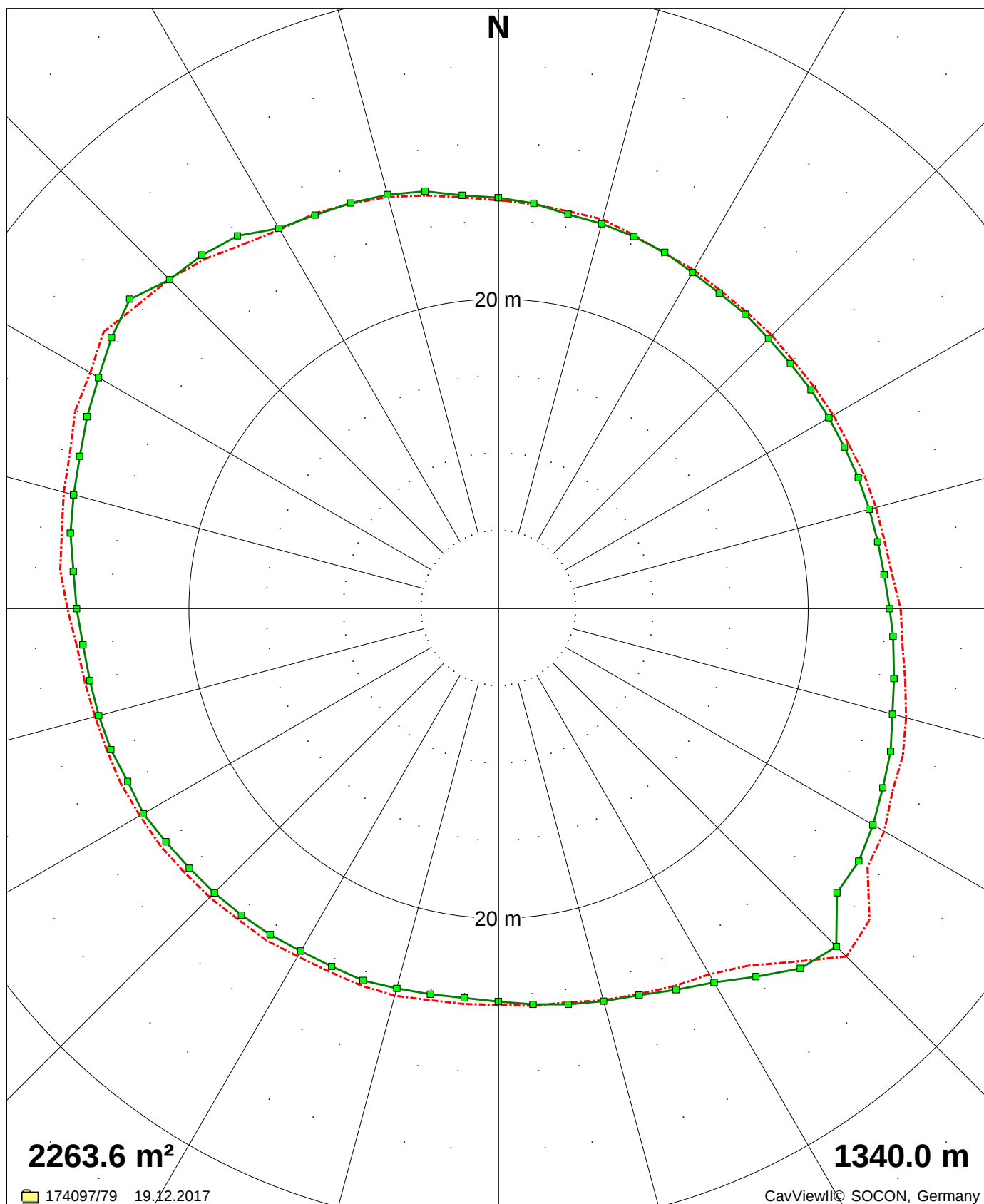
--- (19.05.2014) (2292.0 m²)

—■— (19.12.2017) (2243.2 m²)

$d_{\max}$: 60.5 m 135° <--> 315° $r_{\min}$: 24.5 m -> 57° $r_{\sim}$: 26.7 m $r_{\max}$: 31.1 m -> 310°

Heiligerlee K

19.12.2017



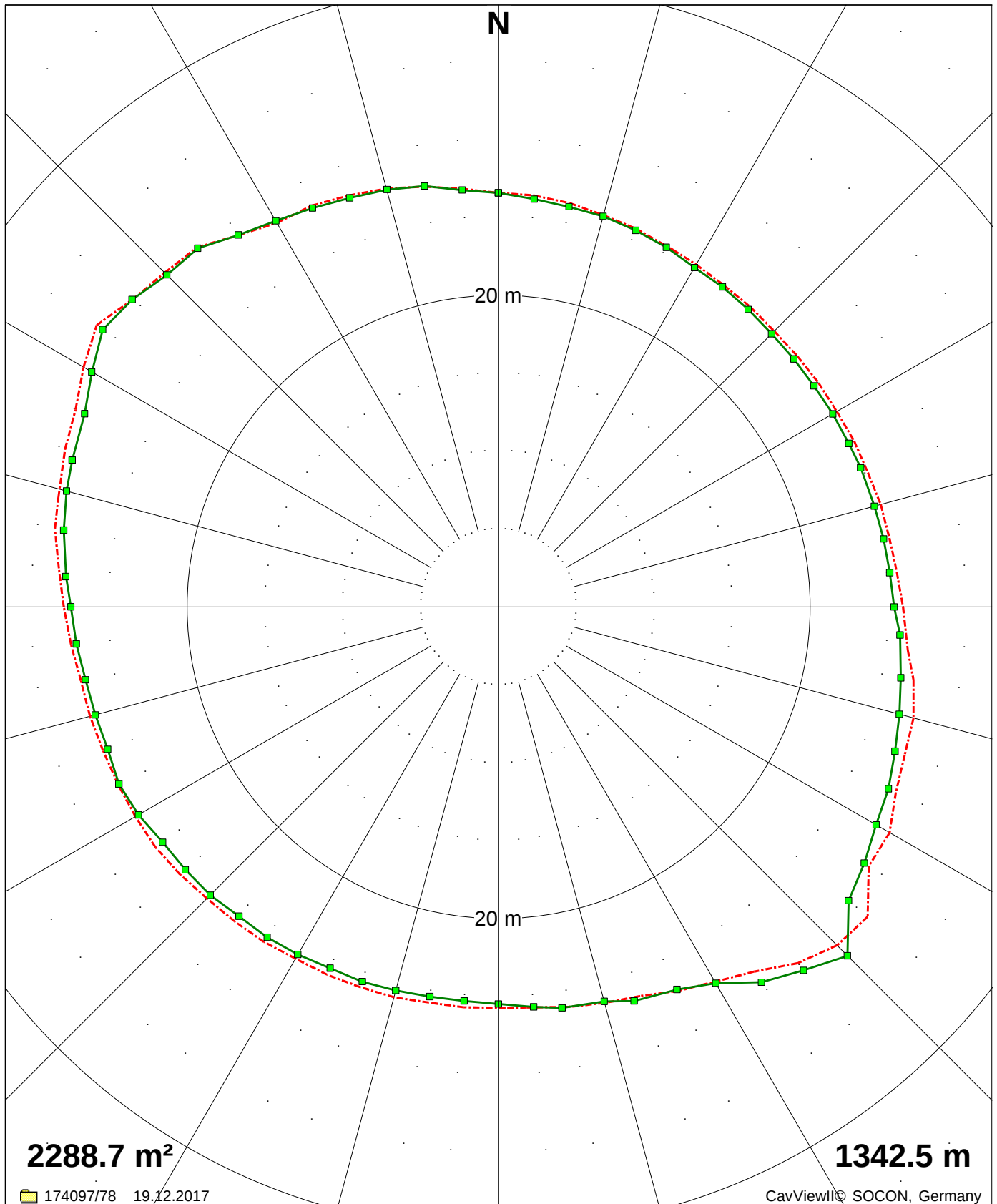
--- (19.05.2014) (2313.8 m²)

—■— (19.12.2017) (2263.6 m²)

$d_{\max}$: 60.9 m 135° <--> 315° $r_{\min}$: 24.6 m -> 51° $r_{\sim}$: 26.8 m $r_{\max}$: 31.1 m -> 310°

Heiligerlee K

19.12.2017



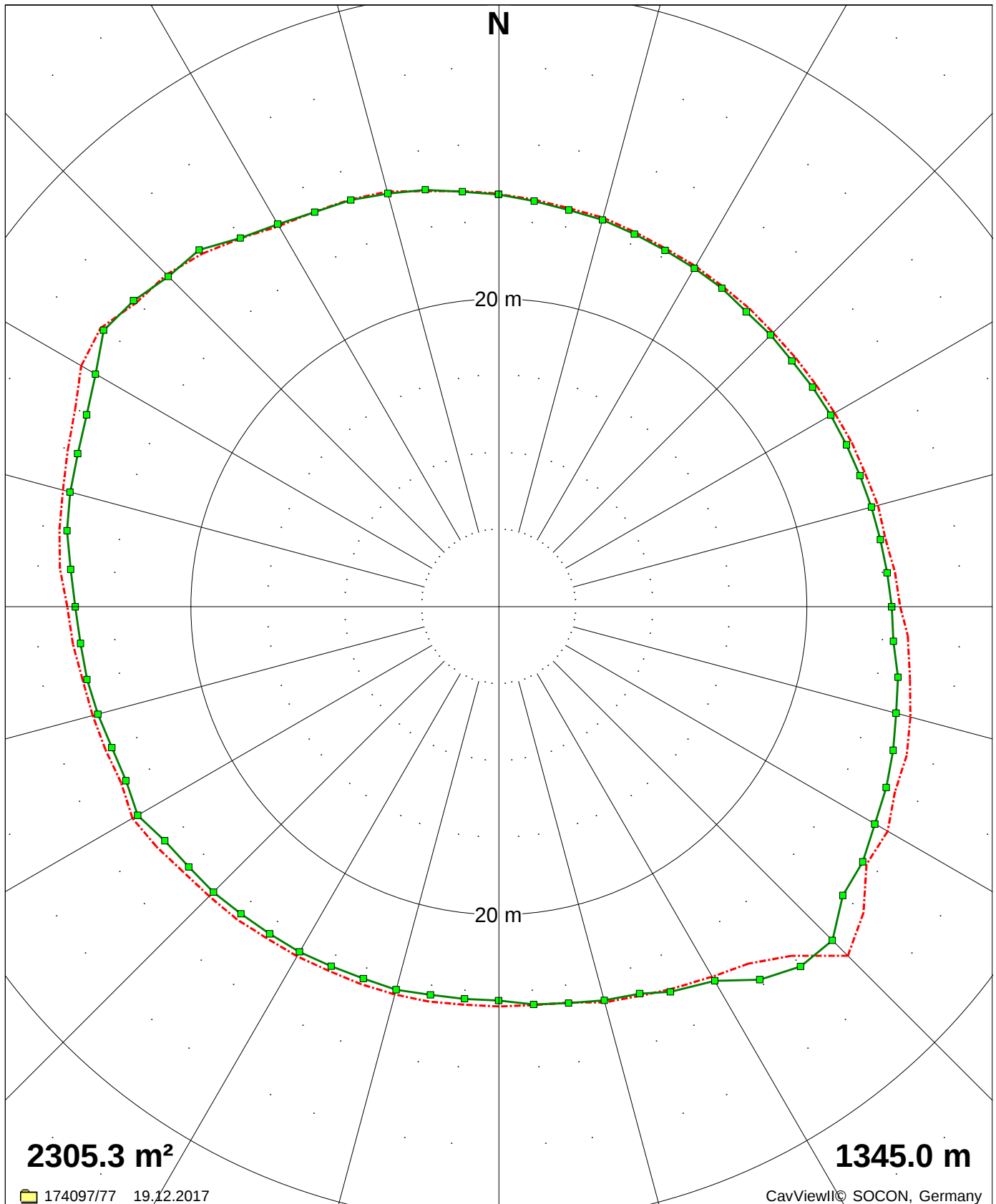
--- (19.05.2014) (2335.5 m²)

—■— (19.12.2017) (2288.7 m²)

$d_{\max}$: 61.8 m 135° <--> 315° $r_{\min}$: 24.7 m -> 52° $r_{\sim}$: 27.0 m $r_{\max}$: 31.6 m -> 135°

Heiligerlee K

19.12.2017



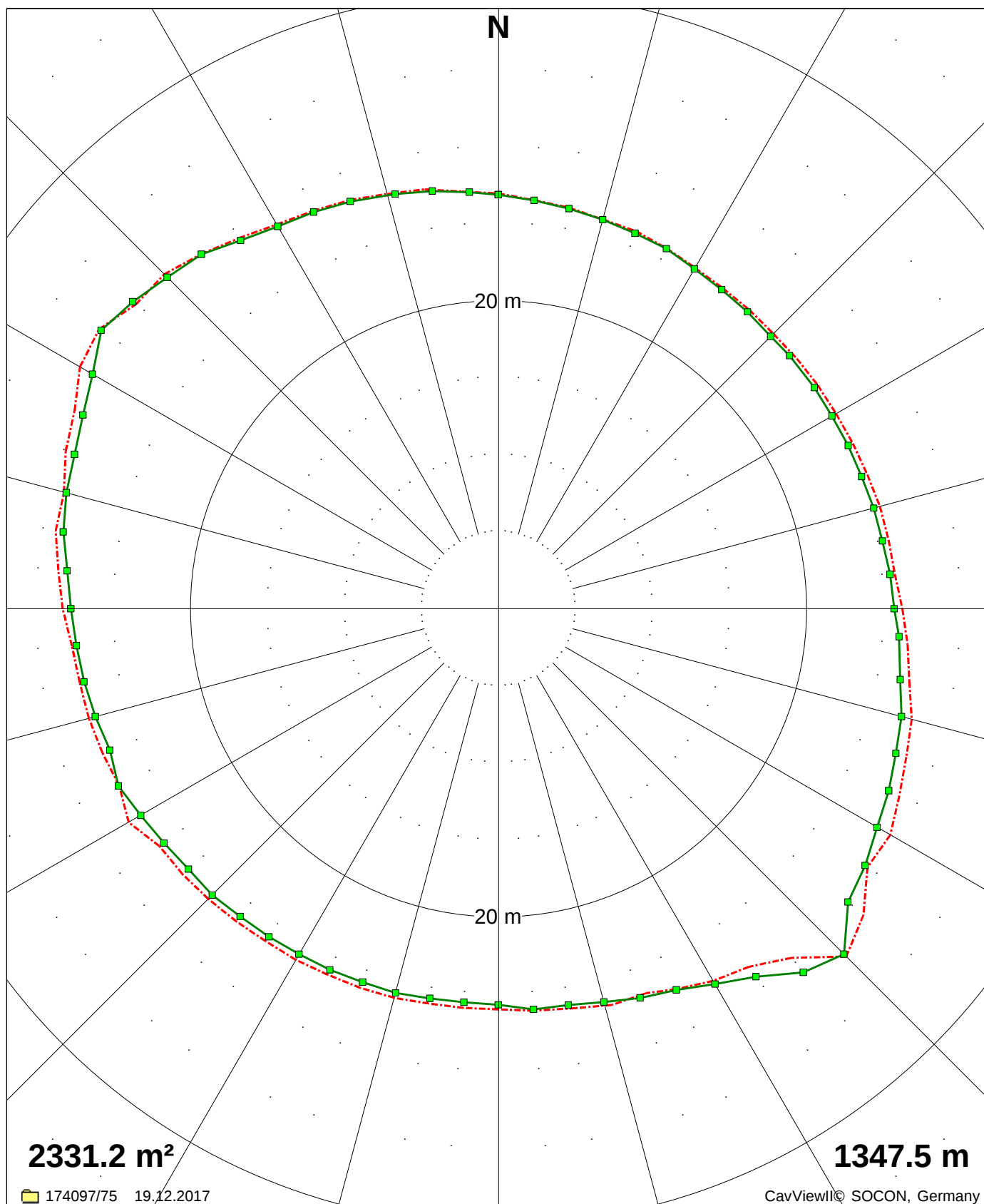
--- (19.05.2014) (2360.4 m²)

—■— (19.12.2017) (2305.3 m²)

$d_{\max}$: 60.9 m 135° <--> 315° $r_{\min}$: 24.8 m -> 51° $r_{\sim}$: 27.1 m $r_{\max}$: 31.3 m -> 305°

Heiligerlee K

19.12.2017



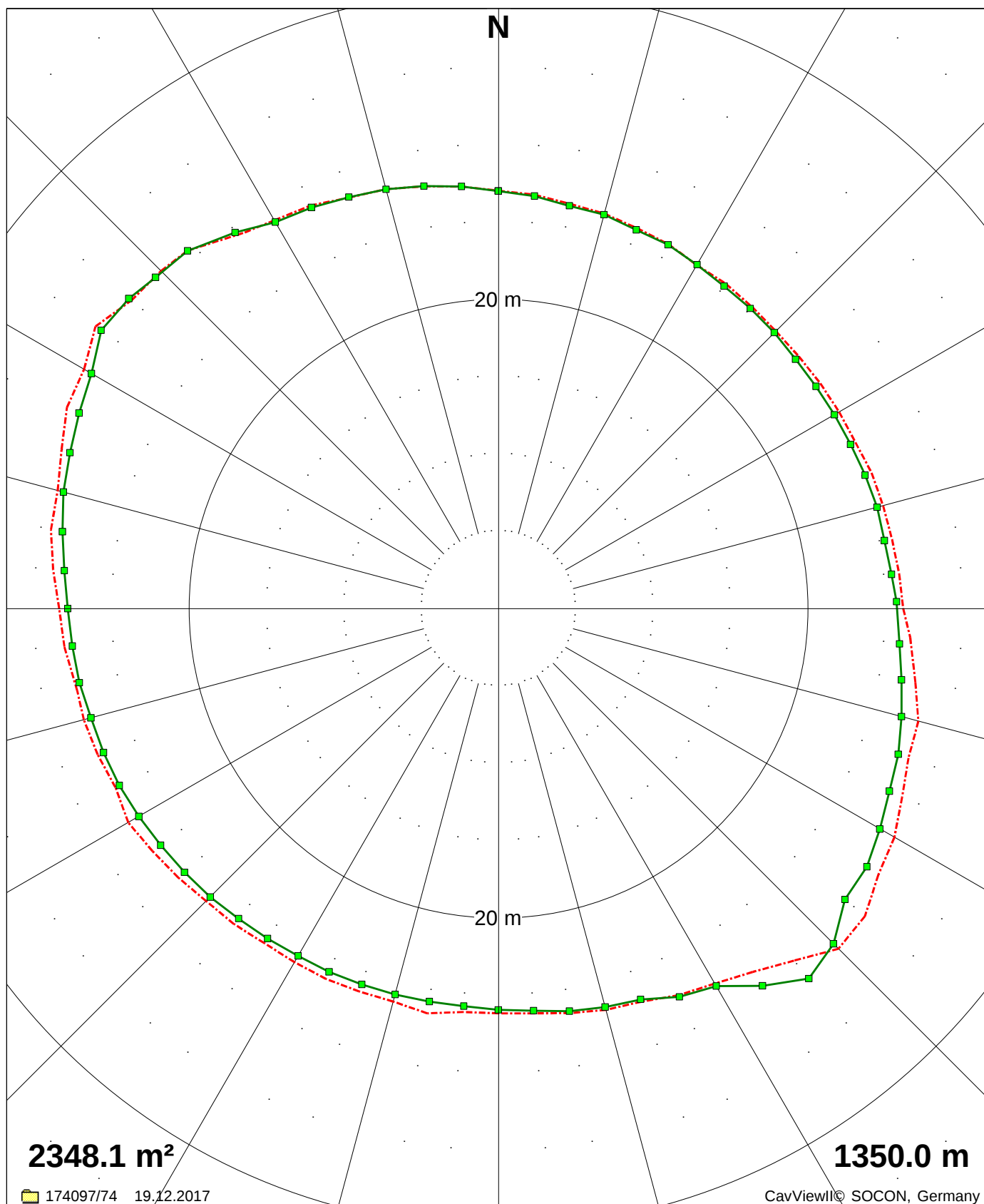
--- (19.05.2014) (2378.8 m²)

—■— (19.12.2017) (2331.2 m²)

$d_{\max}$: 62.1 m 135° <--> 315° $r_{\min}$: 25.0 m -> 57° $r_{\sim}$: 27.2 m $r_{\max}$: 31.7 m -> 135°

Heiligerlee K

19.12.2017



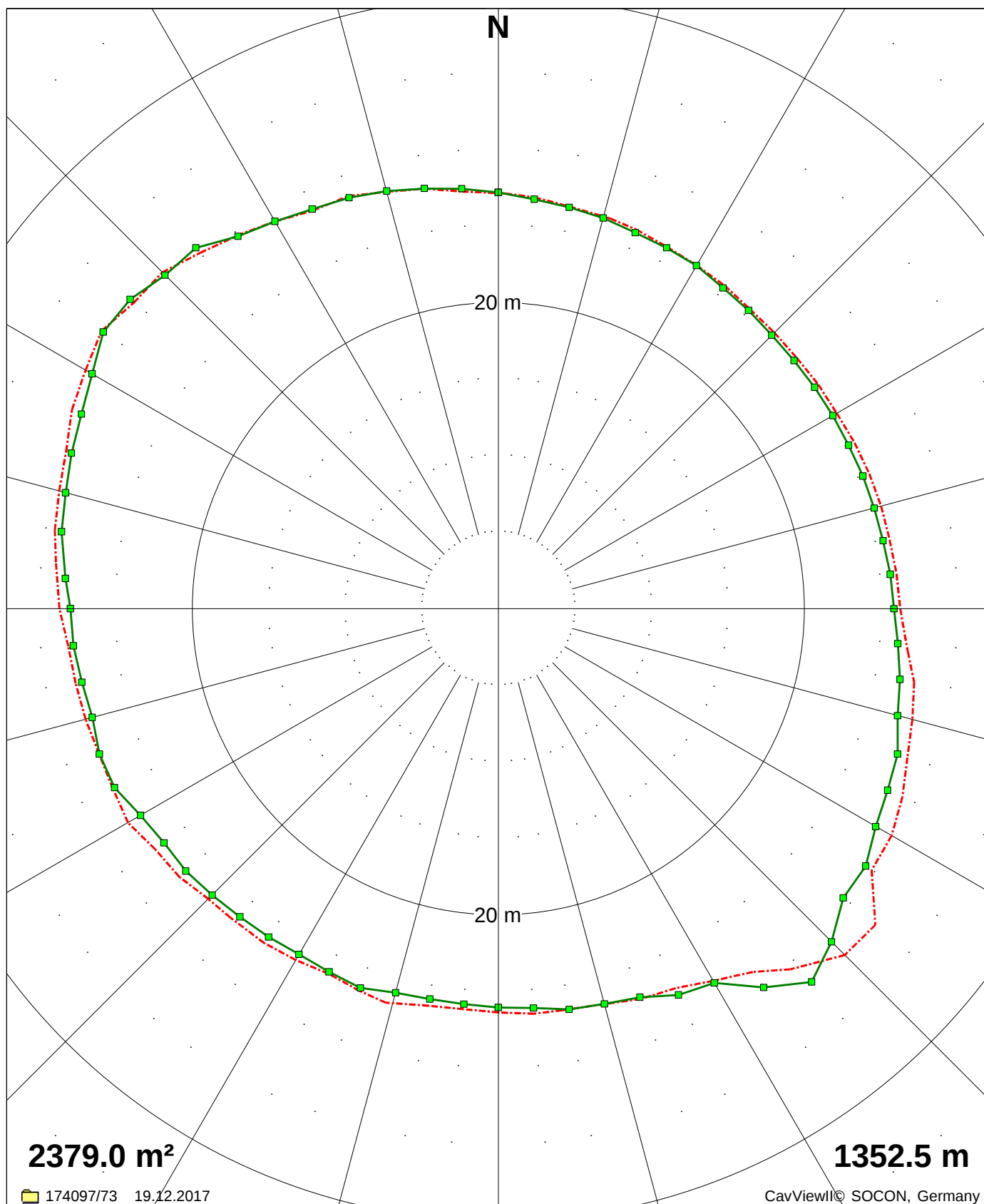
--- (19.05.2014) (2405.1 m²)

—■— (19.12.2017) (2348.1 m²)

$d_{\max}$: 61.7 m 139° <--> 319° $r_{\min}$: 25.0 m -> 52° $r_{\sim}$: 27.3 m $r_{\max}$: 31.4 m -> 305°

Heiligerlee K

19.12.2017



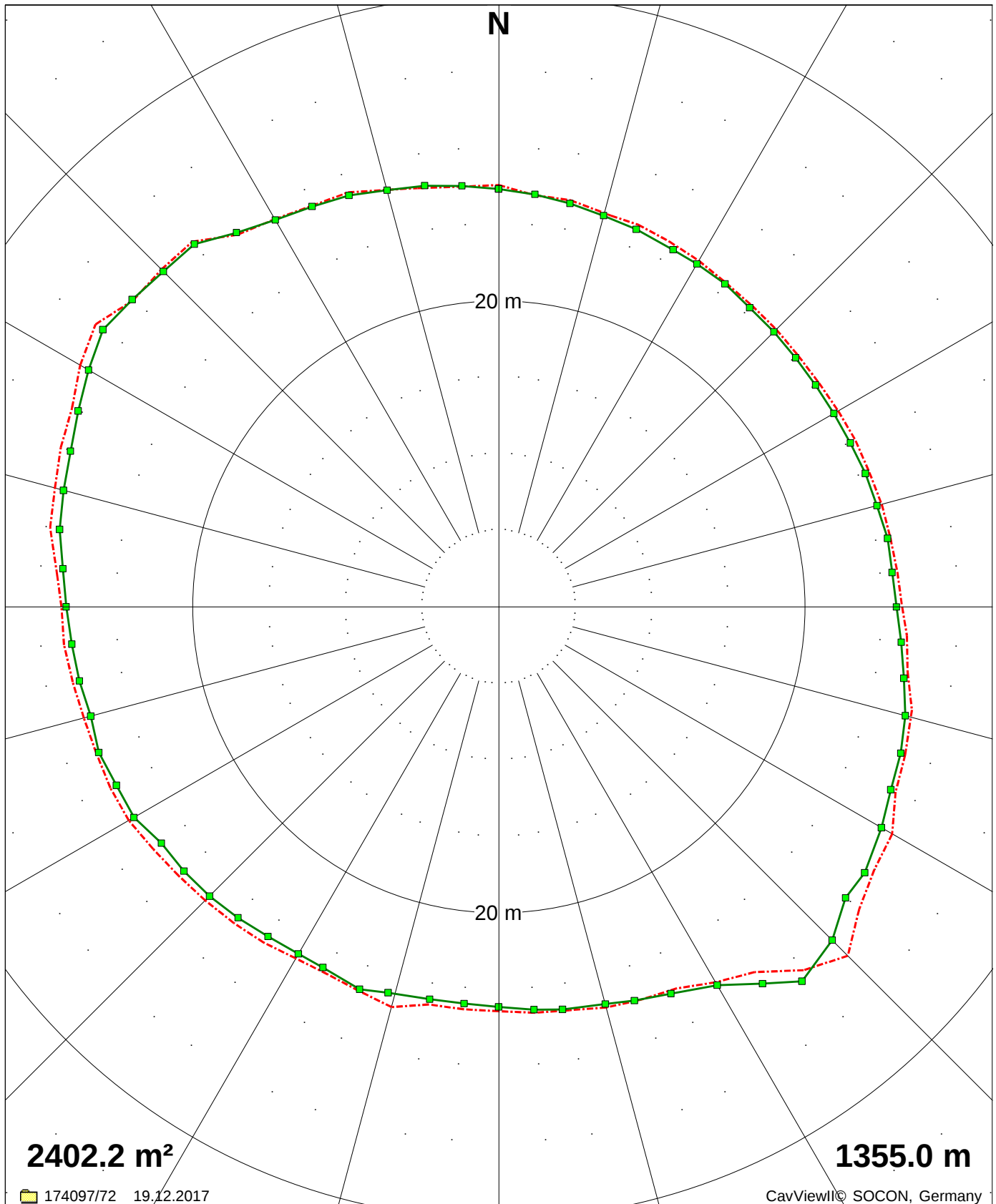
--- (19.05.2014) (2433.1 m²)

—■— (19.12.2017) (2379.0 m²)

d_{max}: 62.6 m 140° <--> 320° r_{min}: 25.2 m -> 51° r~: 27.5 m r_{max}: 31.8 m -> 140°

Heiligerlee K

19.12.2017



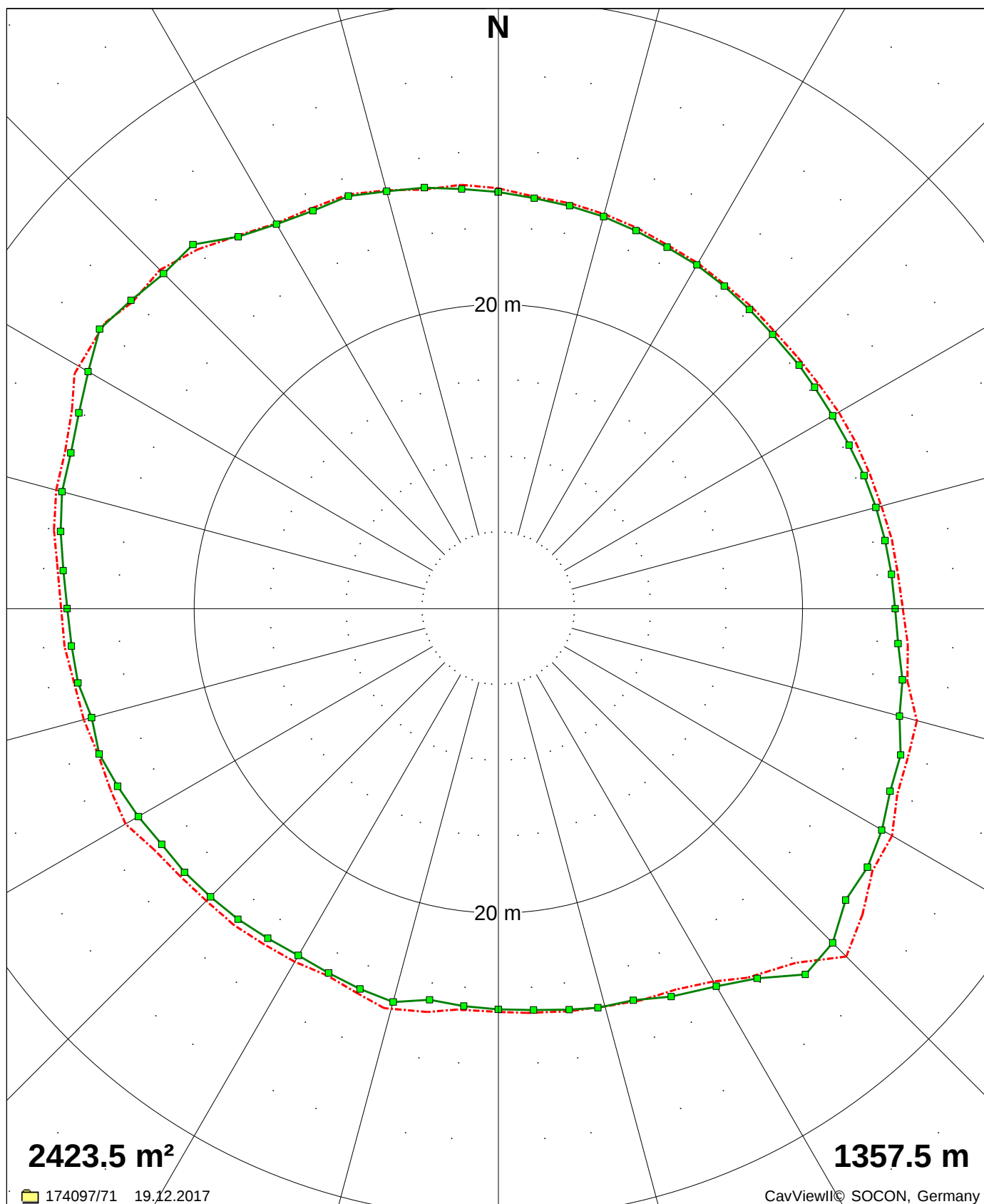
--- (19.05.2014) (2453.5 m²)

—■— (19.12.2017) (2402.2 m²)

$d_{\max}$: 62.3 m 140° <--> 320° $r_{\min}$: 25.2 m -> 57° $r_{\sim}$: 27.7 m $r_{\max}$: 31.6 m -> 305°

Heiligerlee K

19.12.2017



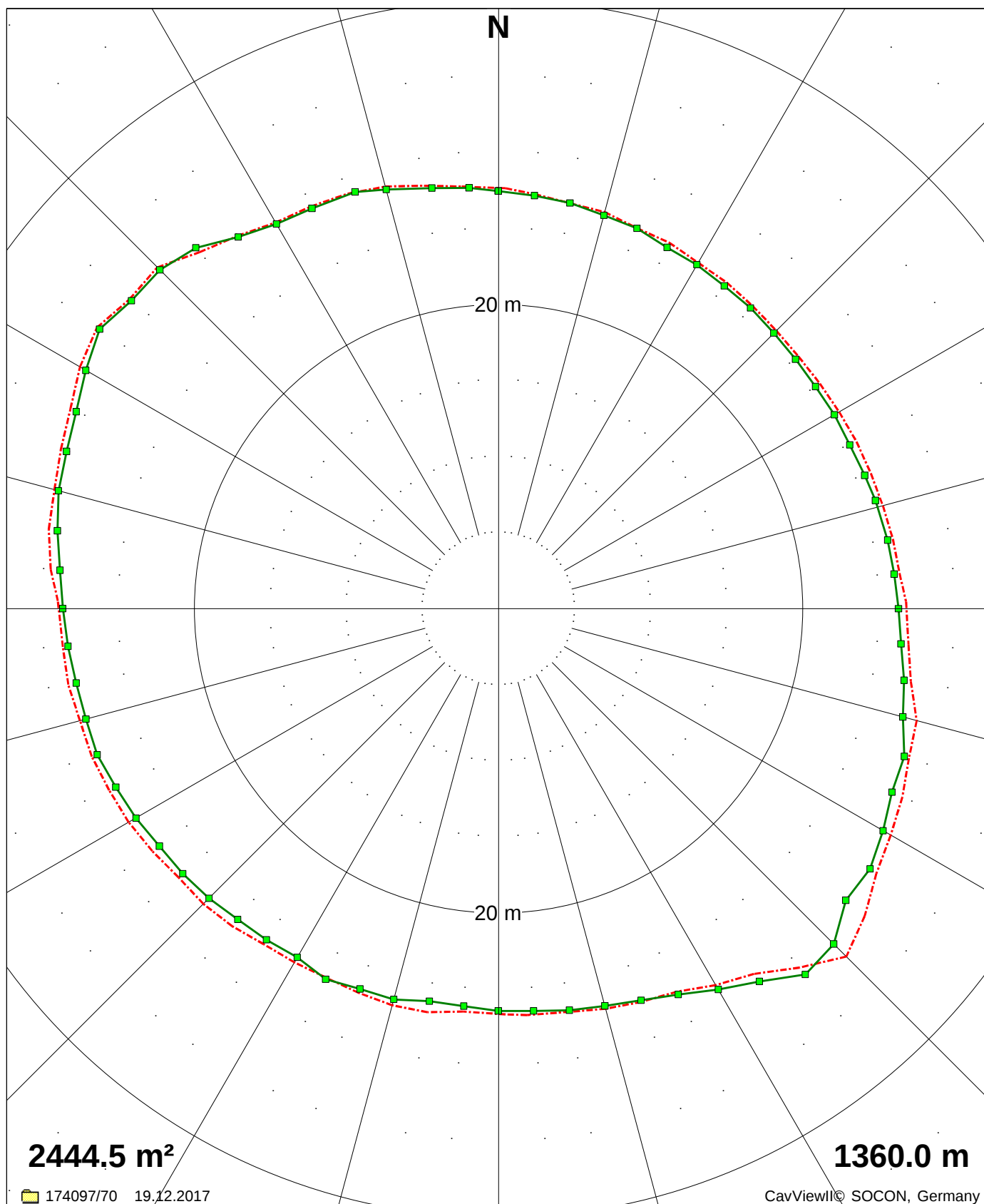
--- (19.05.2014) (2478.0 m²)

—■— (19.12.2017) (2423.5 m²)

$d_{\max}$: 62.6 m 140° <--> 320° $r_{\min}$: 25.3 m -> 57° $r_{\sim}$: 27.8 m $r_{\max}$: 32.0 m -> 305°

Heiligerlee K

19.12.2017



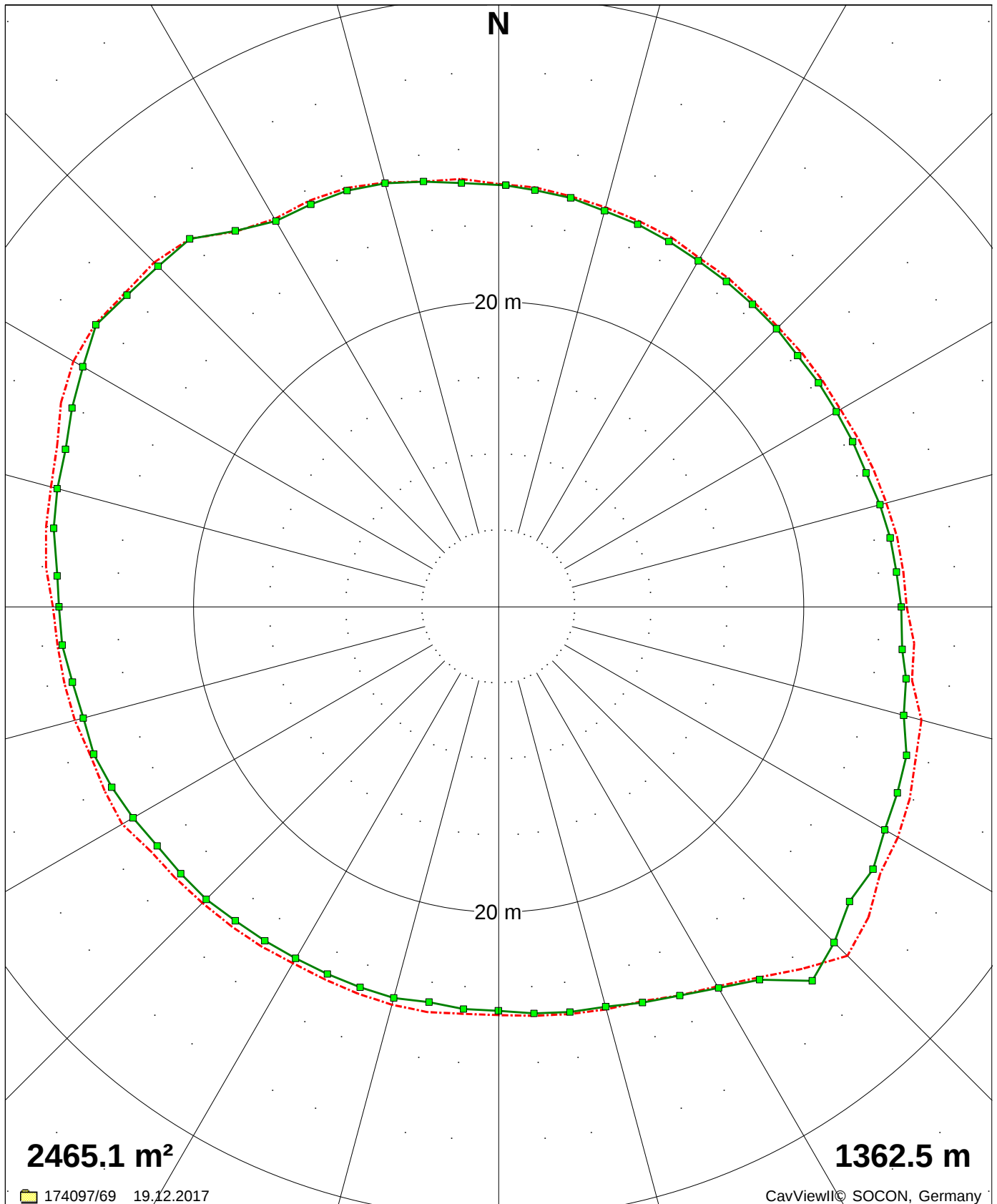
--- (19.05.2014) (2499.0 m²)

—■— (19.12.2017) (2444.5 m²)

$d_{\max}$: 62.7 m 135° <--> 315° $r_{\min}$: 25.4 m -> 56° $r_{\sim}$: 27.9 m $r_{\max}$: 32.0 m -> 305°

Heiligerlee K

19.12.2017



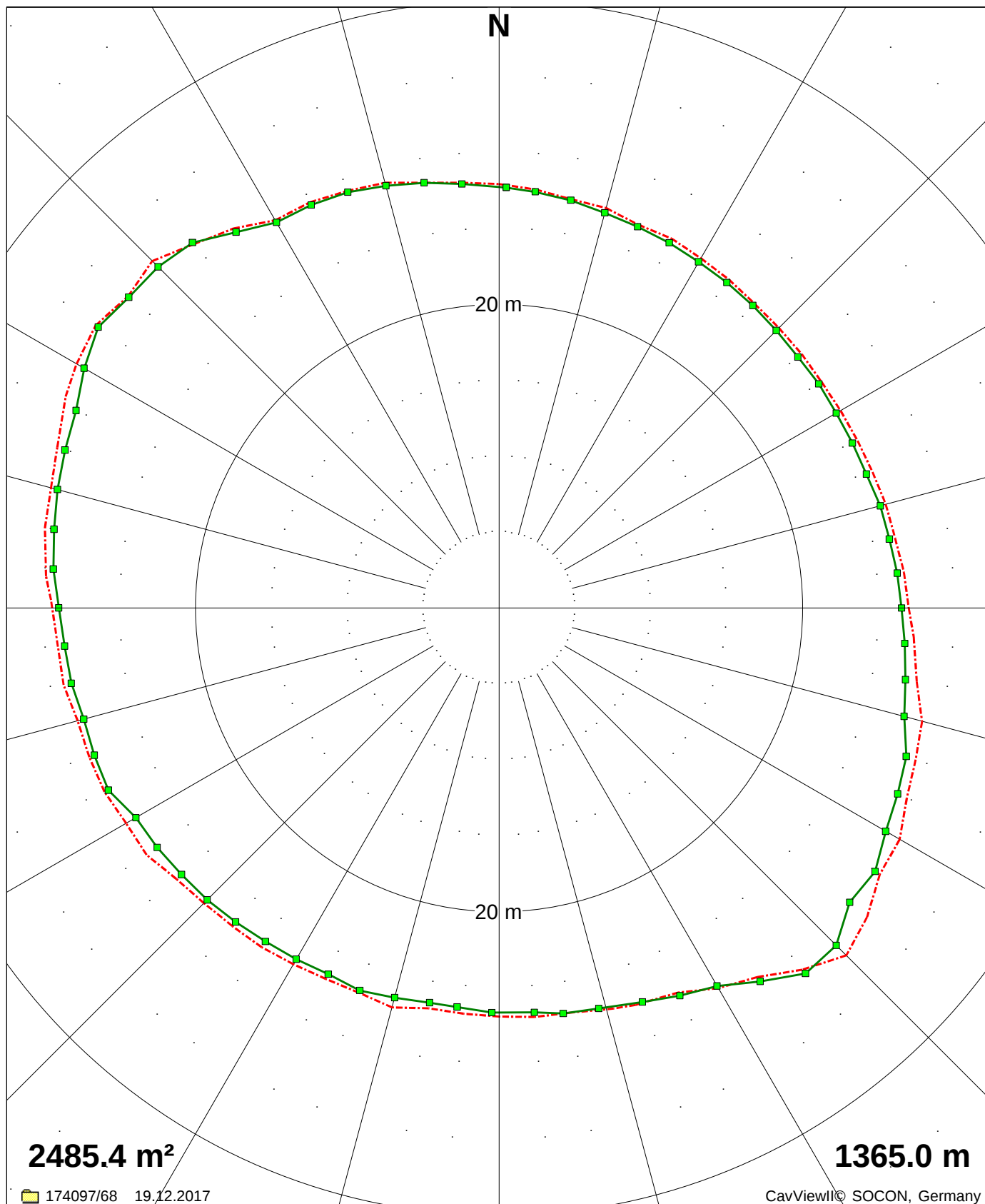
--- (19.05.2014) (2530.9 m²)

—■— (19.12.2017) (2465.1 m²)

$d_{\max}$: 63.4 m 140° <--> 320° $r_{\min}$: 25.5 m -> 57° $r_{\sim}$: 28.0 m $r_{\max}$: 32.2 m -> 305°

Heiligerlee K

19.12.2017



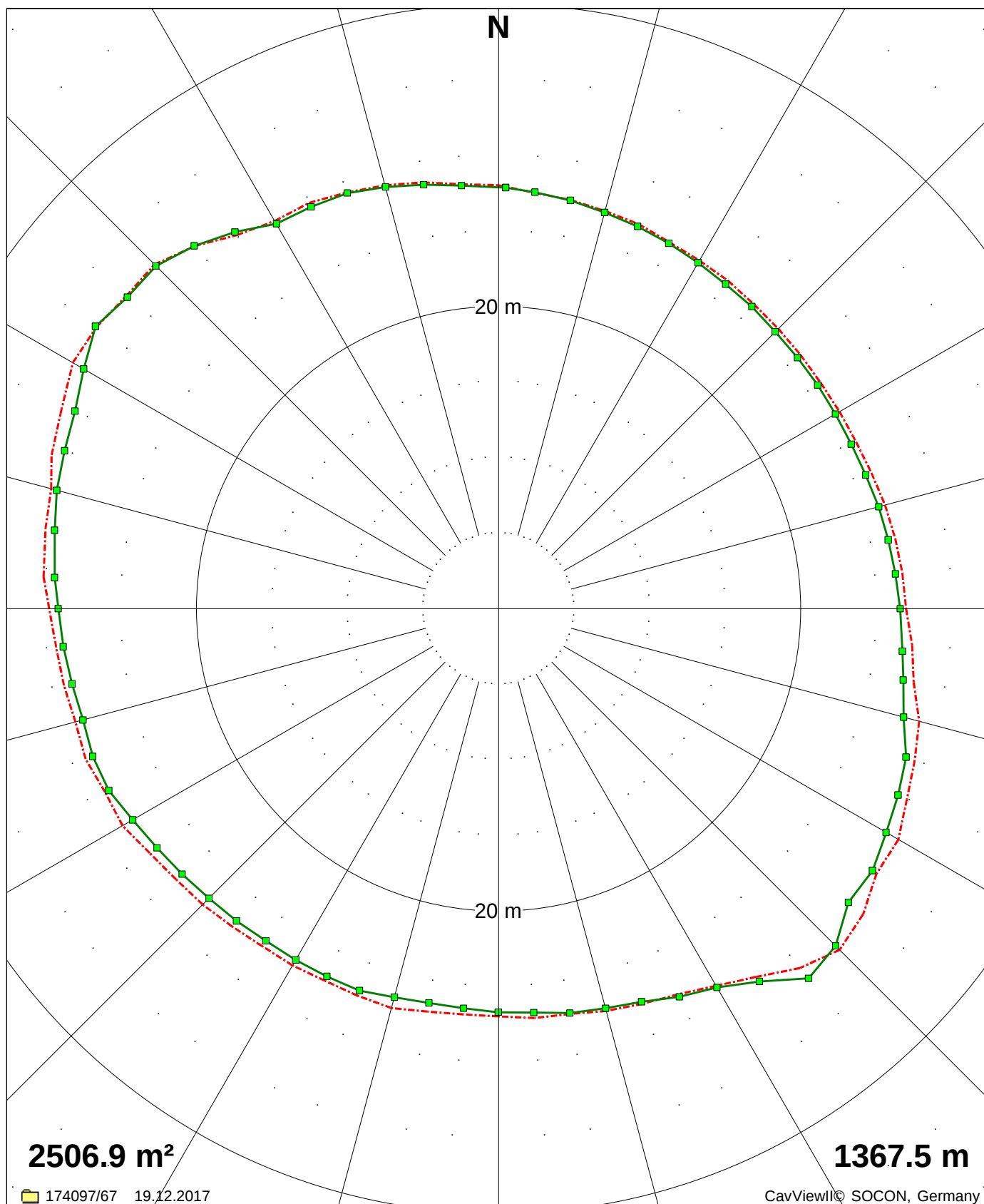
--- (19.05.2014) (2551.2 m²)

—■— (19.12.2017) (2485.4 m²)

$d_{\max}$: 63.2 m 135° <--> 315° $r_{\min}$: 25.6 m -> 61° $r_{\sim}$: 28.1 m $r_{\max}$: 32.2 m -> 305°

Heiligerlee K

19.12.2017



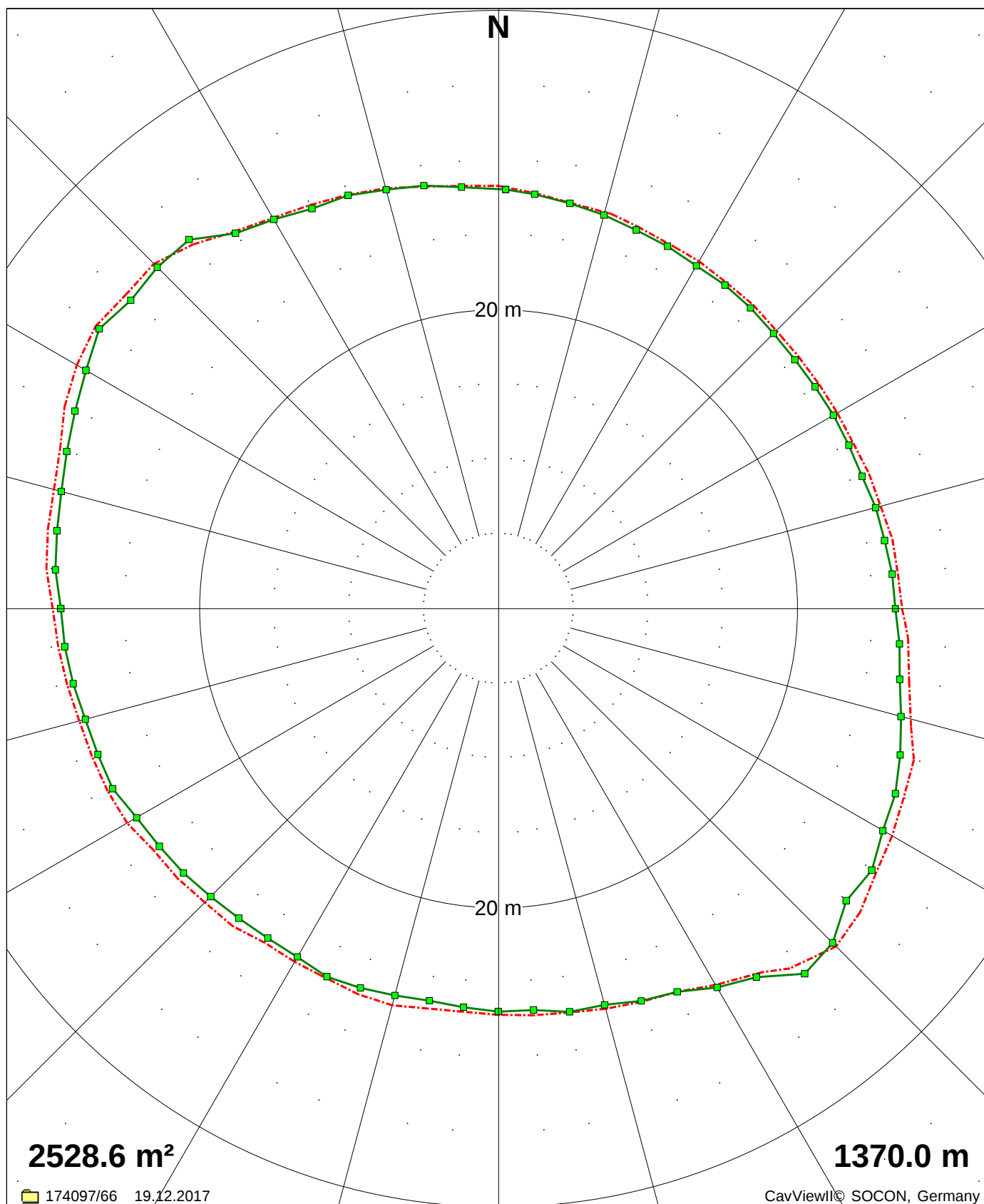
--- (19.05.2014) (2568.7 m²)

—■— (19.12.2017) (2506.9 m²)

$d_{\max}$: 63.6 m 135° <--> 315° $r_{\min}$: 25.7 m -> 62° $r_{\sim}$: 28.2 m $r_{\max}$: 32.5 m -> 305°

Heiligerlee K

19.12.2017



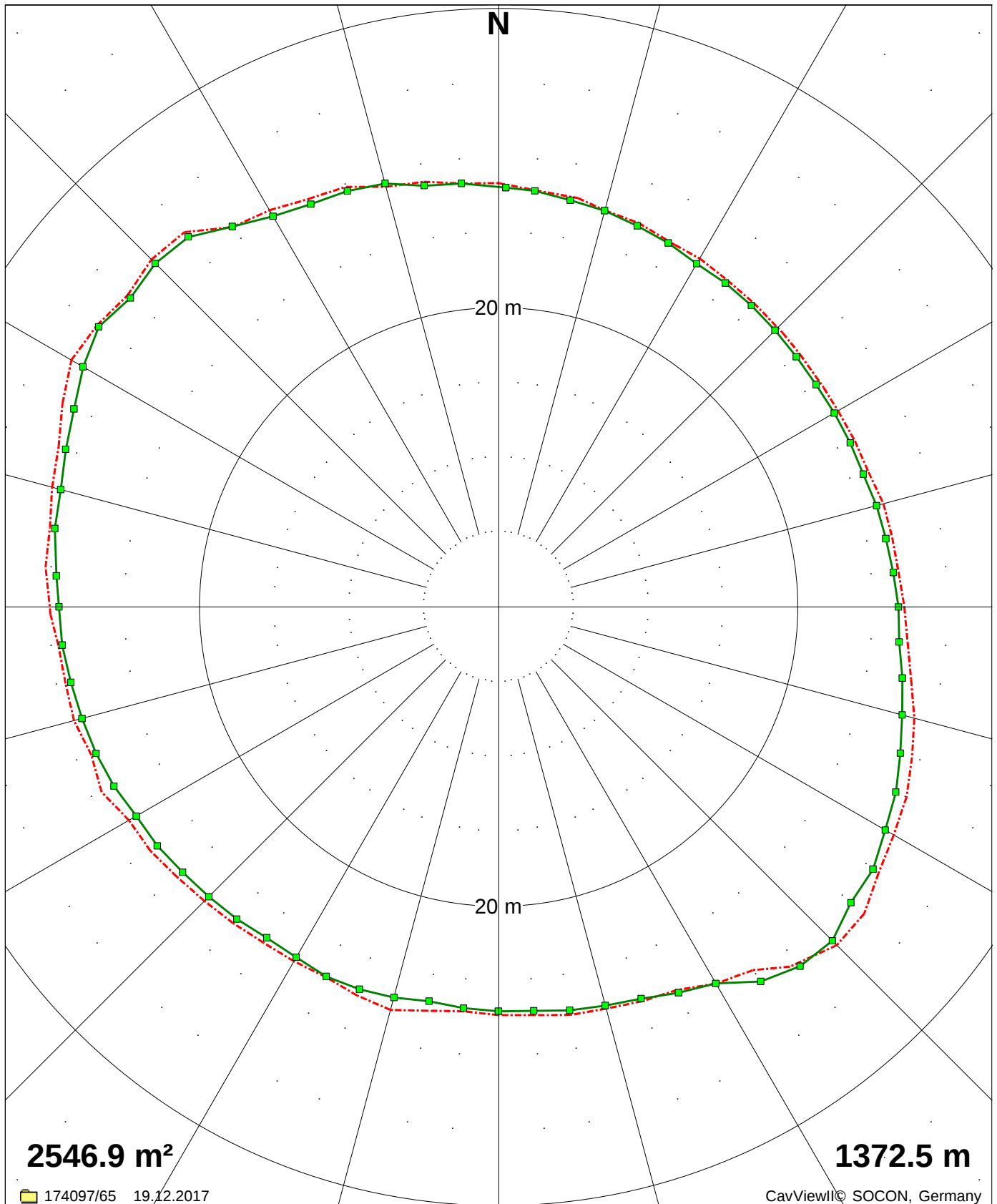
--- (19.05.2014) (2590.5 m²)

— (19.12.2017) (2528.6 m²)

d_{max}: 64.0 m 140° <--> 320° r_{min}: 25.8 m -> 56° r~: 28.4 m r_{max}: 32.6 m -> 305°

Heiligerlee K

19.12.2017



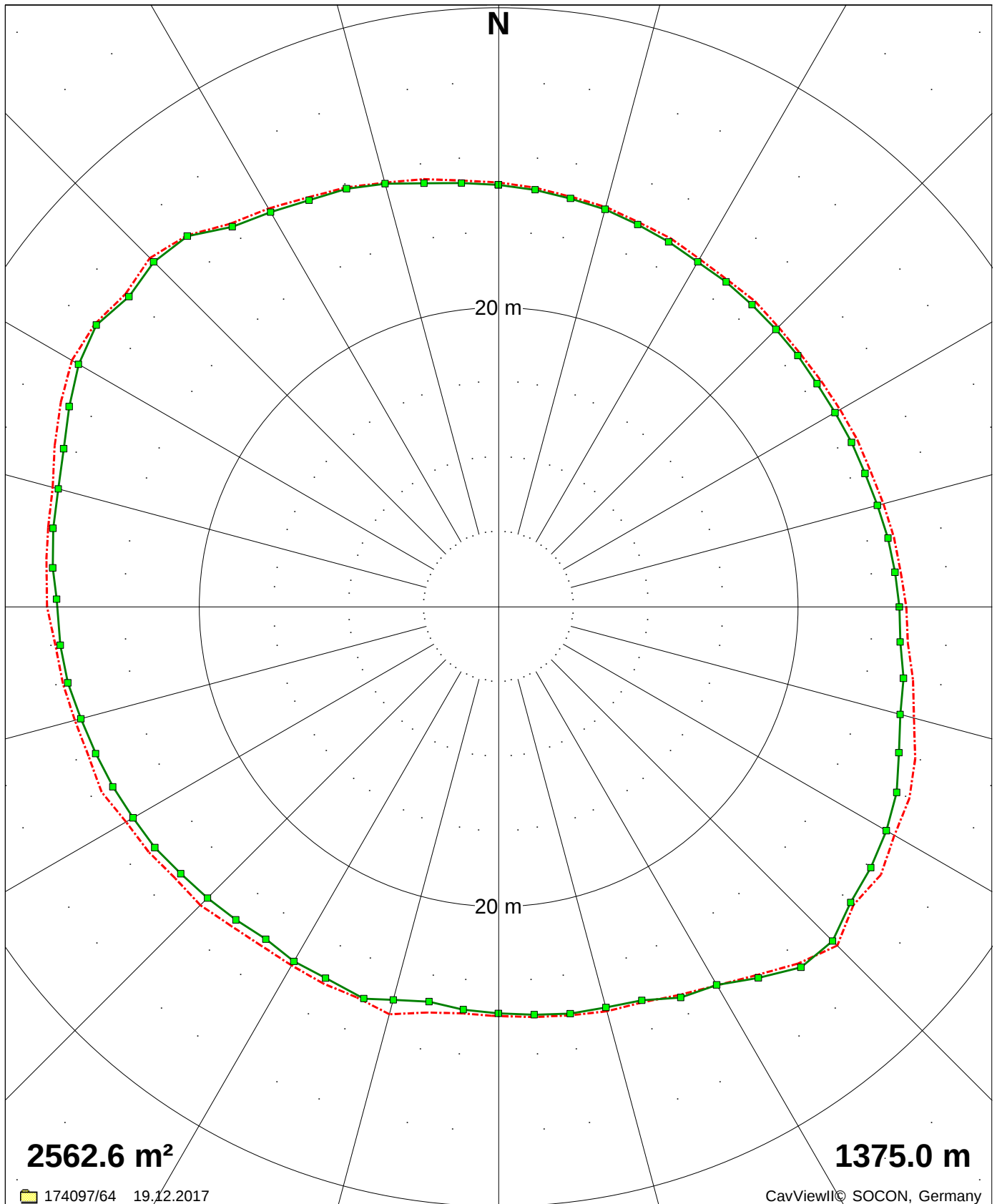
--- (19.05.2014) (2612.7 m²)

—■— (19.12.2017) (2546.9 m²)

$d_{\max}$: 64.0 m 135° <--> 315° $r_{\min}$: 25.9 m -> 57° $r_{\sim}$: 28.5 m $r_{\max}$: 32.6 m -> 305°

Heiligerlee K

19.12.2017



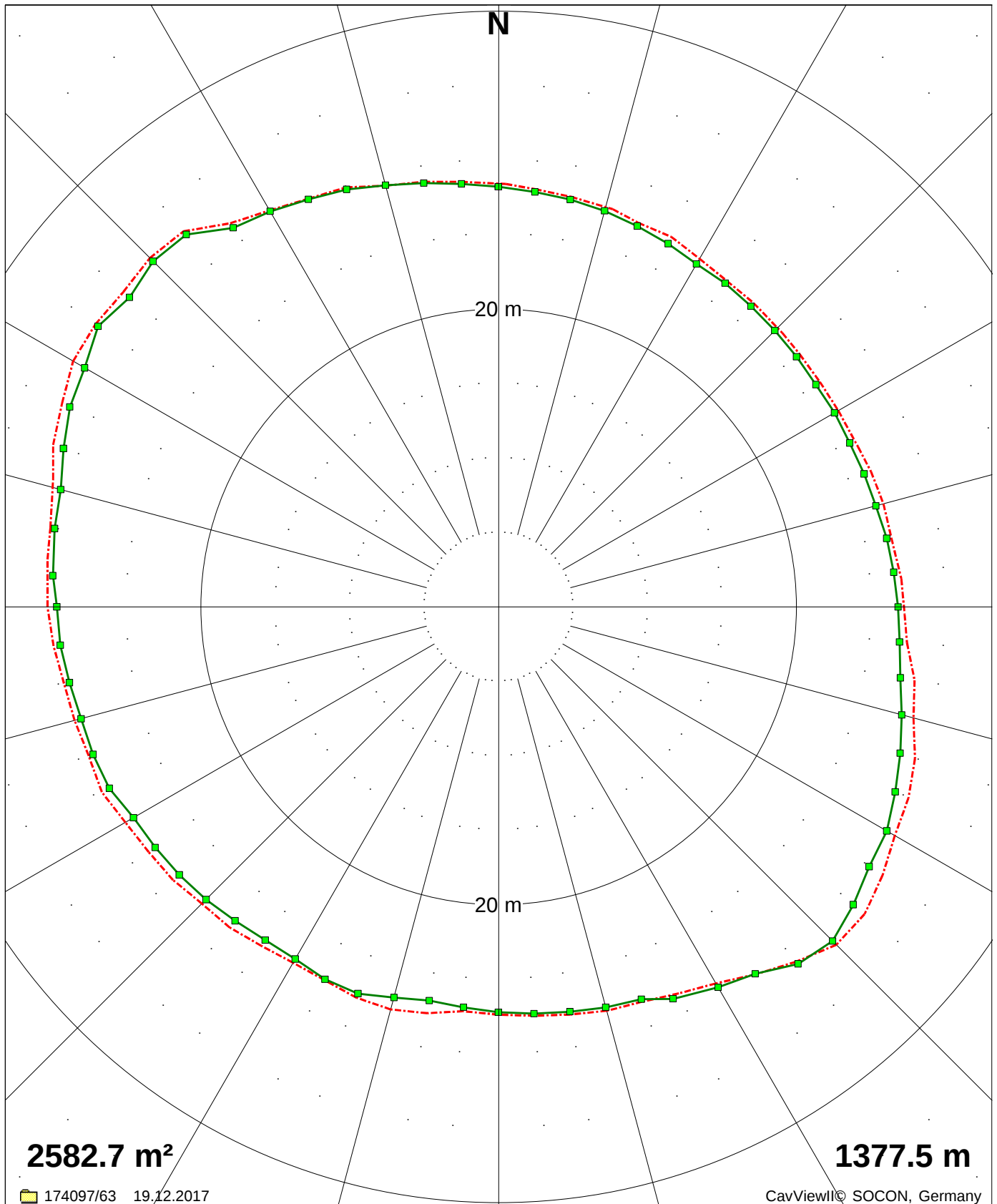
--- (19.05.2014) (2627.7 m²)

— (19.12.2017) (2562.6 m²)

$d_{\max}$: 64.1 m 135° <--> 315° $r_{\min}$: 25.9 m -> 57° $r_{\sim}$: 28.6 m $r_{\max}$: 32.8 m -> 305°

Heiligerlee K

19.12.2017



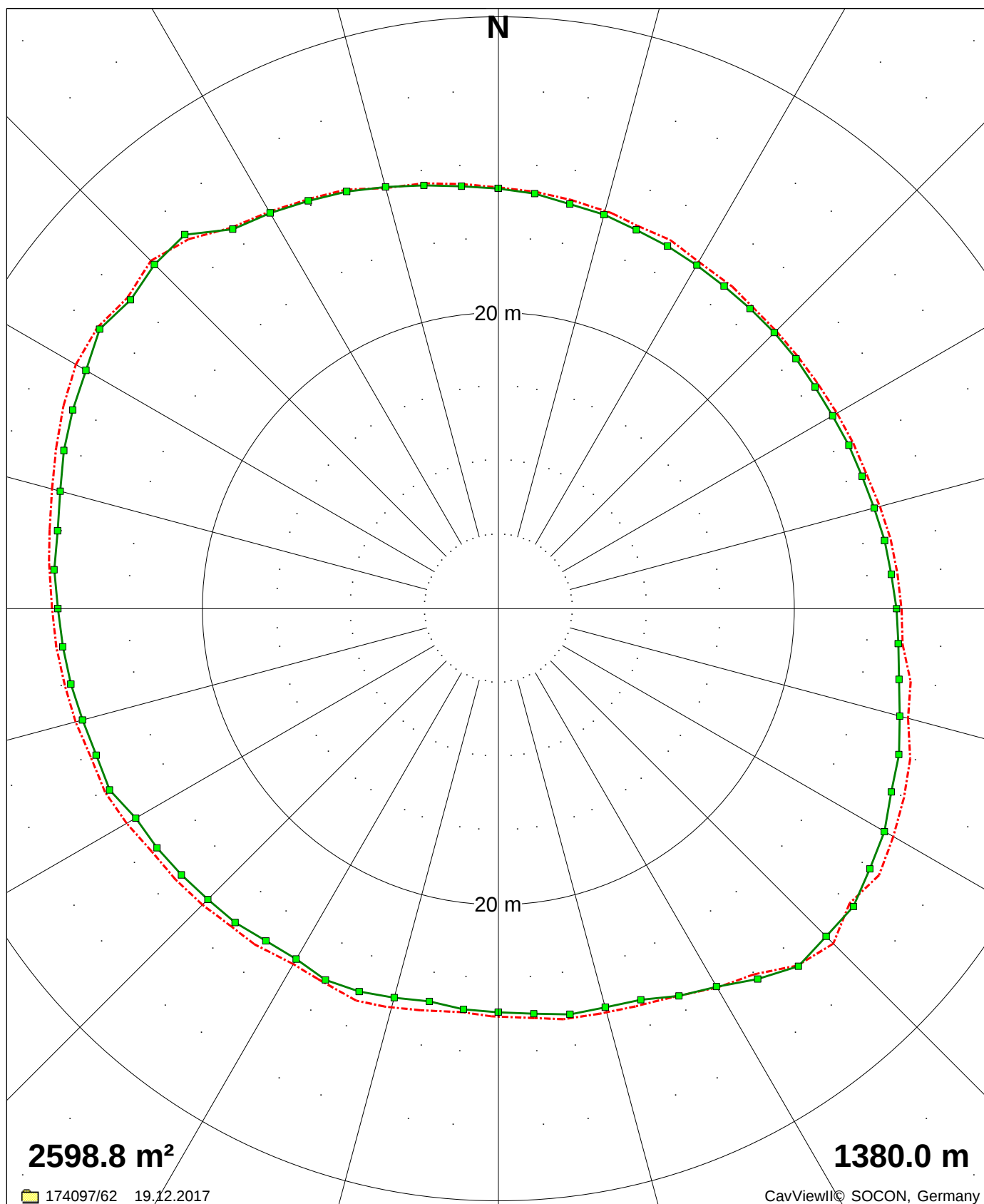
--- (19.05.2014) (2653.2 m²)

—■— (19.12.2017) (2582.7 m²)

$d_{\max}$: 64.5 m 135° <--> 315° $r_{\min}$: 26.0 m -> 56° $r_{\sim}$: 28.7 m $r_{\max}$: 32.8 m -> 305°

Heiligerlee K

19.12.2017



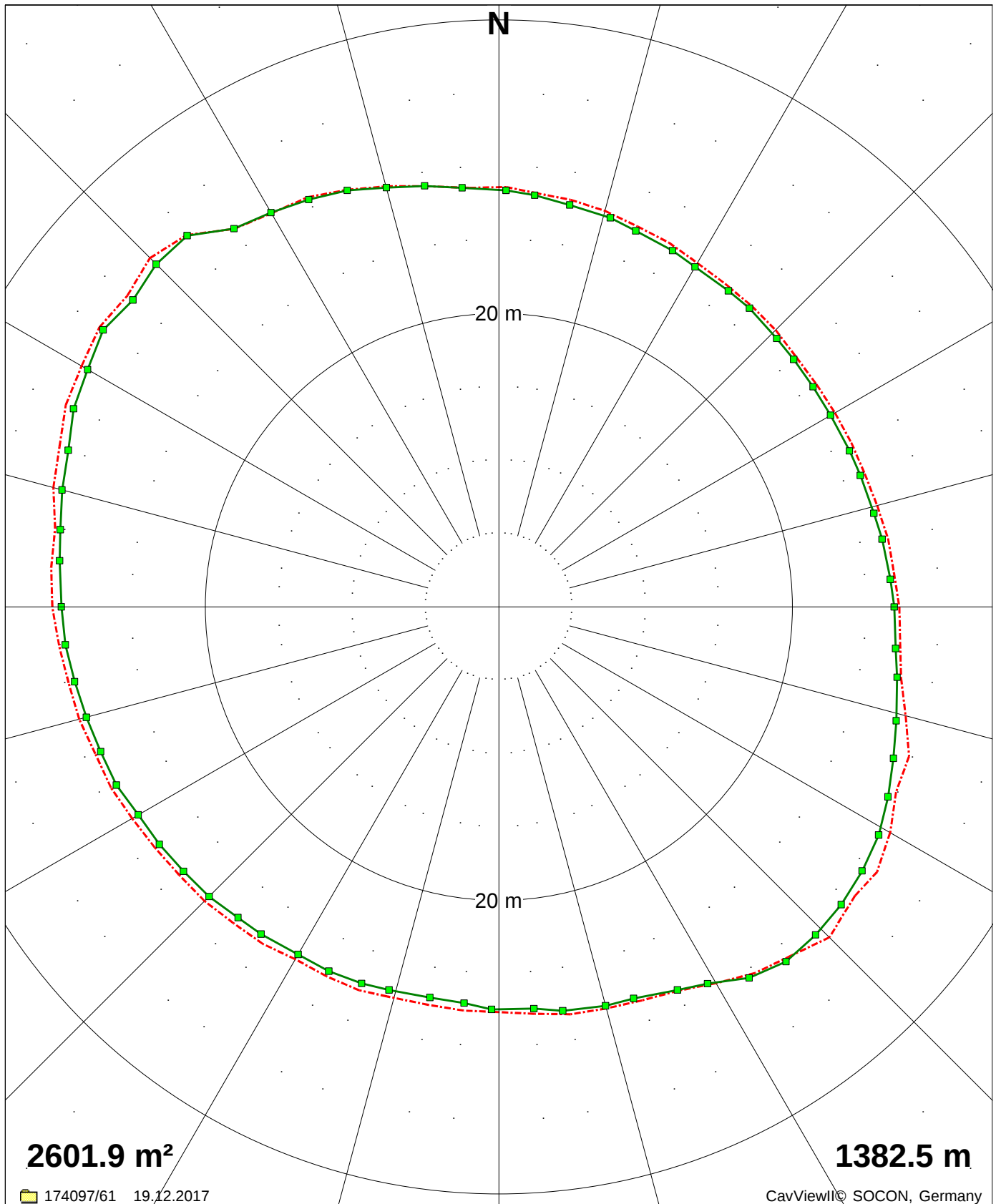
--- (19.05.2014) (2661.2 m²)

—■— (19.12.2017) (2598.8 m²)

$d_{\max}$: 64.5 m 140° <--> 320° $r_{\min}$: 26.0 m -> 58° $r_{\sim}$: 28.8 m $r_{\max}$: 33.0 m -> 320°

Heiligerlee K

19.12.2017



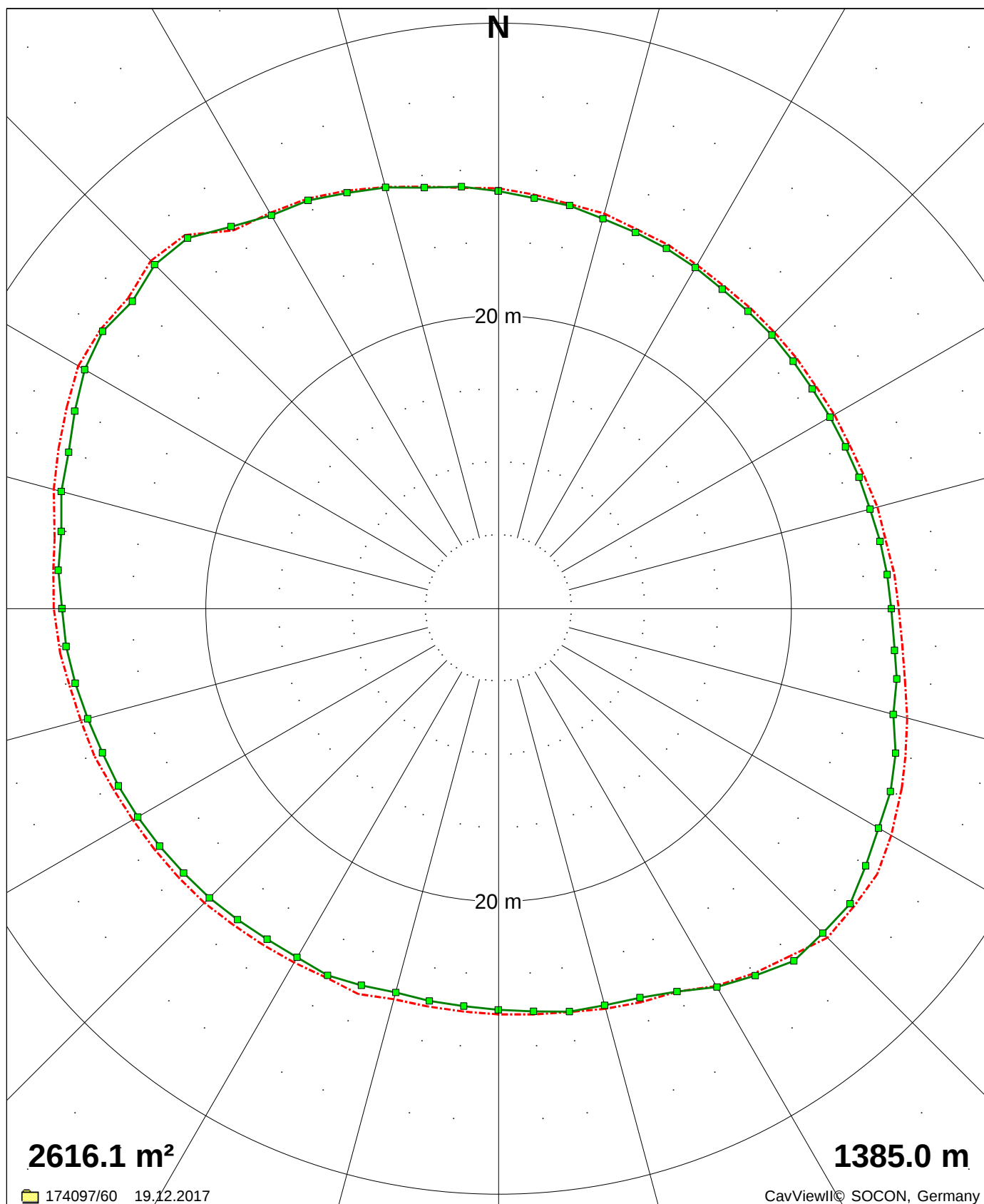
--- (19.05.2014) (2666.5 m²)

—■— (19.12.2017) (2601.9 m²)

d_{max}: 64.1 m 140° <--> 320° r_{min}: 26.1 m -> 61° r~: 28.8 m r_{max}: 33.0 m -> 315°

Heiligerlee K

19.12.2017



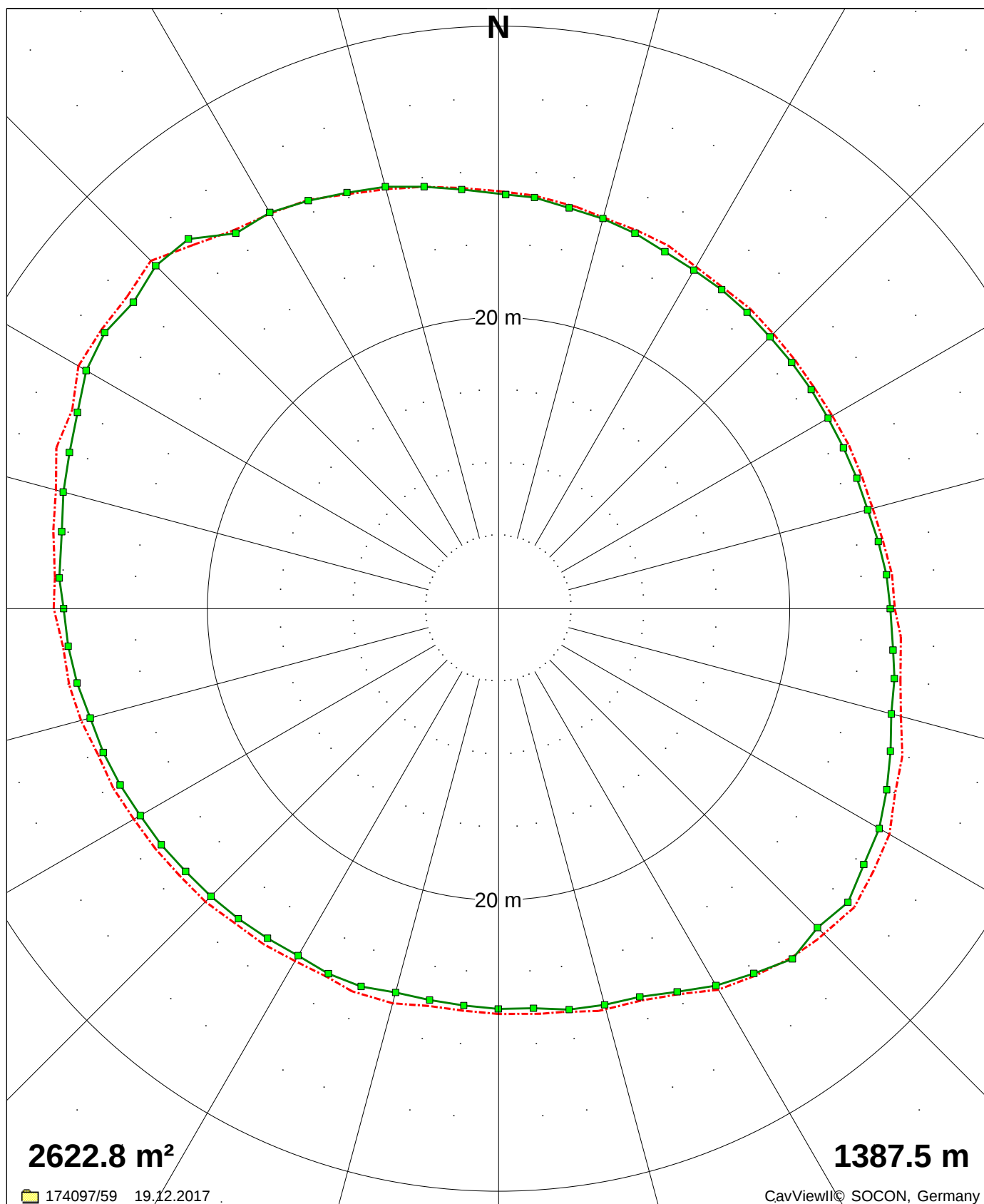
--- (19.05.2014) (2680.2 m²)

—■— (19.12.2017) (2616.1 m²)

$d_{\max}$: 64.6 m 135° <--> 315° $r_{\min}$: 26.1 m -> 62° $r_{\sim}$: 28.9 m $r_{\max}$: 33.2 m -> 315°

Heiligerlee K

19.12.2017



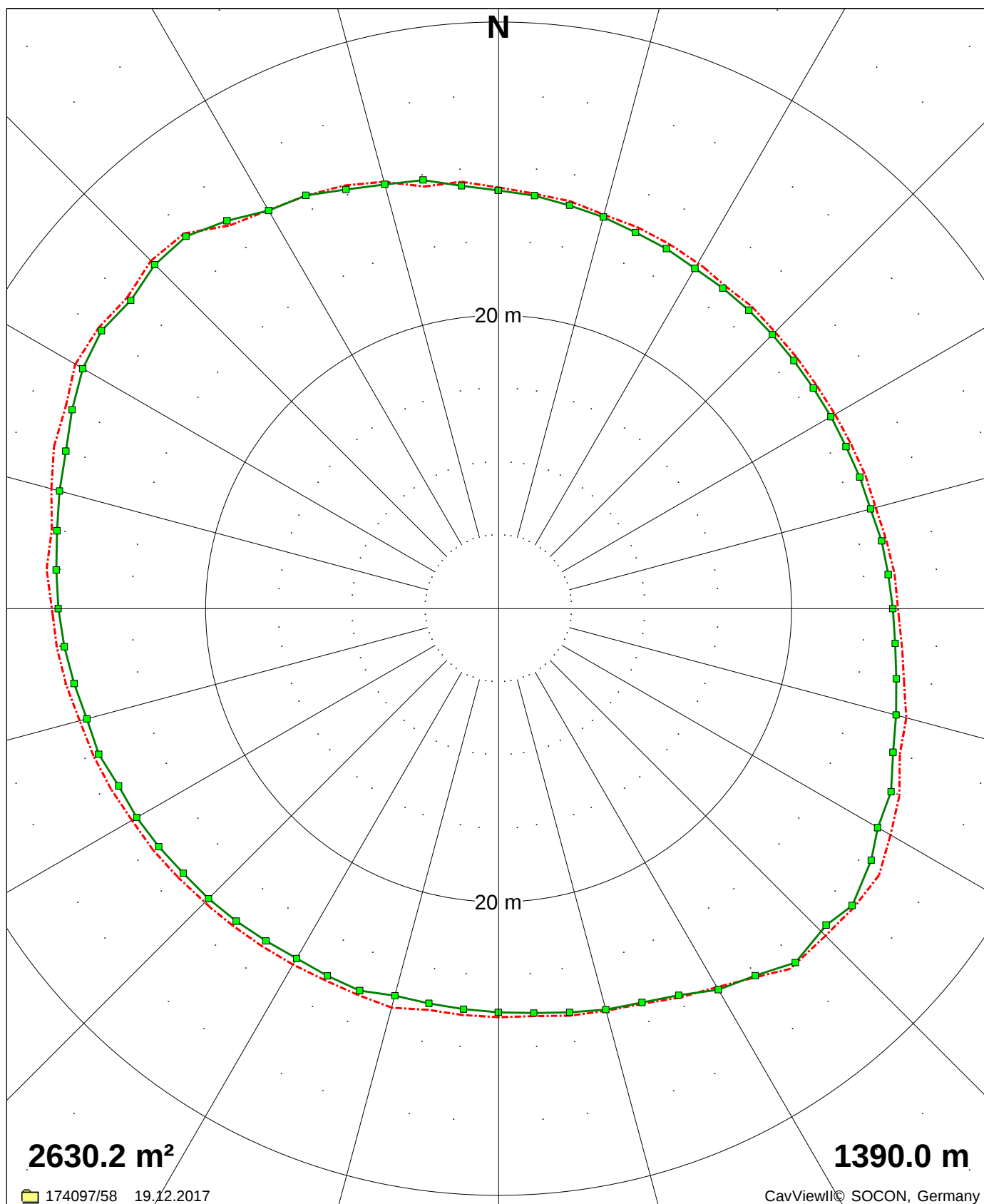
--- (19.05.2014) (2690.2 m²)

—■— (19.12.2017) (2622.8 m²)

d_{max}: 64.5 m 140° <--> 320° r_{min}: 26.1 m -> 62° r~: 28.9 m r_{max}: 33.3 m -> 315°

Heiligerlee K

19.12.2017



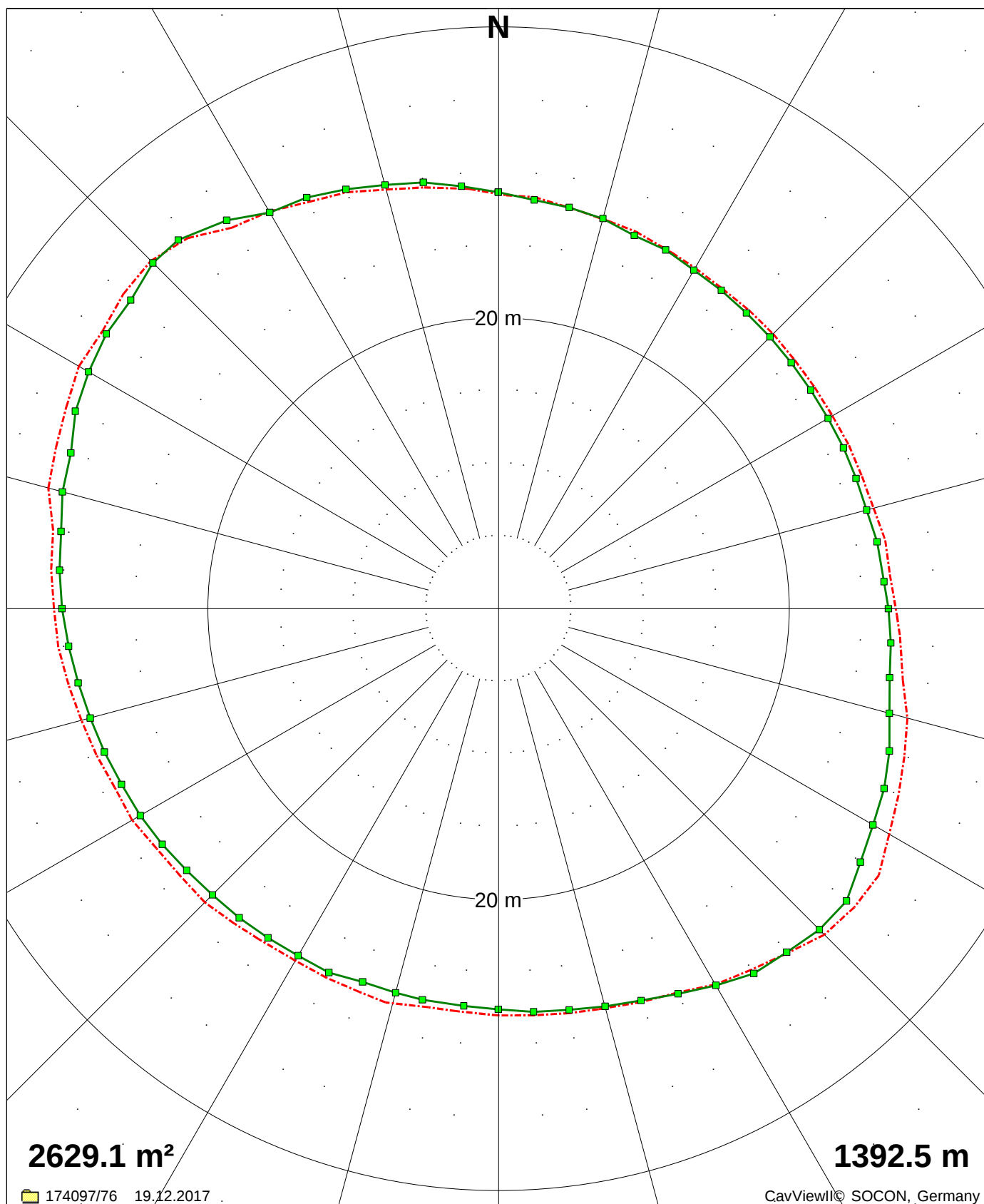
--- (19.05.2014) (2694.9 m²)

—■— (19.12.2017) (2630.2 m²)

d_{max}: 64.6 m 140° <--> 320° r_{min}: 26.1 m -> 62° r~: 28.9 m r_{max}: 33.2 m -> 315°

Heiligerlee K

19.12.2017



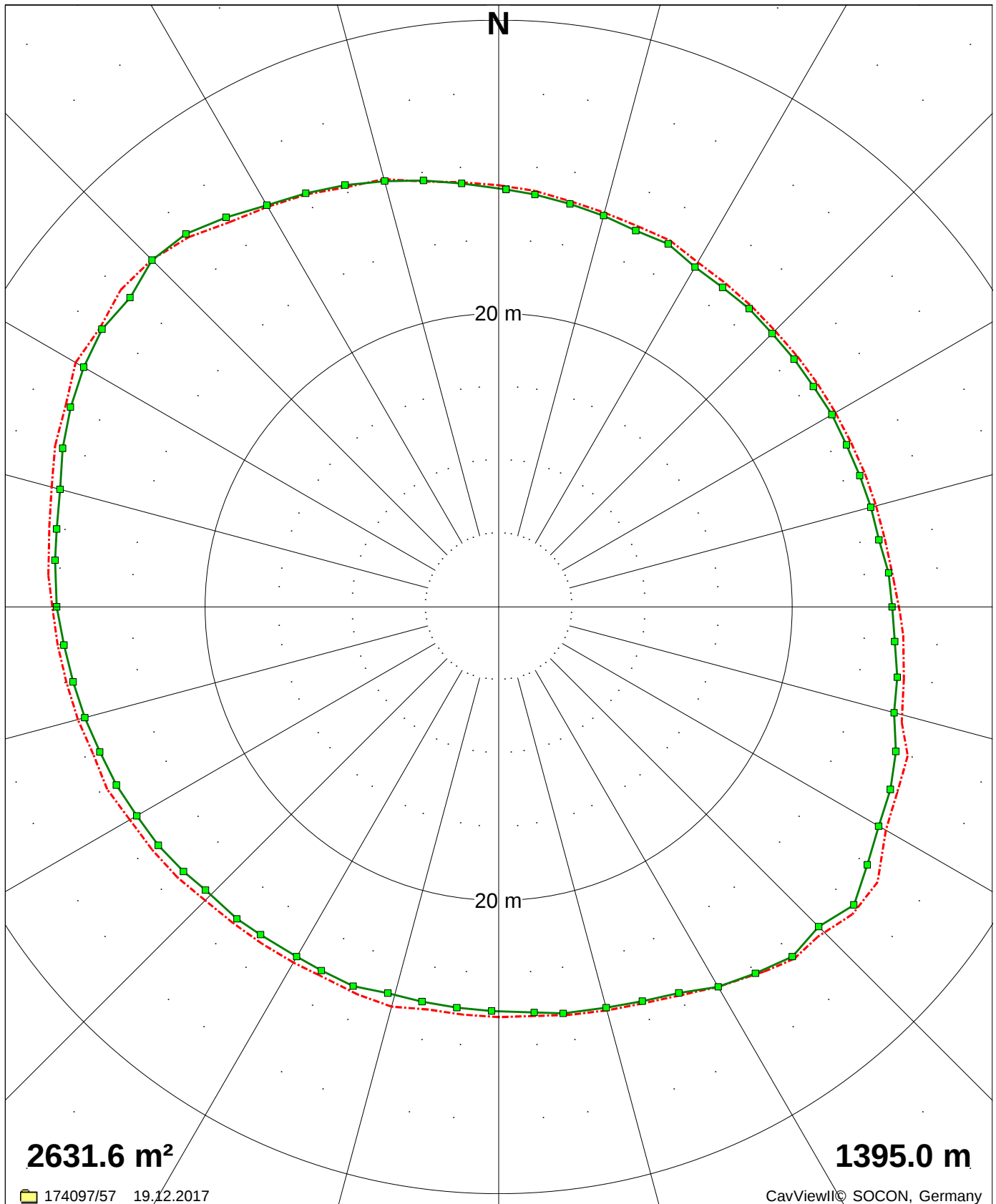
--- (19.05.2014) (2702.6 m²)

—■— (19.12.2017) (2629.1 m²)

$d_{\max}$: 64.8 m 135° <--> 315° $r_{\min}$: 26.1 m -> 67° $r_{\sim}$: 28.9 m $r_{\max}$: 33.6 m -> 315°

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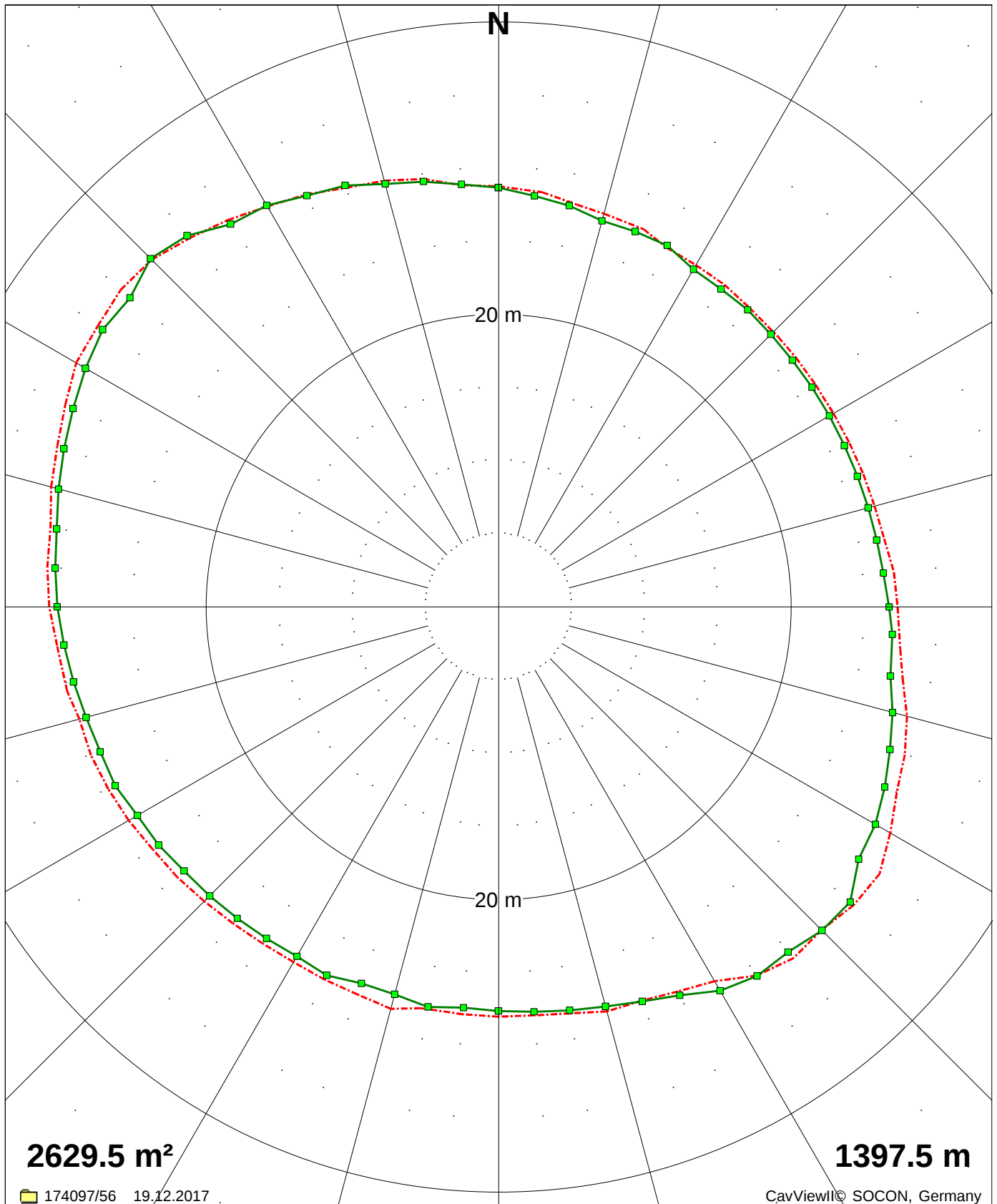
--- (19.05.2014) (2694.6 m²)

— (19.12.2017) (2631.6 m²)

$d_{\max}$: 64.4 m 130° <--> 310° $r_{\min}$: 26.1 m -> 66° $r_{\sim}$: 28.9 m $r_{\max}$: 33.4 m -> 315°

Heiligerlee K

19.12.2017



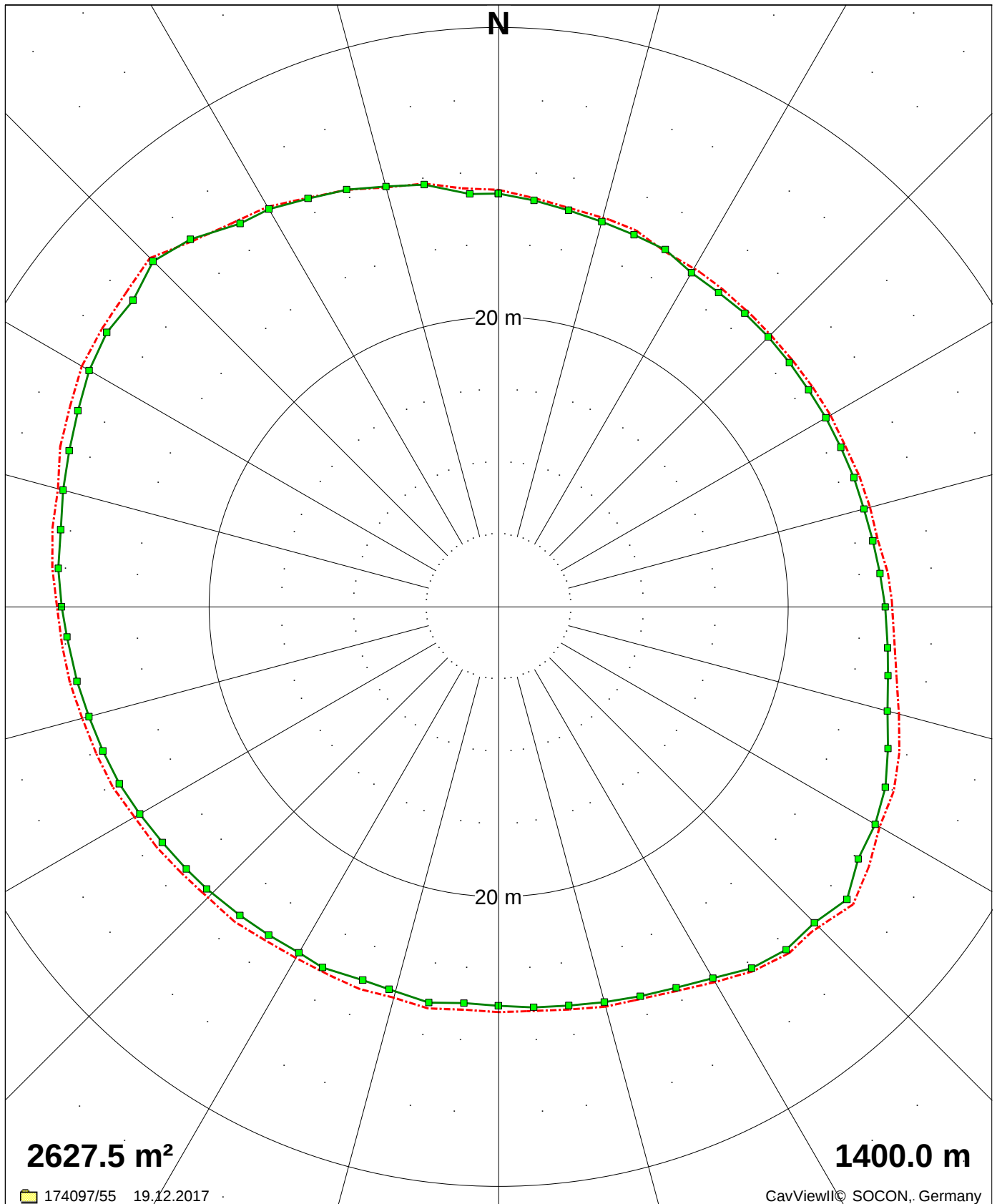
--- (19.05.2014) (2703.5 m²)

—■— (19.12.2017) (2629.5 m²)

$d_{\max}$: 64.9 m 135° <--> 315° $r_{\min}$: 26.1 m -> 62° $r_{\sim}$: 28.9 m $r_{\max}$: 33.7 m -> 315°

Heiligerlee K

19.12.2017



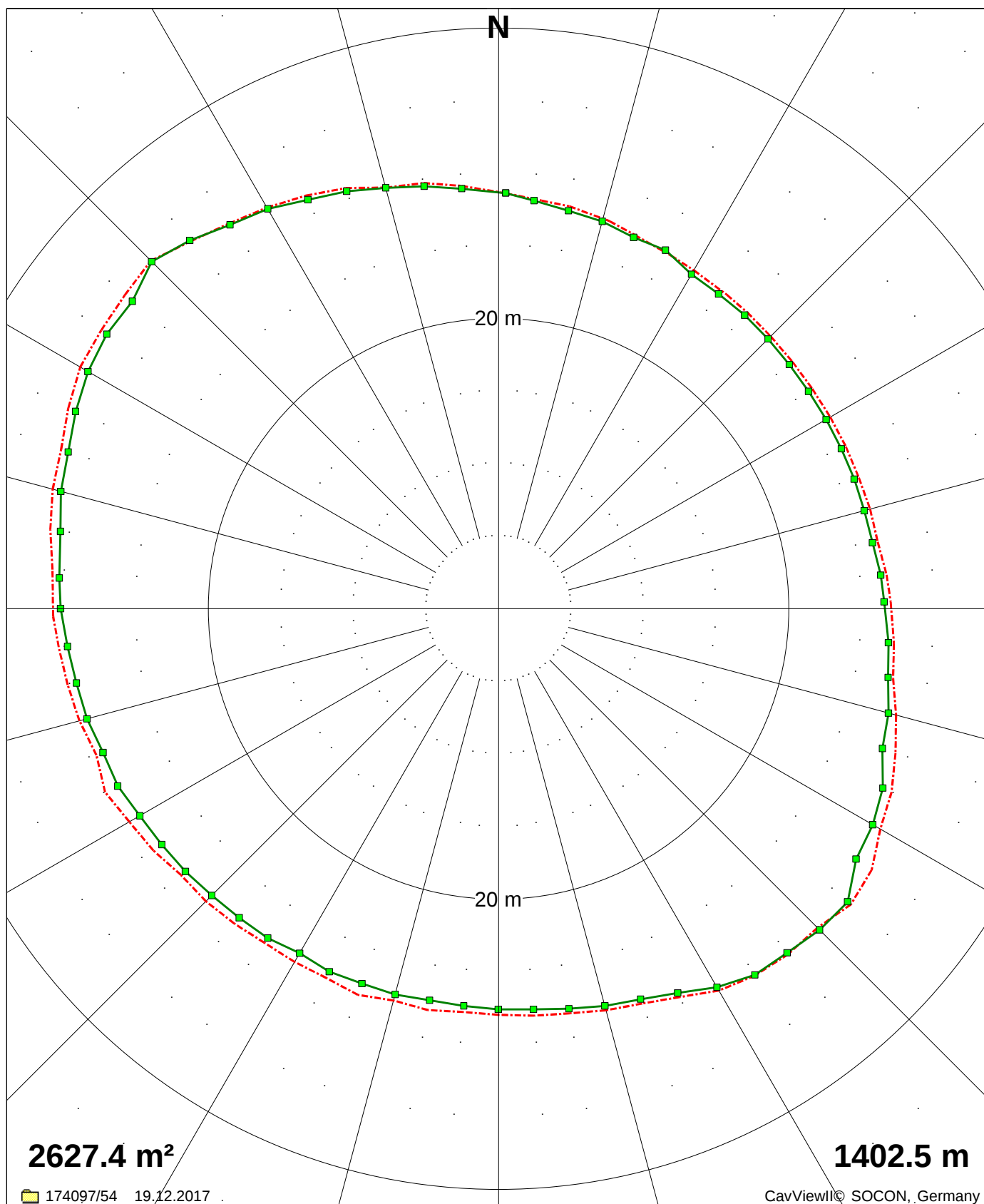
--- (19.05.2014) (2697.2 m²)

—■— (19.12.2017) (2627.5 m²)

$d_{\max}$: 64.6 m 135° <--> 315° $r_{\min}$: 26.0 m -> 62° $r_{\sim}$: 28.9 m $r_{\max}$: 33.8 m -> 315°

Heiligerlee K

19.12.2017



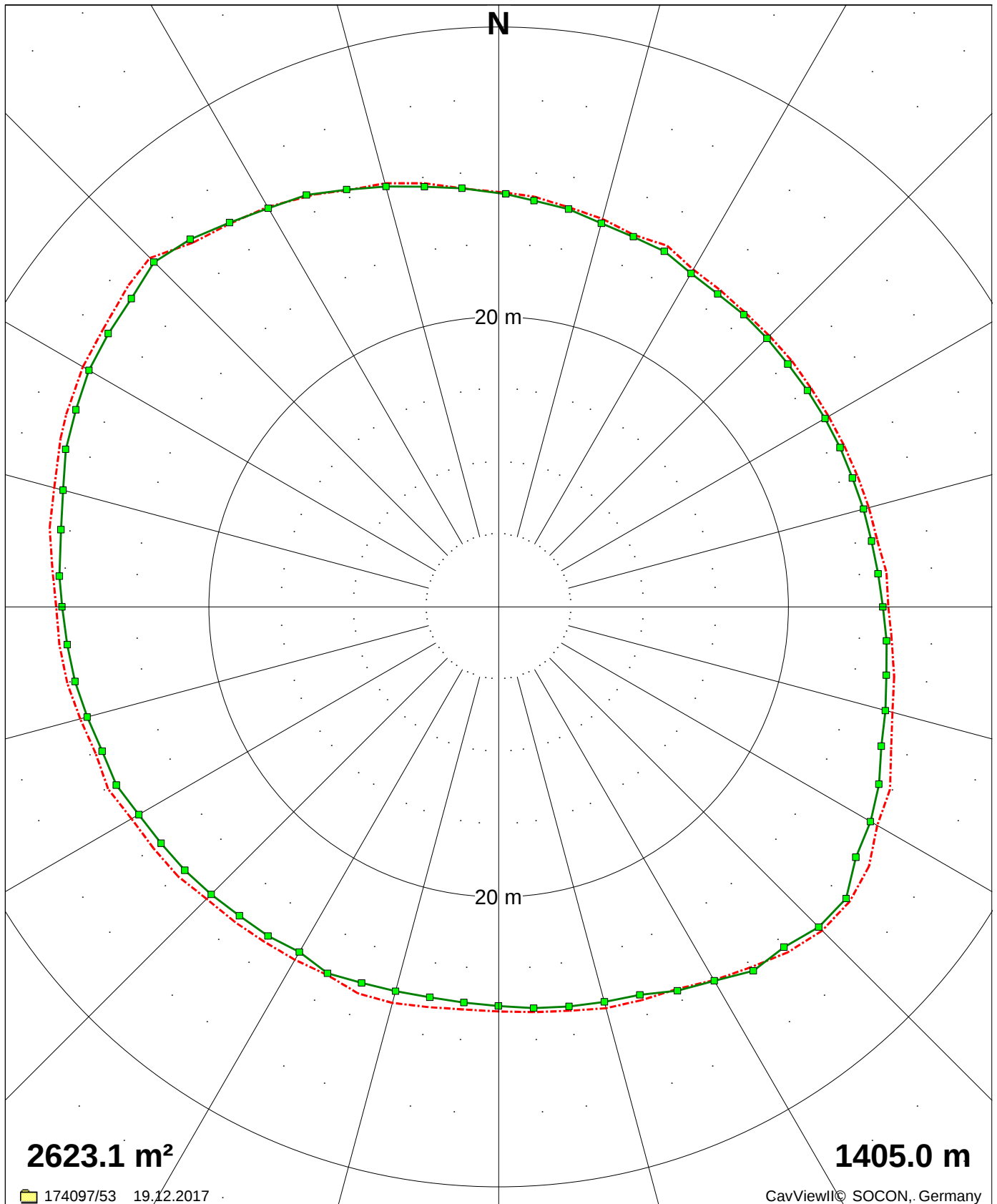
--- (19.05.2014) (2700.8 m²)

—■— (19.12.2017) (2627.4 m²)

$d_{\max}$: 65.1 m 135° <--> 315° $r_{\min}$: 26.0 m -> 62° $r_{\sim}$: 28.9 m $r_{\max}$: 33.8 m -> 315°

Heiligerlee K

19.12.2017



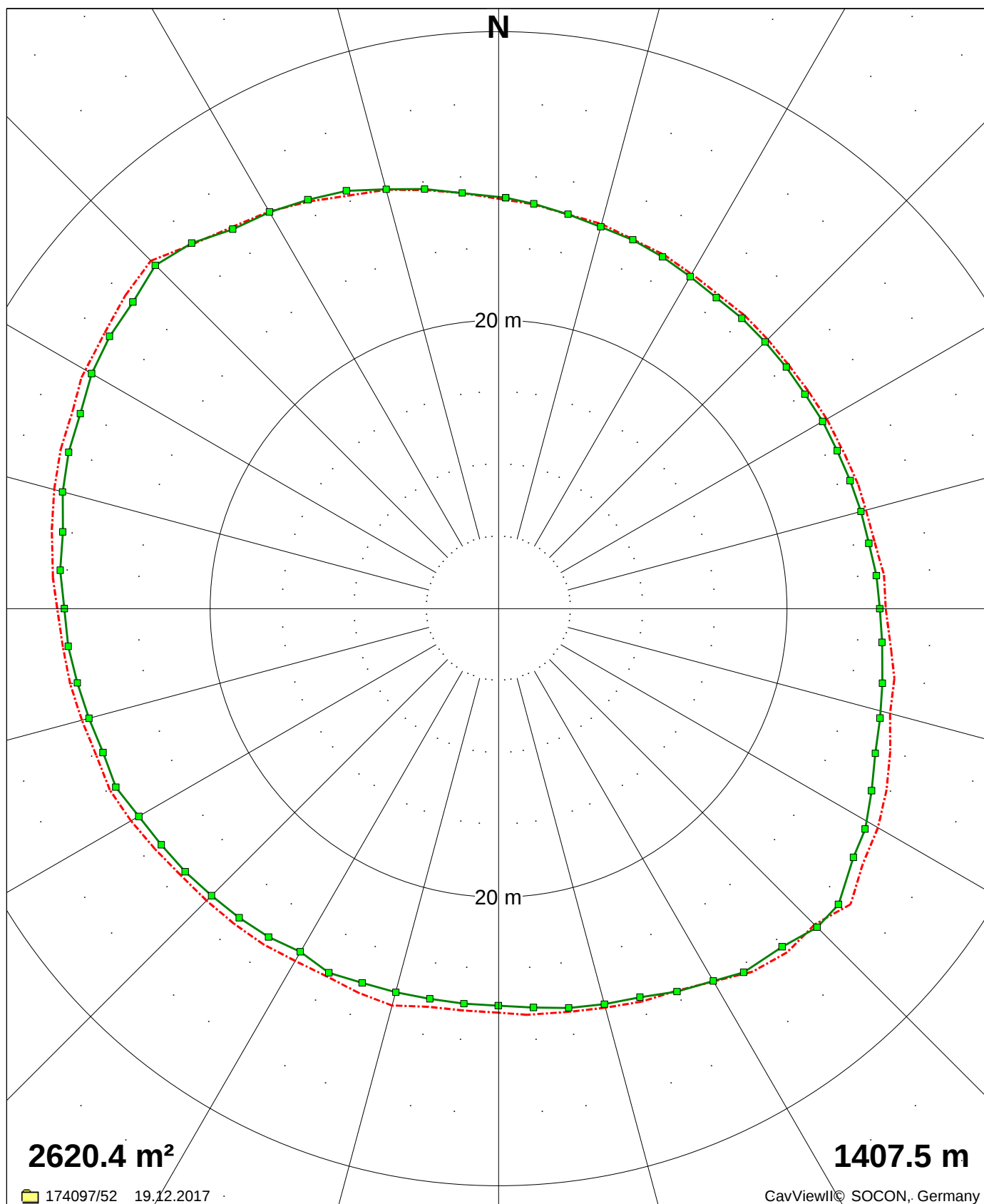
--- (19.05.2014) (2693.2 m²)

—■— (19.12.2017) (2623.1 m²)

$d_{\max}$: 64.9 m 135° <--> 315° $r_{\min}$: 26.0 m -> 67° $r_{\sim}$: 28.9 m $r_{\max}$: 33.6 m -> 315°

Heiligerlee K

19.12.2017



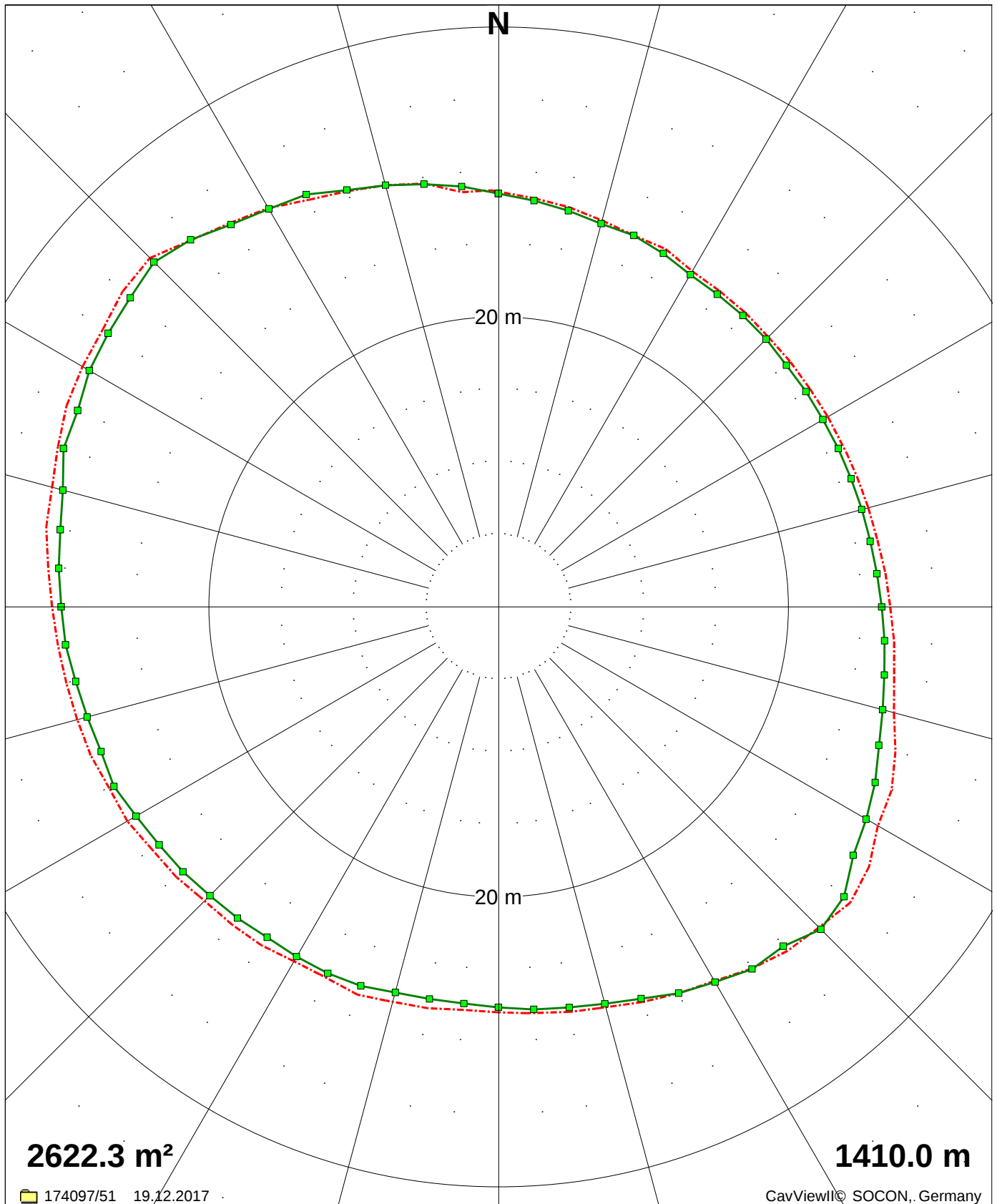
--- (19.05.2014) (2691.2 m²)

—■— (19.12.2017) (2620.4 m²)

$d_{\max}$: 64.9 m 135° <--> 315° $r_{\min}$: 25.9 m -> 66° $r_{\sim}$: 28.9 m $r_{\max}$: 33.7 m -> 315°

Heiligerlee K

19.12.2017



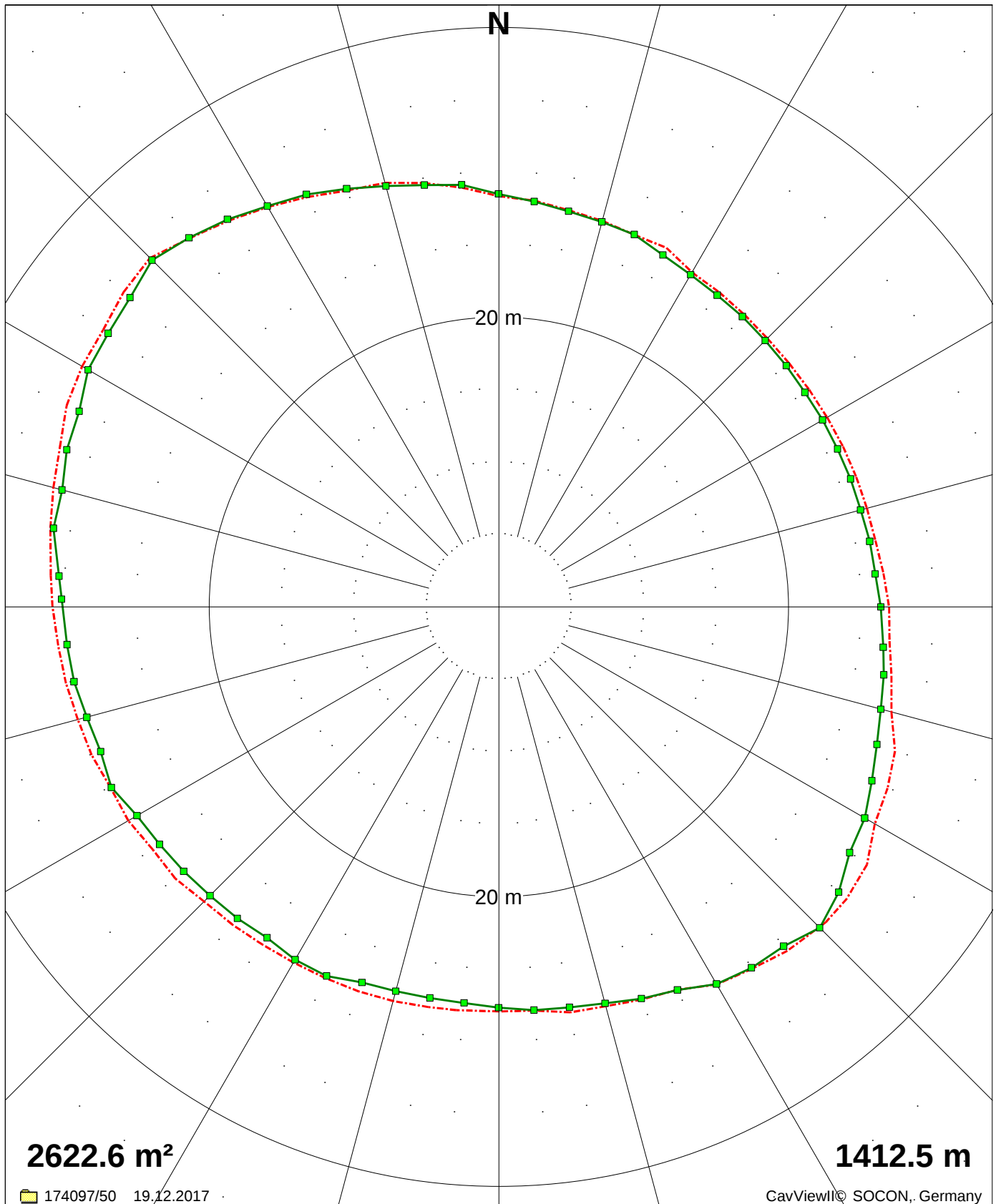
--- (19.05.2014) (2700.1 m²)

—■— (19.12.2017) (2622.3 m²)

$d_{\max}$: 65.1 m 135° <--> 315° $r_{\min}$: 25.8 m -> 61° $r_{\sim}$: 28.9 m $r_{\max}$: 33.6 m -> 315°

Heiligerlee K

19.12.2017



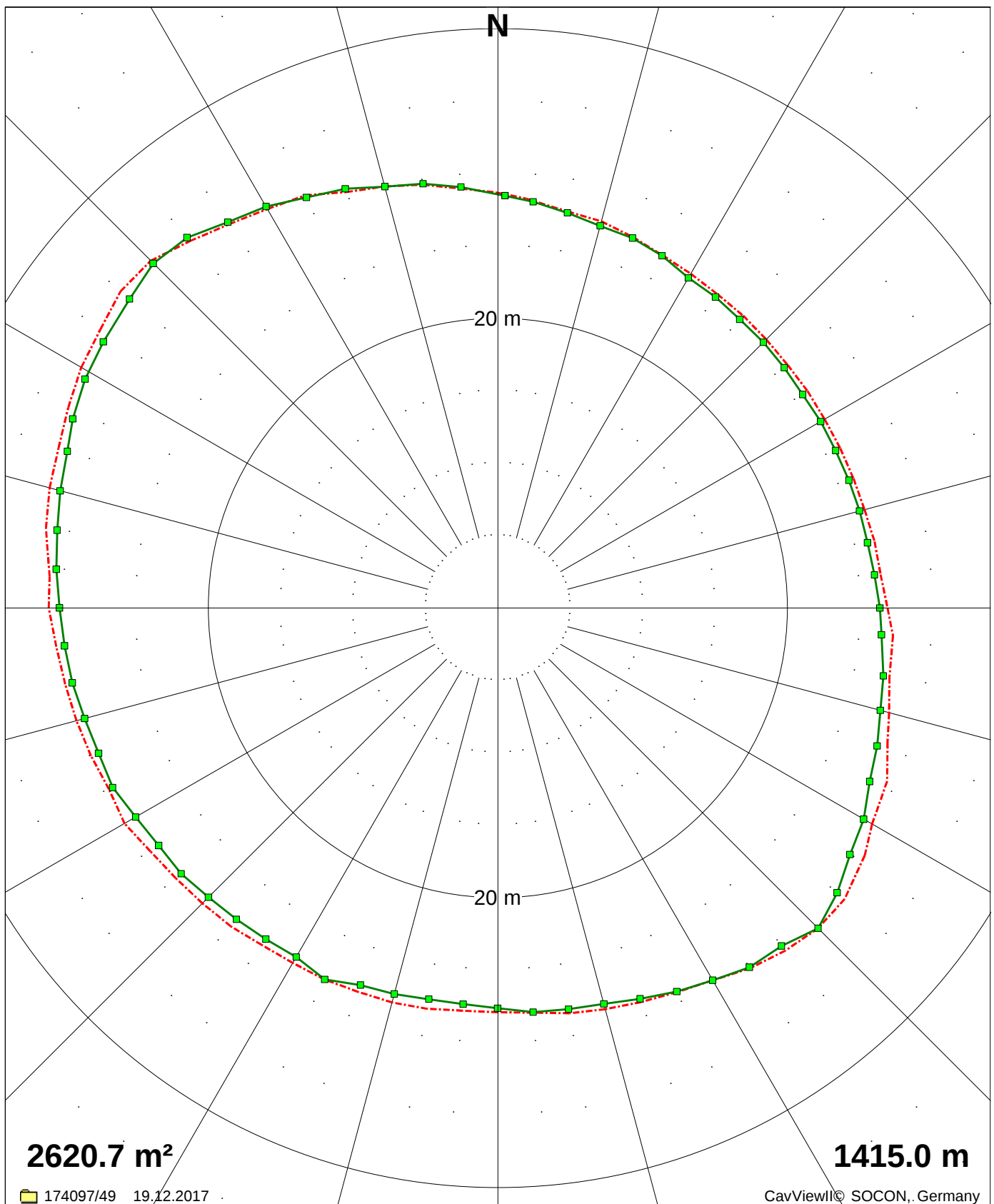
--- (19.05.2014) (2693.2 m²)

—■— (19.12.2017) (2622.6 m²)

$d_{\max}$: 65.2 m 135° <--> 315° $r_{\min}$: 25.8 m -> 57° $r_{\sim}$: 28.9 m $r_{\max}$: 33.8 m -> 315°

Heiligerlee K

19.12.2017



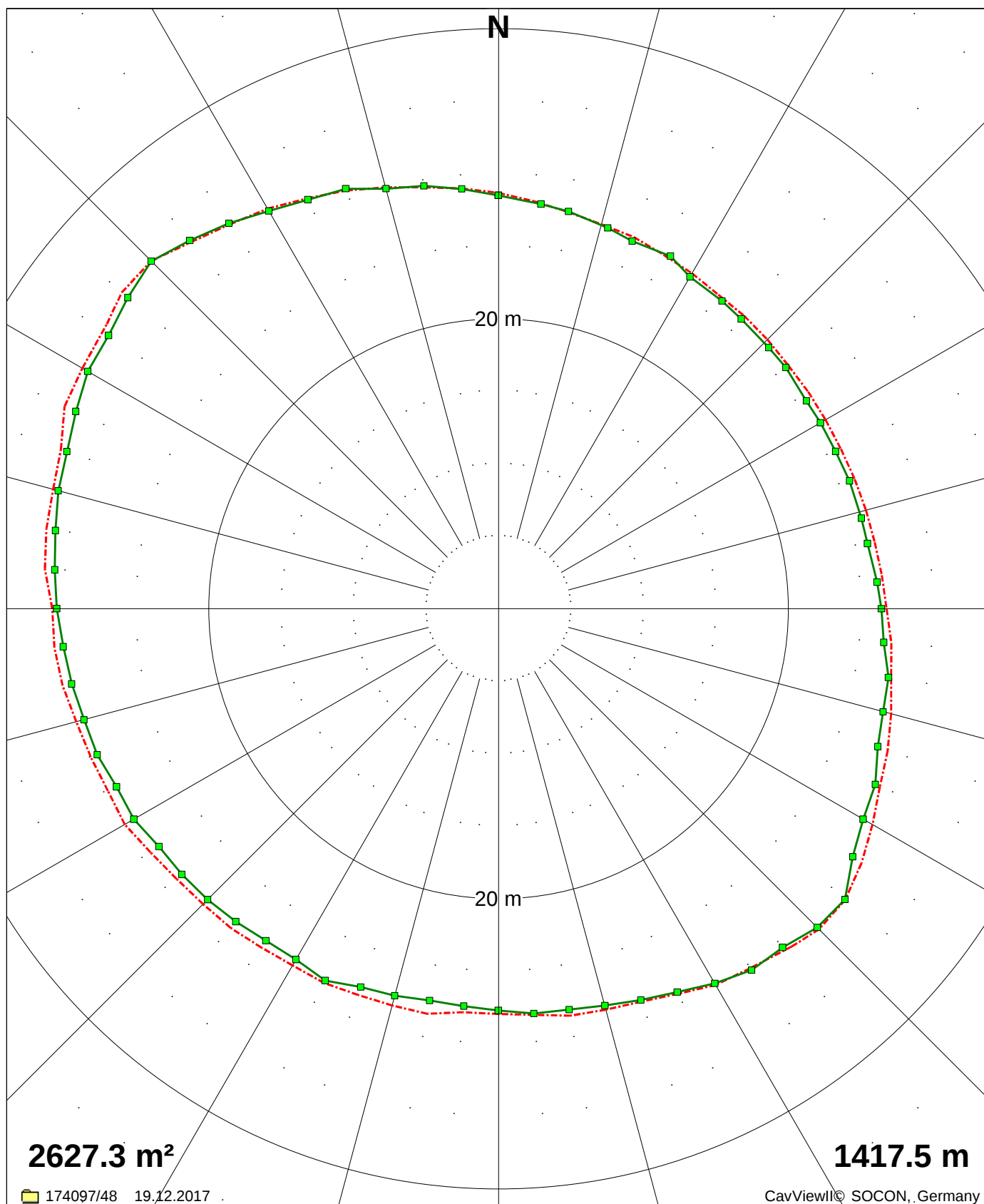
--- (19.05.2014) (2690.5 m²)

—■— (19.12.2017) (2620.7 m²)

$d_{\max}$: 64.9 m 135° <--> 315° $r_{\min}$: 25.7 m -> 56° $r_{\sim}$: 28.9 m $r_{\max}$: 33.6 m -> 315°

Heiligerlee K

19.12.2017



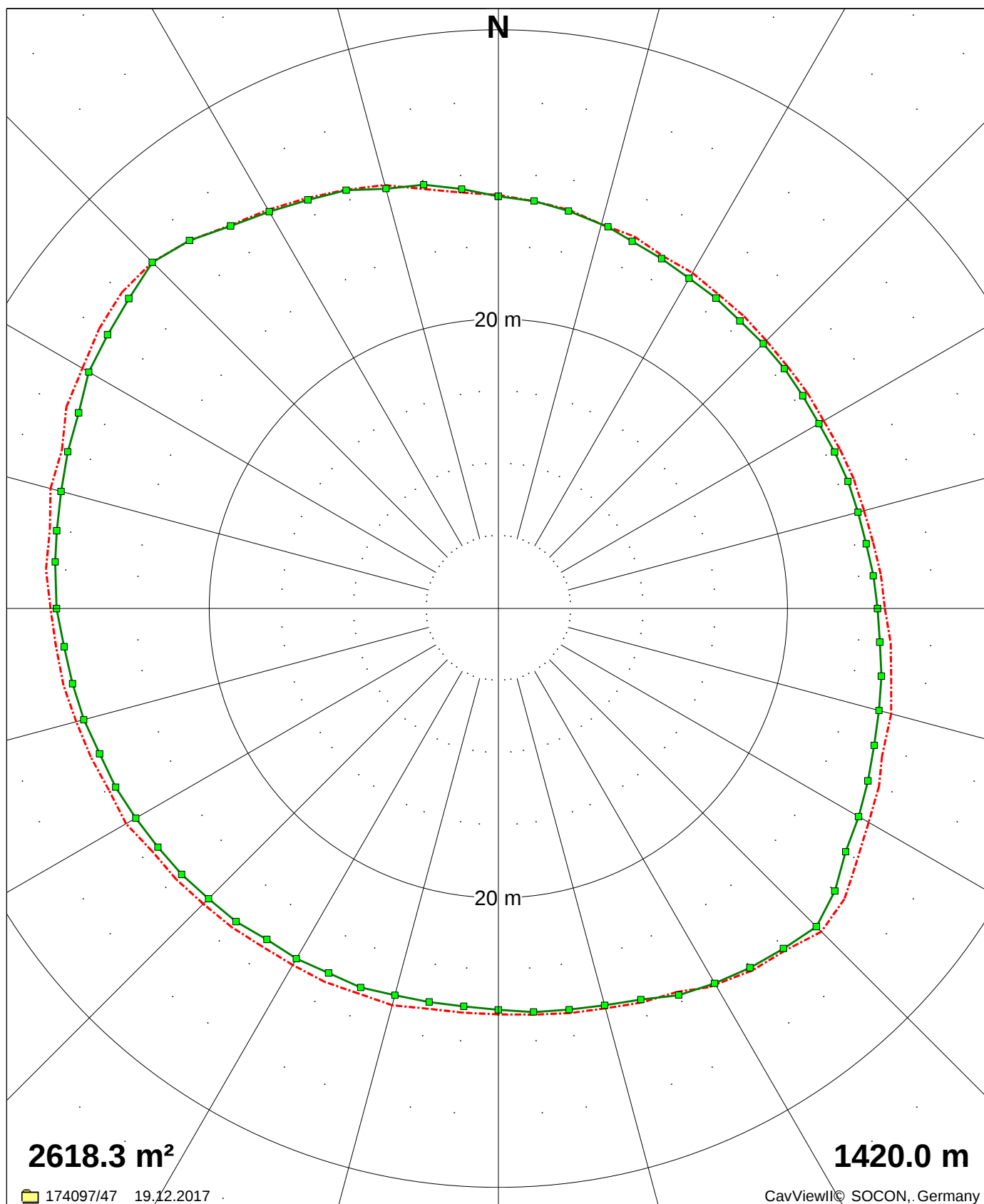
--- (19.05.2014) (2690.3 m²)

—■— (19.12.2017) (2627.3 m²)

$d_{\max}$: 65.0 m 135° <--> 315° $r_{\min}$: 25.6 m -> 57° $r_{\sim}$: 28.9 m $r_{\max}$: 33.9 m -> 315°

Heiligerlee K

19.12.2017



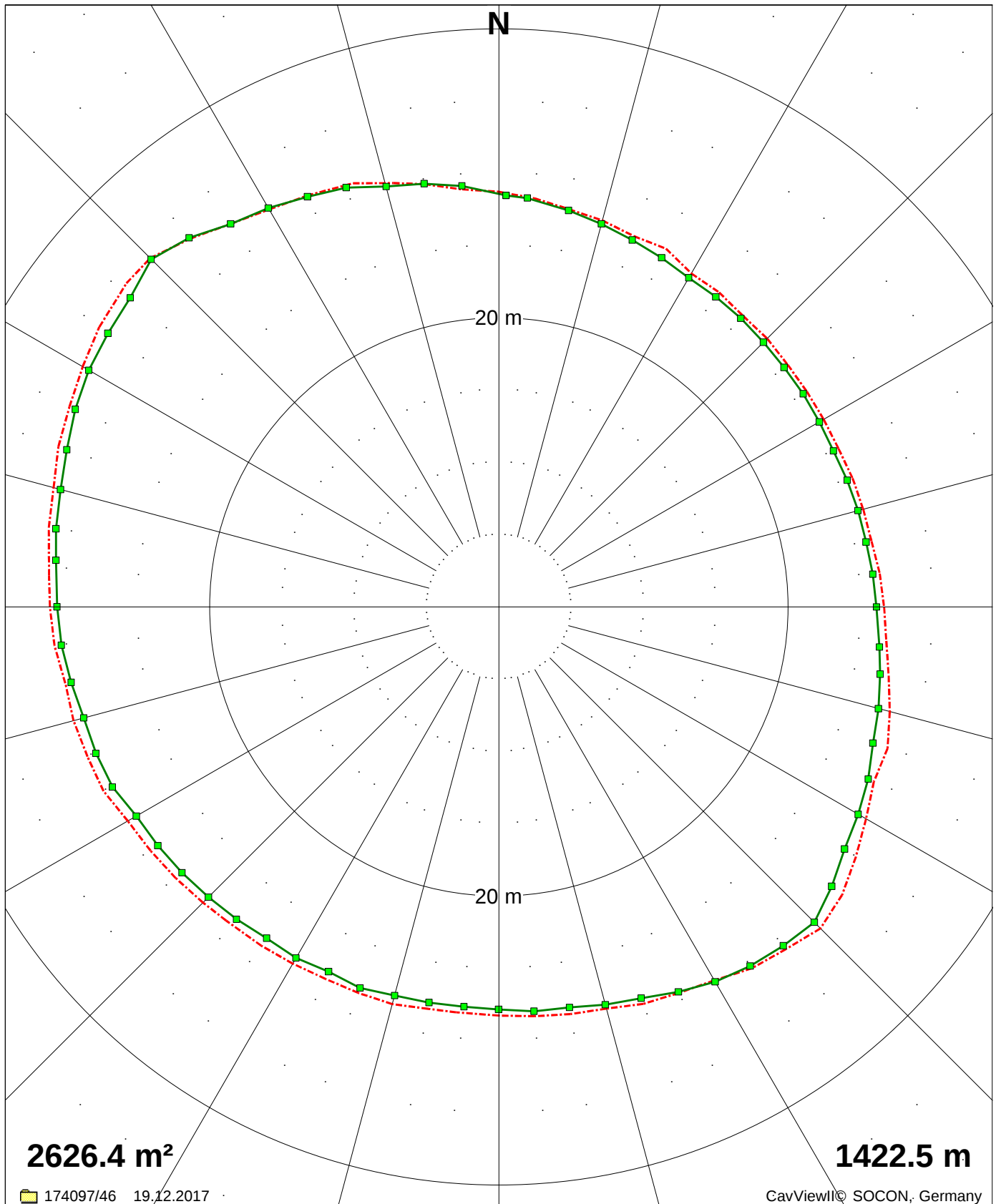
--- (19.05.2014) (2692.9 m²)

—■ (19.12.2017) (2618.3 m²)

$d_{\max}$: 64.9 m 135° <--> 315° $r_{\min}$: 25.6 m -> 61° $r_{\sim}$: 28.9 m $r_{\max}$: 33.8 m -> 315°

Heiligerlee K

19.12.2017



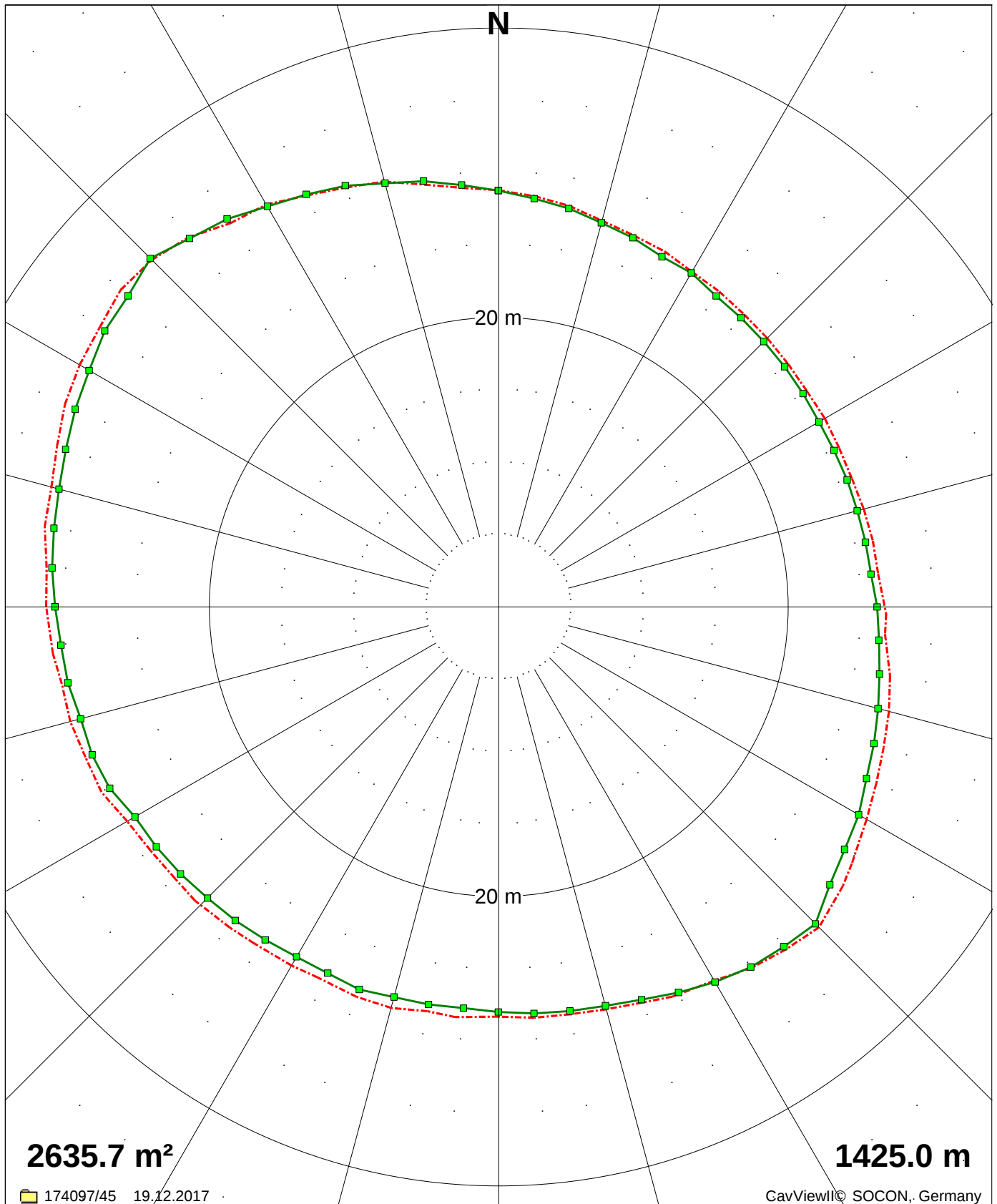
--- (19.05.2014) (2702.2 m²)

—■— (19.12.2017) (2626.4 m²)

$d_{\max}$: 64.9 m 135° <--> 315° $r_{\min}$: 25.5 m -> 63° $r_{\sim}$: 28.9 m $r_{\max}$: 34.0 m -> 315°

Heiligerlee K

19.12.2017



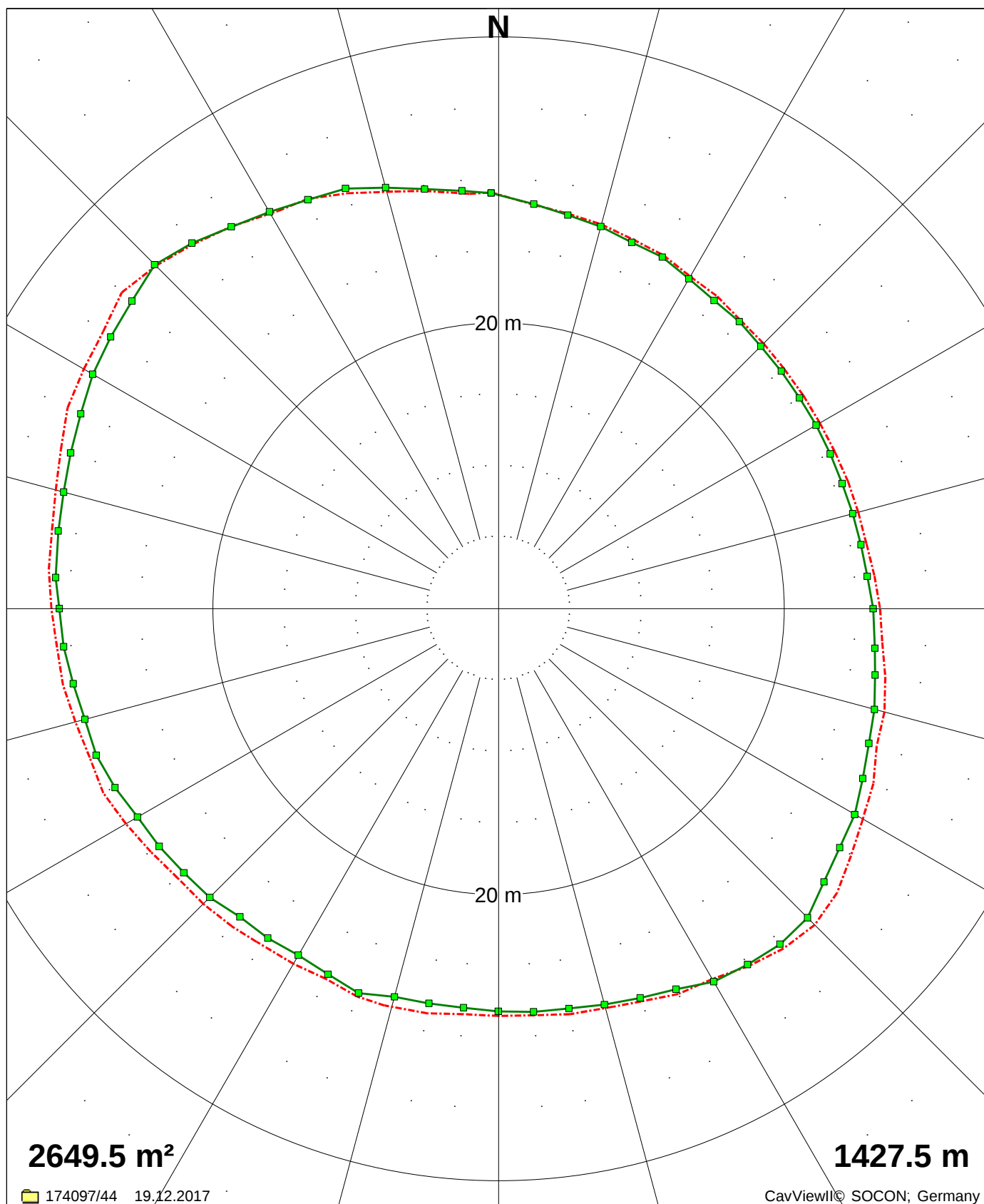
--- (19.05.2014) (2708.6 m²)

—■ (19.12.2017) (2635.7 m²)

d_{max}: 65.0 m 135° <--> 315° r_{min}: 25.5 m -> 61° r~: 29.0 m r_{max}: 34.0 m -> 315°

Heiligerlee K

19.12.2017



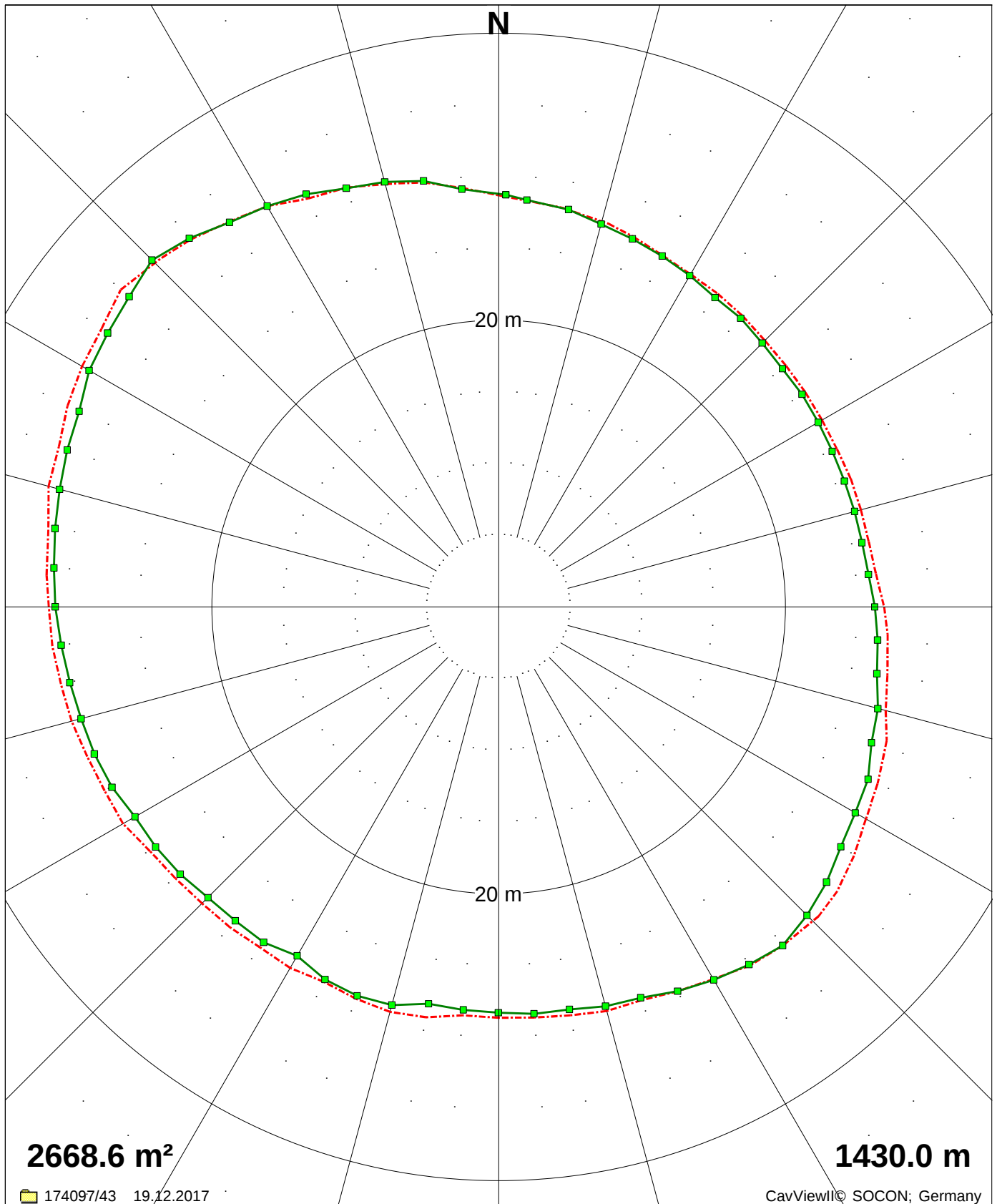
--- (19.05.2014) (2725.5 m²)

—■— (19.12.2017) (2649.5 m²)

$d_{\max}$: 64.6 m 135° <--> 315° $r_{\min}$: 25.6 m -> 67° $r_{\sim}$: 29.0 m $r_{\max}$: 34.0 m -> 315°

Heiligerlee K

19.12.2017



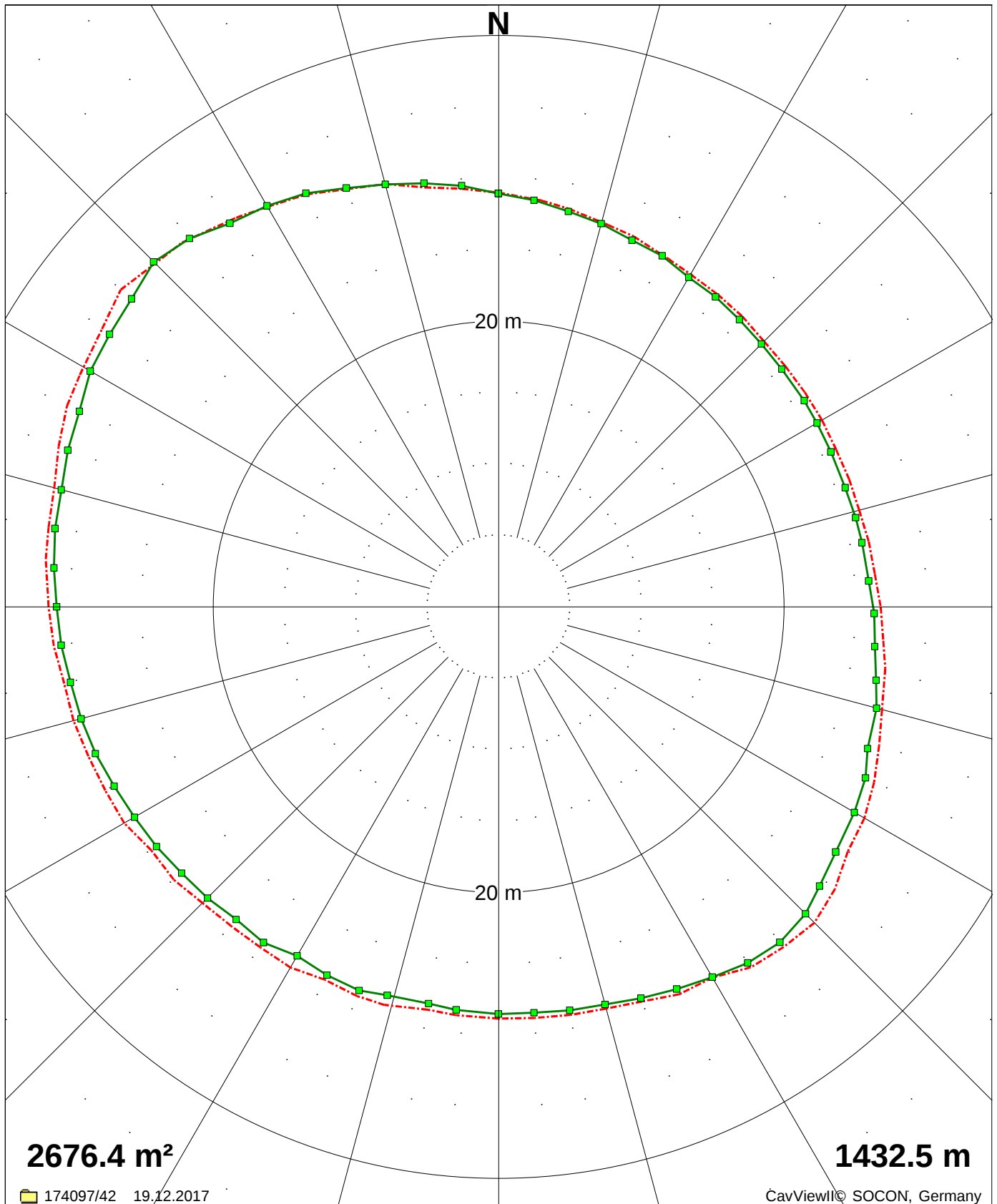
--- (19.05.2014) (2741.4 m²)

—■— (19.12.2017) (2668.6 m²)

$d_{\max}$: 64.6 m 135° <--> 315° $r_{\min}$: 25.6 m -> 67° $r_{\sim}$: 29.1 m $r_{\max}$: 34.2 m -> 315°

Heiligerlee K

19.12.2017



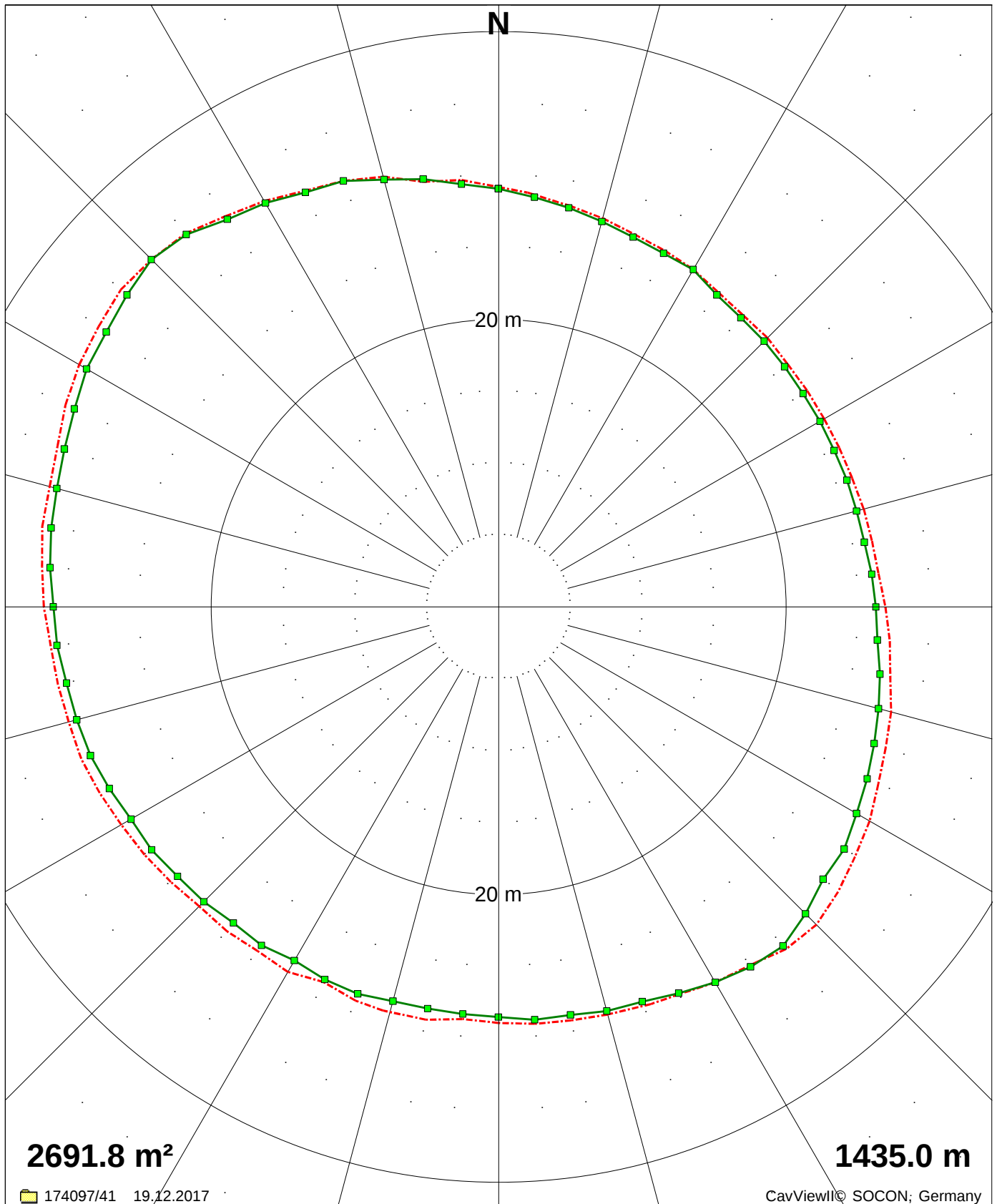
--- (19.05.2014) (2753.1 m²)

—■— (19.12.2017) (2676.4 m²)

$d_{\max}$: 64.5 m 135° <--> 315° $r_{\min}$: 25.6 m -> 67° $r_{\sim}$: 29.2 m $r_{\max}$: 34.2 m -> 315°

Heiligerlee K

19.12.2017



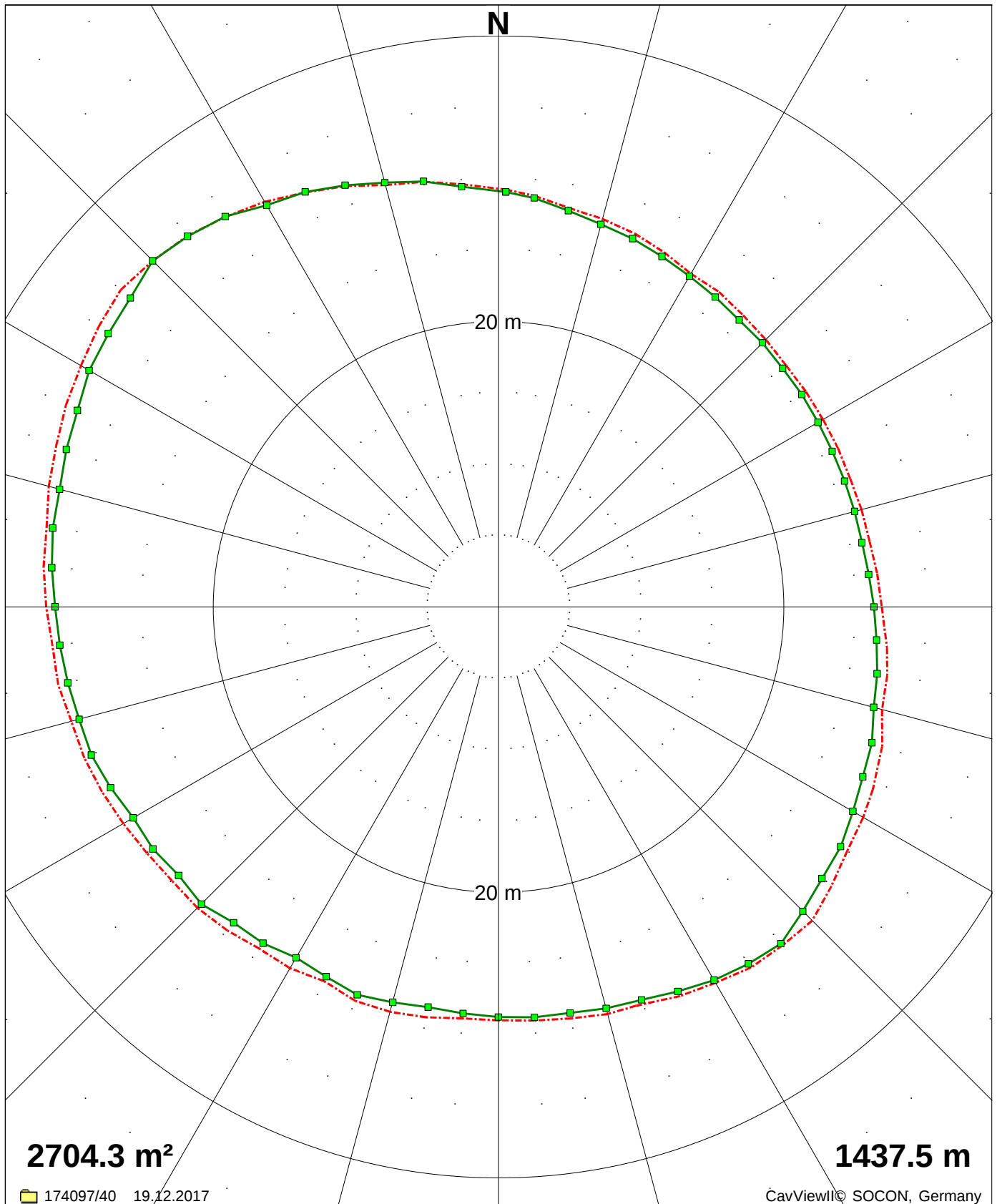
--- (19.05.2014) (2776.1 m²)

—■— (19.12.2017) (2691.8 m²)

d_{max}: 64.6 m 140° <--> 320° r_{min}: 25.7 m -> 66° r~: 29.3 m r_{max}: 34.2 m -> 315°

Heiligerlee K

19.12.2017



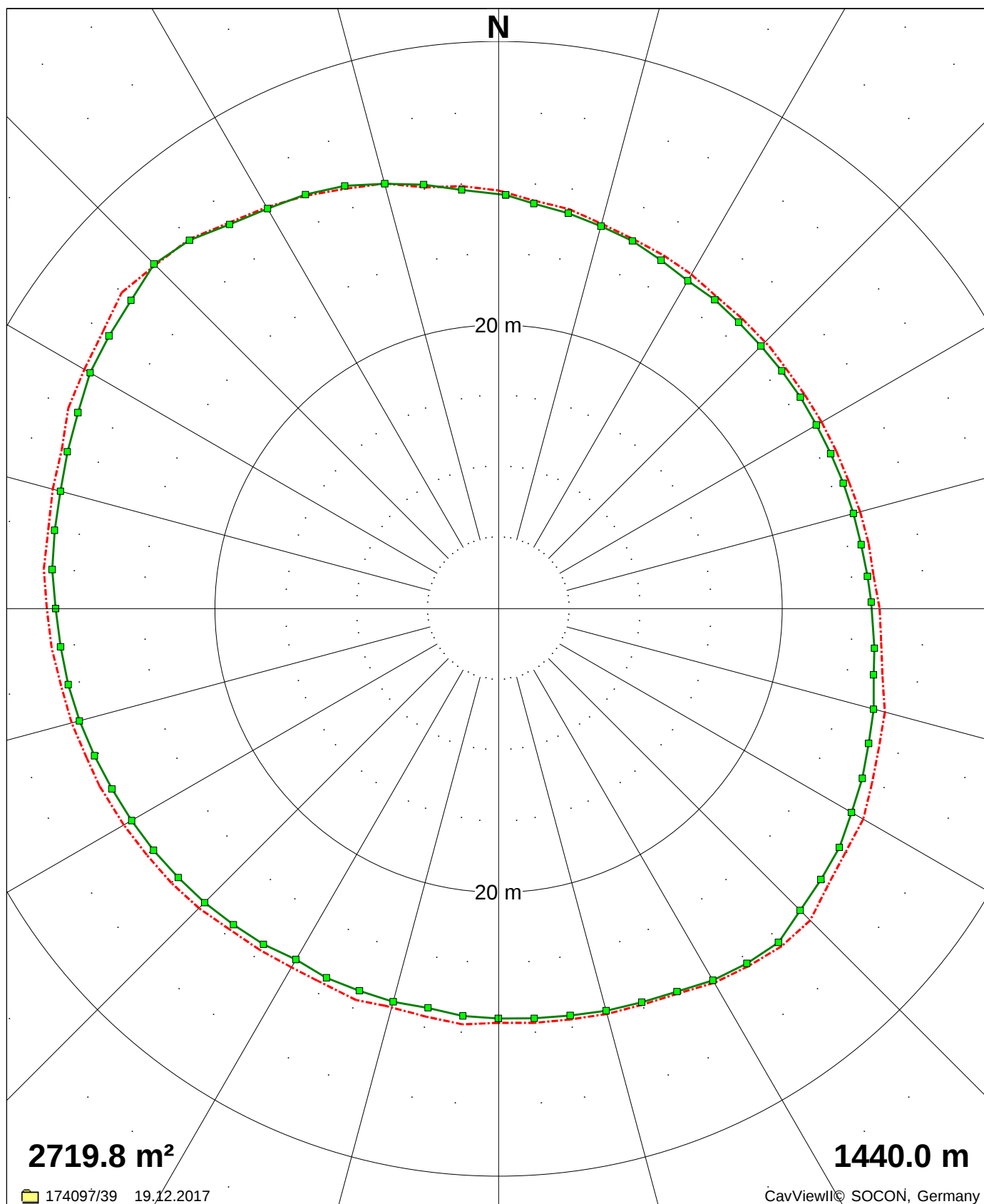
--- (19.05.2014) (2789.7 m²)

—■— (19.12.2017) (2704.3 m²)

$d_{\max}$: 64.7 m 140° <--> 320° $r_{\min}$: 25.8 m -> 66° $r_{\sim}$: 29.3 m $r_{\max}$: 34.3 m -> 315°

Heiligerlee K

19.12.2017



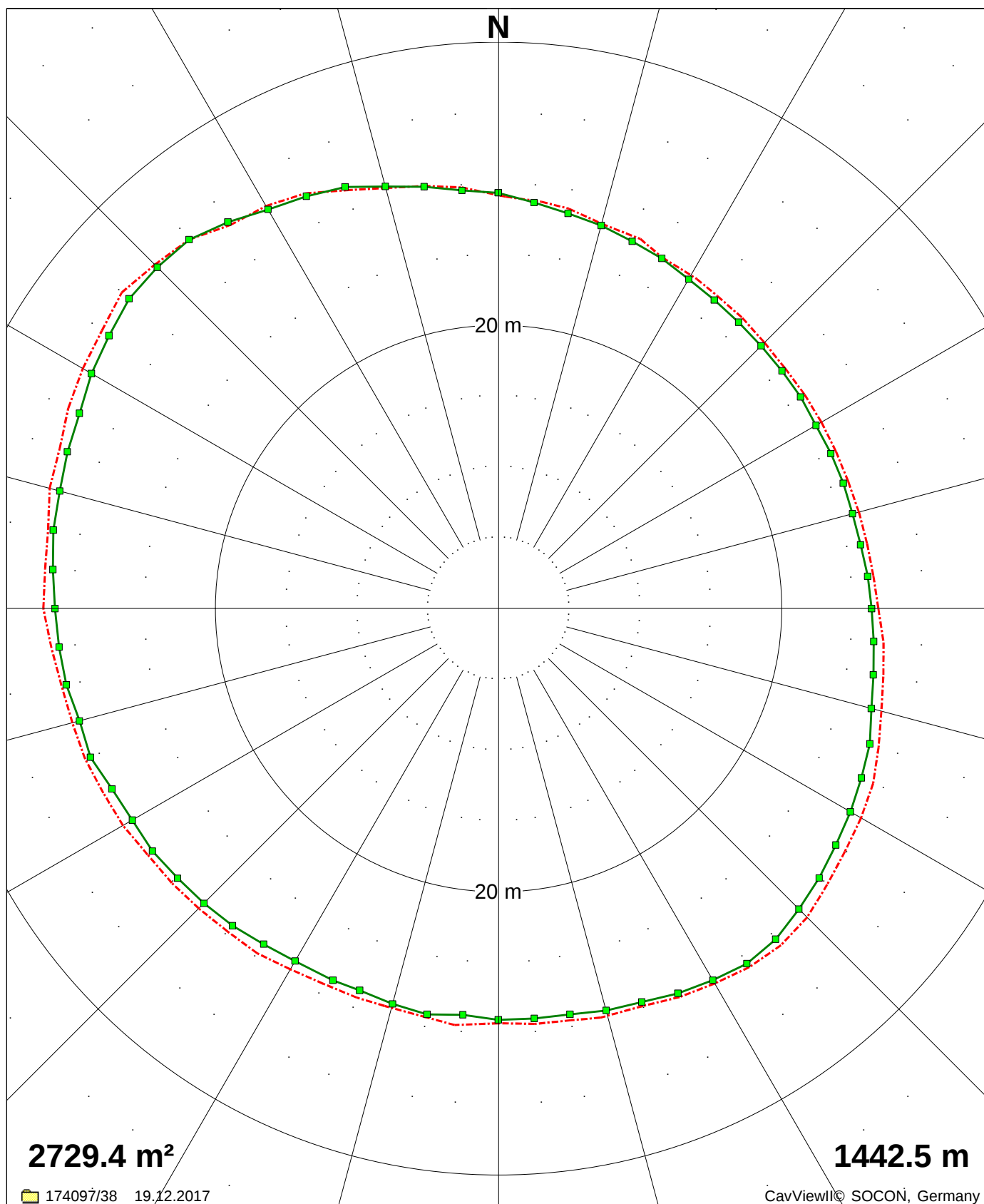
--- (19.05.2014) (2798.7 m²)

—■— (19.12.2017) (2719.8 m²)

$d_{\max}$: 64.6 m 140° <--> 320° $r_{\min}$: 25.8 m -> 66° $r_{\sim}$: 29.4 m $r_{\max}$: 34.4 m -> 315°

Heiligerlee K

19.12.2017



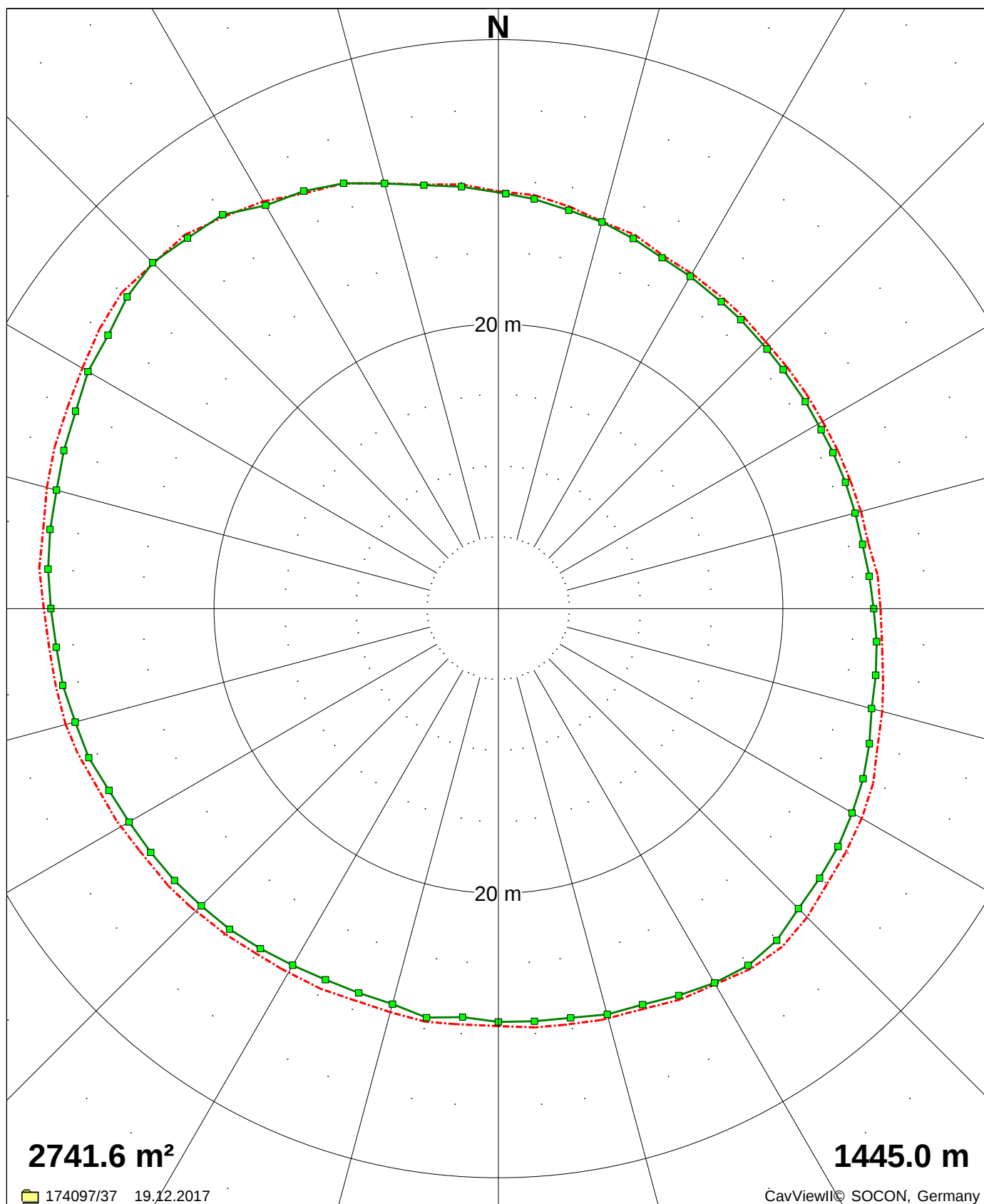
--- (19.05.2014) (2810.7 m²)

—■ (19.12.2017) (2729.4 m²)

$d_{\max}$: 64.5 m 140° <--> 320° $r_{\min}$: 25.9 m -> 61° $r_{\sim}$: 29.5 m $r_{\max}$: 34.1 m -> 315°

Heiligerlee K

19.12.2017



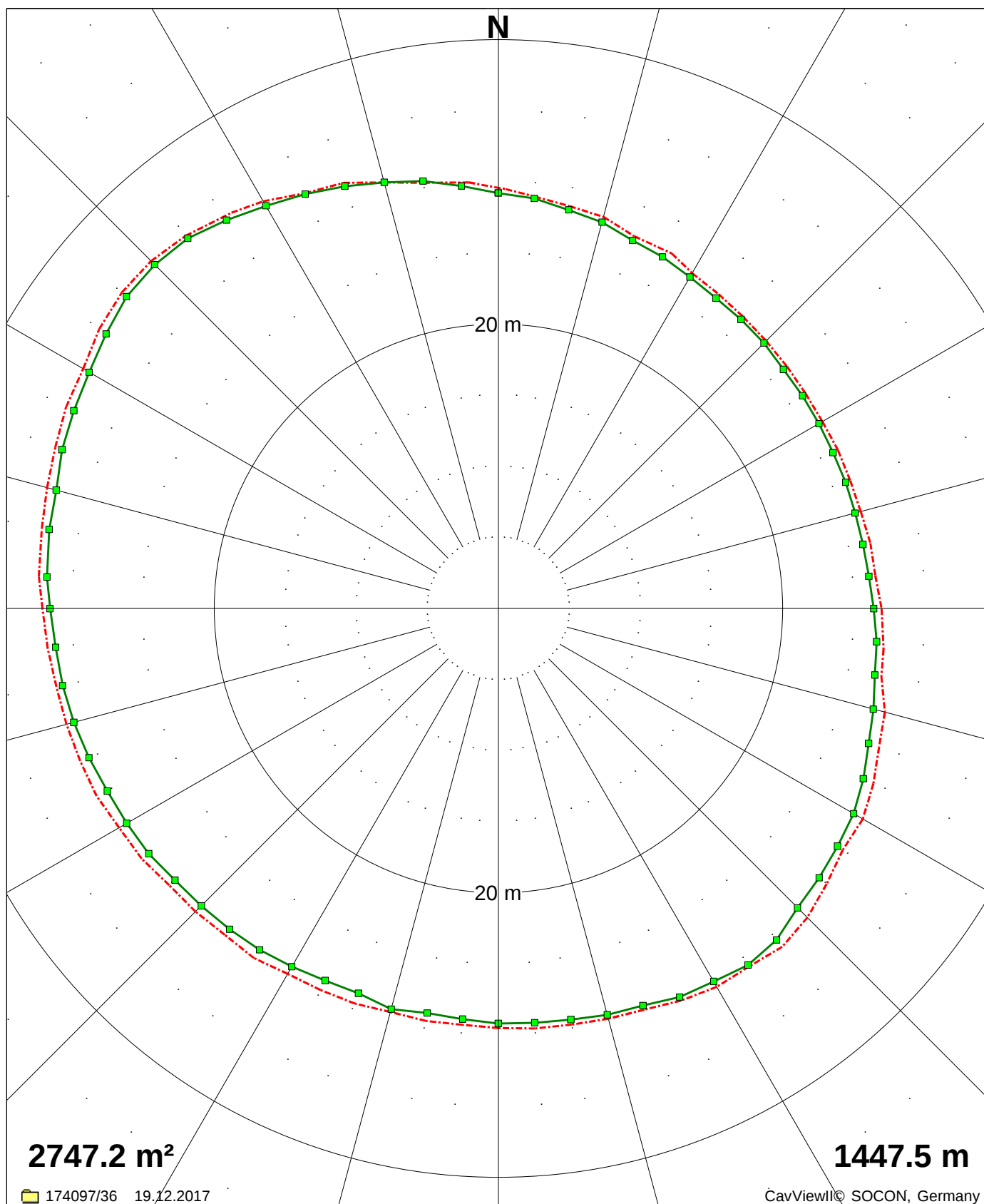
--- (19.05.2014) (2819.4 m²)

—■— (19.12.2017) (2741.6 m²)

$d_{\max}$: 64.4 m 140° <--> 320° $r_{\min}$: 25.9 m -> 62° $r_{\sim}$: 29.5 m $r_{\max}$: 34.4 m -> 315°

Heiligerlee K

19.12.2017

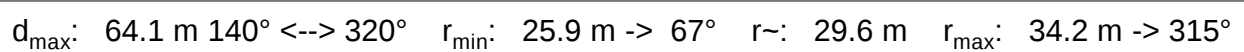


--- (19.05.2014) (2832.0 m²)

—■— (19.12.2017) (2747.2 m²)

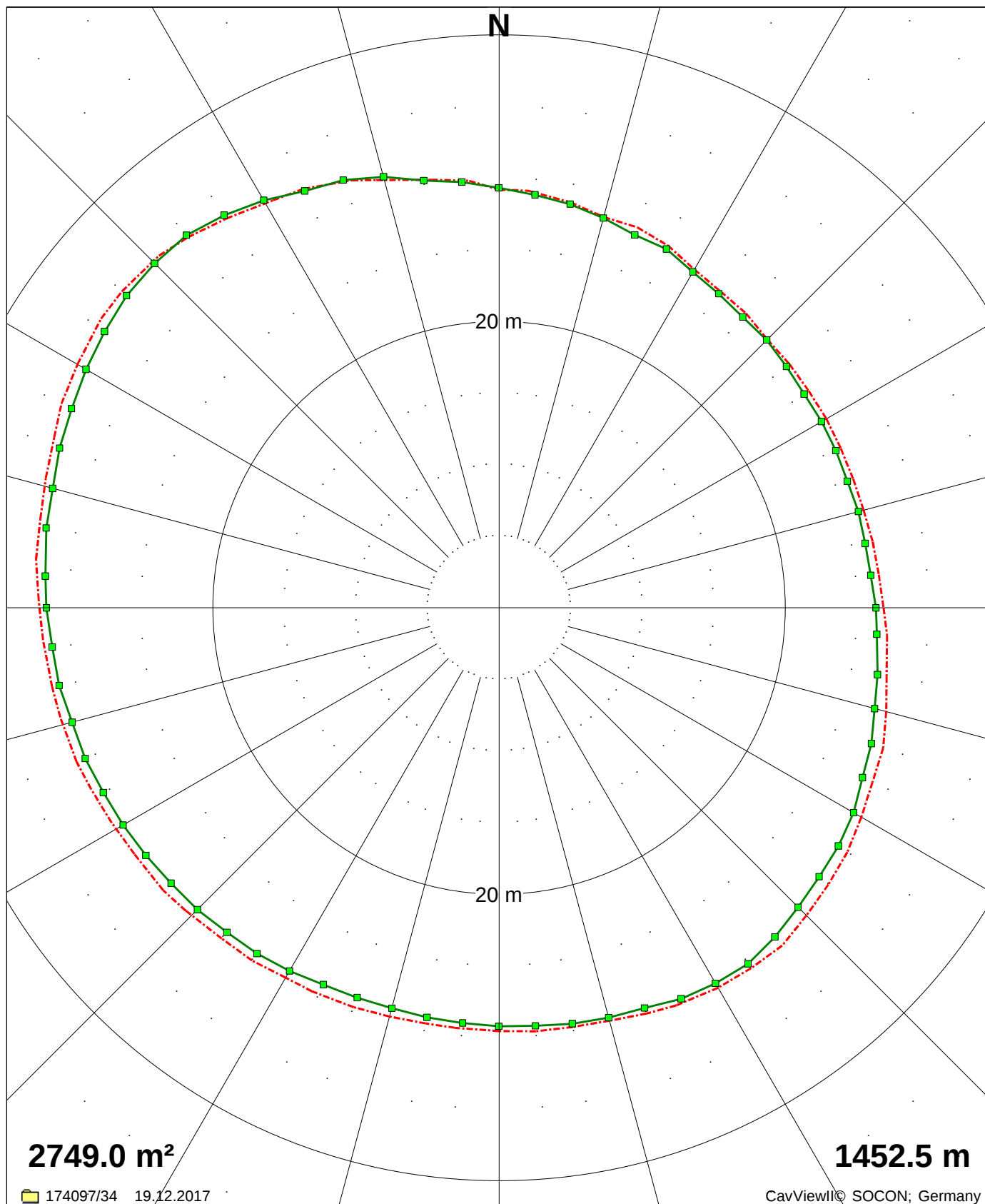
$d_{\max}$: 64.4 m 140° <--> 320° $r_{\min}$: 25.9 m -> 66° $r_{\sim}$: 29.6 m $r_{\max}$: 34.2 m -> 315°

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19.12.2017



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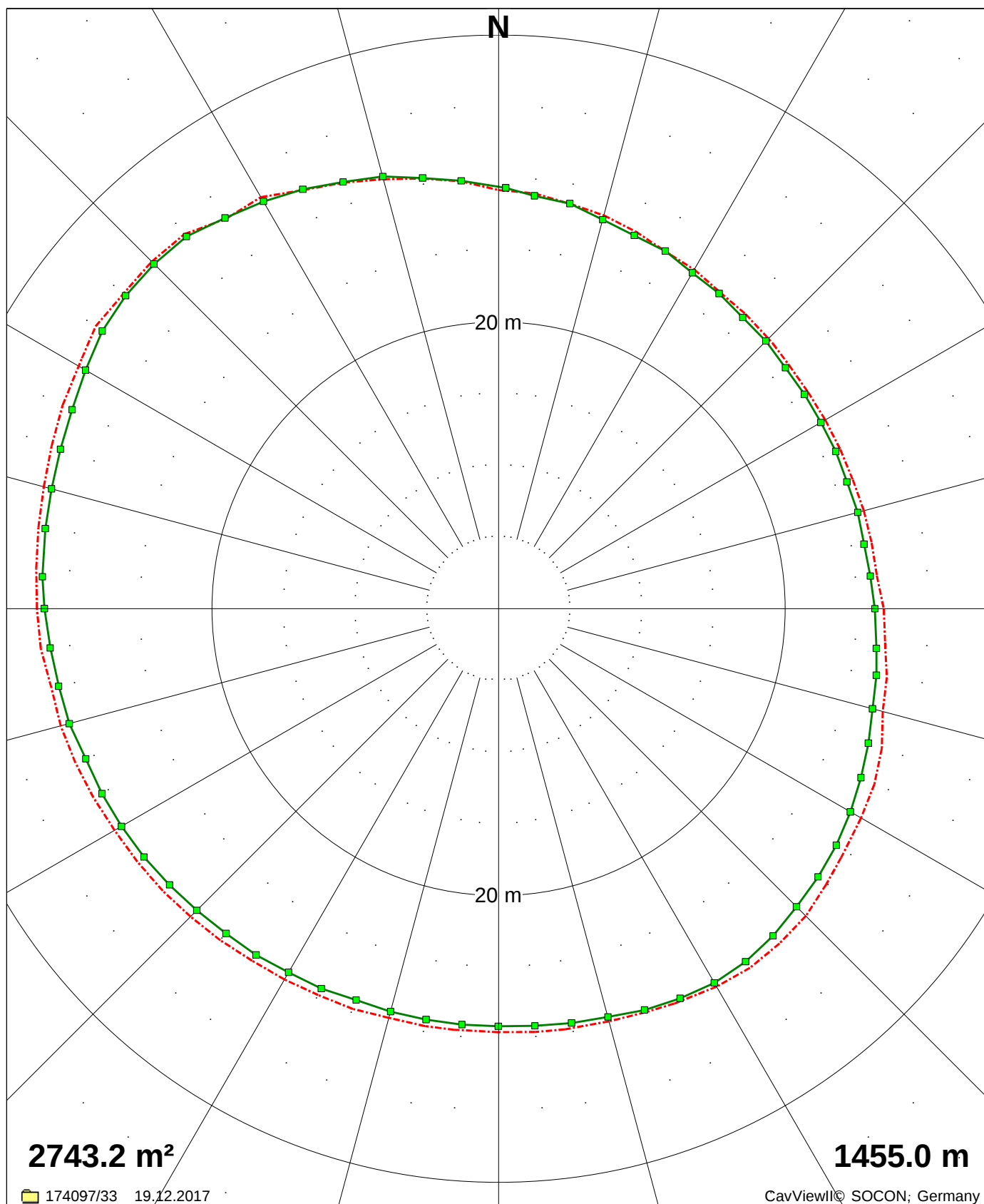
--- (19.05.2014) (2829.7 m²)

—■— (19.12.2017) (2749.0 m²)

$d_{\max}$: 63.9 m 140° <--> 320° $r_{\min}$: 25.9 m -> 68° $r_{\sim}$: 29.6 m $r_{\max}$: 34.0 m -> 315°

Heiligerlee K

19.12.2017



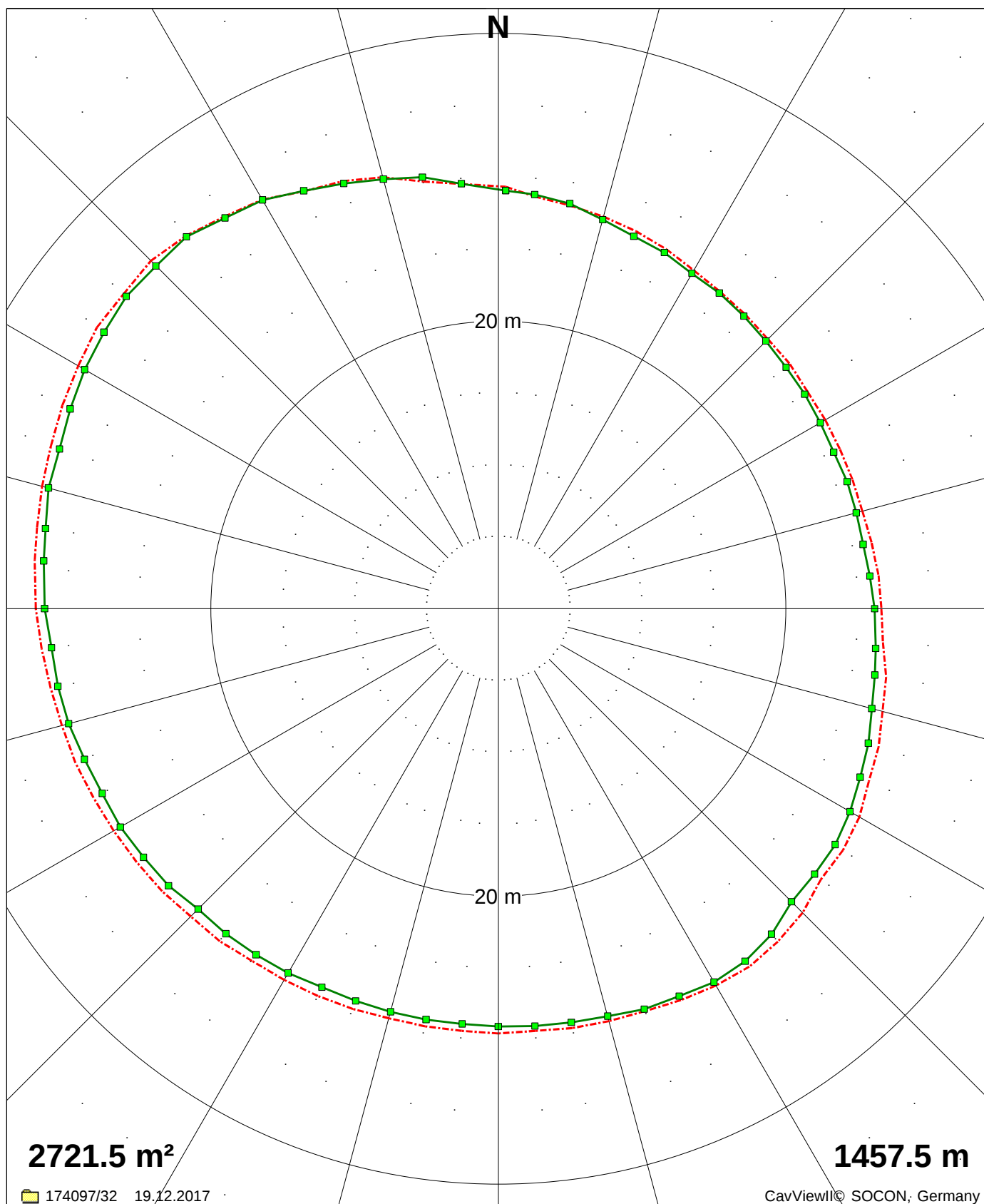
--- (19.05.2014) (2823.0 m²)

— (19.12.2017) (2743.2 m²)

$d_{\max}$: 63.7 m 140° <--> 320° $r_{\min}$: 25.8 m -> 69° $r_{\sim}$: 29.5 m $r_{\max}$: 34.0 m -> 315°

Heiligerlee K

19.12.2017



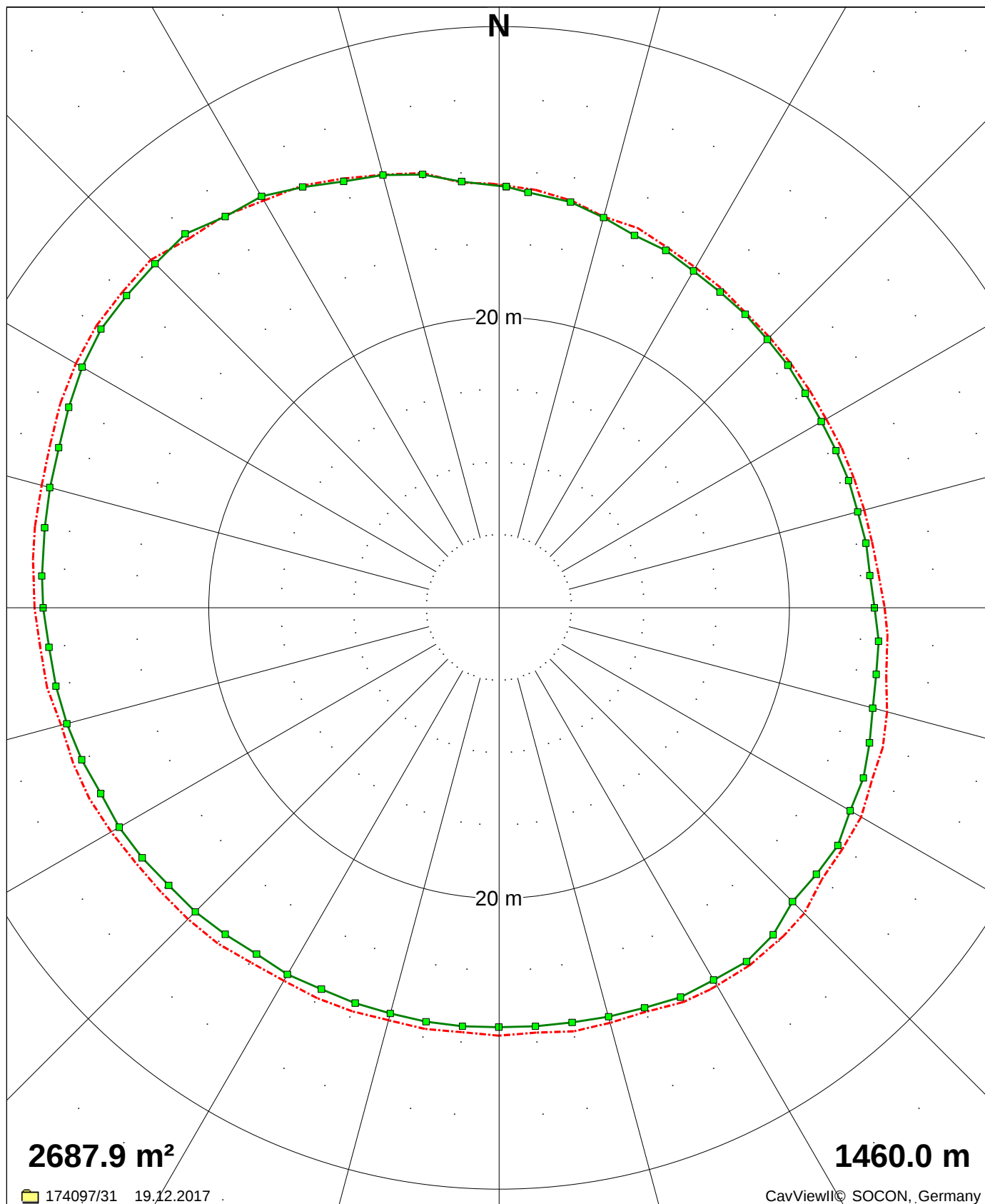
--- (19.05.2014) (2801.6 m²)

—■— (19.12.2017) (2721.5 m²)

$d_{\max}$: 63.3 m 140° <--> 320° $r_{\min}$: 25.7 m -> 77° $r_{\sim}$: 29.4 m $r_{\max}$: 33.8 m -> 310°

Heiligerlee K

19.12.2017



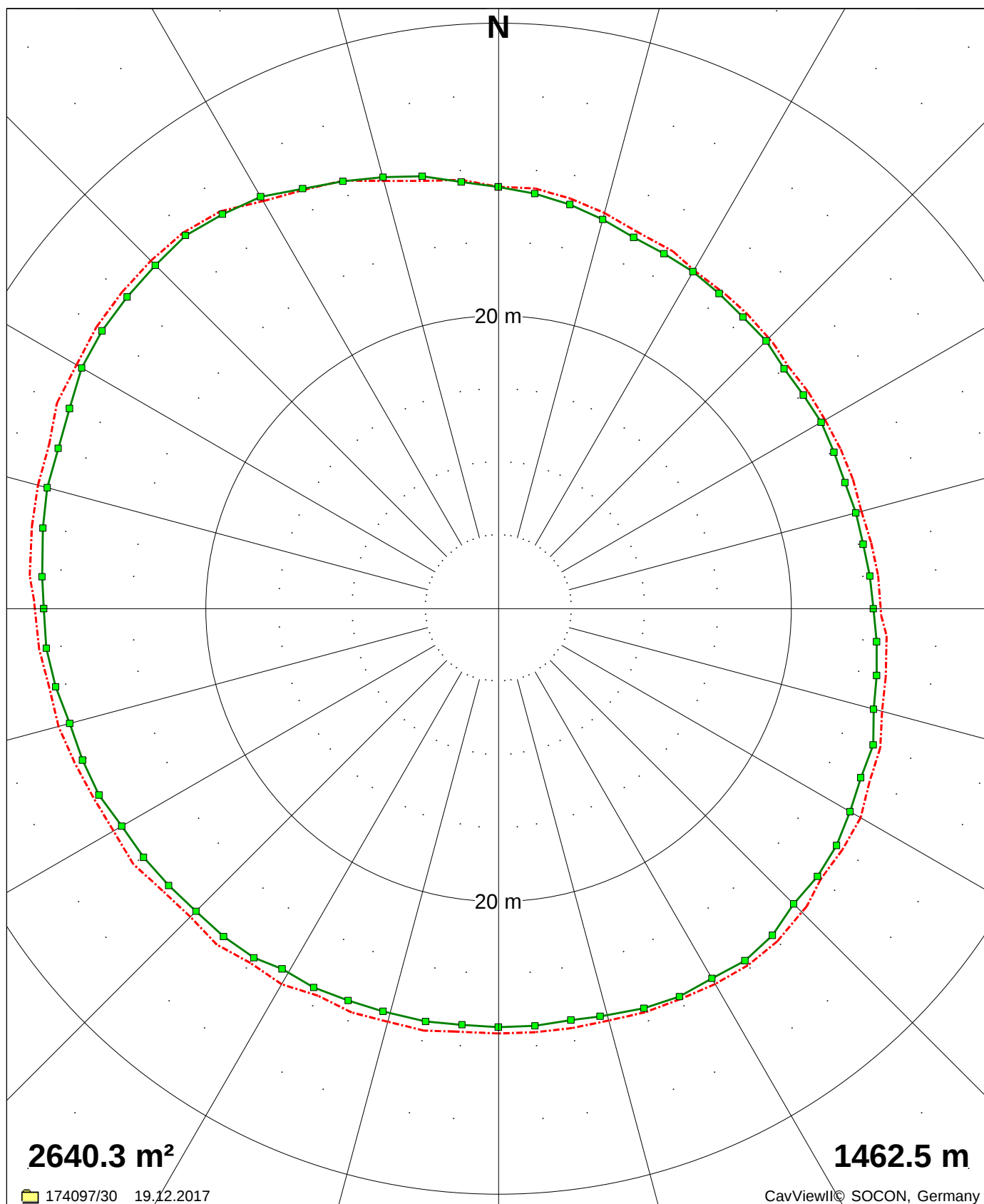
--- (19.05.2014) (2771.3 m²)

—■— (19.12.2017) (2687.9 m²)

$d_{\max}$: 63.0 m 140° <--> 320° $r_{\min}$: 25.6 m -> 73° $r_{\sim}$: 29.3 m $r_{\max}$: 33.6 m -> 320°

Heiligerlee K

19.12.2017



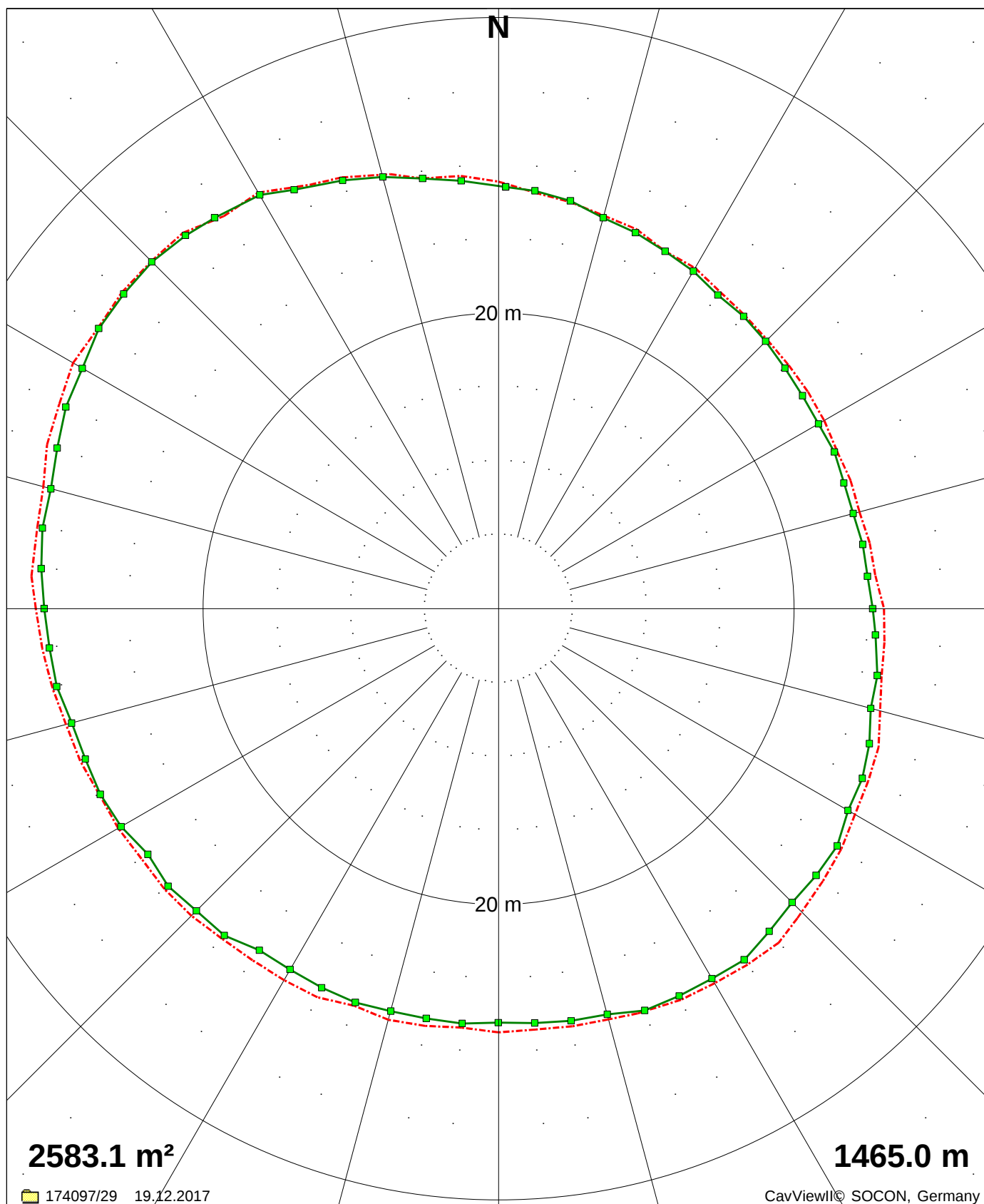
--- (19.05.2014) (2723.1 m²)

—■ (19.12.2017) (2640.3 m²)

$d_{\max}$: 62.4 m 140° <--> 320° $r_{\min}$: 25.2 m -> 68° $r_{\sim}$: 29.0 m $r_{\max}$: 33.3 m -> 320°

Heiligerlee K

19.12.2017



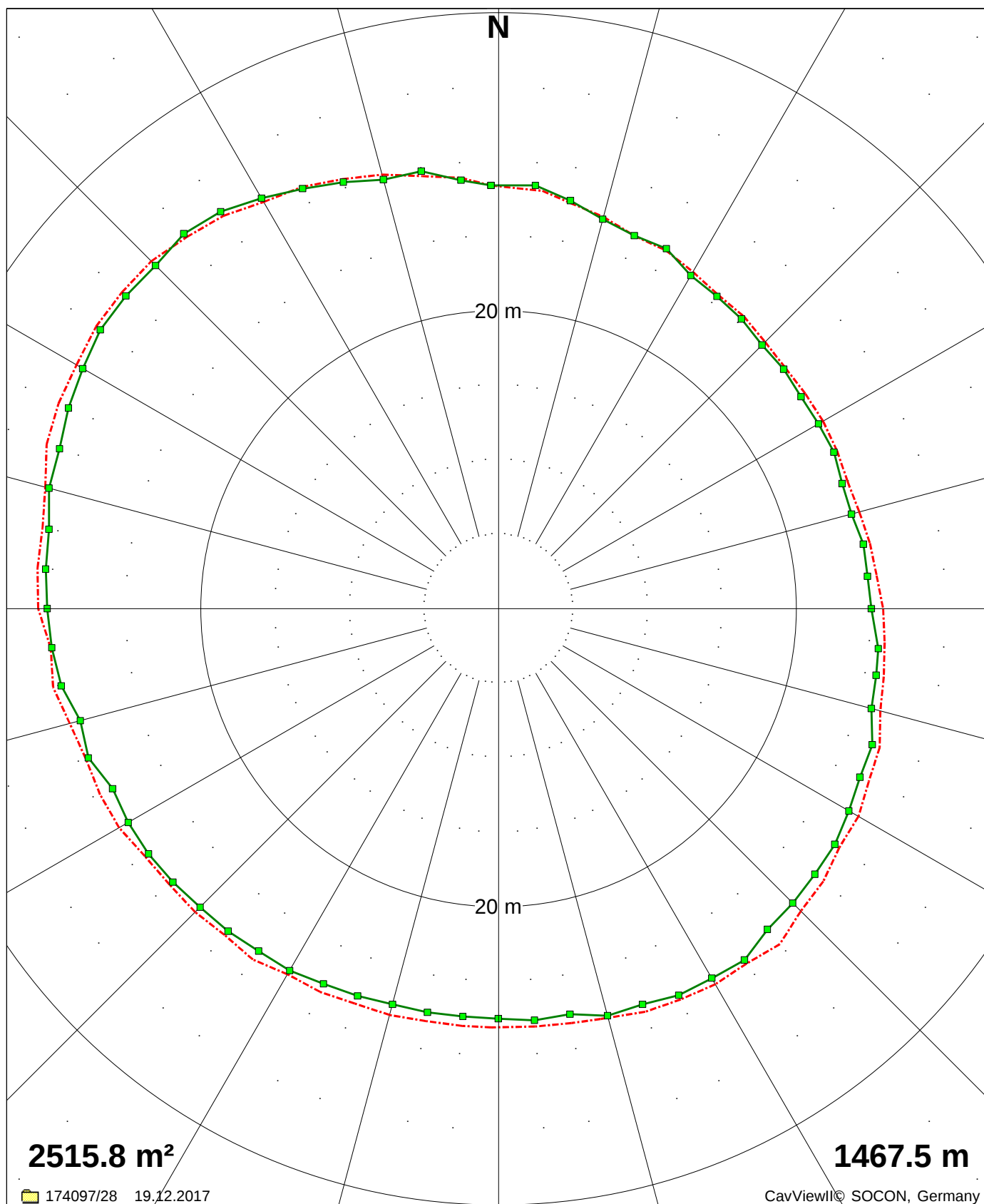
--- (19.05.2014) (2651.2 m²)

— (19.12.2017) (2583.1 m²)

$d_{\max}$: 61.6 m 145° <--> 325° $r_{\min}$: 24.8 m -> 72° $r_{\sim}$: 28.7 m $r_{\max}$: 33.2 m -> 315°

Heiligerlee K

19.12.2017



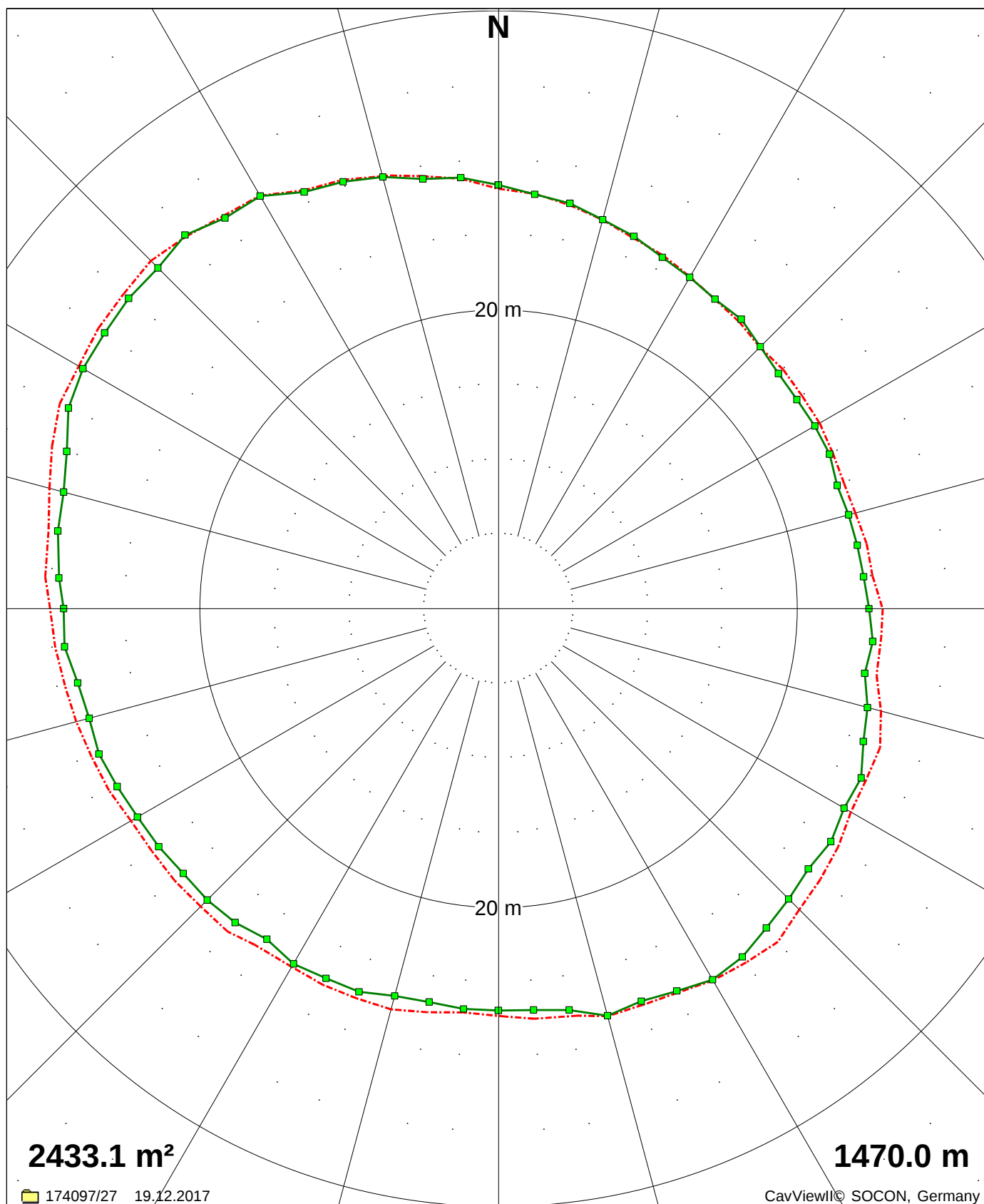
--- (19.05.2014) (2584.0 m²)

—■— (19.12.2017) (2515.8 m²)

$d_{\max}$: 61.3 m 145° <--> 325° $r_{\min}$: 24.5 m -> 72° $r_{\sim}$: 28.3 m $r_{\max}$: 32.8 m -> 320°

Heiligerlee K

19.12.2017



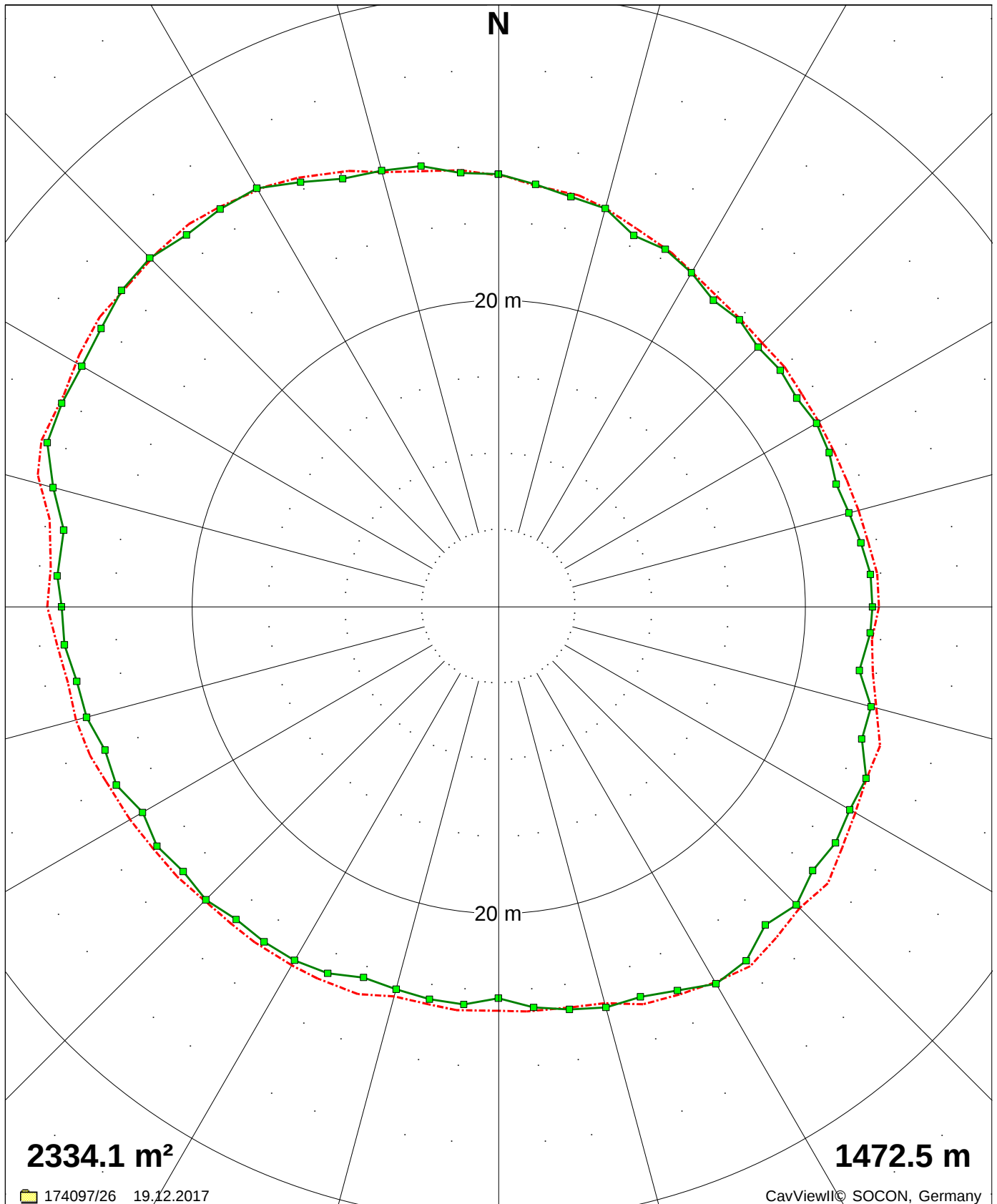
--- (19.05.2014) (2512.8 m²)

—■— (19.12.2017) (2433.1 m²)

$d_{\max}$: 60.5 m 150° <--> 330° $r_{\min}$: 24.1 m -> 70° $r_{\sim}$: 27.8 m $r_{\max}$: 32.6 m -> 320°

Heiligerlee K

19.12.2017



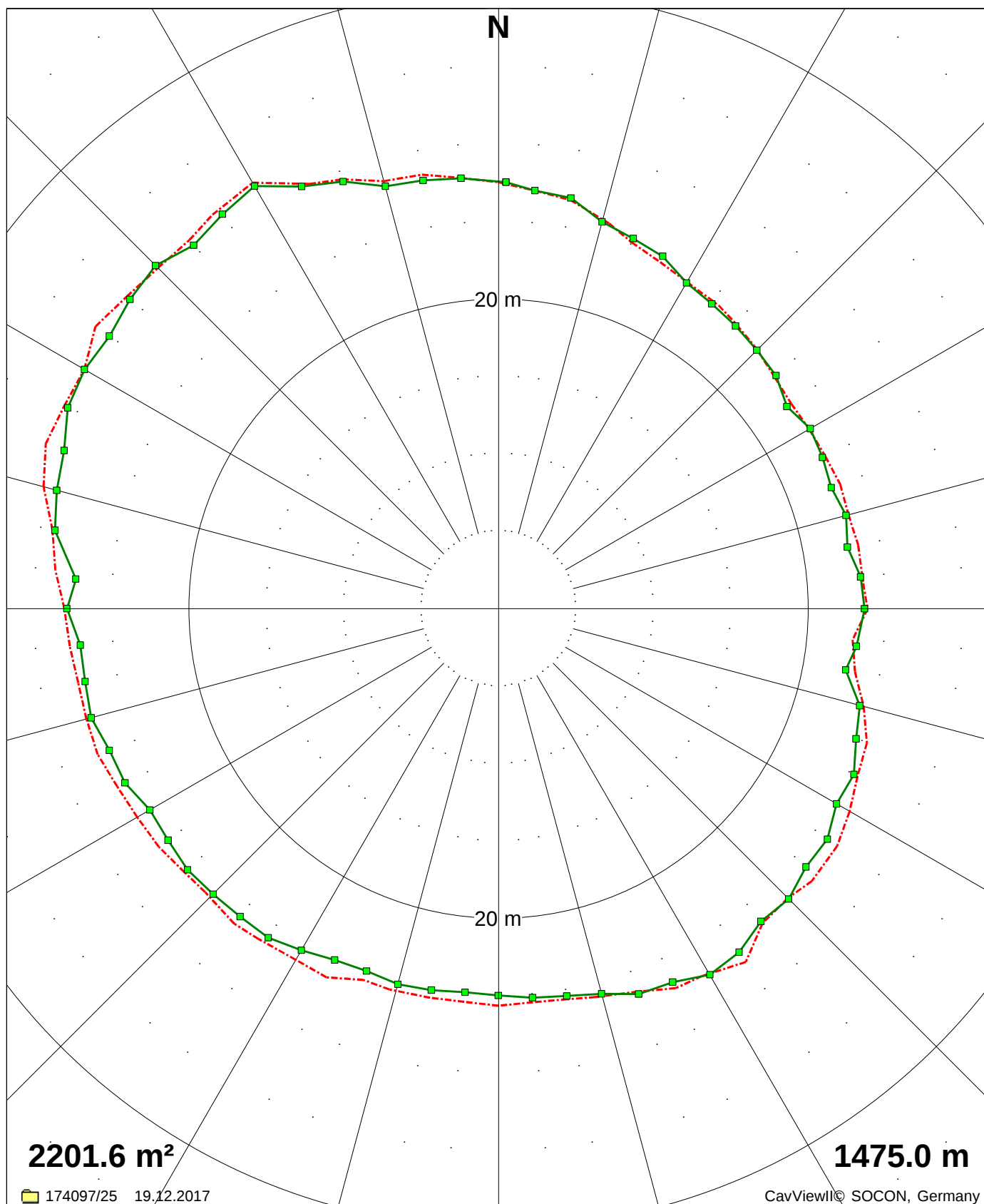
--- (19.05.2014) (2401.6 m²)

—■— (19.12.2017) (2334.1 m²)

$d_{\max}$: 59.9 m 150° <--> 330° $r_{\min}$: 23.4 m -> 70° $r_{\sim}$: 27.3 m $r_{\max}$: 32.2 m -> 315°

Heiligerlee K

19.12.2017



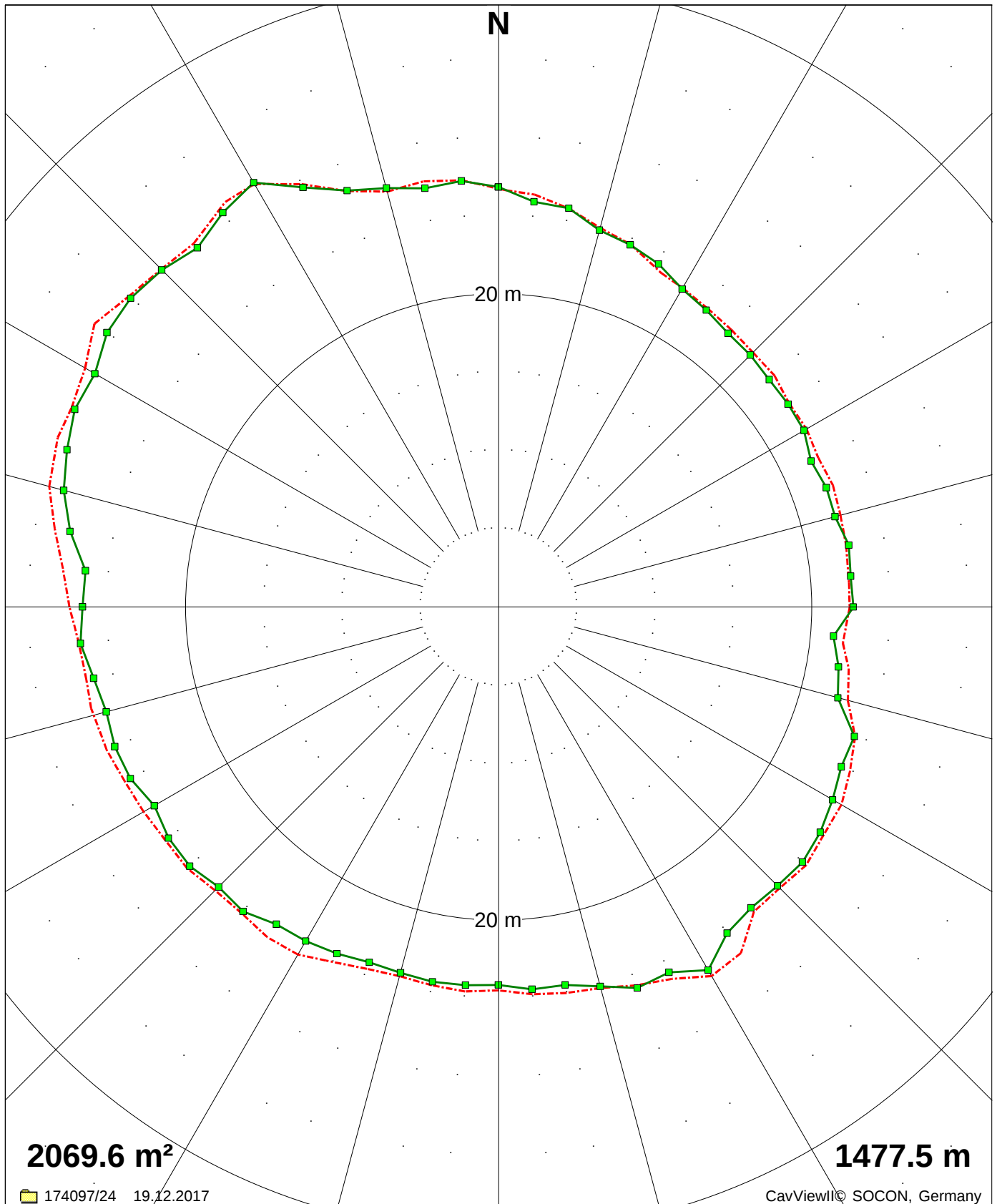
--- (19.05.2014) (2262.4 m²)

—■— (19.12.2017) (2201.6 m²)

$d_{\max}$: 58.8 m 150° <--> 330° $r_{\min}$: 22.8 m -> 55° $r_{\sim}$: 26.5 m $r_{\max}$: 31.5 m -> 330°

Heiligerlee K

19.12.2017



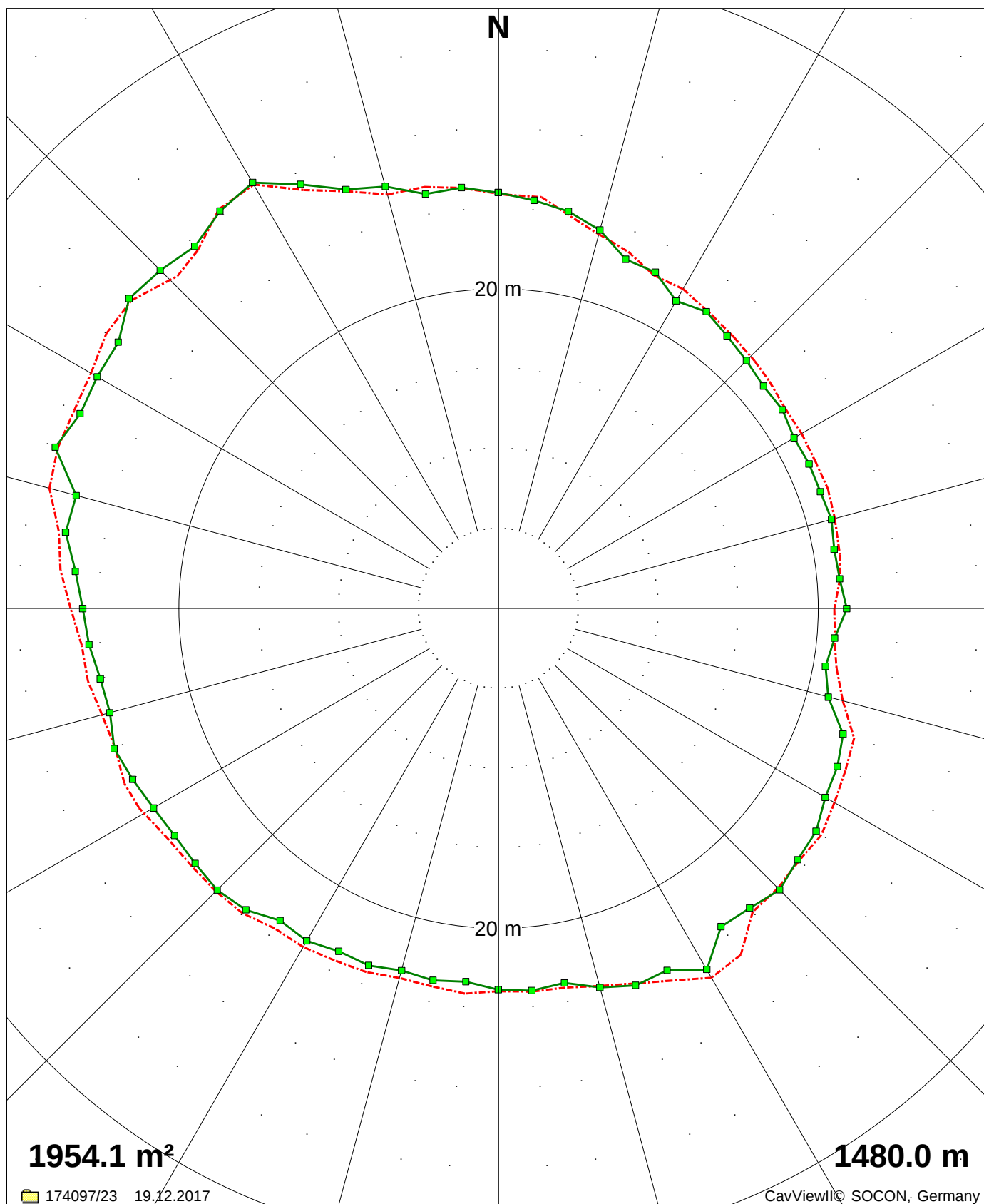
--- (19.05.2014) (2130.3 m²)

—■— (19.12.2017) (2069.6 m²)

$d_{\max}$: 58.1 m 150° <--> 330° $r_{\min}$: 21.5 m -> 95° $r_{\sim}$: 25.7 m $r_{\max}$: 31.3 m -> 330°

Heiligerlee K

19.12.2017



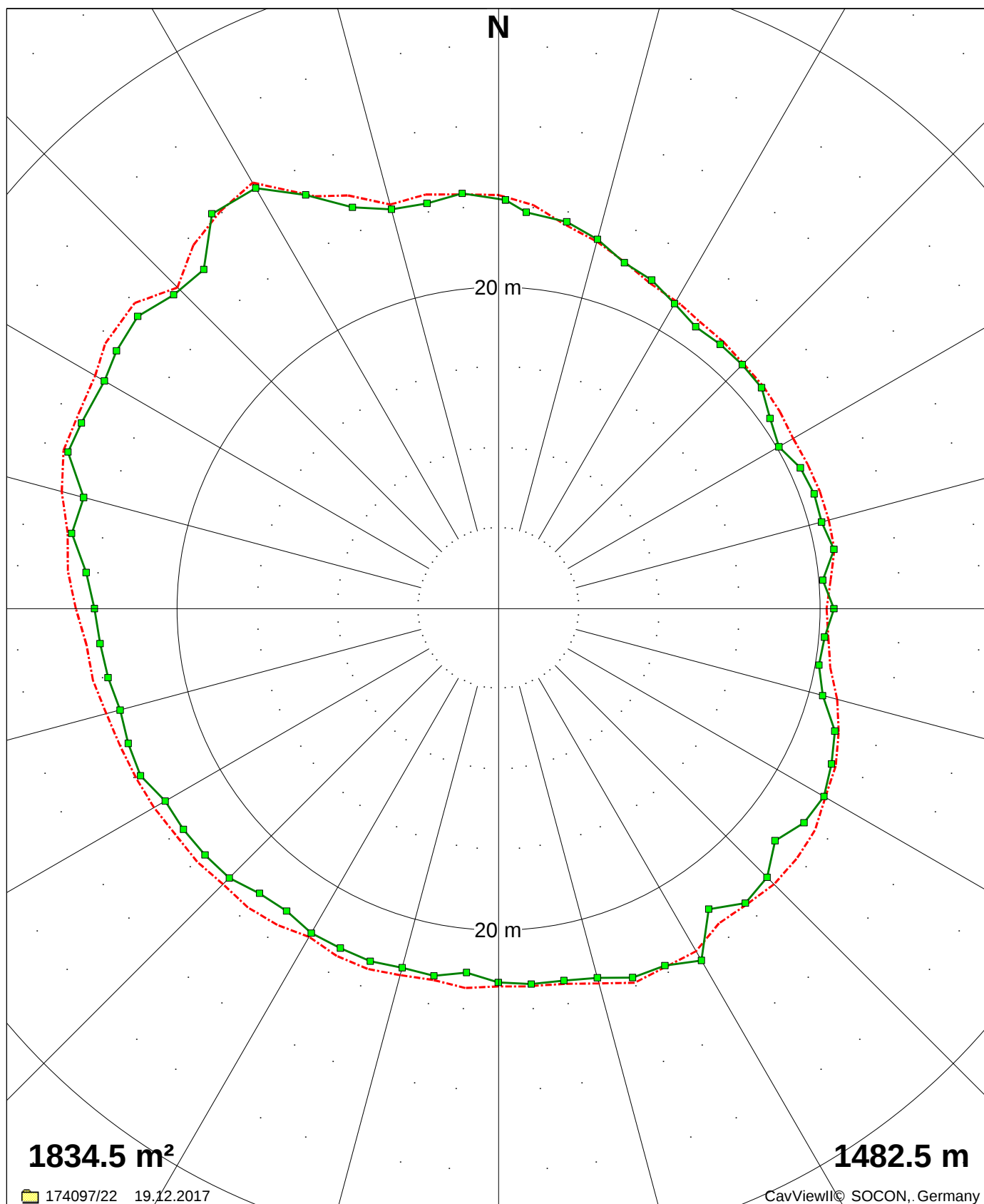
--- (19.05.2014) (2002.9 m²)

—■ (19.12.2017) (1954.1 m²)

d_{max}: 56.8 m 150° <--> 330° r_{min}: 20.8 m -> 100° r~: 24.9 m r_{max}: 30.8 m -> 330°

Heiligerlee K

19.12.2017



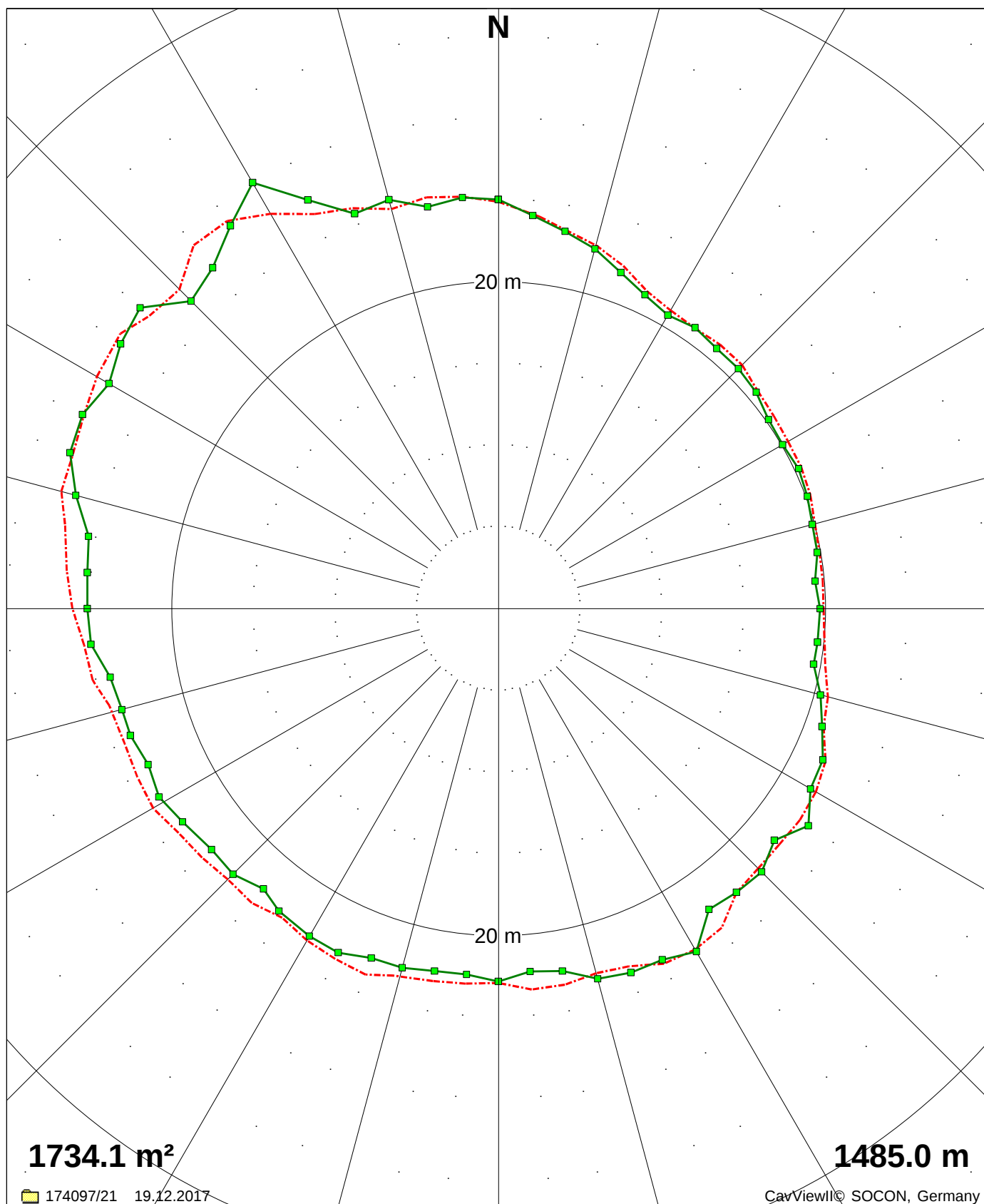
--- (19.05.2014) (1906.5 m²)

—■— (19.12.2017) (1834.5 m²)

$d_{\max}$: 55.4 m 150° <--> 330° $r_{\min}$: 20.1 m -> 60° $r_{\sim}$: 24.2 m $r_{\max}$: 30.3 m -> 324°

Heiligerlee K

19.12.2017



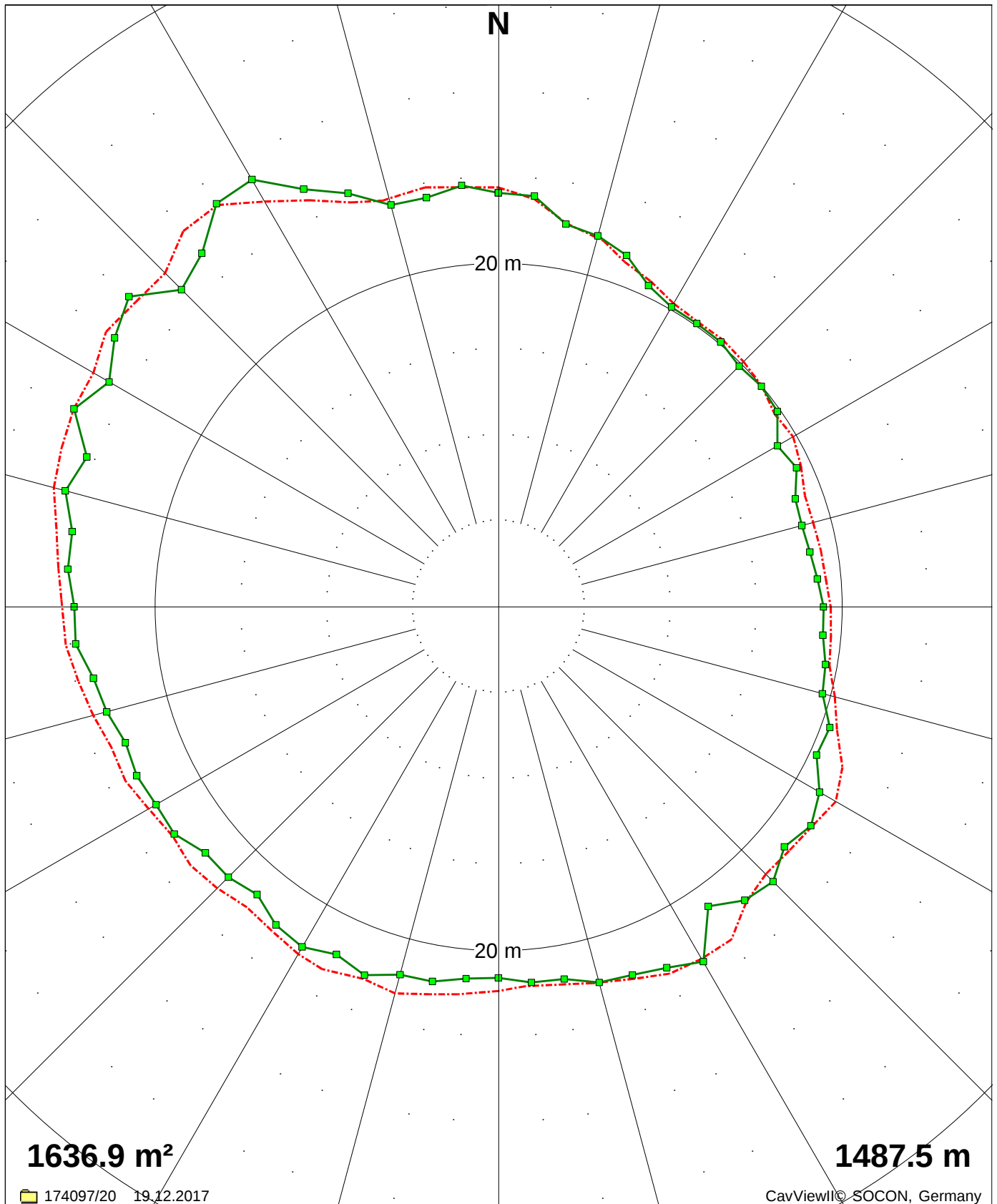
--- (19.05.2014) (1784.4 m²)

—■— (19.12.2017) (1734.1 m²)

d_{max}: 54.3 m 150° <--> 330° r_{min}: 19.4 m -> 85° r~: 23.5 m r_{max}: 30.1 m -> 330°

Heiligerlee K

19.12.2017



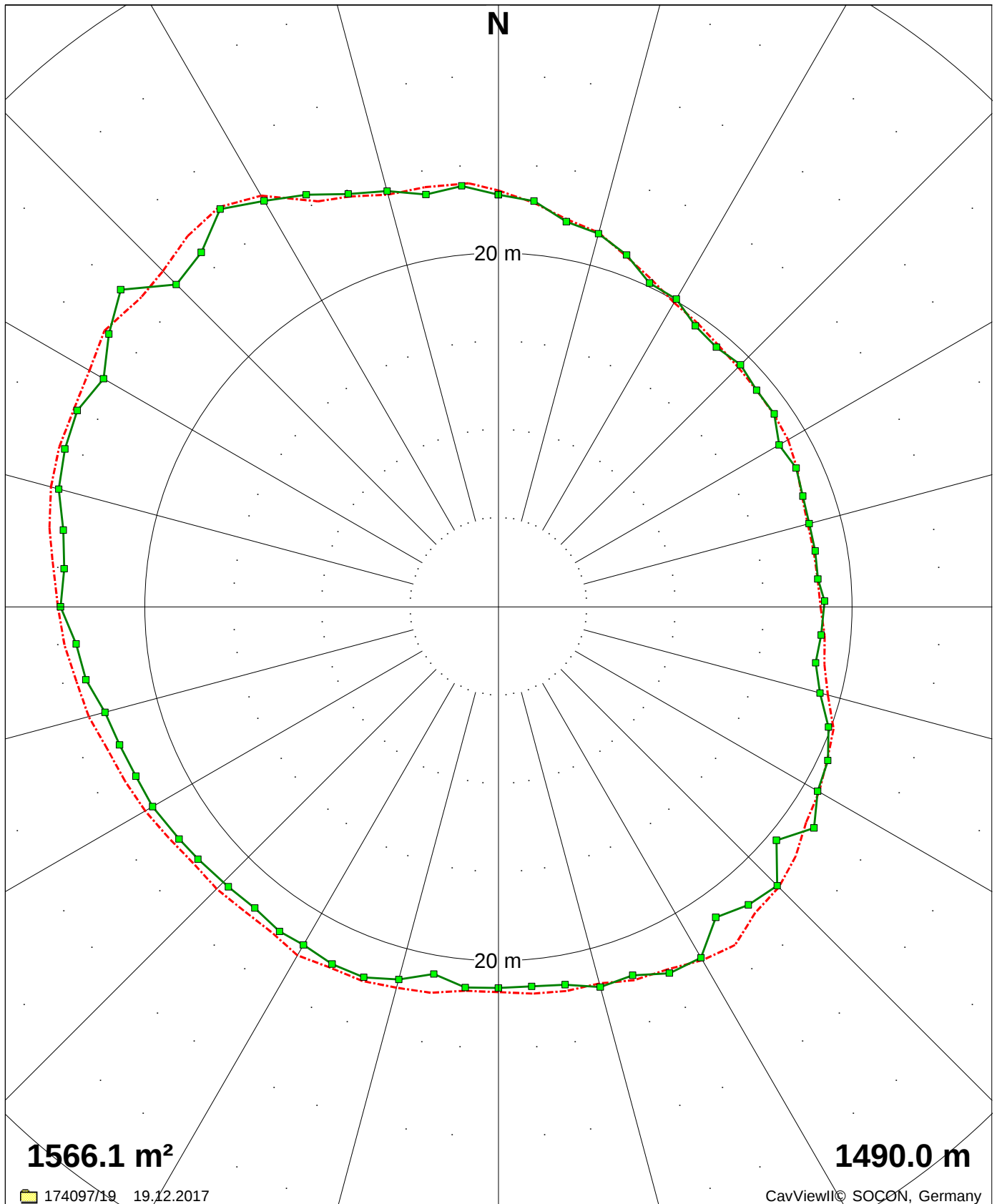
--- (19.05.2014) (1702.0 m²)

—■— (19.12.2017) (1636.9 m²)

$d_{\max}$: 52.5 m 150° <--> 330° $r_{\min}$: 18.3 m -> 74° $r_{\sim}$: 22.8 m $r_{\max}$: 28.7 m -> 330°

Heiligerlee K

19.12.2017



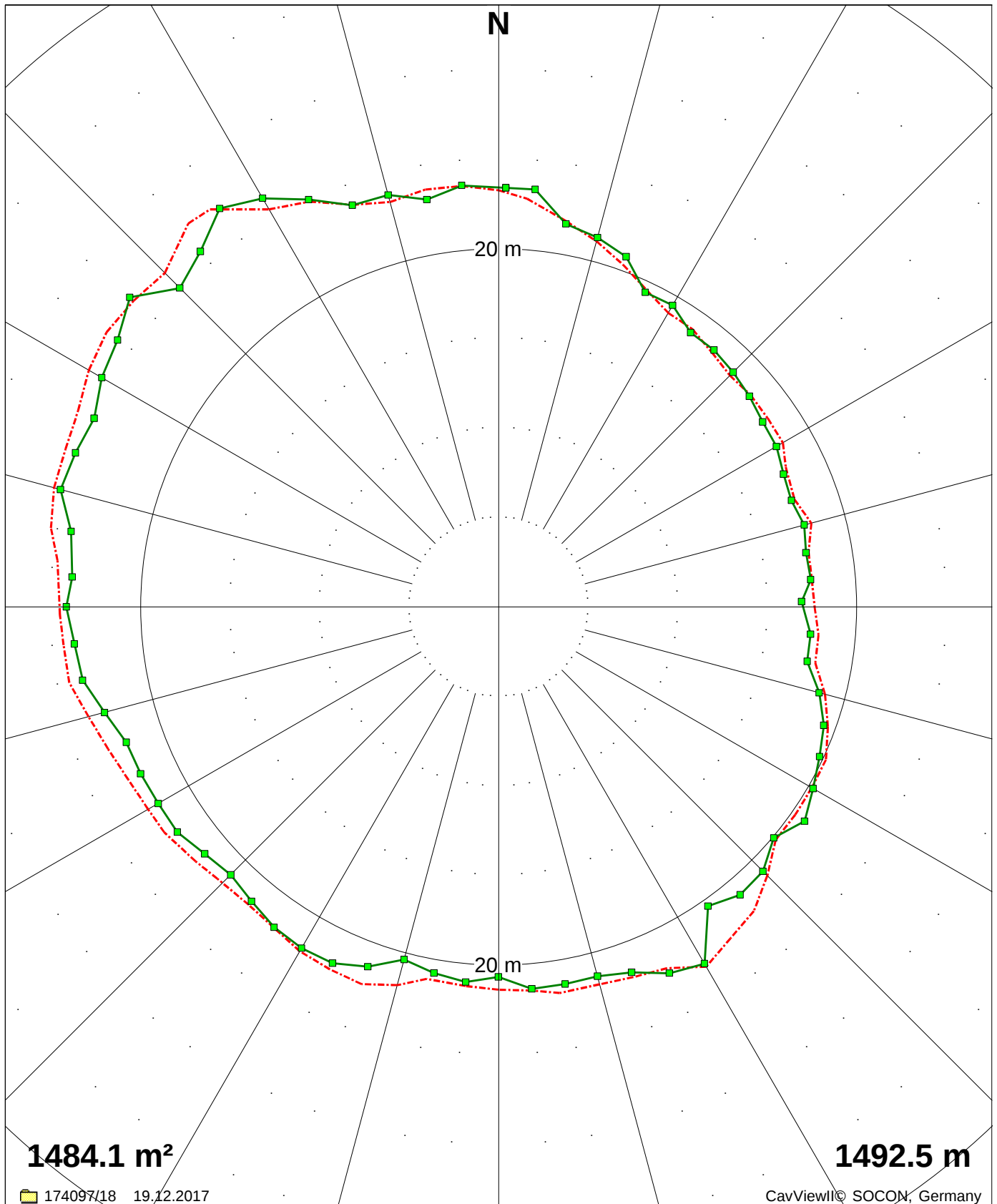
--- (19.05.2014) (1608.2 m²)

—■— (19.12.2017) (1566.1 m²)

$d_{\max}$: 49.4 m 150° <--> 330° $r_{\min}$: 18.1 m -> 83° $r_{\sim}$: 22.3 m $r_{\max}$: 27.9 m -> 310°

Heiligerlee K

19.12.2017



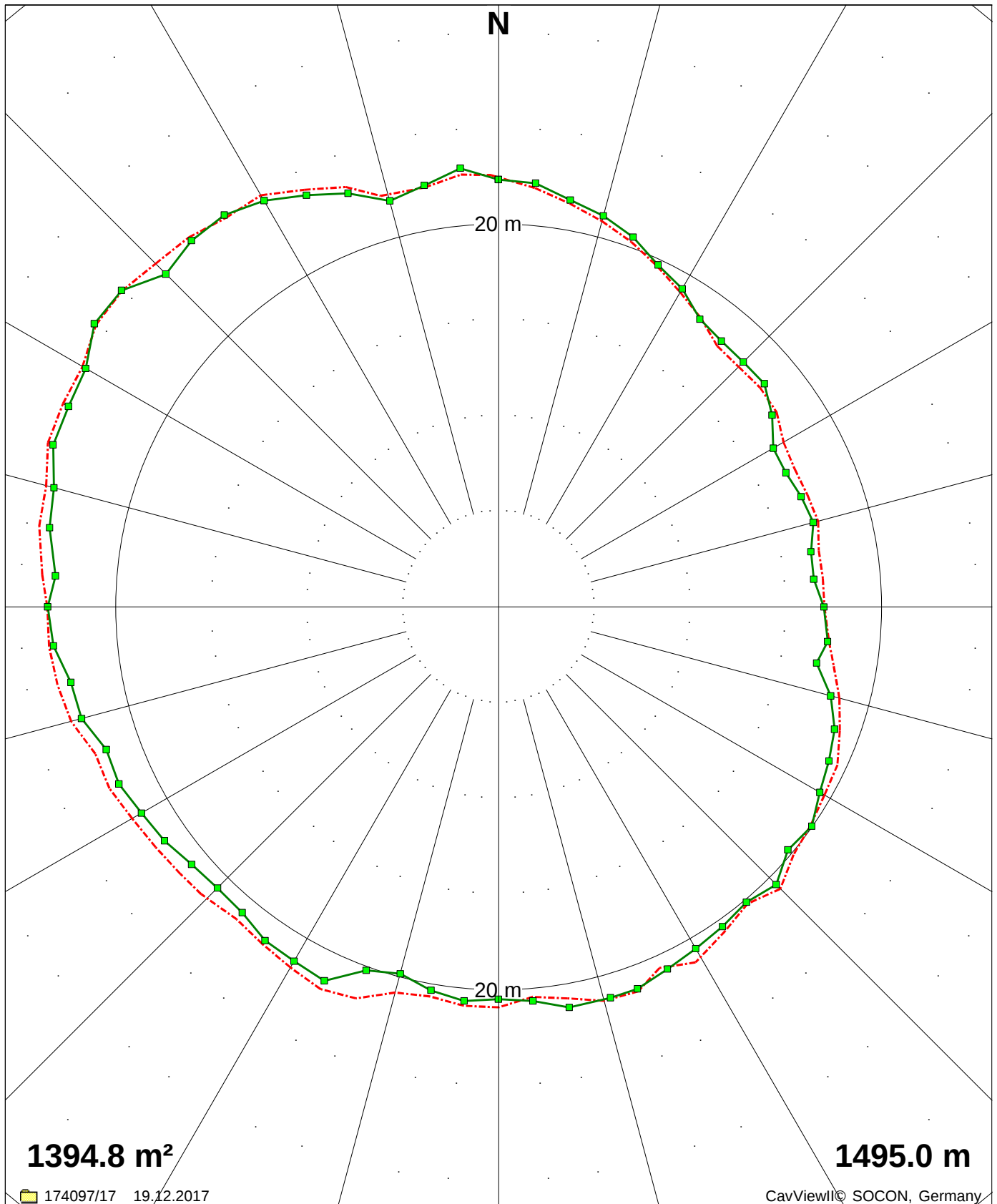
--- (19.05.2014) (1535.0 m²)

—■— (19.12.2017) (1484.1 m²)

$d_{\max}$: 49.3 m 150° <--> 330° $r_{\min}$: 16.9 m -> 89° $r_{\sim}$: 21.7 m $r_{\max}$: 27.2 m -> 325°

Heiligerlee K

19.12.2017



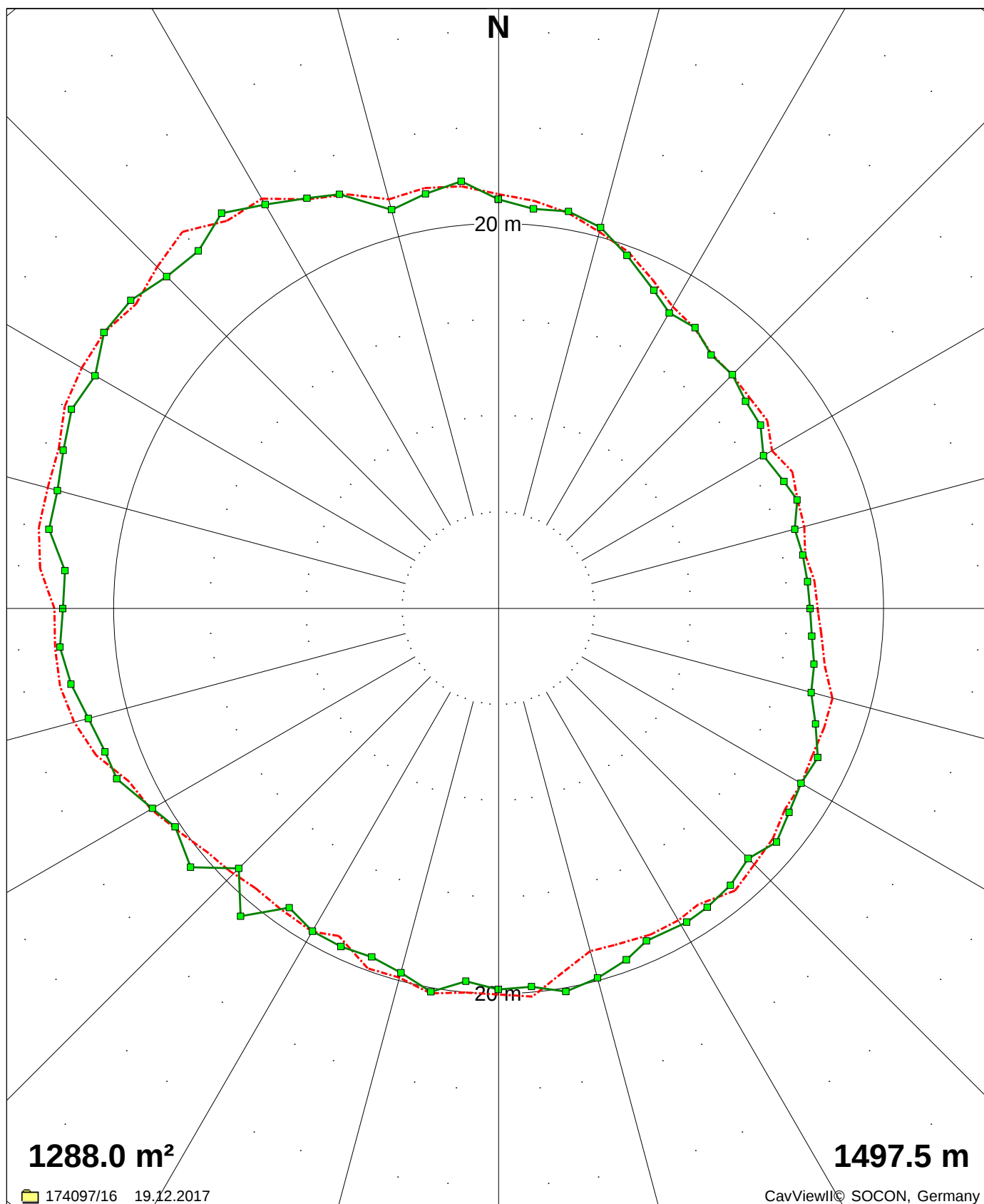
--- (19.05.2014) (1429.5 m²)

—■— (19.12.2017) (1394.8 m²)

$d_{\max}$: 45.7 m 125° <--> 305° $r_{\min}$: 16.5 m -> 83° $r_{\sim}$: 21.1 m $r_{\max}$: 25.8 m -> 305°

Heiligerlee K

19.12.2017



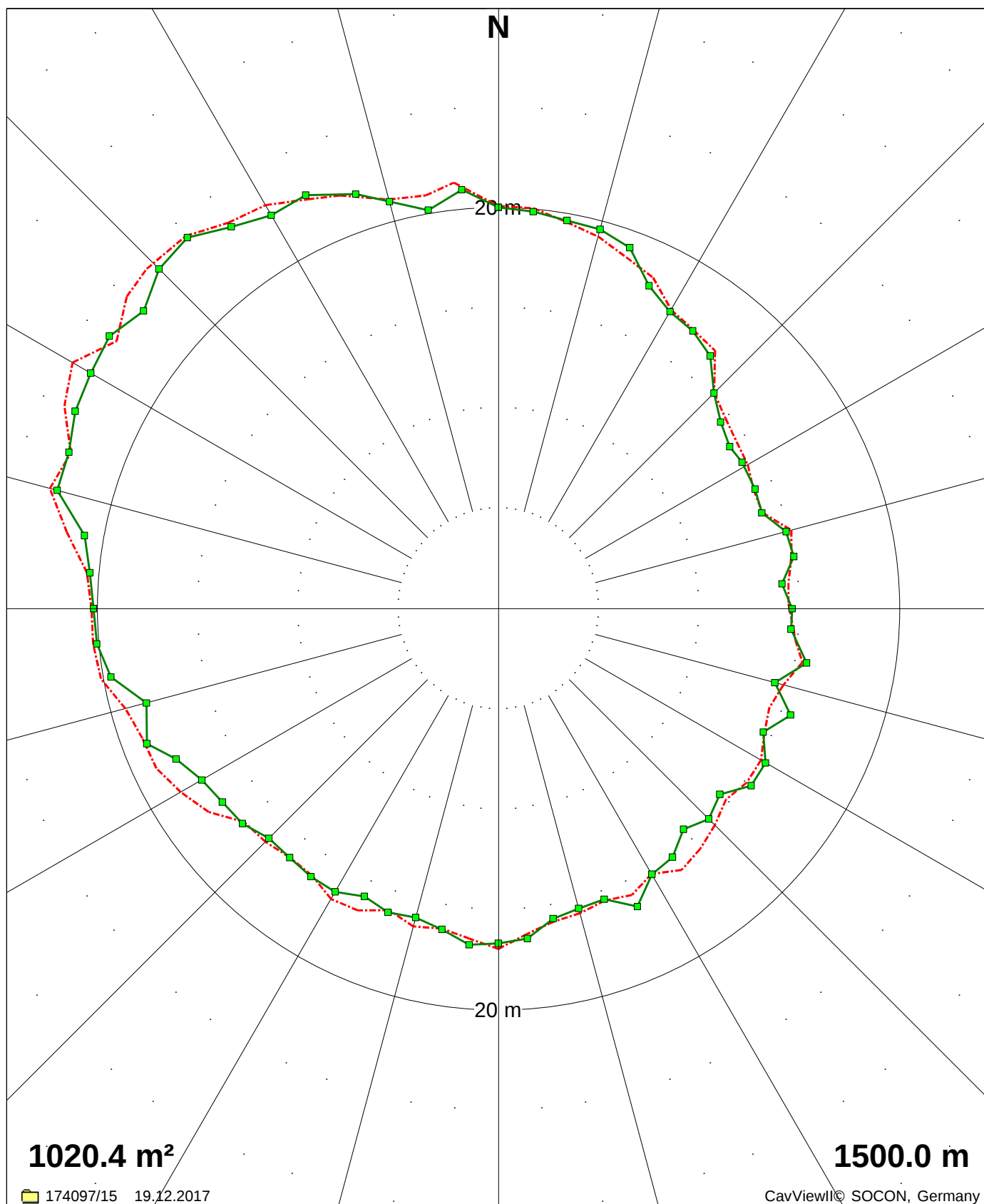
--- (19.05.2014) (1308.5 m²)

—■— (19.12.2017) (1288.0 m²)

$d_{\max}$: 44.0 m 145° <--> 325° $r_{\min}$: 15.9 m -> 60° $r_{\sim}$: 20.2 m $r_{\max}$: 25.1 m -> 325°

Heiligerlee K

19.12.2017



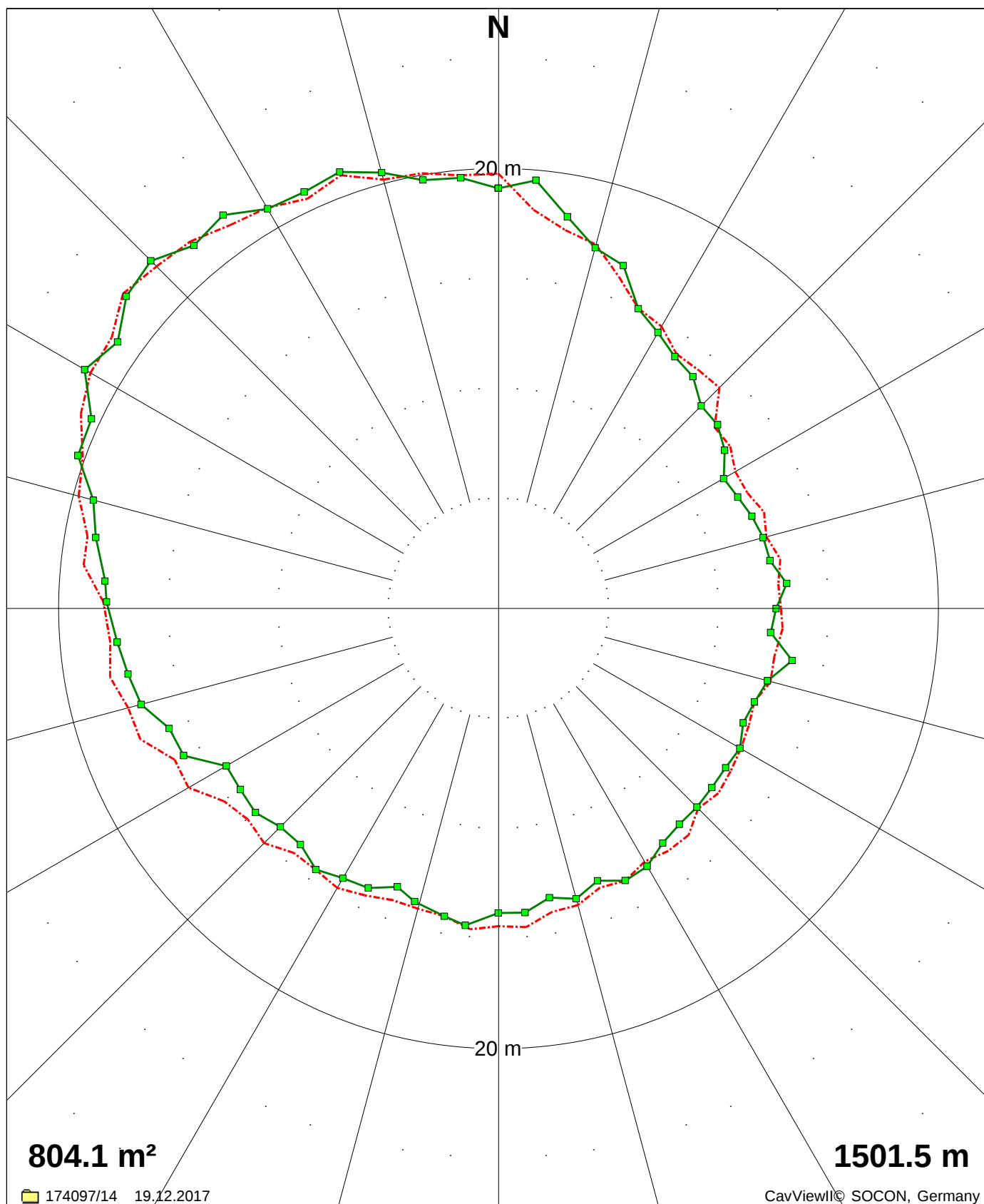
--- (19.05.2014) (1045.6 m²)

—■— (19.12.2017) (1020.4 m²)

$d_{\max}$: 39.1 m 155° <--> 335° $r_{\min}$: 14.0 m -> 69° $r_{\sim}$: 18.0 m $r_{\max}$: 24.1 m -> 320°

Heiligerlee K

19.12.2017



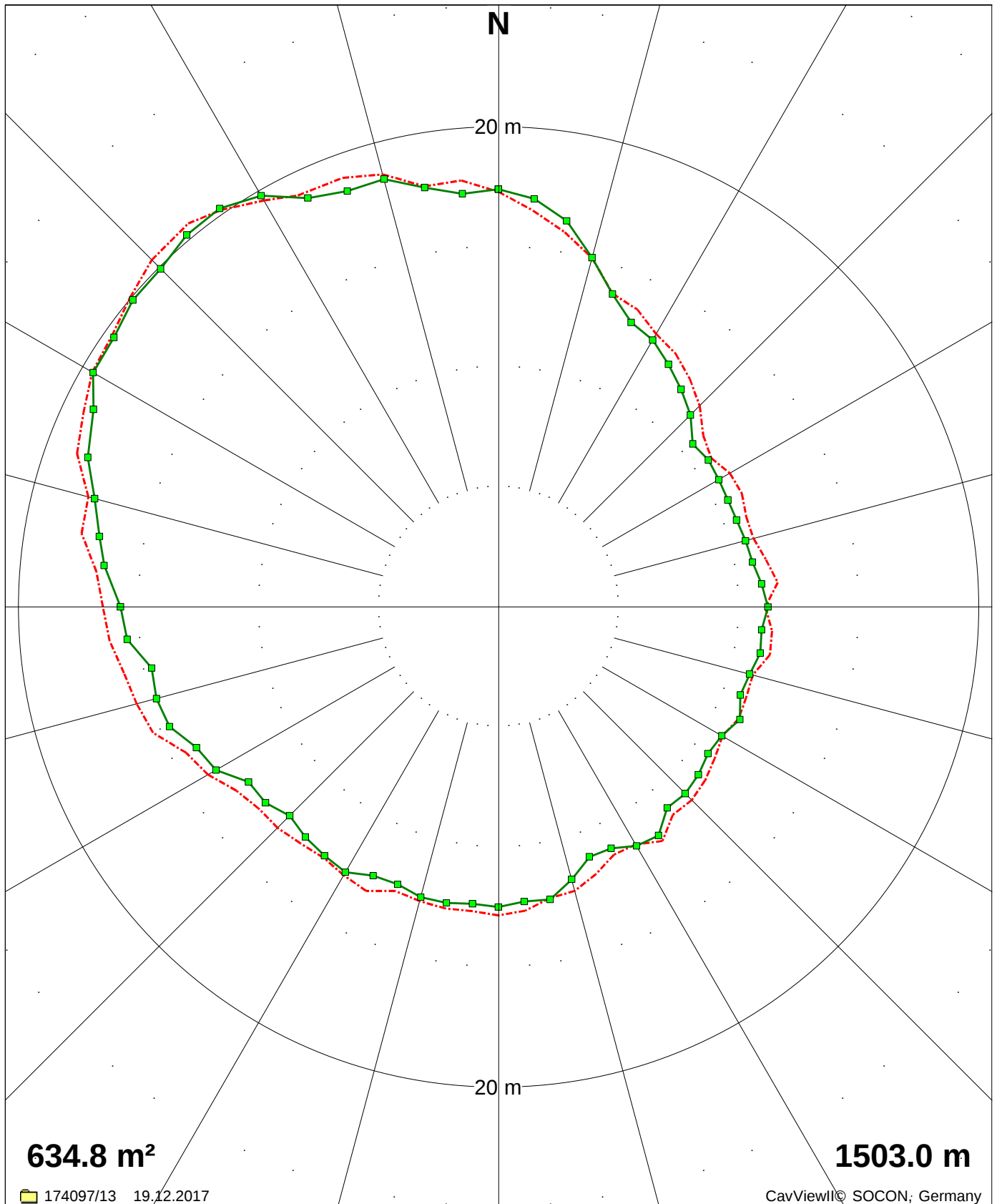
--- (19.05.2014) (827.9 m²)

—■— (19.12.2017) (804.1 m²)

$d_{\max}$: 35.1 m 135° <--> 315° $r_{\min}$: 11.8 m -> 60° $r_{\sim}$: 16.0 m $r_{\max}$: 22.4 m -> 315°

Heiligerlee K

19.12.2017



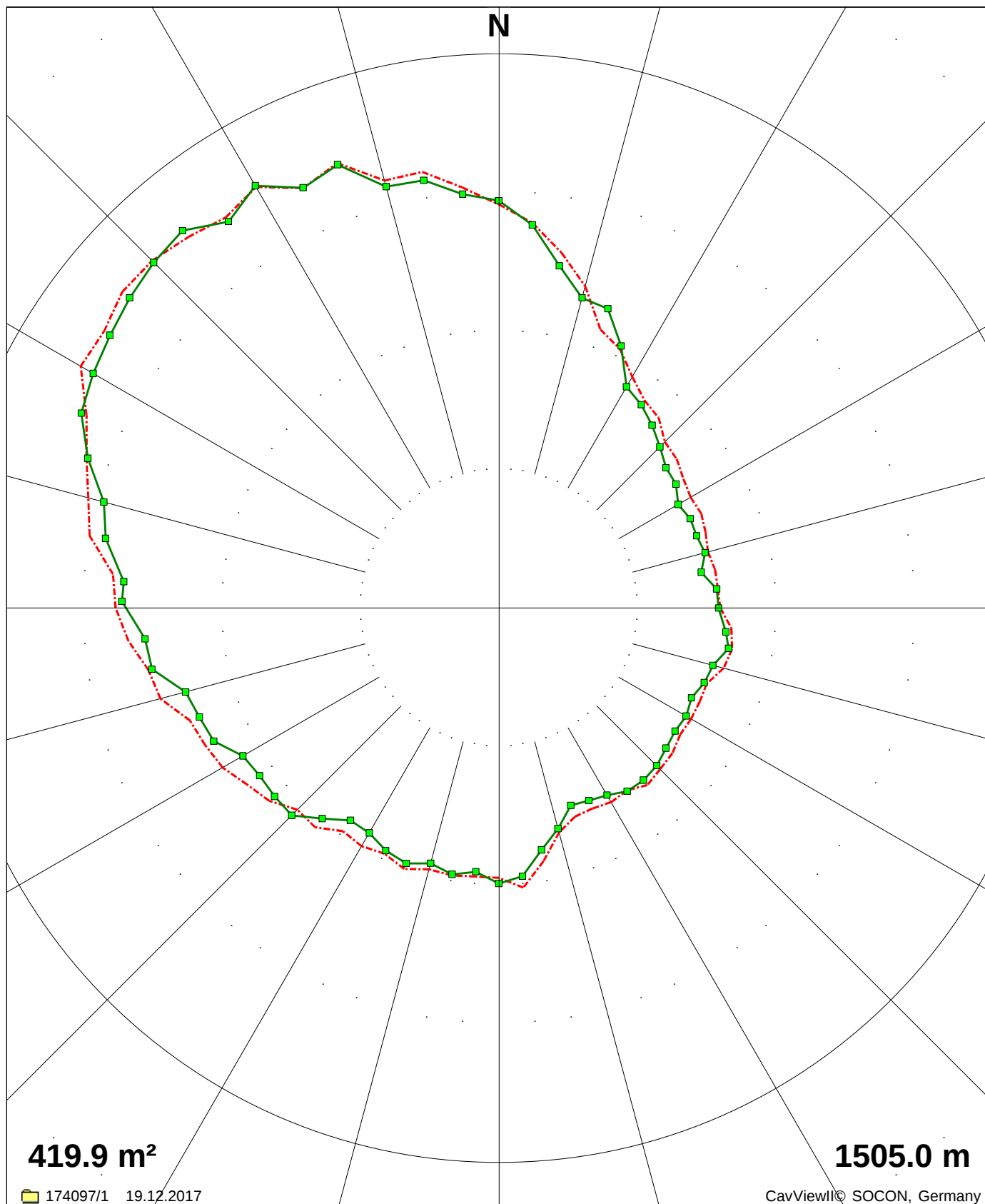
--- (19.05.2014) (663.8 m²)

—■— (19.12.2017) (634.8 m²)

$d_{\max}$: 31.9 m 145° <--> 325° $r_{\min}$: 10.5 m -> 65° $r_{\sim}$: 14.2 m $r_{\max}$: 20.3 m -> 325°

Heiligerlee K

19.12.2017



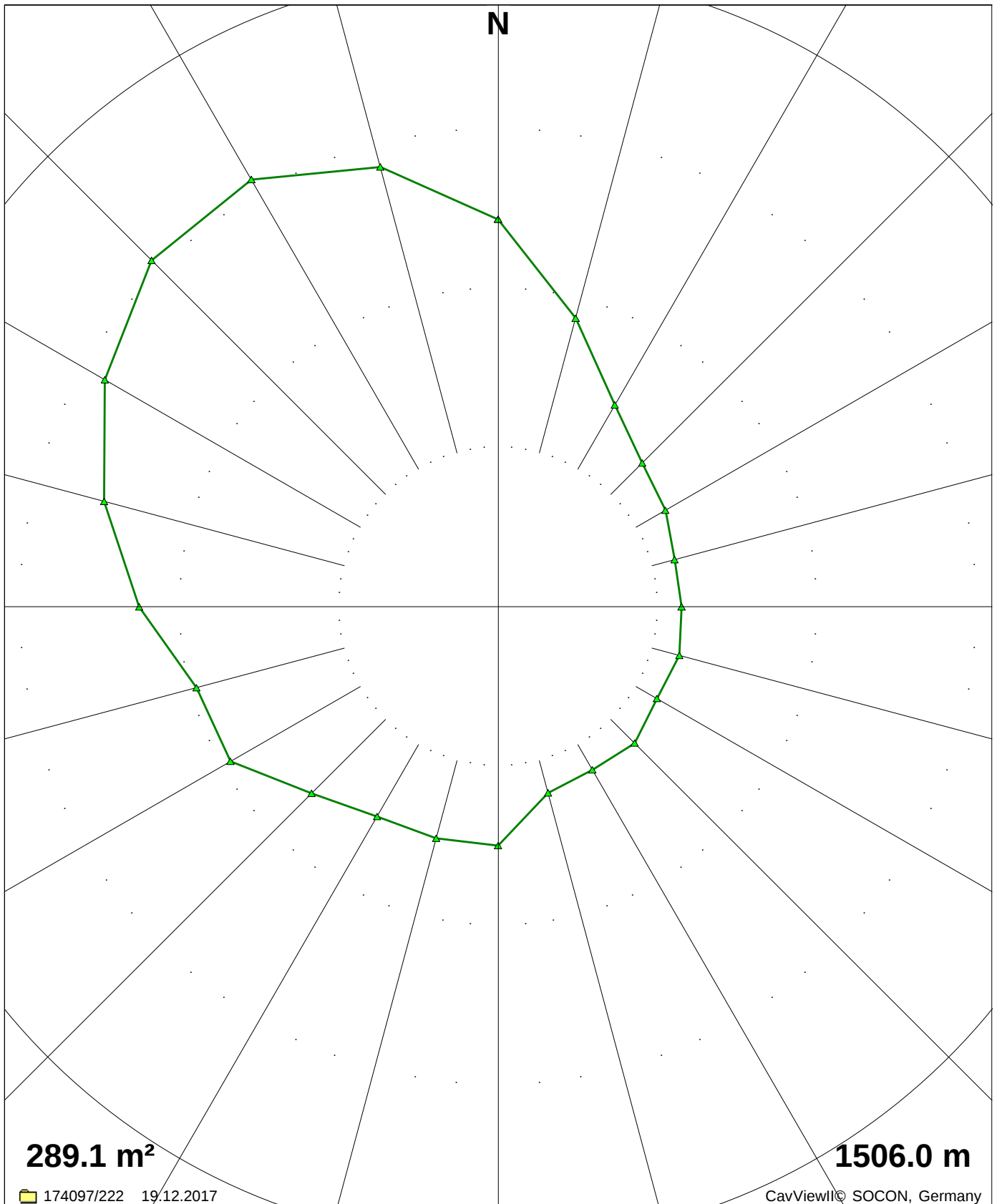
--- (19.05.2014) (436.3 m²)

—■— (19.12.2017) (419.9 m²)

d_{max}: 25.9 m 140° <--> 320° r_{min}: 7.4 m -> 80° r~: 11.6 m r_{max}: 17.8 m -> 320°

Heiligerlee K

19.12.2017



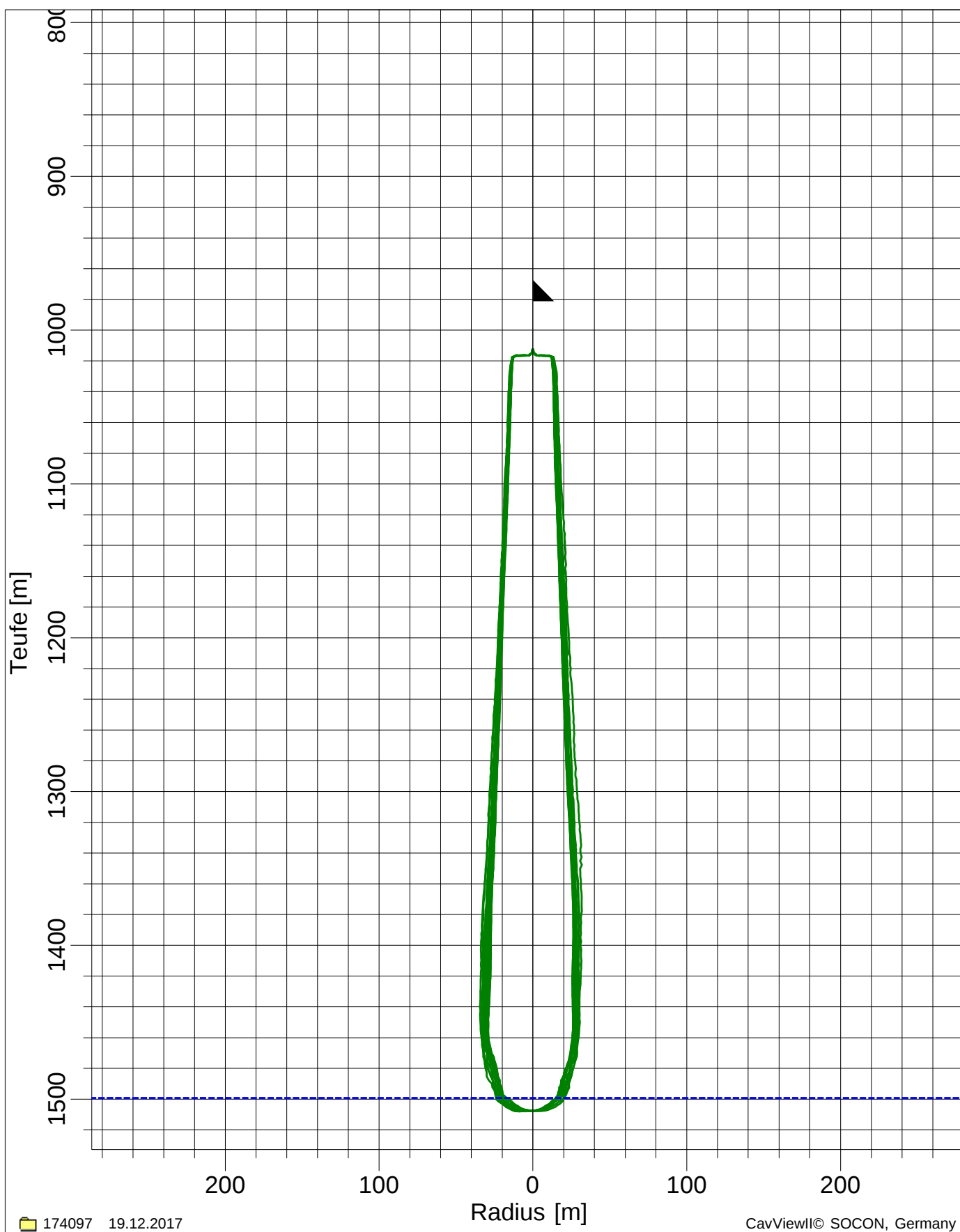
—▲— (19.12.2017) (289.1 m²)

d_{max}: 21.4 m 135° <--> 315° r_{min}: 5.7 m -> 80° r~: 9.6 m r_{max}: 15.5 m -> 330°

Heiligerlee K

MAXPLOT

19.12.2017



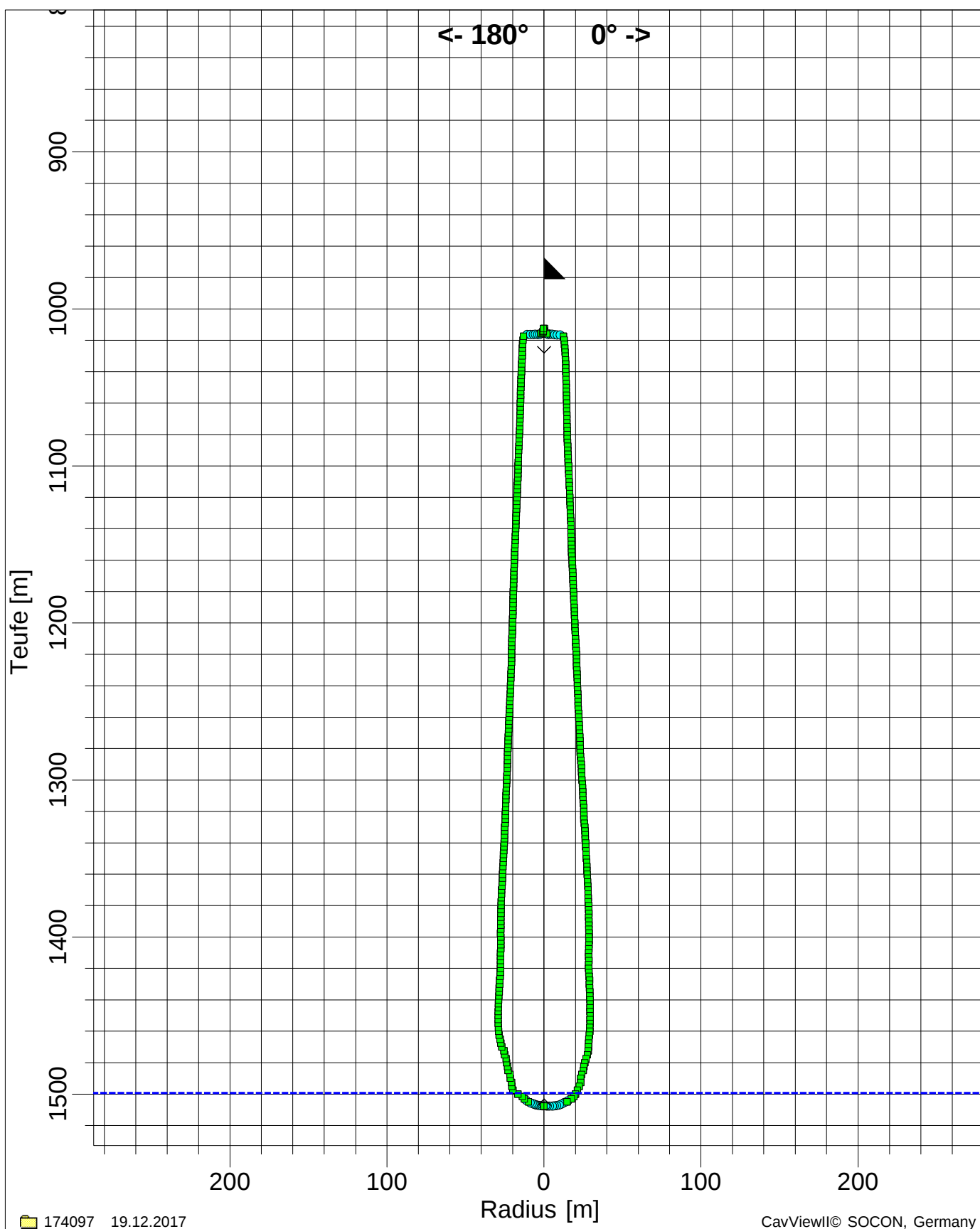
103/4" : 981.0 m



Spiegel 1499.3 m

Heiligerlee K

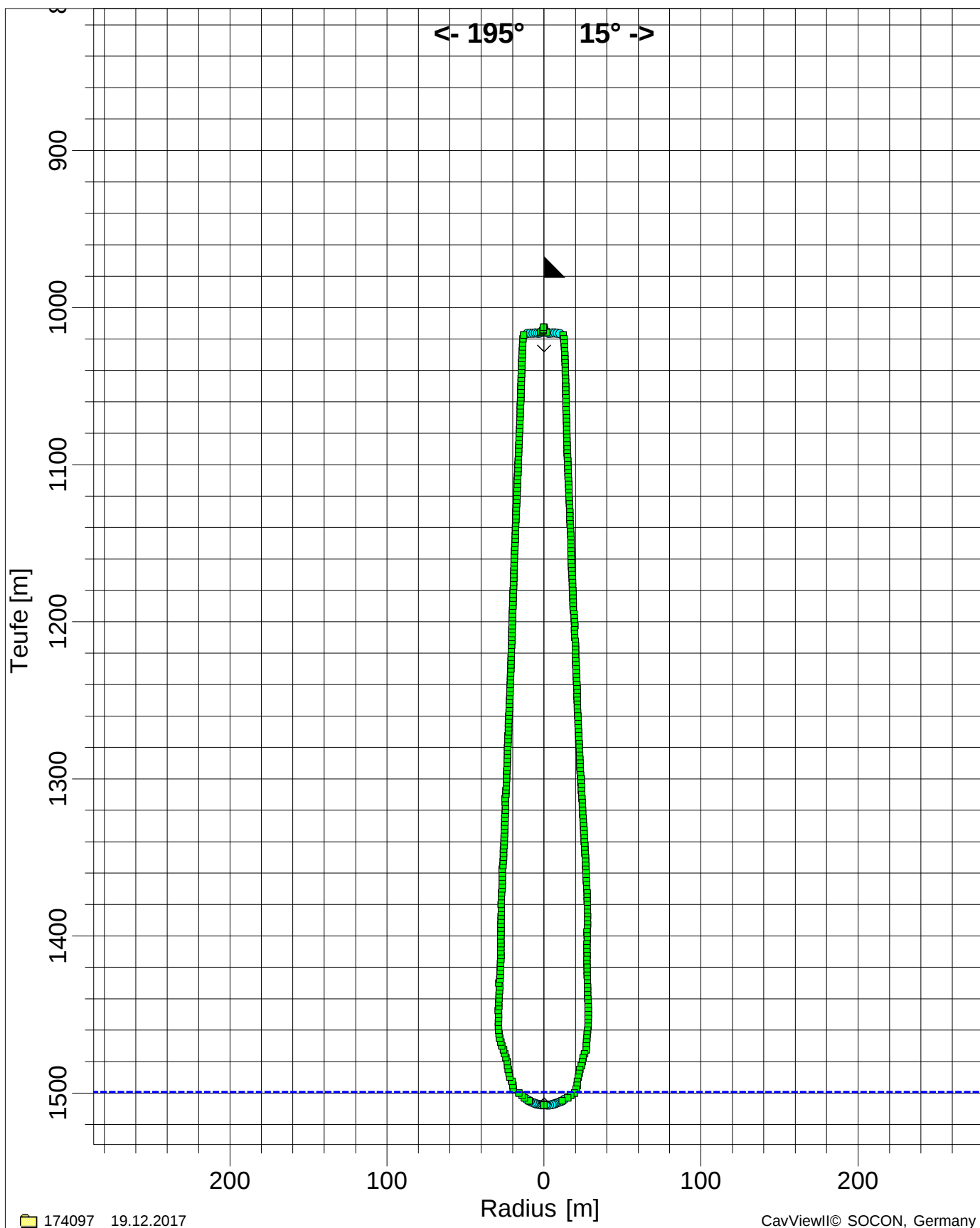
19.12.2017



--- (19.05.2014)	—■— (19.12.2017)	▲ 103/4" : 981.0 m
--- Spiegel 1499.3 m	∨ ^ Kipp-Position	

Heiligerlee K

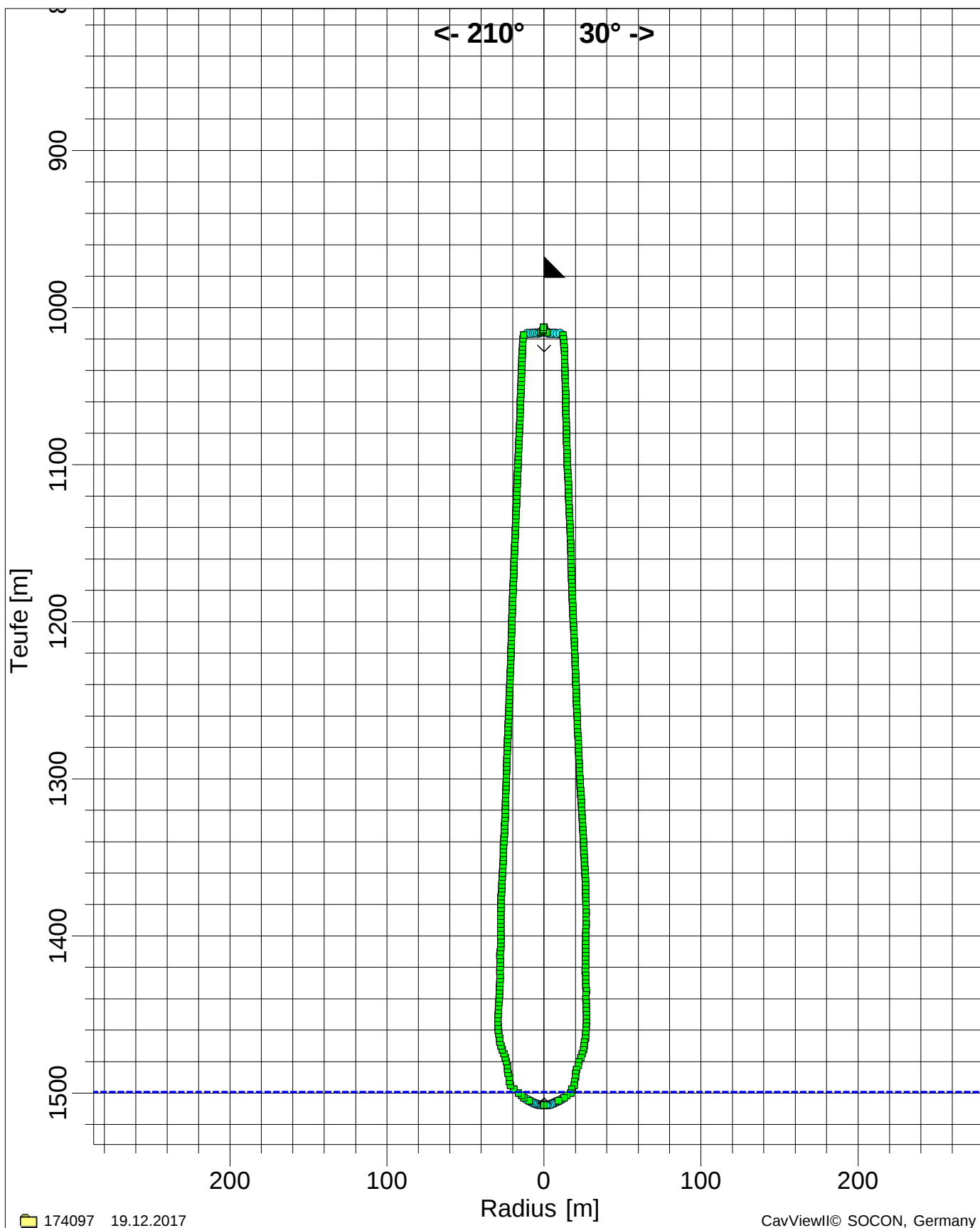
19.12.2017



--- (19.05.2014)	—■— (19.12.2017)	▲ 103/4" : 981.0 m
--- Spiegel 1499.3 m	∨ ^ Kipp-Position	

Heiligerlee K

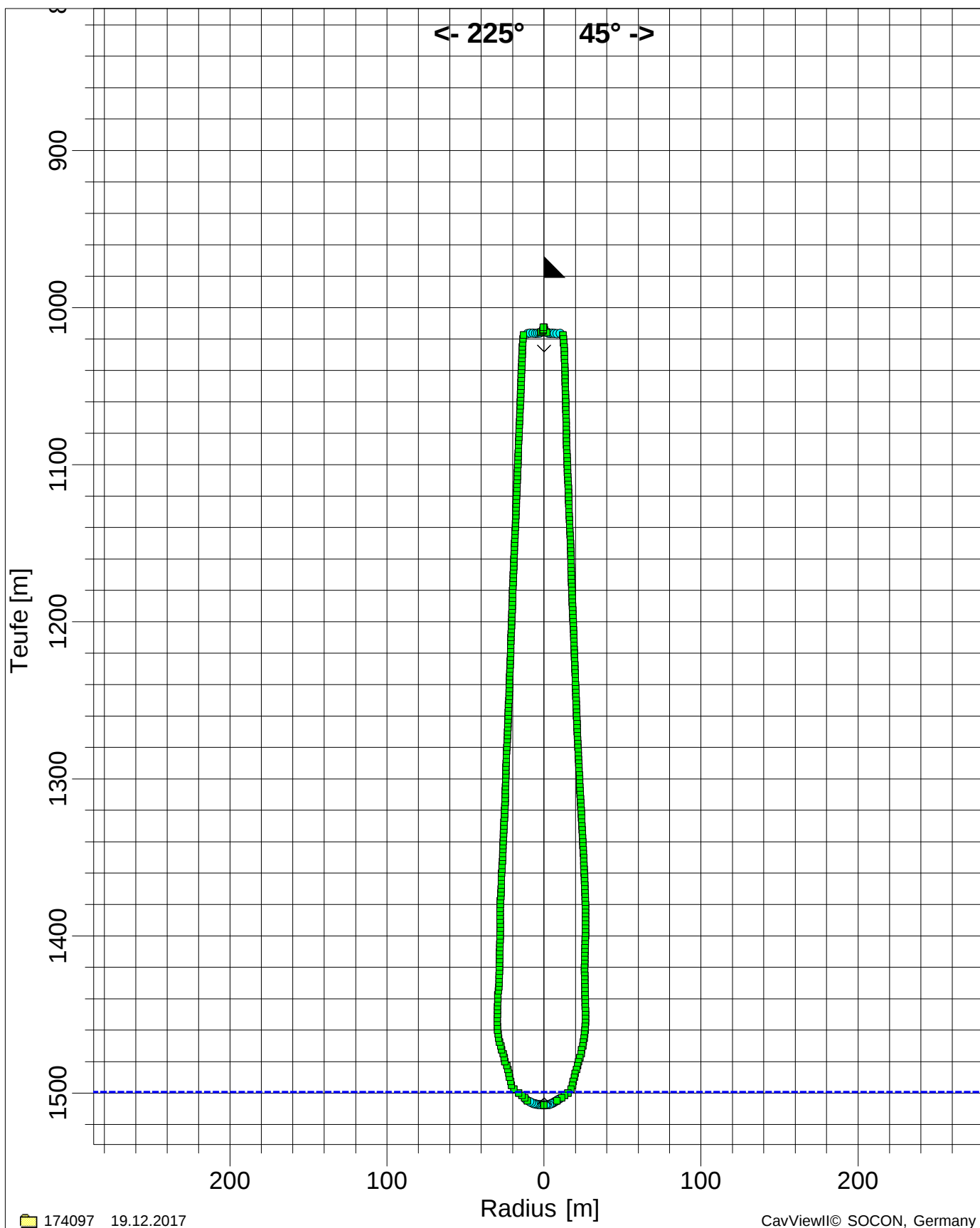
19.12.2017



--- (19.05.2014)	—■— (19.12.2017)	▲ 103/4" : 981.0 m
--- Spiegel 1499.3 m	∨ ^ Kipp-Position	

Heiligerlee K

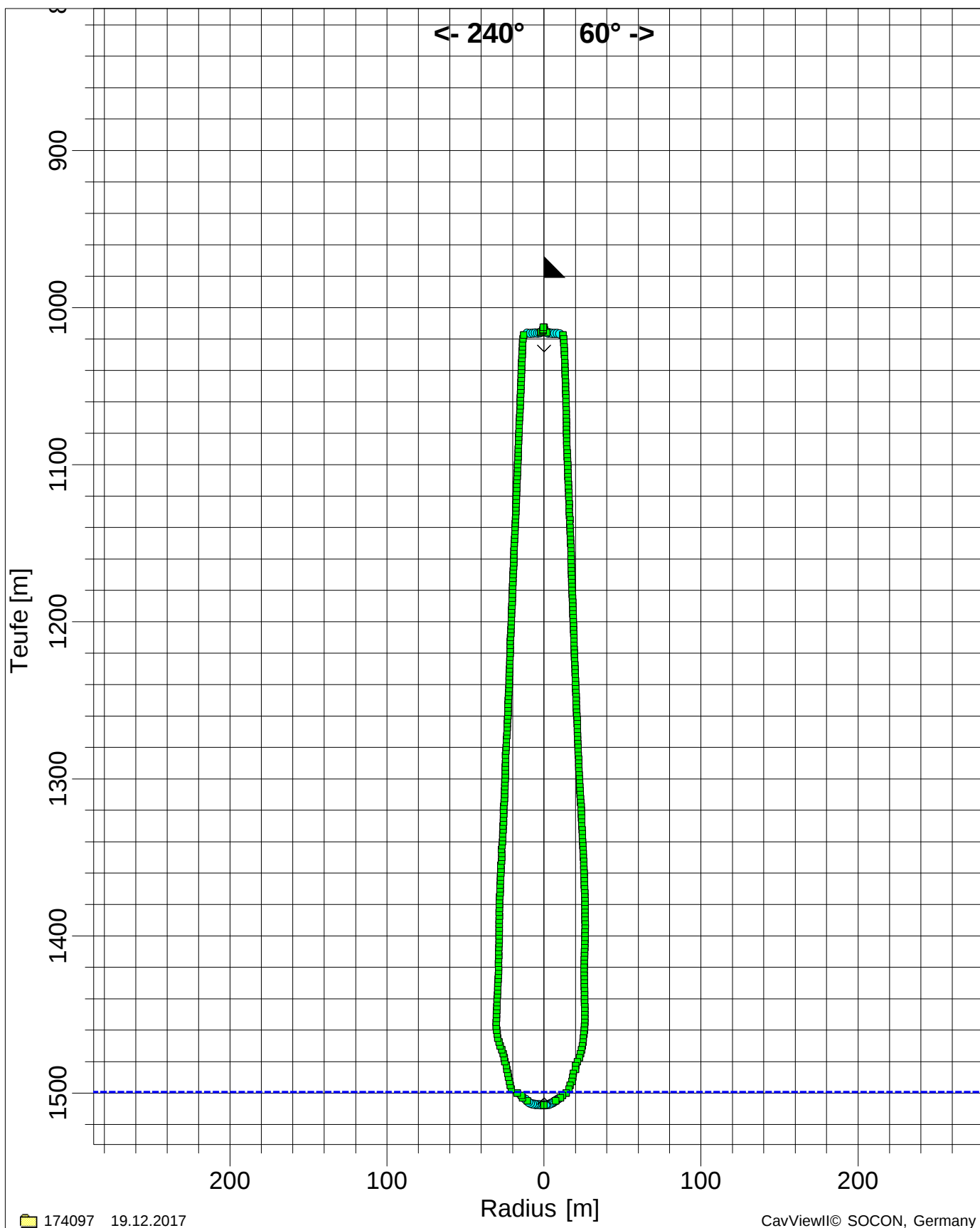
19.12.2017



--- (19.05.2014)	—■— (19.12.2017)	▲ 103/4" : 981.0 m
--- Spiegel 1499.3 m	∨ ^ Kipp-Position	

Heiligerlee K

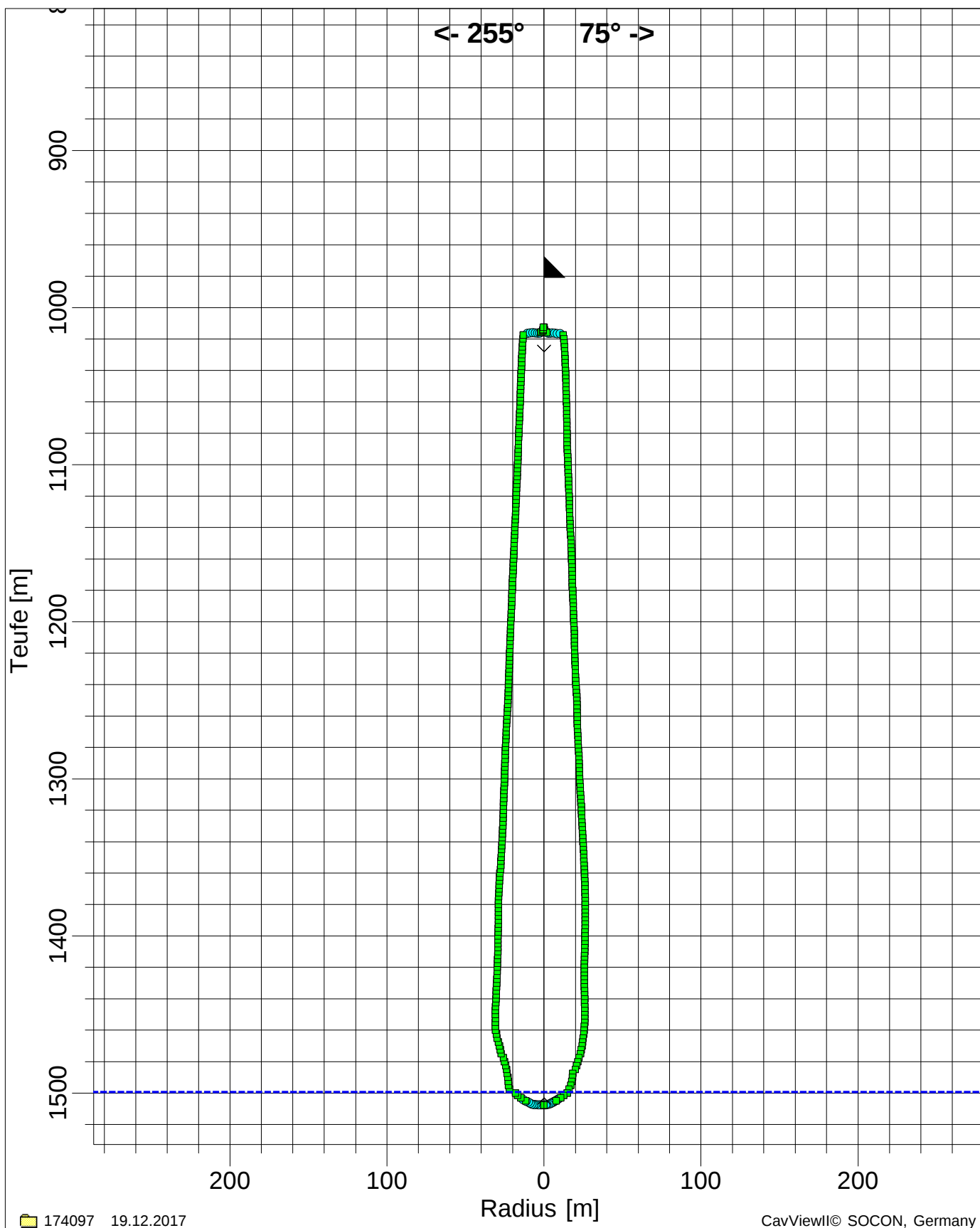
19.12.2017



--- (19.05.2014)	—■— (19.12.2017)	▲ 103/4" : 981.0 m
--- Spiegel 1499.3 m	∨ ^ Kipp-Position	

Heiligerlee K

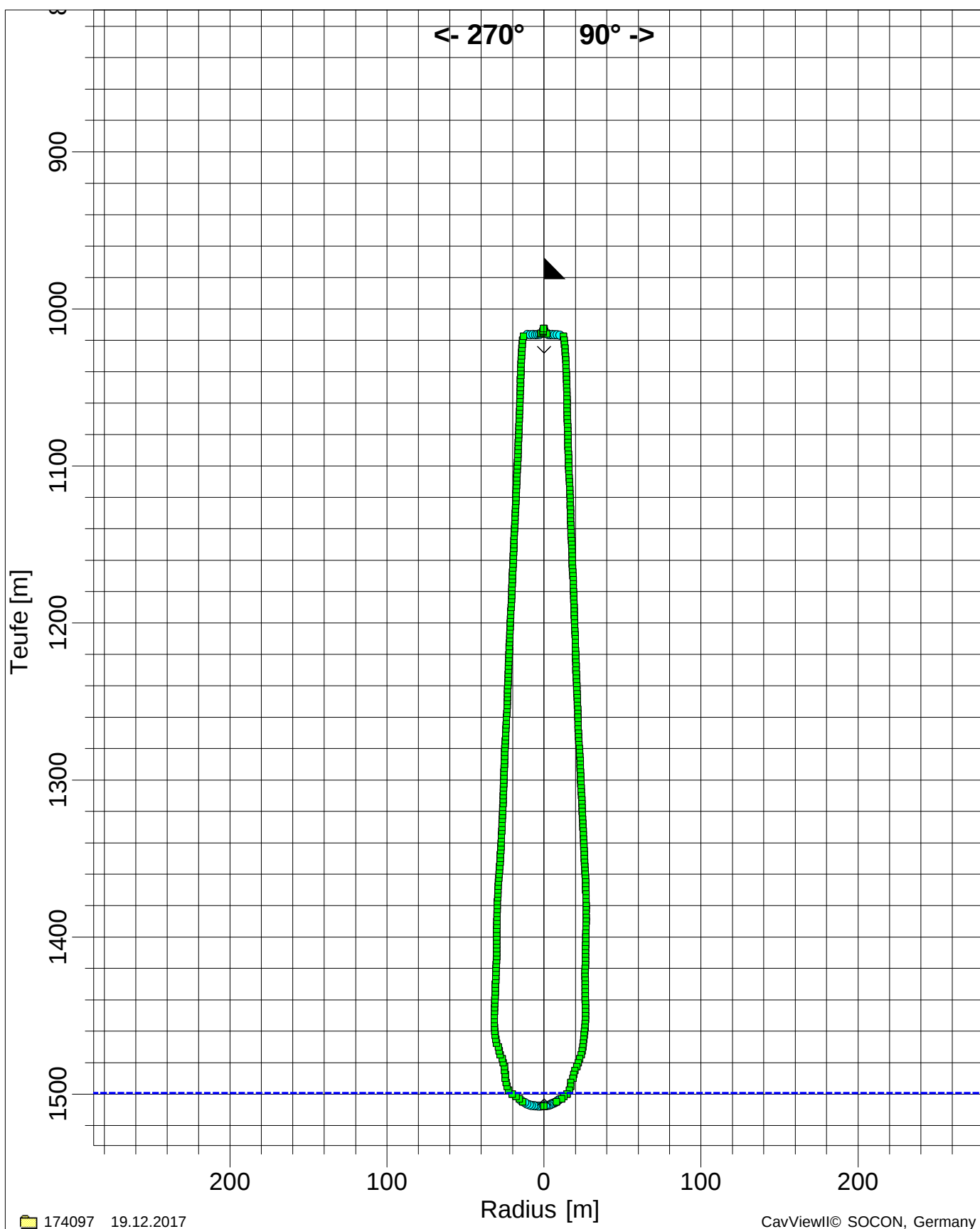
19.12.2017



--- (19.05.2014)	—■— (19.12.2017)	▲ 103/4" : 981.0 m
--- Spiegel 1499.3 m	∨ ^ Kipp-Position	

Heiligerlee K

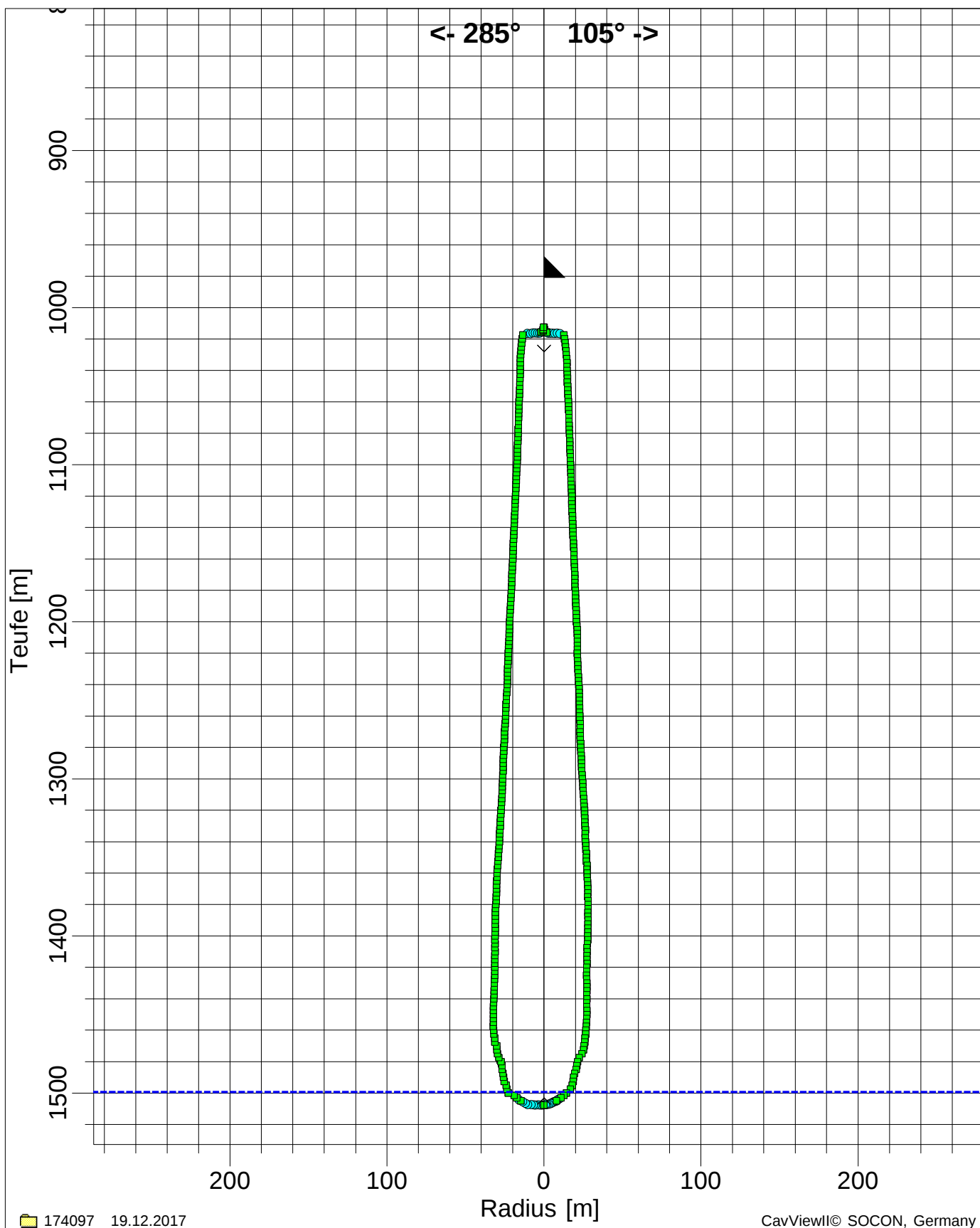
19.12.2017



--- (19.05.2014)	—■— (19.12.2017)	▲ 103/4" : 981.0 m
--- Spiegel 1499.3 m	∨ ^ Kipp-Position	

Heiligerlee K

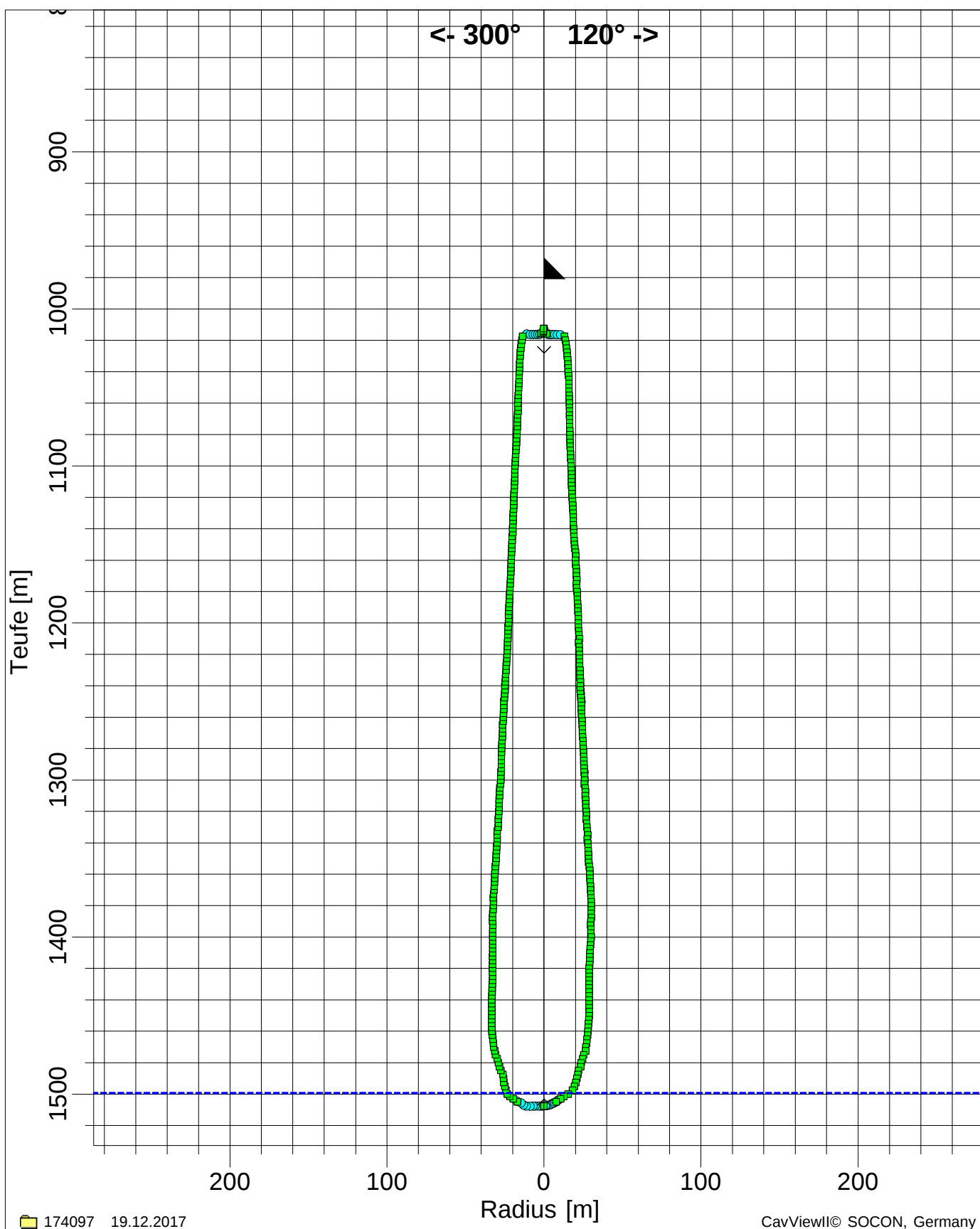
19.12.2017



--- (19.05.2014)	—■— (19.12.2017)	▲ 103/4" : 981.0 m
--- Spiegel 1499.3 m	∨ ^ Kipp-Position	

Heiligerlee K

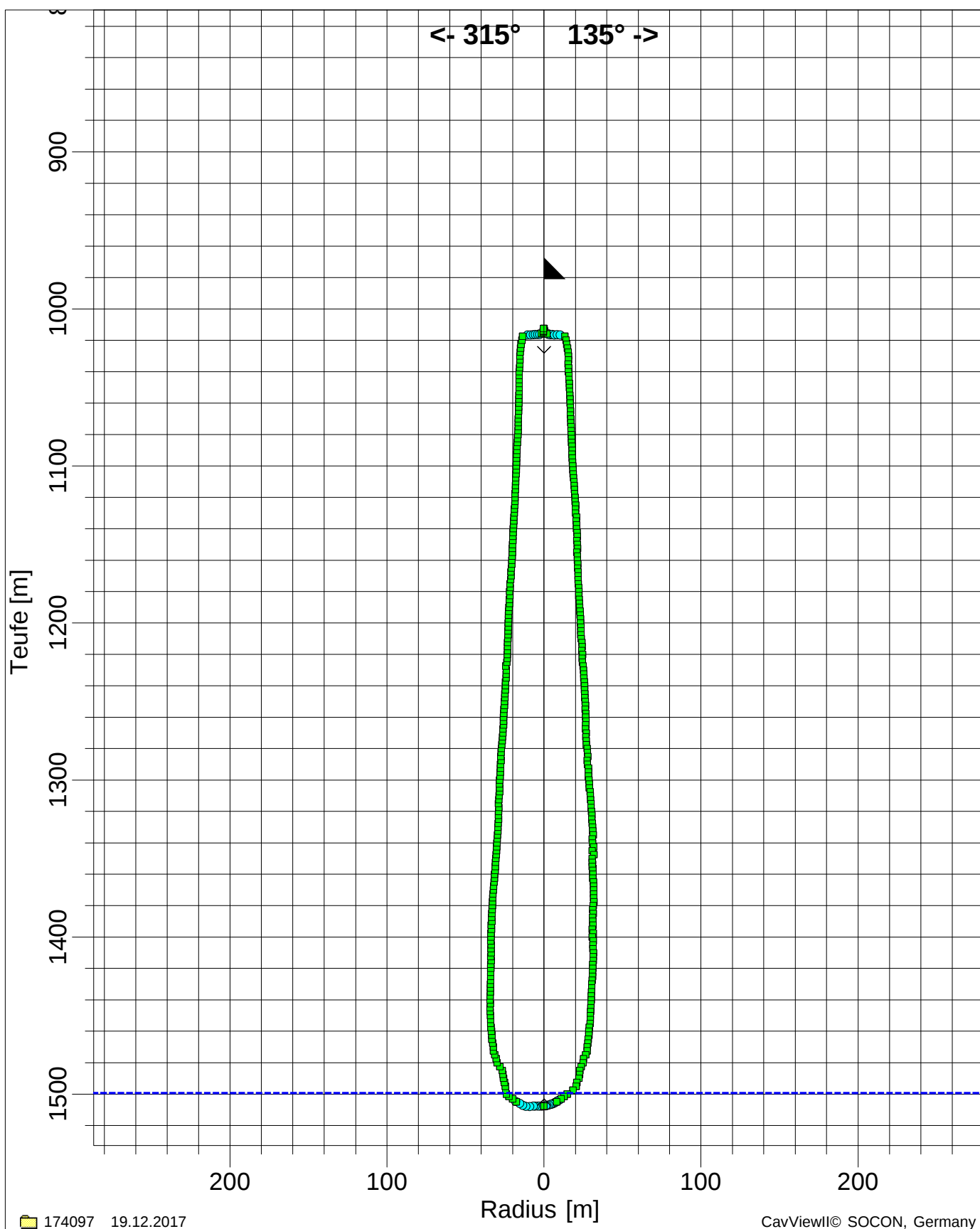
19.12.2017



--- (19.05.2014)	—■— (19.12.2017)	▲ 103/4" : 981.0 m
--- Spiegel 1499.3 m	∨ ^ Kipp-Position	

Heiligerlee K

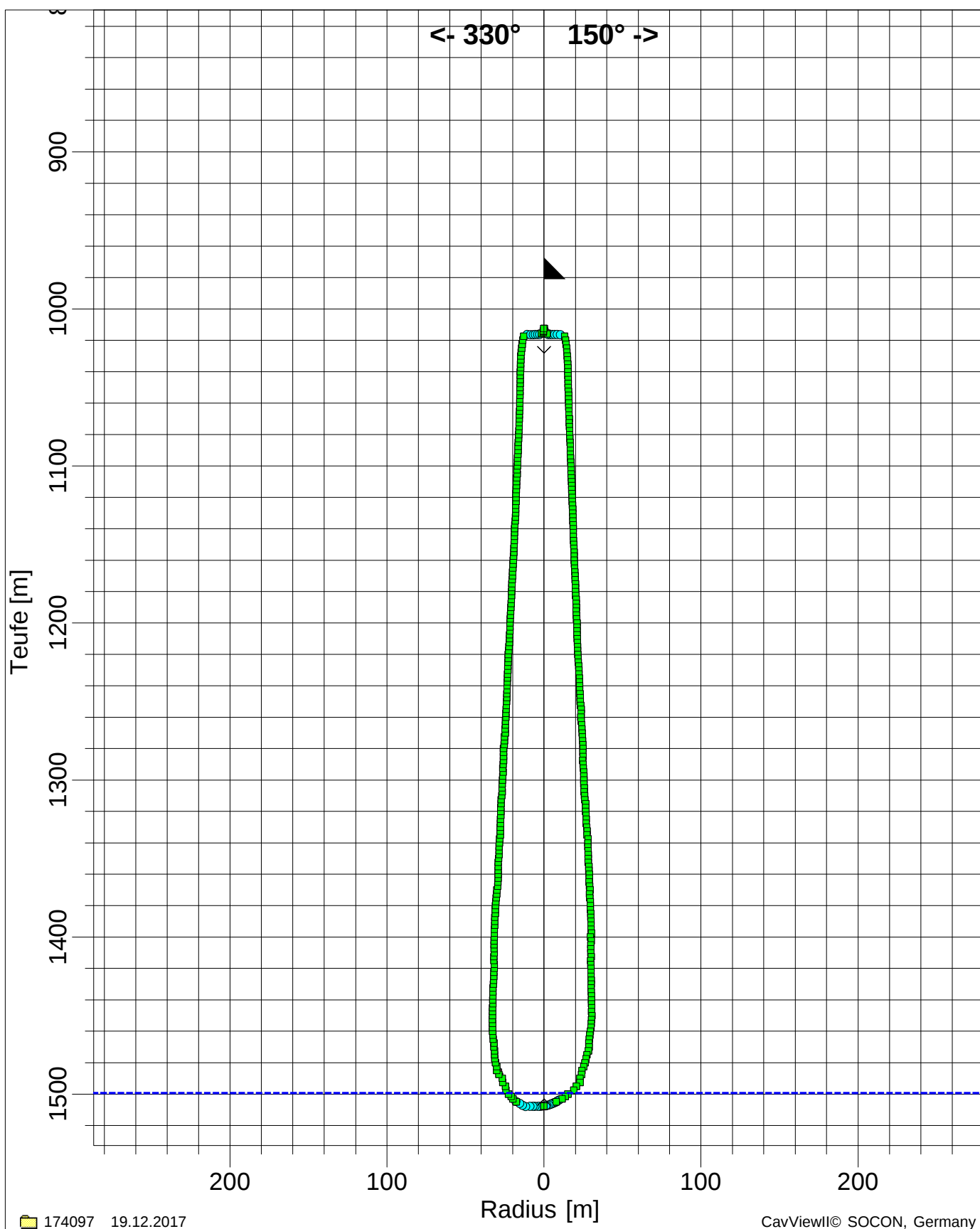
19.12.2017



--- (19.05.2014)	— (19.12.2017)	▲ 103/4" : 981.0 m
--- Spiegel 1499.3 m	∨ ^ Kipp-Position	

Heiligerlee K

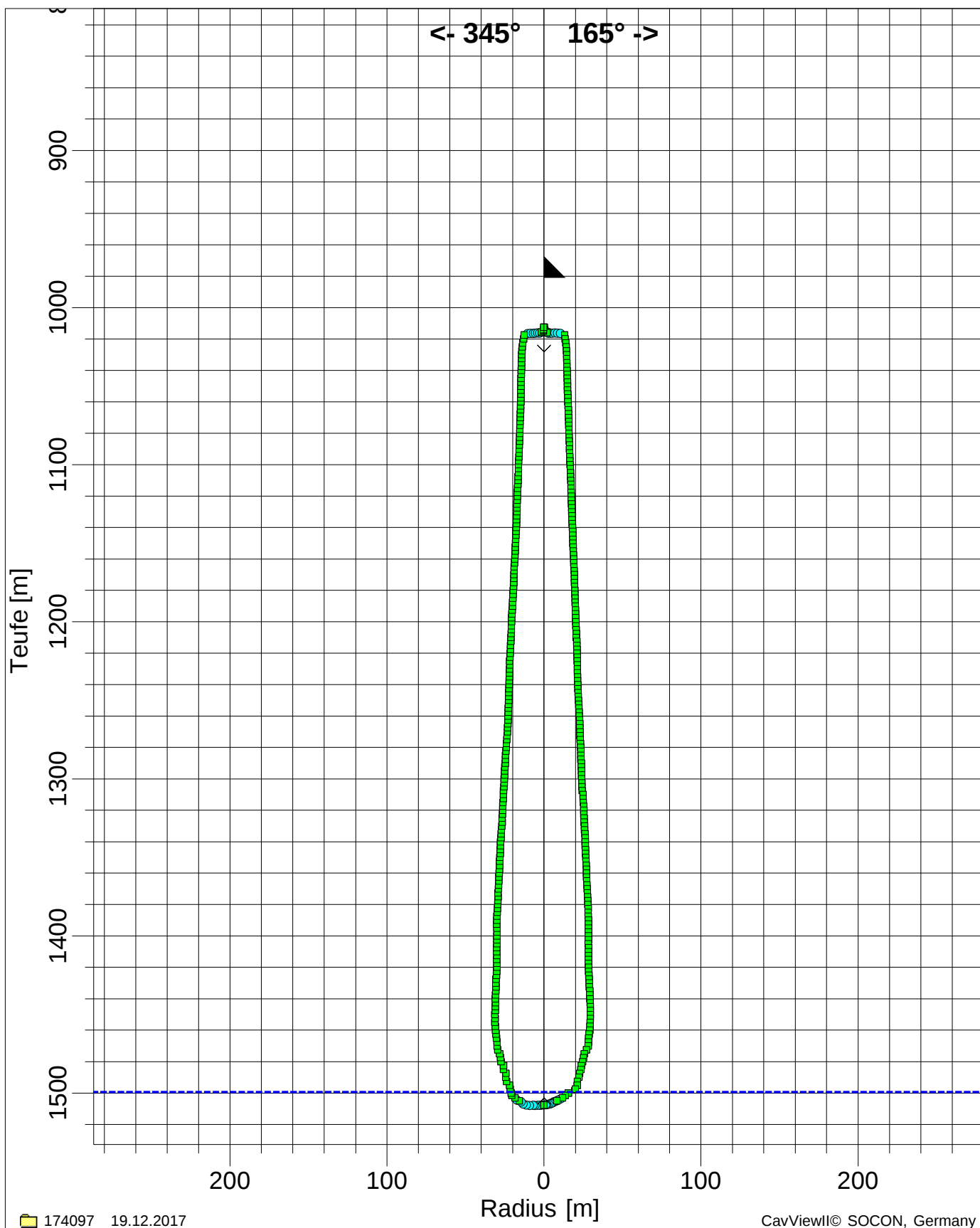
19.12.2017



--- (19.05.2014)	—■— (19.12.2017)	▲ 103/4" : 981.0 m
--- Spiegel 1499.3 m	∨ ^ Kipp-Position	

Heiligerlee K

19.12.2017



--- (19.05.2014)	—■— (19.12.2017)	▲ 103/4" : 981.0 m
--- Spiegel 1499.3 m	∨ ^ Kipp-Position	

Heiligerlee K

19.12.2017

RS 10 3/4 " @ 981.0 m MD

