Analysis of Levelling Survey September 2006 v3

Prepared by: BECi, General Project Management and Sub Surface Design

Reviewed: R. te Gussinklo Ohmann, Mining Superintendent

Approved: L. Mulder, Technical Director FRISIA
D. van Tuinen, Financial Director

Publication date: 13 May 2007

1. Abstract

The subsidence effects of the FRISIA salt mining operation are primarily measured by levelling. Towards the south there are the subsidence effects of the gas extraction of TOTAL/Vermilion. Along the coastline however the subsidence of gas extraction or other sources can be largely neglected (Oranjewoud, 2002). The measured subsidence can hence be correlated to salt extraction.

A base level survey was carried out in September 1995 and 11 surveys (nearly yearly) were carried out to measure the subsidence effects, the last one in September 2006. In the period 1999 to 2006, a limited number of survey points were used to monitor the subsidence caused by salt mining.

In the analysis of the levelling data of September 2006, it became clear that the behaviour of individual PM's used to describe the development of the subsidence bowls became a significant factor in the accuracy level of describing the subsidence effects due to salt mining, while there was an increased need to describe the effects due to salt mining more accurately in view of the encroaching influence of subsidence due to gas production.

Hence an evaluation was made of all available survey data, resulting in the possibility to evaluate the behaviour of individual survey points and upgrade the data set for anomalous behaviour of individual survey points. Using many more data points than before and applying an iterative procedure, a more accurate description of the subsidence effects caused by salt mining was obtained.

The results differ at the deepest point ca 7 mm (less subsidence) or ca 2% of the results obtained with the 'old method' coupled to a significantly better description of the shape factors of the subsidence bowls created by salt mining. The GPS data were upgraded in line with the results of the latest results.

Contents

2. Introduction

2.1. Levelling and GPS

The reduction of volume in the salt interval causes a bowl shaped depression that can be described by a Gaussian curve (Bell shaped in a cross section). This is consistent with commonly accepted theories that a localised reduction of rock volume in the deep underground creates such a Gaussian bowl shaped depression at the surface. This theory is also supported by finite element modelling, taking account of realistic parameters for the formations above the caverns.

In the large mass of subsidence data, over a period of 12 years, it was becoming evident that some of the bench marks (PM = Peil Merk) showed a major deviation of the best-fit bowl shape. Also the subsidence effects of mining BAS 3 were becoming significant and an accurate description of the development of the bowl was required to determine the overlap between the two depressions. There was also concern about possible influences of the gas extraction on the South side of the area influenced by salt mining. Hence an extensive re-evaluation was made in the manner described in the next chapters.

Since April 2004, subsidence at the Sexbierum production location (wellheads BAS-1, -2, -3) is measured with GPS with respect to a reference point outside of the salt (or gas) subsidence influence zone. Although the day-to-day and week-to-week data show a high scatter in results, the 8 weeks and quarterly trends (average best fit) indicate a surface subsidence that directly relates to cavern convergence (modelled and/or measured).

2.2. Subsidence fitting

The prediction model for the subsidence caused by a single cavern is:

$$w(x,y) = w_{\max} \exp(-\gamma r^{\delta}) = \chi V_{con} \exp(-\gamma r^{\delta})$$

Where w_{max} or z max is the maximum depression in the centre of the bowl, γ or gamma a dimensionless parameter describing the width of the bowl and δ or delta a dimensionless parameter describing the shape of the bowl, '*r*' the horizontal distance from the cavern axis and V_{con} the field-determined convergence volume.

The first part of the above expression allows matching of the subsidence bowl with survey data only. The optimum fit of the modelled bowl to the measured data can be established by determining the minimum Root Mean Square (RMS) of the differences between the individual PM's and the modelled bowl, by varying the three bowl parameters in iteration. In this way the centre of the bowl can also be 'tuned'.

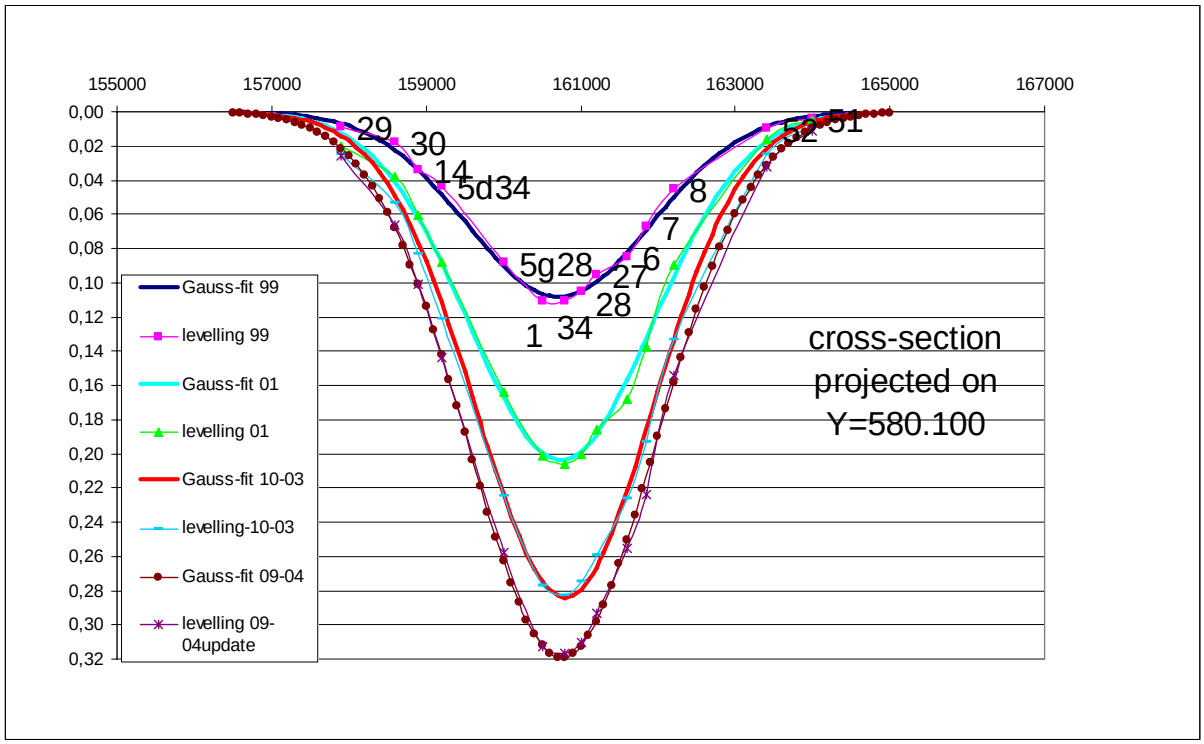
In the second part of the expression, χ (m^{-2}) or dz/dV allows comparison of the convergence volume in the cavern interval with the subsidence observed at surface. The convergence volume is estimated from the dissolved volume from extraction records minus SONAR-determined or estimated brine-filled open cavern volume minus an assumption for invisible brine volumes in the sump and wall. When no SONAR data are available, the convergence volume is determined by modelling.

3. Analysis procedure 1999 to 2005

Prior to the extensive analysis of the levelling survey September 2006, the development of the BAS 12 bowl was monitored with the aid of a limited number of bench marks (Peilmerken, PM), being PM's 29, 30, 14, 5d34, 5g28, 1, 34, 28, 27, 6, 7, 8, 52 and 51. i.e. 14 'monitoring' PM's in total. The distance of each PM to the theoretical centre of the BAS 12 bowl and the subsidence at the PM was used to evaluate the bowl shape.

The underlying assumption in this procedure was that the subsidence bowl has a circle symmetric shape. The good fit of PM's to the bowl contours that were based on this procedure is considered proof that the assumption of circle symmetry was generally satisfactory.

This set of PM's and the corresponding projection method were agreed with SodM and were used in the period 1999 to 2004 to monitor the development of the BAS 12 bowl. The resulting bowl shape development is summarised in the figure below:



In the evaluation of the 2005 survey, with the onset of the development of the BAS 3 subsidence bowl a slightly different set of PM's were selected, being PM's 29, 5d015, 15, 33, 3, 27, 8, 5g187, 53, 5g160, 5g263, in total 11 PM's.

The analysis on the basis of a limited number of PM's was, with the consent of SodM, considered acceptable and sufficiently accurate for the description of the subsidence effects due to salt mining until 2006.

4. Analysis procedure for the September 2006 survey

In the analysis of the levelling data of September 2006, it became clear that the behaviour of individual PM's used to describe the development of the subsidence bowls became a significant factor in the accuracy of describing the subsidence effects due to salt mining, while there was an increased need to describe the effects due to salt mining more accurately in view of the encroaching influence of subsidence due to gas production. In this context, it should be noted that the behaviour of individual PM's, due to e.g. autonomous effects as localised natural compaction or PM instability, accumulates over time, resulting in the situation that the original limited set of PM's used to describe the bowl development in the beginning were probably accurate enough and that the accuracy decreased over time.

The area influenced by salt mining has been described by a base reference survey made in 1995 before the salt mining operations started. The area was surveyed 11 times since 1995, which resulted in 11 data sets to evaluate the development of the subsidence due to salt mining. Under the guidance of SodM a full analysis of all available levelling data September 1997 – September 2006 was performed taking the maximum useable number of PM's into account for the description of the BAS 12 and BAS 3 bowls, rather than the limited number of 'monitoring' PM's used in the past, with the objective to improve the accuracy of the description of subsidence bowls. By using more data points the accuracy of the bowl description improves due to statistical averaging.

From a total of 239 PM's, 64 points were identified in a SW – NE trending area to describe the bowl development of the combined depression of BAS 1 and 2 (named B12). These PM's were unlikely influenced by BAS 3 or subsidence due to gas production. The 64 points were used to fit a Gaussian bowl for the Sept 2006 survey by tuning the RMS (Root Mean Square) of the difference between the modelled and measured values of these 64 PM's to the minimum value by varying the bowl shape parameters. The centre of the bowl was optimally tuned to the data of the 2006 survey and by iteration the best fit was obtained.

This procedure was repeated for all the 11 surveys (keeping the 2006 bowl centre unchanged), which provided best-fit bowl shapes for each of the 11 surveys. It then became possible to evaluate the 'residual value' (in NL: Restsignaal) for each PM, being the PM elevation difference since the 1995 reference survey, corrected for the best-fit modelled subsidence due to salt mining at that specific PM. This residual value could then be evaluated over 11 surveys allowing an analysis of the behaviour of each PM over time, relative to the best-fit modelled bowls.

A small number of PM's differed more from the modelled values than the maximum deviation one can expect for survey points belonging with 90% certainty to a cluster of PM's with stochastically varying measurement inaccuracies. For the typical measurement accuracy established for the FRISIA surveys, PM's differing by more than 13 mm from the model were regarded as suspect, based on the publication 'Bodemdaling meten in Nederland' issued by the 'Nederlandse Commissie voor de Geodesie', pp 17. On this basis, several PM's had to be rejected. Further to this several PM's with a consistent trend moving significantly away from the modelled values over time were excluded. This process resulted in a total number of 59 'useable' PM's with a reasonable distribution across the entire bowl shape to describe the B12 bowl.

The B12 modelled values were then subtracted from all 239 PM values (including the ones previously rejected), leaving a residual signal that included the effect of the BAS 3 depression and other effects. Following a similar process, the BAS 3 (B3) 'best fit' Gaussian

bowls (first significant effects measurable in 2005) were then determined on the basis of 61 PM's.

The 59 B12 and 61 B3 PM's were subsequently merged into one file (several PM's were in the B12 group as well as in the B3 group) and the resulting residual signal file was again tuned to the minimum RMS value by tuning the bowl parameters of the B12 and B 3 bowls and the tuning the position of the bowl centres (the latter for 2006 data only).

At this stage a full analysis of the behaviour of each PM could be made leading to the following observations:

- PM 54 showed since 2001 a consistent jump of -15 mm.
- 8 PM's showed over the period 1995 to 2006 an autonomous subsidence of 5D057 (-5 mm), 29 (-9 mm), 5D074(-10 mm), 5D015 (-5 mm), 1 (-5 mm), 71 (-5 mm), 72 (-5 mm), and 5G160 (-9 mm).
- 3 PM showed over the period 1995 and 2006 an autonomous elevation of 5D056 (+5 mm), 5D053 (+5 mm) and 56 (+8 mm).
- The PM's near the villages Wijnaldum, Pietersburum and Sexbierum were very stable and near at Wijnaldum ca +4 mm, Pieterburum and Sexbierum +7 mm and Barradeel –3 mm.
- PM's 71 and 72, near the centre of the BAS 3 bowl show a stronger subsiding trend than surrounding PM's.

It was concluded that

- Autonomous movements (+ or -) of ca 5 mm over 11 years are quite normal, with 4 exceptions: PM's 29, 5D074, 5G160 (subsiding stronger) and 56 (elevating stronger) and that
- Several PM's near and at the BAS123 surface location were systematically lower than the best fit bowl shape over all the available surveys SE and NE from the location by 7mm, resp 10 mm.

The following PM corrections were made to the total data set, with the agreement of SodM:

- PM 54 was eliminated from the data set.
- PM's 29, 5D074, 5G160, 56, 71 and 72 were proportionally corrected over the years for the above-mentioned autonomous movements.
- PM's 1, 36 and 63 were corrected for all surveys 1997 to 2006 wit a fixed value of +7 mm, probably correcting original reference errors.

The fitting procedure was then repeated. Subsequently PM 5G221 could be re-introduced to the dataset resulting in a final dataset of 97 PM's and the final run, iteration v14 could be made.

In iteration v14 the bowl shape and centre data of the rest signal analysis were used to upgrade the development analysis of each of the B12 and B3 bowls. A full printout of interation v14, including the final residual signal behaviour can be found as Attachment 3.

This rigid procedure provided the best-fit bowl shapes, in terms of gamma, delta and z max for the 11 surveys. These bowls were then compared with the estimated convergence due to salt mining at the moments of the surveys. This then allowed the subsidence per unit volume of convergence (dz/dV) to be determined.

5. Results of the September 2006 Analysis

The resulting parameters of the available surveys and convergence estimates, based on v14 are as follows:

B 12 Bowl		Centre 2006 survey:		X=	160,774	Y=	580,040				
		Sep-97	*May-98*	*Jul-99*	*Sep-00*	*Sep-01*	*Sep-02*	*Feb-03*	*Sep-03*	*Sep-04*	*Sep-05*	*Sep-06*
Gamma		4.50E-07	4.24E-07	4.24E-07	4.24E-07	4.24E-07	4.28E-07	4.31E-07	4.25E-07	4.10E-07	4.08E-07	4.08E-07
Delta		1.983	1.970	1.972	1.978	1.972	1.970	1.970	1.971	1.969	1.967	1.965
z max	cm	2.4	4.5	10.6	15.9	19.9	23.4	25.7	27.6	31.1	31.9	32.4
Conv	m3			1,006,569	1,515,997	1,952,649	2,392,599	2,627,227	2,831,967	3,155,565	3,256,826	3,296,395
dz/dV	m/m3	0.00E+00	0.00E+00	1.06E-07	1.05E-07	1.02E-07	9.76E-08	9.76E-08	9.76E-08	9.87E-08	9.81E-08	9.83E-08

B 3 Bowl		Centre 2006 survey:		X=	163,068	Y=	581,210				
		Sep-97	*May-98*	*Jul-99*	*Sep-00*	*Sep-01*	*Sep-02*	*Feb-03*	*Sep-03*	*Sep-04*	*Sep-05*	*Sep-06*
Gamma											4.34E-07	4.15E-07
Delta											2.045	2.020
Zmax	cm										2.3	5.3
Conv	m3										206,946	454,256
dz/dV	m/m3										1.10E-07	1.176E-07

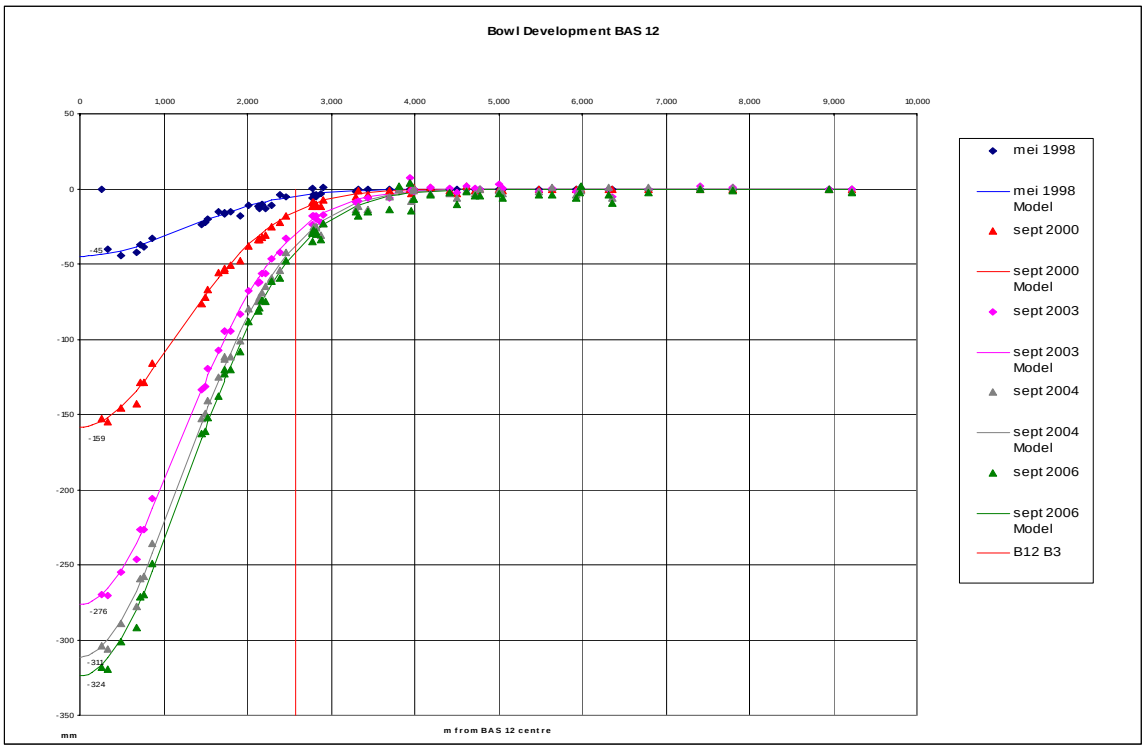
Tables: subsidence parameters BAS1-2, and BAS 3 from all available surveys

These results differ slightly from the earlier reported results, because the recent evaluation is based on many more PM's than previously.

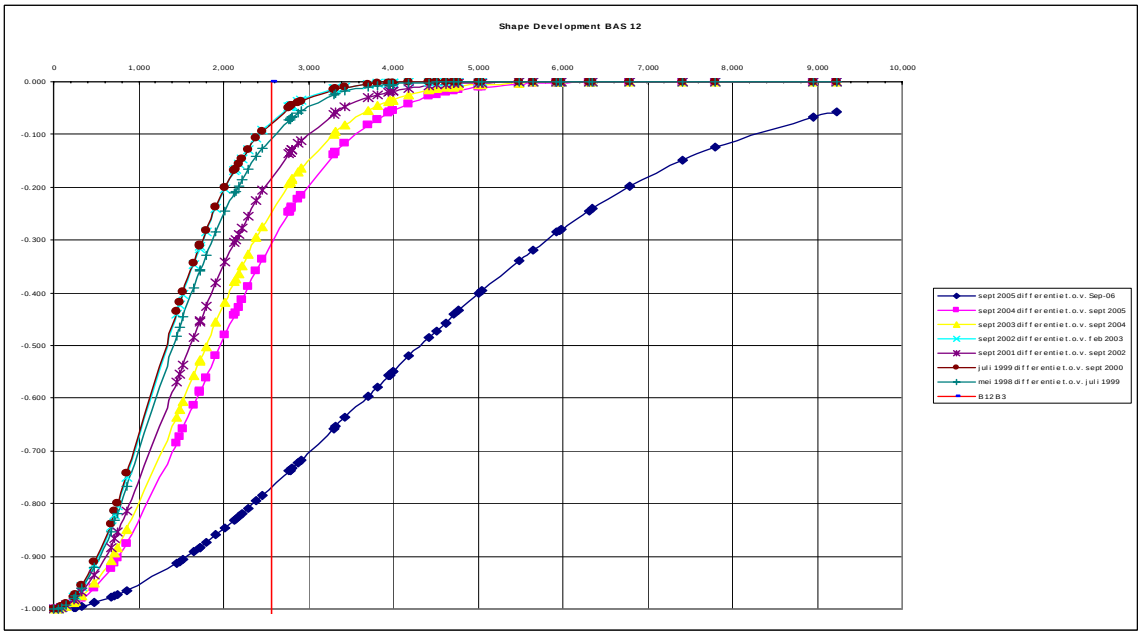
When the subsidence of the B12 bowl in 2006 is integrated over the surface, it shows that the bowl volume represents 98.6% of the convergence volume that serves as input ($V_{bowl} = \psi V_{con} = 0.986 * V_{con}$). Finite Element calculations predict a ratio between 85 and 99%, depending on the mining phase and the influence of pressure dissolution creep.

After this rigid process, the same set of 97 PM's and the underlying analysis procedure will also be used for the evaluation of future surveys. The number of monitoring points will be increased once the effects of salt mining via the BAS 4 cavern become noticeable.

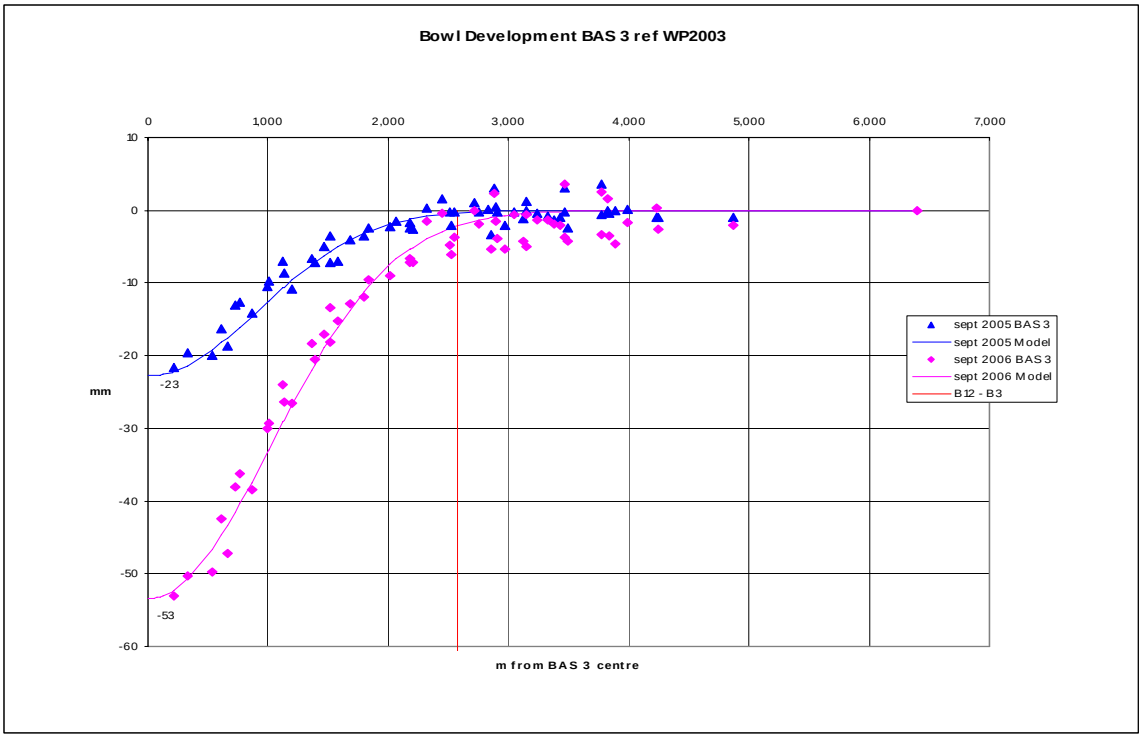
The development of the B12 subsidence bowl based on the 59 PM's is summarised in the following diagram:



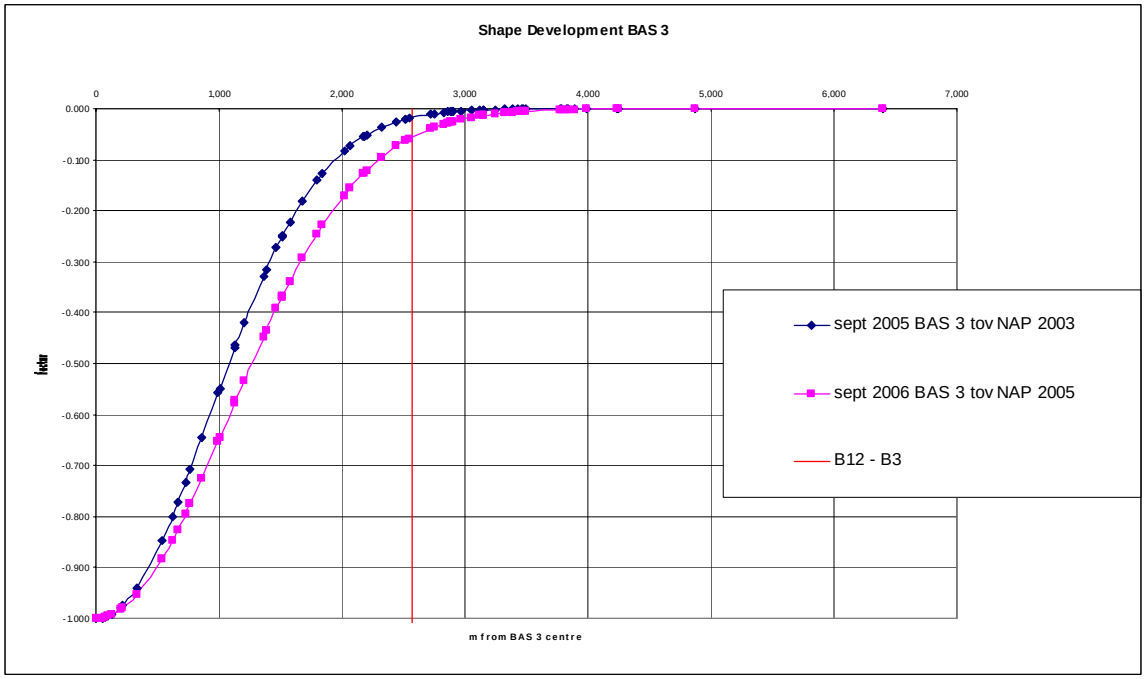
An analyses of the differentials (increments) between surveys show that the B12 bowl is widening significantly in the post mining phase:



The B3 bowl develops as follows:



The B3 bowl indicated that the bowl is narrower than the B12 bowl, having an overlap of ca 6% with the deepest point of the B12 bowl. The B3 bowl shows a widening trend:



The narrower shape of the B3 bowl compared to the B12 bowl is understandable, considering the fact that BAS 3 is a single cavern and somewhat shallower than the BAS 1 and 2 caverns, which are ca 500 m apart.

The full analysis is provided in Attachment 3.

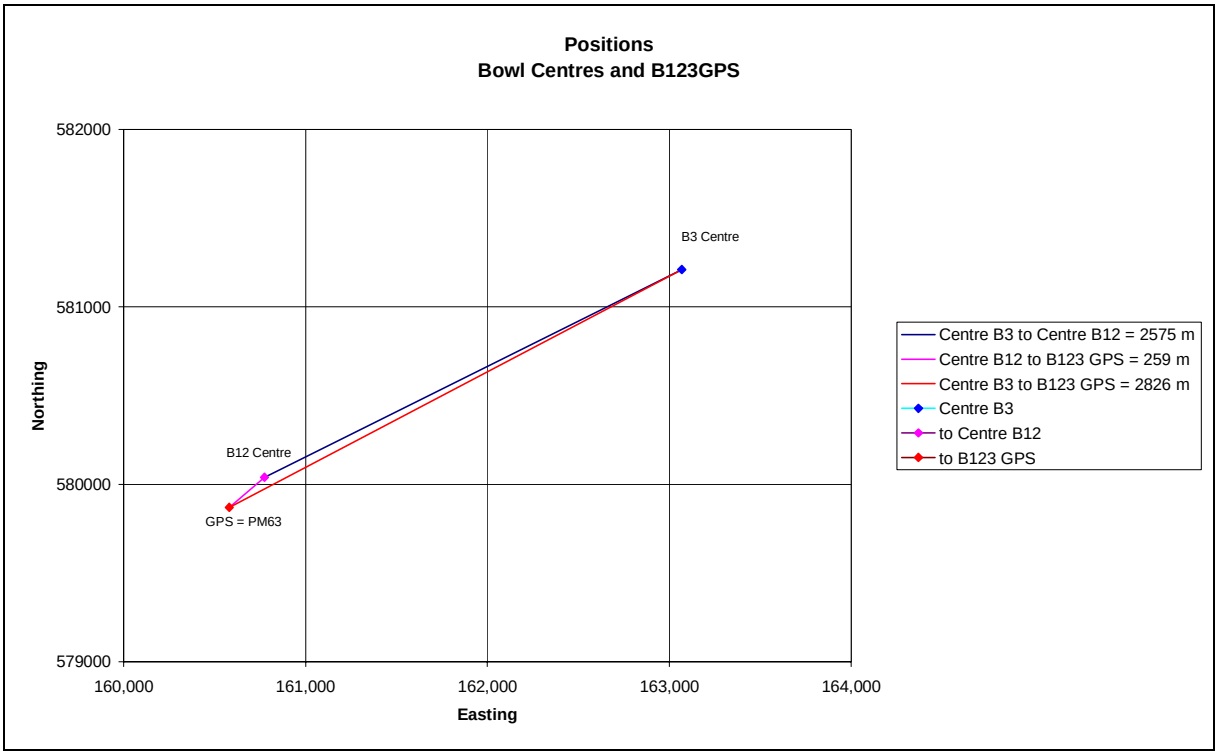
6. GPS measurements

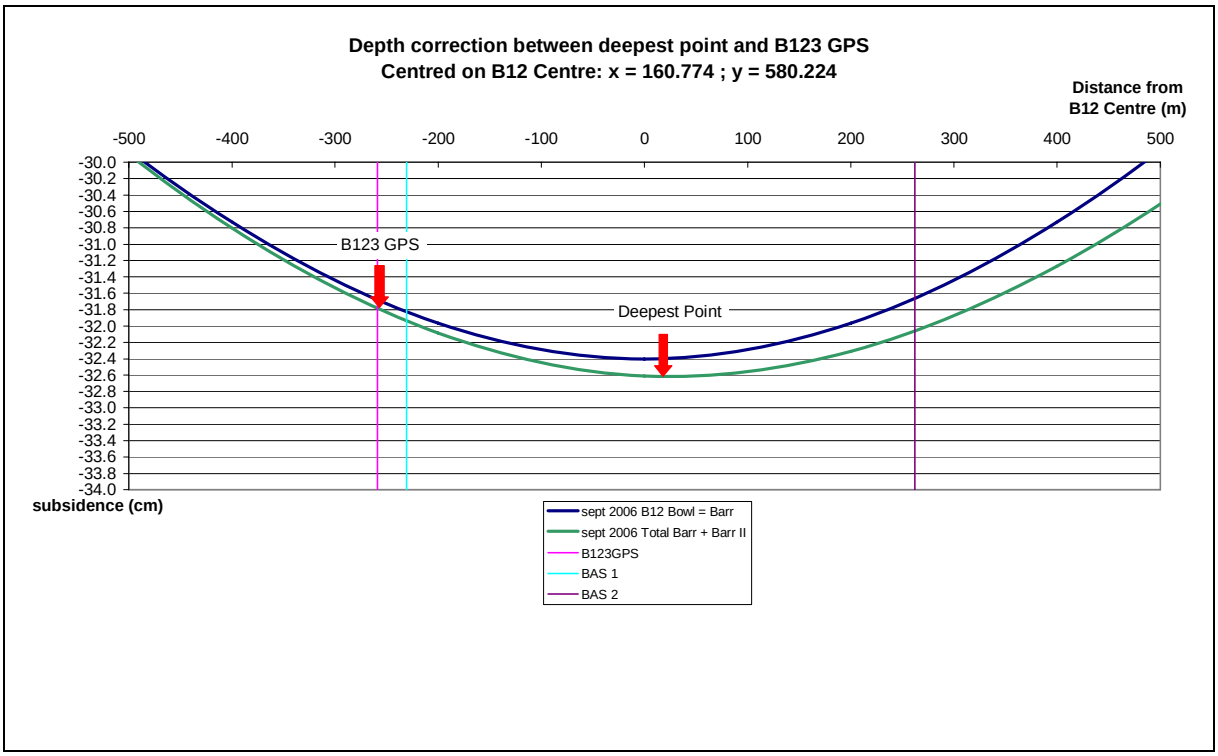
FRISIA has since April 2004 a system with two stations that are able to perform elevation measurements using satellites of the Global Positioning System (GPS).

One station is installed in Minnertsga coupled to PM 5G277. This station is not affected by salt mining or gas production and has a stable foundation. The other GPS station is positioned at the BAS 1,2,3 location (B123 GPS), near to the deepest point of the salt affected area; it is linked to PM 63. In the near future an additional GPS station will be placed near the deepest point made by the BAS 3 cavern.

A single elevation measurement by GPS is not very accurate. However taking continuous measurements several times per minute at stations with a fixed location, using differential GPS technology and averaging the data over longer periods yields results that are accurate within one mm. By comparing the elevation at the B123 GPS station with the elevation of the GPS station in Minnertsga, the relative movement of the B123 GPS station can be determined. This movement is then representative for the additional subsidence experienced at the B123 GPS Station. This additional subsidence is composed of subsidence due to salt mining and possible other effects, such as local compaction and possible overlap by gas production induced subsidence.

The relative GPS measurements have originally been coupled to the levelling survey data of the 2004 survey by assigning to the B123 GPS station the deepest subsidence caused by salt mining. Because the B123 station is not precisely located at the deepest point, a difference exists between the modelled subsidence at the GPS station and the deepest point of the bowl of 7 mm. Because this difference will not be constant over the years to come with the increasing influence of the BAS 3 subsidence bowl, the choice has been made in the new presentation of the Barradeel GPS data to provide the subsidence at the B123 GPS station in the GPS subsidence plot. This has caused a reduction of the depth scale of 7mm in the revised monitoring plot and is considered representative for 2006/2007:





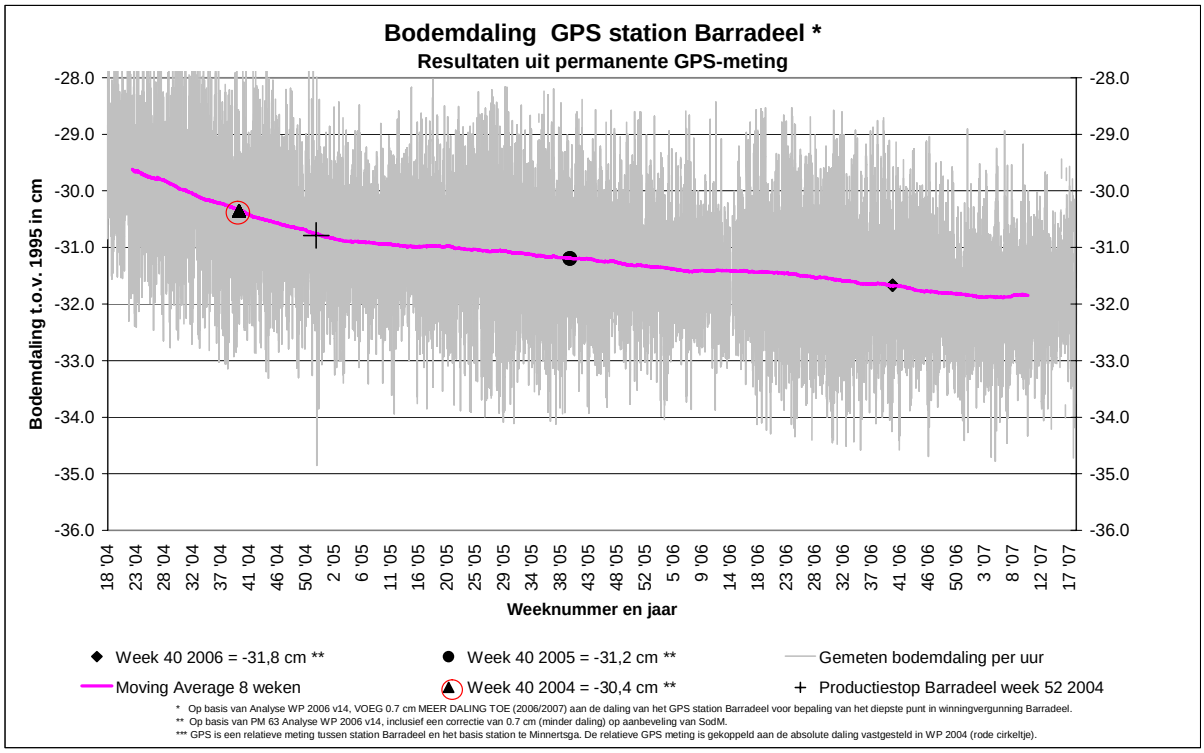
The new modelling, iteration 14, shows at PM 63 a modelled subsidence in September 2004 of 304 mm. This is 7 mm less than was used in the original GPS monitoring plot. Hence the revised GPS monitoring plot has also been corrected for this difference, resulting in a total shift of 14 mm compared to the original GPS monitoring plot. I.e. the correction of 7 mm due to the new analysis plus 7 mm shift for the new presentation (it is pure coincidence that these two values are both 7mm!)

The GPS subsidence plot shows an agreement within 1 mm with the results for PM 63 of the levelling surveys in September 2005 and September 2006, after applying the correction of 7 mm less subsidence discussed in chapter 4, proving that the GPS measurements are accurate.

The GPS monitoring plot was updated for the above results. In September 2006 the subsidence of the B123 GPS station location was 318 mm and the deepest point in Barradeel was 325 mm.

The GPS still shows that subsidence continues. This is caused by the regular brine releases from the BAS1 cavern, occasional salt mining from the BAS 1 cavern and the overlap of the BAS 3 bowl.

The updated GPS subsidence monitoring plot is as follows:


Bodemdaling GPS station Barradeel *
Resultaten uit permanente GPS-meting
Bodemdaling t.o.v. 1995 in cm
-28.0
-29.0
-30.0
-31.0
-32.0
-33.0
-34.0
-35.0
-36.0
18 '04
23 '04
28 '04
32 '04
37 '04
41 '04
46 '04
50 '04
2 '05
6 '05
11 '05
16 '05
20 '05
25 '05
29 '05
34 '05
38 '05
43 '05
48 '05
52 '05
5 '06
9 '06
14 '06
18 '06
23 '06
28 '06
32 '06
37 '06
41 '06
46 '06
50 '06
3 '07
8 '07
12 '07
17 '07
Weeknummer en jaar
Week 40 2006 = -31,8 cm **
Week 40 2005 = -31,2 cm **
Gemeten bodemdaling per uur
Moving Average 8 weken
Week 40 2004 = -30,4 cm **
Productiestop Barradeel week 52 2004
* Op basis van Analyse WP 2006 v14, VOEG 0.7 cm MEER DALING TOE (2006/2007) aan de daling van het GPS station Barradeel voor bepaling van het diepste punt in winningvergunning Barradeel.
** Op basis van PM 63 Analyse WP 2006 v14, inclusief een correctie van 0.7 cm (minder daling) op aanbeveling van SodM.
*** GPS is een relatieve meting tussen station Barradeel en het basis station te Minnertsga. De relatieve GPS meting is gekoppeld aan de absolute daling vastgesteld in WP 2004 (rode cirkeltje).

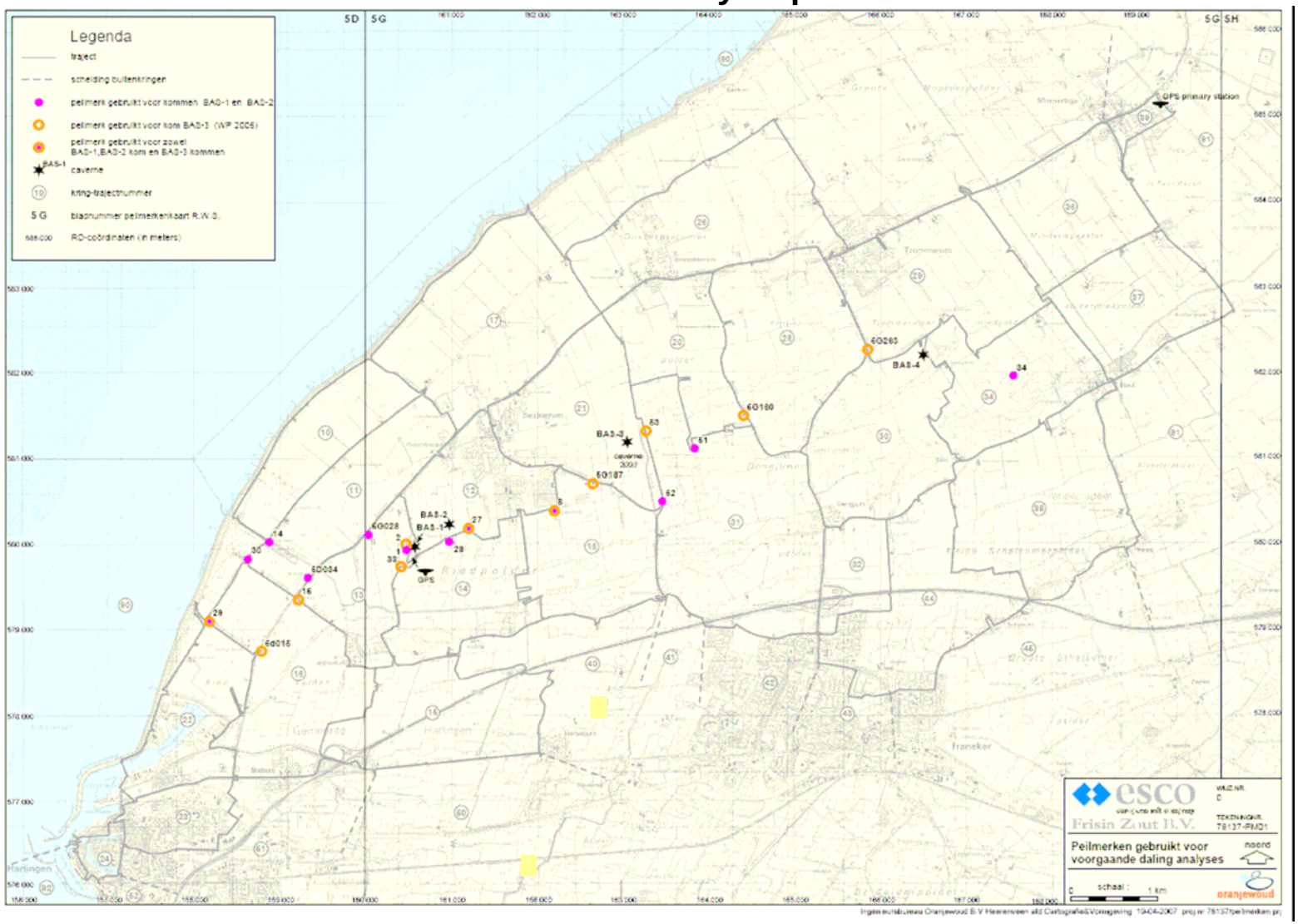
7. Comparison with previously published subsidence data

The following table compares the results of the analytical modelling of March 2007 with previously published results:

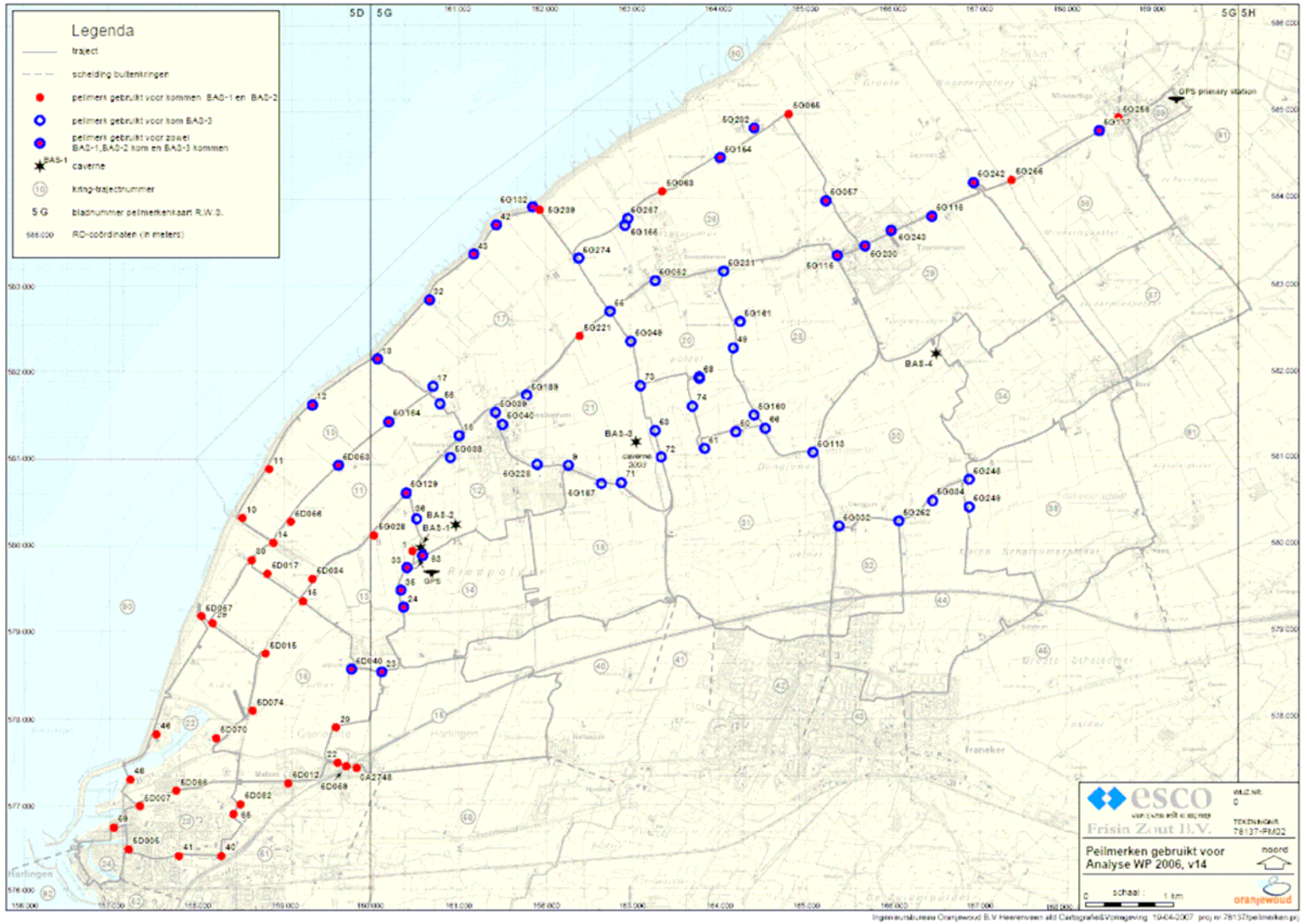
Subsidence (cm)	PM02@ Location (strongest subsidence)	PM63@ Location	GPS@ Position PM63	Estimated subsidence due to mining in BAS3	Subsidence @ centre B1+2 X= 160.774 Y= 580.224	Subsidence @ centre B3 X= 163.068 Y= 581.210
Data from 'Meetregister' and GPS measurements (GPS calibration in 2004 @ PM02)						
WPsept2004	31,9	31,1	31,9	< 1 cm		
WPsept2005	32,7	31,9	32,7	ca. 2 cm		
WPsept2006	33,3	32,5	33,2	ca. 5 cm		
Results based on analysis of 97 PM's in period 1995-2006 (bowl shape parameters in Chap 5)						
Sept 2004	Autonom'ly subsiding	30,4 + 0 = 30,4		---	31,1 + 0 = 31,1	3,7 + 0,6 = 4,3
Sept 2005	Autonom'ly subsiding	31,2 + 0 = 31,2		---	31,95+0,05 = 32,0	4,0 + 2,3 = 6,3
Sept 2006	Autonom'ly subsiding	31,7+0,1 = 31,8	calibration: ->> 31,8	---	32,4 + 0,2 = 32,6	4,2 + 5,3 = 9,5

Explanation:
PM02 and PM63 are positioned on the B123 location. The GPS antenna is connected to the pump building, as is PM63. PM02 is marked on the side of a concrete collection basin near the wellheads of BAS 2 and 3 and is the fastest subsiding PM in the entire surveying net. The estimated subsidence due to mining BAS 3 was based on geostatic contour maps of Oranjewoud. The data for the 2007 analysis have been exactly calculated with analytical formulas for the PM positions. The mutual overlap of the subsidence bowls has been recorded as a summation. The first figure is subsidence due to mining BAS 1&2 and the second figure due to BAS 3.

Attachment 1: PM's used for the analysis procedure 1999 to 2005



Attachment 2: PM's used for the analysis of September 2006 survey



Attachment 3: Printout of analysis levelling survey September 2006, iteration v14

Restsignaal analyse 97 PM 1995

PM naam		PM N	PM O	Afstand B12 kom	Afstand B3 kom	Nulmeting Maand/ jaar	Hoogte nulmeting	Correctie Nulmeting tov
		0	-350	Centrum 160,774	Centrum 163,068	nul-	t.o.v.	situatie 1995
		580,055	580,055	580,040	581,210	meting	NAP	NAP
		(m)	(m)	(m)			(m)	m
				2575	2575			
59		157,020	576,730	5,005	7,527	Jul-99	1.794	0.000
5D005		157,190	576,480	5,052	7,545	May-98	2.017	0.000
48		157,210	577,284	4,506	7,052	May-98	4.169	0.000
5D007		157,320	576,980	4,615	7,137	May-98	2.115	0.000
46		157,510	577,807	3,955	6,517	May-98	6.150	0.000
5D066		157,740	577,160	4,184	6,693	May-98	2.260	0.000
41		157,770	576,402	4,718	7,155	May-98	0.866	0.000
5D057		158,030	579,170	2,879	5,436	May-98	0.850	-0.003
29		158,160	579,087	2,783	5,348	Sep-97	0.840	0.000
5D070		158,200	577,760	3,439	5,967	May-98	5.492	0.000
40		158,260	576,403	4,422	6,799	May-98	0.781	0.000
65		158,400	576,889	3,946	6,361	Sep-01	0.768	0.000
5D082		158,480	577,000	3,809	6,227	Sep-04	0.652	0.000
10		158,500	580,302	2,289	4,658	Sep-95	1.060	0.000
30		158,610	579,815	2,176	4,671	Sep-97	1.472	-0.006
5D074		158,620	578,080	2,913	5,439	Sep-97	1.087	0.000
5D015		158,770	578,740	2,389	4,957	Sep-97	0.883	-0.002
5D017		158,790	579,660	2,021	4,550	Sep-95	1.108	0.000
11		158,810	580,865	2,131	4,272	Sep-95	1.409	0.000
14		158,860	580,014	1,915	4,375	Sep-95	2.222	0.000
5D012		159,030	577,240	3,299	5,663	Sep-97	2.671	0.000
5D056		159,060	580,260	1,728	4,119	Sep-95	1.486	0.000
15		159,200	579,342	1,722	4,296	Sep-95	2.096	0.000
5D034		159,310	579,600	1,529	4,089	Sep-95	2.141	0.000
12		159,310	581,604	2,142	3,779	Sep-95	1.435	0.000
20		159,580	577,888	2,461	4,817	Sep-95	-0.946	0.000
22		159,600	577,481	2,816	5,093	Sep-95	0.123	0.000
5D053		159,610	580,910	1,453	3,471	Sep-95	1.845	0.000
5D059		159,700	577,440	2,813	5,056	Sep-95	1.820	0.000
5D040		159,760	578,560	1,794	4,239	Sep-95	0.530	0.000
0A2748		159,820	577,420	2,789	4,992	Sep-95	0.207	0.000
5G028		160,020	580,100	757	3,244	Sep-95	1.391	0.000
13		160,060	582,137	2,215	3,148	Sep-95	1.352	0.000
23		160,110	578,529	1,651	3,992	Sep-95	0.096	0.000
5G164		160,190	581,410	1,489	2,885	Sep-95	1.497	0.000
35		160,330	579,471	722	3,244	Sep-97	-0.205	-0.020
24		160,360	579,276	869	3,328	Sep-95	-0.526	0.000
5G129		160,390	580,590	671	2,749	Sep-95	0.768	0.000
33		160,400	579,730	486	3,051	Sep-97	-0.391	-0.023
1		160,460	579,921	336	2,909	Sep-95	0.844	0.000
36		160,510	580,293	366	2,718	Sep-97	0.221	-0.028
63		160,580	579,869	259	2,827	Jul-99	1.228	-0.109
32		160,660	582,817	2,779	2,895	Sep-97	-0.023	-0.002
17		160,700	581,821	1,782	2,446	Sep-95	1.339	0.000
56		160,780	581,620	1,580	2,325	May-98	1.204	-0.017
5G038		160,900	581,000	968	2,178	Sep-95	4.101	0.000
16		161,000	581,252	1,233	2,069	Sep-95	0.672	0.000
43		161,170	583,346	3,329	2,858	May-98	1.614	0.000
5G039		161,420	581,520	1,614	1,677	Sep-95	1.177	0.000
42		161,430	583,682	3,700	2,966	May-98	1.441	0.000
5G040		161,500	581,380	1,524	1,577	Sep-95	3.002	0.000
5G189		161,780	581,720	1,958	1,386	Sep-95	1.056	0.000
5G228		161,900	580,920	1,429	1,204	Sep-95	0.602	0.000
5G132		161,900	583,870	3,992	2,905	May-98	0.920	0.000
5G239		161,900	583,870	3,992	2,905	Sep-04	1.693	0.000
9		162,260	580,909	1,721	862	Sep-95	0.950	0.000
5G274		162,380	583,300	3,634	2,200	Sep-04	1.607	0.000
5G221		162,390	582,400	2,860	1,370	May-98	-0.029	0.000
5G187		162,640	580,700	1,979	666	Sep-95	0.503	0.000
55		162,740	582,686	3,296	1,512	May-98	-0.555	0.000
71		162,870	580,710	2,200	538	Sep-02	0.629	-0.050
5G155		162,920	583,720	4,260	2,514	Feb-03	1.216	0.000
5G267		162,930	583,750	4,291	2,544	Sep-03	1.241	0.000
5G049		162,980	582,340	3,186	1,133	May-98	0.888	0.000
73		163,090	581,828	2,925	618	Sep-02	0.581	-0.017
53		163,260	581,310	2,791	216	May-98	-0.071	-0.002
5G052		163,260	583,040	3,896	1,840	May-98	2.234	0.000
72		163,330	581,006	2,732	332	Sep-02	-0.049	-0.025
5G063		163,340	584,070	4,777	2,873	Feb-03	1.805	0.000
74		163,690	581,591	3,302	729	Sep-02	-0.153	-0.001
67		163,770	581,912	3,532	993	Sep-02	0.882	0.000
68		163,770	581,930	3,542	1,005	Sep-02	0.617	0.000
51		163,830	581,106	3,236	769	May-98	-0.709	0.000
5G154		164,010	584,460	5,478	3,384	Feb-03	2.041	0.000
5G231		164,050	583,150	4,517	2,174	May-98	1.303	0.000
49		164,160	582,264	4,051	1,517	May-98	-0.752	0.000
50		164,190	581,298	3,640	1,125	May-98	0.775	0.000
5G161		164,240	582,570	4,291	1,795	May-98	1.180	0.000
5G160		164,400	581,490	3,905	1,361	May-98	1.045	0.000
5G232		164,400	584,800	5,983	3,829	Feb-03	1.141	0.000
66		164,530	581,337	3,973	1,467	Sep-02	0.606	0.000
5G065		164,800	584,960	6,357	4,131	Feb-03	0.820	0.000
5G113		165,080	581,060	4,425	2,017	Feb-03	0.608	0.000
5G057		165,230	583,960	5,934	3,498	Feb-03	1.895	0.000
5G115		165,360	583,330	5,644	3,122	Feb-03	1.384	0.000
5G032		165,380	580,210	4,609	2,519	Feb-03	1.025	0.000
5G230		165,680	583,440	5,969	3,434	Feb-03	1.650	0.000
5G243		165,980	583,620	6,318	3,780	Feb-03	1.542	0.000
5G252		166,070	580,270	5,301	3,145	Feb-03	2.671	0.000
5G116		166,450	583,780	6,797	4,247	Feb-03	1.769	0.000
5G034		166,460	580,500	5,704	3,465	Feb-03	1.302	0.000
5G249		166,880	580,430	6,118	3,891	Feb-03	1.015	0.000
5G248		166,880	580,750	6,147	3,839	Feb-03	0.655	0.000
5G242		166,930	584,170	7,413	4,866	Feb-03	2.036	0.000
5G255		167,370	584,200	7,798	5,239	Feb-03	0.919	0.000
5G117		168,380	584,770	8,956	6,394	Feb-03	1.526	0.000
5G256		168,600	584,920	9,222	6,661	Feb-03	1.155	0.000

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PM naam	sept 1995 Hoogte t.o.v. NAP (m)	sept 1997 Hoogte t.o.v. NAP (m)	mei 1998 Hoogte t.o.v. NAP (m)	juli 1999 Hoogte t.o.v. NAP (m)	sept 2000 Hoogte t.o.v. NAP (m)	sept 2001 Hoogte t.o.v. NAP (m)	sept 2002 Hoogte t.o.v. NAP (m)	feb 2003 Hoogte t.o.v. NAP (m)	sept 2003 Hoogte t.o.v. NAP (m)	sept 2004 Hoogte t.o.v. NAP (m)	sept 2005 Hoogte t.o.v. NAP (m)	sept 2006 Hoogte t.o.v. NAP (m)	Corr Type	Corr Hoogte (mm)
59	1.794			1.794	1.794	1.789	1.794	1.796	1.797	1.793	1.795	1.791		
5D005	2.017		2.017	2.016	2.016	2.009	2.015	2.016	2.017	2.014	2.015	2.011		
48	4.169		4.169	4.167	4.166	4.160	4.162	4.167	4.166	4.163	4.164	4.159		
5D007	2.115		2.115	2.117	2.117	2.110	2.115	2.117	2.117	2.114	2.115	2.113		
46	6.150		6.150	6.147	6.147	6.143	6.145	6.148	6.149	6.142	6.141	6.136		
5D066	2.260		2.260	2.262	2.261	2.253	2.258	2.261	2.261	2.257	2.257	2.256		
41	0.866		0.866	0.866	0.865	0.859	0.864	0.865	0.866	0.863	0.864	0.861		
5D057	0.853		0.850	0.844	0.841	0.834	0.830	0.831	0.830	0.822	0.822	0.819		
29	0.840	0.840	0.838	0.831	0.827	0.820	0.815	0.816	0.815	0.804	0.804	0.801	P	9
5D070	5.492		5.492	5.491	5.488	5.482	5.484	5.486	5.486	5.478	5.479	5.477		
40	0.781		0.781	0.781	0.780	0.774	0.780	0.781	0.781	0.778	0.778	0.778		
65	0.768					0.768	0.775	0.775	0.775	0.772	0.772	0.772		
5D082	0.652									0.652	0.653	0.654		
10	1.060		1.049	1.039	1.035	1.024	1.018	1.015	1.014	1.001	1.001	0.999		
30	1.478	1.472	1.468	1.456	1.446	1.436	1.429	1.427	1.422	1.409	1.406	1.404		
5D074	1.087	1.087	1.086	1.080	1.075	1.065	1.064	1.067	1.063	1.056	1.055	1.054	P	10
5D015	0.885	0.883	0.881	0.872	0.863	0.853	0.849	0.848	0.843	0.831	0.829	0.826		
5D017	1.108		1.097	1.083	1.070	1.060	1.051	1.048	1.040	1.028	1.023	1.019		
11	1.409		1.397	1.382	1.375	1.362	1.355	1.349	1.346	1.334	1.331	1.328		
14	2.222		2.204	2.187	2.174	2.160	2.150	2.145	2.138	2.121	2.117	2.114		
5D012	2.671	2.671	2.669	2.664	2.666	2.661	2.663	2.665	2.662	2.657	2.657	2.656		
5D056	1.486		1.469	1.449	1.433	1.418	1.405	1.397	1.391	1.374	1.369	1.366		
15	2.096		2.080	2.060	2.042	2.028	2.014	2.007	2.001	1.983	1.976	1.973		
5D034	2.141		2.121	2.096	2.074	2.054	2.038	2.027	2.022	2.000	1.993	1.989		
12	1.435		1.422	1.407	1.401	1.390	1.382	1.378	1.373	1.363	1.360	1.356		
20	-0.946		-0.951	-0.960	-0.964	-0.971	-0.976	-0.979	-0.979	-0.988	-0.992	-0.994		
22	0.123		0.118	0.113	0.111	0.105	0.105	0.104	0.103	0.097	0.094	0.093		
5D053	1.845		1.821	1.791	1.769	1.749	1.731	1.721	1.711	1.692	1.686	1.682		
5D059	1.820		1.816	1.812	1.810	1.804	1.804	1.802	1.802	1.795	1.791	1.792		
5D040	0.530		0.515	0.495	0.479	0.464	0.451	0.443	0.435	0.418	0.412	0.410		
0A2748	0.207		0.203		0.198	0.191	0.192	0.190	0.189	0.182	0.180	0.179		
5G028	1.391		1.352	1.302	1.262	1.227	1.200	1.180	1.165	1.133	1.126	1.121		
13	1.352		1.339	1.326	1.321	1.310	1.304	1.300	1.296	1.287	1.282	1.277		
23	0.096		0.081	0.058	0.040	0.024	0.009	0.000	-0.012	-0.029	-0.036	-0.042		
5G164	1.497		1.475	1.447	1.425	1.404	1.387	1.378	1.366	1.348	1.341	1.336		
35	-0.185	-0.205	-0.222	-0.272	-0.314	-0.347	-0.377	-0.397	-0.412	-0.444	-0.451	-0.457		
24	-0.526		-0.559	-0.604	-0.642	-0.673	-0.701	-0.718	-0.732	-0.762	-0.770	-0.775		
5G129	0.768		0.726	0.670	0.625	0.588	0.559	0.540	0.522	0.490	0.482	0.476		
33	-0.368	-0.391	-0.412	-0.468	-0.514	-0.553	-0.584	-0.606	-0.623	-0.657	-0.664	-0.669		
1	0.844		0.797	0.732	0.682	0.642	0.609	0.588	0.566	0.531	0.523	0.517	V	7
36	0.249	0.221	0.200	0.140	0.091	0.050	0.018	-0.002	-0.023	-0.057	-0.064	-0.070	V	7
63	1.337			1.228	1.177	1.136	1.103	1.081	1.060	1.026	1.018	1.012	V	7
32	-0.021	-0.023	-0.027	-0.035	-0.033	-0.040	-0.041	-0.045	-0.045	-0.050	-0.052	-0.056		
17	1.339		1.323			1.274	1.262	1.255	1.246	1.233	1.225	1.219		
56	1.221		1.204	1.180	1.162	1.142	1.129	1.118	1.110	1.089	1.084	1.078	P	-8
5G038	4.101		4.071	4.027	3.990	3.960	3.934	3.919	3.905	3.875	3.867	3.858		
16	0.672		0.646	0.611	0.582	0.556	0.535	0.521	0.509	0.483	0.476	0.466		
43	1.614		1.614	1.609	1.613	1.608	1.608	1.603	1.606	1.602	1.599	1.596		
5G039	1.177		1.160	1.137	1.118	1.100	1.086	1.076	1.068	1.046	1.038	1.025		
42	1.441		1.441	1.436	1.440	1.437	1.437	1.435	1.435	1.436	1.431	1.427		
5G040	3.002		2.983	2.957	2.935	2.916	2.899	2.889	2.880	2.857	2.846	2.834		
5G189	1.056		1.044	1.029	1.017	1.005	0.995	0.989	0.984	0.968	0.957	0.940		
5G228	0.602		0.581	0.553	0.528	0.506	0.488	0.475	0.463	0.440	0.424	0.404		
5G132	0.920		0.920		0.921	0.919	0.919	0.918	0.918	0.919	0.917	0.913		
5G239	1.693									1.693	1.691	1.686		
9	0.950		0.938	0.918	0.901	0.885	0.874	0.865	0.853	0.836	0.815	0.787		
5G274	1.607									1.607	1.602	1.597		
5G221	-0.029		-0.029	-0.034	-0.037	-0.044	-0.047	-0.049	-0.049	-0.057	-0.067	-0.084		
5G187	0.503		0.493	0.480	0.469	0.458	0.451	0.444	0.439	0.424	0.401	0.369		
55	-0.555		-0.555	-0.556	-0.558	-0.561	-0.563	-0.563	-0.563	-0.569	-0.574	-0.586		
71	0.679						0.629	0.623	0.615	0.605	0.580	0.547	P	9
5G155	1.216							1.216	1.213	1.214	1.212	1.207		
5G267	1.241								1.241	1.242	1.240	1.236		
5G049	0.888		0.888	0.882	0.883	0.881	0.879	0.880	0.877	0.875	0.864	0.845		
73	0.598						0.581	0.580	0.578	0.571	0.555	0.527		
53	-0.069		-0.071	-0.079	-0.081	-0.085	-0.087	-0.091	-0.094	-0.102	-0.123	-0.156		
5G052	2.234		2.234	2.232	2.234	2.232	2.231	2.231	2.231	2.229	2.227	2.220		
72	-0.024						-0.049	-0.054	-0.057	-0.064	-0.085	-0.118	P	5
5G063	1.805							1.805	1.805	1.805	1.803	1.801		
74	-0.152						-0.153	-0.155	-0.158	-0.160	-0.174	-0.200		
67	0.882						0.882	0.882	0.880	0.876	0.867	0.847		
68	0.617						0.617	0.618	0.613	0.611	0.601	0.581		
51	-0.709		-0.709	-0.713	-0.713	-0.714	-0.715	-0.716	-0.718	-0.720	-0.734	-0.759		
5G154	2.041							2.041	2.039	2.039	2.038	2.037		
5G231	1.303		1.303	1.303	1.303	1.303	1.303	1.303	1.303	1.301	1.301	1.296		
49	-0.752		-0.752	-0.753	-0.754	-0.753	-0.753	-0.754	-0.754	-0.755	-0.758	-0.768		
50	0.775		0.775	0.772	0.772	0.772	0.772	0.771	0.770	0.769	0.761	0.744		
5G161	1.180		1.180	1.179	1.178	1.178	1.179	1.179	1.179	1.177	1.175	1.166		
5G160	1.045		1.045	1.039	1.036	1.038	1.038	1.038	1.029	1.031	1.021	1.009	P	5
5G232	1.141							1.141	1.141	1.140	1.141	1.143		
66	0.606						0.606	0.606	0.603	0.603	0.597	0.585		
5G065	0.820							0.820	0.815	0.814	0.812	0.811		
5G113	0.608							0.608	0.608	0.610	0.605	0.598		
5G057	1.895							1.895	1.893	1.891	1.891	1.889		
5G115	1.384							1.384	1.384	1.385	1.383	1.380		
5G032	1.025							1.025	1.024	1.027	1.022	1.018		
5G230	1.650							1.650	1.650	1.651	1.649	1.648		
5G243	1.542							1.542	1.542	1.543	1.541	1.538		
5G252	2.671							2.671	2.672	2.674	2.671	2.667		
5G116	1.769							1.769	1.769	1.770	1.768	1.766		
5G034	1.302							1.302	1.301	1.304	1.301	1.298		
5G249	1.015							1.015	1.013	1.017	1.013	1.009		
5G248	0.655							0.655	0.654	0.657	0.653	0.650		
5G242	2.036							2.036	2.038	2.037	2.037	2.036		
5G255	0.919							0.919	0.920	0.920	0.920	0.918		
5G117	1.526							1.526	1.526	1.526	1.526	1.526		
5G256	1.155							1.155	1.155	1.153	1.153	1.153		

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PM naam	*sept 1995* differentie t.o.v. NAP 1995 (mm)	*sept 1997* differentie t.o.v. NAP 1995 (mm)	Corr Hoogte (mm)	*B12 Model* 4.50E-07 1.983 24.0	*sept 1997* Andere Invloeden t.o.v. NAP 1994 (mm) AVE	*sept 1997* Andere Invloeden t.o.v. NAP 1995 (mm) RMS	*mei 1998* differentie t.o.v. NAP 1995 (mm)	Corr Hoogte (mm)	*Model* 4.24E-07 1.970 44.8	*mei 1998* Andere Invloeden t.o.v. NAP 1994 (mm) AVE	*mei 1998* Andere Invloeden t.o.v. NAP 1995 (mm) RMS
				-2	0.347	1.699			-5	0.121	1.901
				-7.3%					-10.8%		
59	0			0					0		
5D005	0			0			0		0	0	0
48	0			0			0		0	0	0
5D007	0			0			0		0	0	0
46	0			0			0		0	0	0
5D066	0			0			0		0	0	0
41	0			0			0		0	0	0
5D057	0			-1			-3		-3	0	0
29	0	0	2	-1	3	8	-2	2	-3	3	12
5D070	0			0			0		-1	1	1
40	0			0			0		0	0	0
65	0			0					0		
5D082	0			0					0		
10	0			-3			-11		-8	-3	11
30	0	-6		-4	-2	5	-10		-9	-1	1
5D074	0	0	2	-1	3	7	-1	2	-3	4	15
5D015	0	-2		-3	1	0	-4		-7	3	7
5D017	0			-5			-11		-11	0	0
11	0			-4			-12		-10	-2	5
14	0			-6			-18		-13	-5	25
5D012	0	0		0	0	0	-2		-1	-1	1
5D056	0			-7			-17		-16	-1	1
15	0			-7			-16		-16	0	0
5D034	0			-9			-20		-20	0	0
12	0			-4			-13		-10	-3	12
20	0			-2			-5		-6	1	1
22	0			-1			-5		-3	-2	3
5D053	0			-10			-24		-22	-2	5
5D059	0			-1			-4		-3	-1	1
5D040	0			-7			-15		-15	0	0
0A2748	0			-1			-4		-3	-1	0
5G028	0			-19			-39		-37	-2	5
13	0			-3			-13		-9	-4	20
23	0			-8			-15		-18	3	8
5G164	0			-10			-22		-21	-1	1
35	0	-20		-19	-1	0	-37		-37	0	0
24	0			-18			-33		-35	2	2
5G129	0			-20			-42		-38	-4	14
33	0	-23		-22	-1	1	-44		-41	-3	8
1	0		7	-23			-47	7	-43	3	9
36	0	-28	7	-23	2	3	-49	7	-43	1	1
63	0		7	-23				7	-44		
32	0	-2		-1	-1	1	-6		-3	-3	7
17	0			-7			-16		-15	-1	1
56	0		-1	-9			-17	-2	-19	0	0
5G038	0			-16			-30		-32	2	6
16	0			-13			-26		-27	1	0
43	0			0			0		-1	1	1
5G039	0			-9			-17		-18	1	2
42	0			0			0		0	0	0
5G040	0			-10			-19		-20	1	2
5G189	0			-5			-12		-12	0	0
5G228	0			-11			-21		-22	1	2
5G132	0			0			0		0	0	0
5G239	0			0					0		
9	0			-7			-12		-16	4	19
5G274	0			0					-1		
5G221	0			-1			0		-3	3	8
5G187	0			-5			-10		-12	2	4
55	0			0			0		-1	1	1
71	0		2	-4				2	-9		
5G155	0			0					0		
5G267	0			0					0		
5G049	0			0			0		-2	2	2
73	0			-1					-3		
53	0			-1			-2		-3	1	2
5G052	0			0			0		0	0	0
72	0			-1					-4		
5G063	0			0					0		
74	0			0					-1		
67	0			0					-1		
68	0			0					-1		
51	0			0			0		-1	1	2
5G154	0			0					0		
5G231	0			0			0		0	0	0
49	0			0			0		0	0	0
50	0			0			0		-1	1	0
5G161	0			0			0		0	0	0
5G160	0			0			0		0	0	0
5G232	0			0					0		
66	0			0					0		
5G065	0			0					0		
5G113	0			0					0		
5G057	0			0					0		
5G115	0			0					0		
5G032	0			0					0		
5G230	0			0					0		
5G243	0			0					0		
5G252	0			0					0		
5G116	0			0					0		
5G034	0			0					0		
5G249	0			0					0		
5G248	0			0					0		
5G242	0			0					0		
5G255	0			0					0		
5G117	0			0					0		
5G256	0			0					0		

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PM naam	*juli 1999* differentie t.o.v. NAP 1995 (mm)	Corr Hoogte (mm)	*Model* 4.24E-07 1.972 106.4 1,006,569 1.06E-07 -11 -10.4%	*juli 1999* Andere Invloeden t.o.v. NAP 1994 (mm) AVE -0.469	*juli 1999* Andere Invloeden t.o.v. NAP 1995 (mm) RMS 2.960	*sept 2000* differentie t.o.v. NAP 1995 (mm)	Corr Hoogte (mm)	*Model* 4.24E-07 1.978 158.6 1,515,997 1.05E-07 -15 -9.4%	*sept 2000* Andere Invloeden t.o.v. NAP 1994 (mm) AVE -0.386	*sept 2000* Andere Invloeden t.o.v. NAP 1995 (mm) RMS 2.585
59	0		0	0	0	0		0	0	0
5D005	-1		0	-1	1	-1		0	-1	1
48	-2		0	-2	4	-3		0	-3	8
5D007	2		0	2	4	2		0	2	4
46	-3		-1	-2	6	-3		-1	-2	6
5D066	2		0	2	5	1		0	1	2
41	0		0	0	0	-1		0	-1	1
5D057	-9		-6	-3	7	-12		-8	-4	14
29	-9	3	-8	2	4	-13	4	-10	1	1
5D070	-1		-2	1	1	-4		-2	-2	3
40	0		0	0	0	-1		0	-1	1
65			-1					-1		
5D082			-1					-1		
10	-21		-18	-3	11	-25		-24	-1	0
30	-22		-21	-1	1	-32		-29	-3	8
5D074	-7	4	-6	3	7	-12	5	-8	0	0
5D015	-13		-15	2	5	-22		-21	-1	2
5D017	-25		-26	1	1	-38		-37	-1	2
11	-27		-22	-5	21	-34		-31	-3	8
14	-35		-30	-5	23	-48		-43	-5	30
5D012	-7		-3	-4	19	-5		-3	-2	3
5D056	-37		-38	1	1	-53		-54	1	1
15	-36		-38	2	5	-54		-55	1	0
5D034	-45		-47	2	6	-67		-68	1	2
12	-28		-22	-6	35	-34		-31	-3	11
20	-14		-13	-1	0	-18		-18	0	0
22	-10		-7	-3	8	-12		-9	-3	7
5D053	-54		-51	-3	8	-76		-74	-2	4
5D059	-8		-7	-1	1	-10		-9	-1	0
5D040	-35		-35	0	0	-51		-50	-1	1
0A2748			-8			-9		-10	1	1
5G028	-89		-87	-2	4	-129		-129	0	0
13	-26		-20	-6	38	-31		-27	-4	13
23	-38		-42	4	13	-56		-59	3	12
5G164	-50		-49	-1	0	-72		-71	-1	1
35	-87		-88	1	2	-129		-131	2	4
24	-78		-82	4	13	-116		-120	4	19
5G129	-98		-91	-7	53	-143		-134	-9	74
33	-100		-98	-2	5	-146		-145	-1	1
1	-112	7	-102	-3	8	-162	7	-152	-3	9
36	-109	7	-101	-1	0	-158	7	-151	0	0
63	-109	7	-104	2	3	-160	7	-155	2	3
32	-14		-8	-6	40	-12		-10	-2	3
17			-36					-51		
56	-41	-3	-45	1	1	-59	-4	-65	2	3
5G038	-74		-77	3	7	-111		-113	2	3
16	-61		-63	2	3	-90		-91	1	2
43	-5		-2	-3	6	-1		-3	2	4
5G039	-40		-43	3	11	-59		-62	3	9
42	-5		-1	-4	16	-1		-1	0	0
5G040	-45		-48	3	7	-67		-69	2	3
5G189	-27		-29	2	2	-39		-40	1	1
5G228	-49		-52	3	12	-74		-76	2	3
5G132			0			1		-1	2	2
5G239			0					-1		
9	-32		-38	6	40	-49		-55	6	32
5G274			-1					-1		
5G221	-5		-7	2	3	-8		-9	1	0
5G187	-23		-28	5	22	-34		-39	5	24
55	-1		-3	2	3	-3		-3	0	0
71		3	-20				4	-28		
5G155			0					0		
5G267			0					0		
5G049	-6		-3	-3	7	-5		-4	-1	0
73			-6					-8		
53	-10		-8	-2	6	-12		-10	-2	4
5G052	-2		-1	-1	2	0		-1	1	1
72			-8					-11		
5G063			0					0		
74			-3					-3		
67			-2					-2		
68			-2					-2		
51	-4		-3	-1	1	-4		-4	0	0
5G154			0					0		
5G231	0		0	0	0	0		0	0	0
49	-1		0	-1	0	-2		0	-2	2
50	-3		-1	-2	3	-3		-1	-2	2
5G161	-1		0	-1	1	-2		0	-2	3
5G160	-6		-1	-5	29	-9		-1	-8	68
5G232			0					0		
66			-1					-1		
5G065			0					0		
5G113			0					0		
5G057			0					0		
5G115			0					0		
5G032			0					0		
5G230			0					0		
5G243			0					0		
5G252			0					0		
5G116			0					0		
5G034			0					0		
5G249			0					0		
5G248			0					0		
5G242			0					0		
5G255			0					0		
5G117			0					0		
5G256			0					0		

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PM naam	*sept 2001* differentie t.o.v. NAP 1995 (mm)	Corr Hoogte (mm)	*Model* 4.24E-07 1.972 198.9 1,952,649 1.02E-07 -21 -10.5%	*sept 2001* Andere Invloeden t.o.v. NAP 1994 (mm) AVE -1.445	*sept 2001* Andere Invloeden t.o.v. NAP 1995 (mm) RMS 4.098	*sept 2002* differentie t.o.v. NAP 1995 (mm)	Corr Hoogte (mm)	*Model* 4.28E-07 1.970 233.6 2,392,599 9.76E-08 -25 -10.6%	*sept 2002* Andere Invloeden t.o.v. NAP 1994 (mm) AVE -0.496	*sept 2002* Andere Invloeden t.o.v. NAP 1995 (mm) RMS 3.520
59	-5		0	-5	25	0		0	0	0
5D005	-8		0	-8	63	-2		0	-2	4
48	-9		0	-9	77	-7		0	-7	45
5D007	-5		0	-5	23	0		0	0	0
46	-7		-1	-6	35	-5		-1	-4	14
5D066	-7		-1	-6	41	-2		-1	-1	2
41	-7		0	-7	47	-2		0	-2	3
5D057	-19		-12	-7	49	-23		-14	-9	78
29	-20	5	-14	-1	0	-25	6	-17	-2	5
5D070	-10		-4	-6	40	-8		-4	-4	13
40	-7		0	-7	45	-1		0	-1	0
65	0		-1	1	1	7		-1	8	68
5D082			-2					-2		
10	-36		-33	-3	7	-42		-39	-3	8
30	-42		-40	-2	6	-49		-47	-2	6
5D074	-22	5	-11	-5	28	-23	6	-13	-3	11
5D015	-32		-28	-4	12	-36		-34	-2	6
5D017	-48		-49	1	2	-57		-58	1	1
11	-47		-42	-5	23	-54		-50	-4	19
14	-62		-57	-5	28	-72		-67	-5	29
5D012	-10		-5	-5	24	-8		-6	-2	4
5D056	-68		-71	3	11	-81		-84	3	8
15	-68		-72	4	14	-82		-84	2	6
5D034	-87		-89	2	3	-103		-104	1	2
12	-45		-41	-4	12	-53		-49	-4	17
20	-25		-25	0	0	-30		-30	0	0
22	-18		-14	-4	20	-18		-16	-2	4
5D053	-96		-96	0	0	-114		-113	-1	2
5D059	-16		-14	-2	6	-16		-16	0	0
5D040	-66		-66	0	0	-79		-77	-2	2
0A2748	-16		-14	-2	3	-15		-17	2	3
5G028	-164		-163	-1	2	-191		-191	0	0
13	-42		-37	-5	22	-48		-44	-4	17
23	-72		-78	6	35	-87		-92	5	21
5G164	-93		-93	0	0	-110		-109	-1	1
35	-162		-166	4	13	-192		-194	2	6
24	-147		-153	6	32	-175		-179	4	18
5G129	-180		-170	-10	106	-209		-199	-10	94
33	-185		-183	-2	5	-216		-215	-1	2
1	-202	7	-191	-4	16	-235	7	-224	-4	14
36	-199	7	-190	-2	6	-231	7	-223	-1	2
63	-201	7	-194	0	0	-234	7	-228	1	1
32	-19		-15	-4	20	-20		-17	-3	8
17	-65		-67	2	3	-77		-79	2	3
56	-79	-4	-84	1	1	-92	-5	-99	2	4
5G038	-141		-143	2	6	-167		-168	1	2
16	-116		-117	1	2	-137		-138	1	1
43	-6		-5	-1	2	-6		-6	0	0
5G039	-77		-81	4	17	-91		-95	4	19
42	-4		-2	-2	4	-4		-2	-2	3
5G040	-86		-89	3	11	-103		-105	2	4
5G189	-51		-54	3	7	-61		-63	2	4
5G228	-96		-98	2	5	-114		-116	2	2
5G132	-1		-1	0	0	-1		-1	0	0
5G239			-1					-1		
9	-65		-72	7	48	-76		-85	9	73
5G274			-2					-3		
5G221	-15		-12	-3	6	-18		-15	-3	11
5G187	-45		-52	7	50	-52		-61	9	86
55	-6		-5	-1	1	-8		-6	-2	4
71		5	-38			-50	6	-45	1	0
5G155			0					-1		
5G267			0					0		
5G049	-7		-6	-1	0	-9		-8	-1	2
73			-11			-17		-13	-4	16
53	-16		-14	-2	3	-18		-17	-1	2
5G052	-2		-1	-1	1	-3		-1	-2	2
72			-16			-25		-19	-6	40
5G063			0					0		
74			-5			-1		-6	5	24
67			-3			0		-4	4	12
68			-3			0		-3	3	12
51	-5		-6	1	1	-6		-7	1	1
5G154			0					0		
5G231	0		0	0	0	0		0	0	0
49	-1		-1	0	0	-1		-1	0	0
50	-3		-2	-1	0	-3		-3	0	0
5G161	-2		0	-2	3	-1		0	-1	0
5G160	-7		-1	-6	34	-7		-1	-6	31
5G232			0					0		
66			-1			0		-1	1	1
5G065			0					0		
5G113			0					0		
5G057			0					0		
5G115			0					0		
5G032			0					0		
5G230			0					0		
5G243			0					0		
5G252			0					0		
5G116			0					0		
5G034			0					0		
5G249			0					0		
5G248			0					0		
5G242			0					0		
5G255			0					0		
5G117			0					0		
5G256			0					0		

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PM naam	*feb 2003* differentie t.o.v. NAP 1995 (mm)	Corr Hoogte (mm)	*Model* 4.31E-07 1.970 256.5 2,627,227 9.76E-08 -27 -10.5%	*feb 2003* Andere Invloeden t.o.v. NAP 1994 (mm) AVE -0.167	*feb 2003* Andere Invloeden t.o.v. NAP 1995 (mm) RMS 2.965	*sept 2003* differentie t.o.v. NAP 1995 (mm) 268	Corr Hoogte (mm)	*Model* 4.25E-07 1.971 276.4 2,831,967 9.76E-08 -29 -10.7%	*sept 2003* Andere Invloeden t.o.v. NAP 1994 (mm) AVE -0.420	*sept 2003* Andere Invloeden t.o.v. NAP 1995 (mm) RMS 3.336
59	2		0	2	4	3		0	3	9
5D005	-1		0	-1	1	0		0	0	0
48	-2		0	-2	3	-3		0	-2	5
5D007	2		0	2	5	2		0	2	5
46	-2		-1	-1	0	-1		-2	1	0
5D066	1		-1	2	3	1		-1	2	3
41	-1		0	-1	1	0		0	0	0
5D057	-22		-15	-7	43	-23		-17	-6	31
29	-24	6	-19	1	0	-25	7	-20	2	4
5D070	-6		-5	-1	2	-6		-5	-1	1
40	0		0	0	0	0		0	1	0
65	7		-1	8	70	7		-2	9	80
5D082			-2					-2		
10	-45		-43	-2	5	-46		-47	1	1
30	-51		-51	0	0	-57		-55	-1	1
5D074	-20	7	-14	1	2	-24	7	-16	-1	1
5D015	-37		-37	0	0	-42		-40	-2	5
5D017	-60		-63	3	11	-68		-69	1	1
11	-60		-54	-6	33	-63		-59	-4	15
14	-77		-73	-4	17	-84		-79	-4	18
5D012	-6		-6	0	0	-9		-7	-2	3
5D056	-89		-92	3	7	-95		-100	5	26
15	-89		-92	3	11	-95		-100	5	30
5D034	-114		-114	0	0	-119		-124	5	21
12	-57		-53	-4	13	-62		-58	-4	17
20	-33		-33	0	0	-33		-36	2	6
22	-19		-17	-2	3	-20		-19	-1	1
5D053	-124		-123	-1	0	-134		-134	0	0
5D059	-18		-17	-1	0	-18		-19	1	1
5D040	-87		-85	-2	5	-95		-92	-3	7
0A2748	-17		-18	1	2	-18		-20	2	3
5G028	-211		-210	-1	2	-226		-226	0	0
13	-52		-48	-4	16	-56		-52	-4	15
23	-96		-100	4	18	-108		-109	1	2
5G164	-119		-119	0	0	-132		-129	-2	5
35	-212		-213	1	2	-227		-230	3	12
24	-192		-197	5	22	-206		-212	6	40
5G129	-228		-219	-9	86	-246		-236	-10	105
33	-238		-236	-2	5	-255		-254	-1	0
1	-256	7	-246	-3	7	-278	7	-265	-5	28
36	-251	7	-244	0	0	-272	7	-264	-2	2
63	-256	7	-250	1	2	-277	7	-270	0	0
32	-24		-19	-5	29	-24		-21	-3	12
17	-84		-86	2	4	-93		-94	0	0
56	-103	-5	-108	0	0	-111	-6	-118	0	0
5G038	-182		-185	3	8	-196		-200	4	16
16	-151		-151	0	0	-163		-164	1	1
43	-11		-6	-5	24	-9		-7	-2	3
5G039	-101		-104	3	11	-110		-113	4	14
42	-6		-3	-3	12	-6		-3	-3	12
5G040	-113		-115	2	4	-122		-125	3	8
5G189	-67		-69	2	4	-73		-75	3	6
5G228	-127		-127	0	0	-139		-137	-1	2
5G132	-2		-1	-1	1	-2		-1	0	0
5G239			-1					-1		
9	-85		-93	8	56	-97		-101	3	10
5G274			-3					-3		
5G221	-20		-16	-4	16	-20		-18	-3	7
5G187	-59		-67	8	64	-64		-73	9	73
55	-8		-7	-1	2	-8		-7	-1	1
71	-56	6	-49	-1	1	-64	7	-54	-4	13
5G155	0		-1	1	0	-3		-1	-3	6
5G267			-1			0		-1	1	0
5G049	-8		-8	0	0	-11		-9	-2	4
73	-18		-14	-4	15	-21		-16	-5	25
53	-22		-18	-4	14	-25		-20	-5	23
5G052	-3		-2	-1	2	-3		-2	-2	3
72	-30	1	-20	-9	75	-33	2	-22	-9	78
5G063	0		0	0	0	0		0	0	0
74	-3		-6	3	12	-6		-7	2	3
67	0		-4	4	15	-2		-4	2	4
68	1		-4	5	22	-4		-4	0	0
51	-7		-7	0	0	-9		-8	0	0
5G154	0		0	0	0	-2		0	-2	3
5G231	0		0	0	0	0		0	0	0
49	-2		-1	-1	1	-2		-1	-1	0
50	-4		-3	-1	1	-5		-3	-2	4
5G161	-1		-1	0	0	-1		-1	0	0
5G160	-7	1	-2	-4	20	-16	2	-2	-13	158
5G232	0		0	0	0	0		0	0	0
66	0		-1	1	2	-3		-1	-2	3
5G065	0		0	0	0	-5		0	-5	29
5G113	0		0	0	0	0		0	0	0
5G057	0		0	0	0	-2		0	-2	3
5G115	0		0	0	0	0		0	0	0
5G032	0		0	0	0	-1		0	-1	0
5G230	0		0	0	0	0		0	0	0
5G243	0		0	0	0	0		0	0	0
5G252	0		0	0	0	1		0	1	2
5G116	0		0	0	0	0		0	0	0
5G034	0		0	0	0	-1		0	-1	1
5G249	0		0	0	0	-2		0	-2	4
5G248	0		0	0	0	-2		0	-1	2
5G242	0		0	0	0	2		0	2	4
5G255	0		0	0	0	1		0	1	2
5G117	0		0	0	0	0		0	0	0
5G256	0		0	0	0	0		0	0	0

Restsignaal analyse 97 PM 1995

PM naam	*sept 2004* differentie t.o.v. NAP 1995 (mm) 306	Corr Hoogte (mm)	*Model* 4.10E-07 1.969 311.4 3,155,565 9.87E-08 -37 -11.9%	*sept 2004* Andere Invloeden t.o.v. NAP 1994 (mm) AVE -0.598	*sept 2004* Andere Invloeden t.o.v. NAP 1995 (mm) RMS 3.677	*sept 2005* differentie t.o.v. NAP 1995 (mm)	Corr Hoogte (mm)	*B12 Model* 4.08E-07 1.967 319.5 3,256,826 9.81E-08 -39.5 -12.4% -319.8	*B3 Model* 4.34E-07 2.0452 22.8 206,946 1.10E-07 -0.4 -1.7% -62.2	*sept 2005* Andere Invloeden t.o.v. NAP 1994 (mm) AVE -0.692	*sept 2005* Andere Invloeden t.o.v. NAP 1995 (mm) RMS 3.451
59	-1		0	-1	1	1		0	0	1	1
5D005	-3		0	-3	8	-2		0	0	-2	4
48	-6		-1	-5	30	-5		-1	0	-4	19
5D007	-1		0	-1	0	0		0	0	0	0
46	-8		-2	-6	34	-9		-2	0	-7	43
5D066	-3		-1	-2	3	-3		-1	0	-2	3
41	-3		0	-3	7	-2		0	0	-2	3
5D057	-31		-22	-9	81	-31		-24	0	-7	54
29	-36	7	-26	-3	6	-36	8	-28	0	0	0
5D070	-14		-7	-7	46	-13		-8	0	-5	26
40	-3		-1	-2	6	-3		-1	0	-2	5
65	4		-2	6	39	4		-3	0	7	43
5D082	0		-3	3	9	1		-3	0	4	19
10	-59		-58	-1	2	-59		-61	0	2	3
30	-69		-68	-1	2	-72		-71	0	-1	1
5D074	-31	8	-21	-2	4	-32	9	-22	0	-1	0
5D015	-54		-50	-4	19	-56		-53	0	-3	12
5D017	-80		-83	3	10	-85		-87	0	2	5
11	-75		-72	-3	9	-78		-76	0	-2	5
14	-101		-95	-6	36	-105		-99	0	-6	31
5D012	-14		-10	-4	18	-14		-11	0	-3	11
5D056	-112		-118	6	36	-117		-123	0	6	36
15	-113		-119	6	34	-120		-124	0	4	15
5D034	-141		-145	4	18	-148		-151	0	3	8
12	-72		-71	-1	1	-75		-74	0	-1	0
20	-42		-44	2	6	-46		-47	0	1	1
22	-26		-25	-1	2	-29		-26	0	-3	7
5D053	-153		-156	3	10	-159		-162	0	3	9
5D059	-25		-25	0	0	-29		-27	0	-2	6
5D040	-112		-110	-2	6	-118		-114	0	-4	14
0A2748	-25		-26	1	1	-27		-28	0	1	0
5G028	-258		-257	-1	1	-265		-265	0	0	0
13	-65		-64	-1	1	-70		-67	0	-2	6
23	-125		-128	3	11	-132		-134	0	2	2
5G164	-149		-151	2	4	-156		-157	0	1	1
35	-259		-262	3	7	-266		-269	0	3	10
24	-236		-242	6	40	-244		-250	0	6	31
5G129	-278		-268	-10	103	-286		-275	0	-10	107
33	-289		-287	-2	2	-296		-295	0	-1	0
1	-313	7	-300	-6	41	-321	7	-308	0	-6	41
36	-306	7	-297	-2	2	-313	7	-305	0	0	0
63	-311	7	-304	0	0	-319	7	-312	0	0	0
32	-29		-26	-3	7	-31		-28	0	-3	8
17	-106		-111	5	26	-114		-116	-1	2	6
56	-132	-7	-138	0	0	-137	-7	-144	-1	0	0
5G038	-226		-228	2	6	-234		-235	-1	3	7
16	-189		-189	0	0	-196		-196	-2	1	1
43	-12		-9	-3	8	-15		-10	0	-5	24
5G039	-131		-133	2	5	-139		-139	-4	4	14
42	-5		-4	-1	1	-10		-4	0	-5	29
5G040	-145		-146	1	1	-156		-152	-5	1	1
5G189	-88		-90	2	4	-99		-94	-7	3	6
5G228	-162		-160	-2	5	-178		-166	-10	-3	7
5G132	-1		-2	1	1	-3		-2	0	-1	0
5G239	0		-2	2	4	-2		-2	0	0	0
9	-114		-119	5	25	-135		-124	-15	4	13
5G274	0		-5	5	27	-4		-5	-1	2	3
5G221	-28		-23	-5	27	-38		-24	-7	-6	38
5G187	-79		-88	9	77	-102		-92	-18	8	56
55	-14		-10	-4	18	-19		-11	-6	-3	7
71	-74	7	-65	-1	1	-99	8	-69	-19	-3	7
5G155	-2		-1	-1	1	-4		-1	0	-2	6
5G267	1		-1	2	5	-1		-1	0	1	1
5G049	-13		-12	-1	1	-24		-13	-11	0	0
73	-27		-20	-7	46	-43		-22	-18	-3	9
53	-33		-26	-7	53	-54		-28	-22	-4	18
5G052	-5		-3	-2	6	-7		-3	-3	-1	2
72	-40	3	-29	-8	72	-61	4	-30	-21	-5	26
5G063	0		0	0	0	-2		0	0	-2	3
74	-8		-10	2	3	-22		-11	-17	5	27
67	-6		-6	0	0	-15		-7	-13	4	18
68	-6		-6	0	0	-16		-6	-12	3	8
51	-11		-11	0	0	-25		-12	-16	3	10
5G154	-2		0	-2	4	-3		0	0	-3	9
5G231	-2		-1	-1	2	-2		-1	-1	0	0
49	-3		-2	-1	2	-6		-2	-6	2	3
50	-6		-5	-1	2	-14		-5	-11	2	3
5G161	-3		-1	-2	4	-5		-1	-3	-1	1
5G160	-14	3	-2	-9	72	-24	4	-3	-7	-10	95
5G232	-1		0	-1	1	0		0	0	0	0
66	-3		-2	-1	1	-9		-2	-6	0	0
5G065	-6		0	-6	36	-8		0	0	-8	64
5G113	2		-1	3	7	-3		-1	-2	0	0
5G057	-4		0	-4	16	-4		0	0	-4	16
5G115	1		0	1	1	-1		0	0	-1	1
5G032	2		0	2	6	-3		0	0	-2	4
5G230	1		0	1	1	-1		0	0	-1	1
5G243	1		0	1	1	-1		0	0	-1	1
5G252	3		0	3	9	0		0	0	0	0
5G116	1		0	1	1	-1		0	0	-1	1
5G034	2		0	2	4	-1		0	0	-1	1
5G249	2		0	2	4	-2		0	0	-2	4
5G248	2		0	2	4	-2		0	0	-2	4
5G242	1		0	1	1	1		0	0	1	1
5G255	1		0	1	1	1		0	0	1	1
5G117	0		0	0	0	0		0	0	0	0
5G256	-2		0	-2	4	-2		0	0	-2	4

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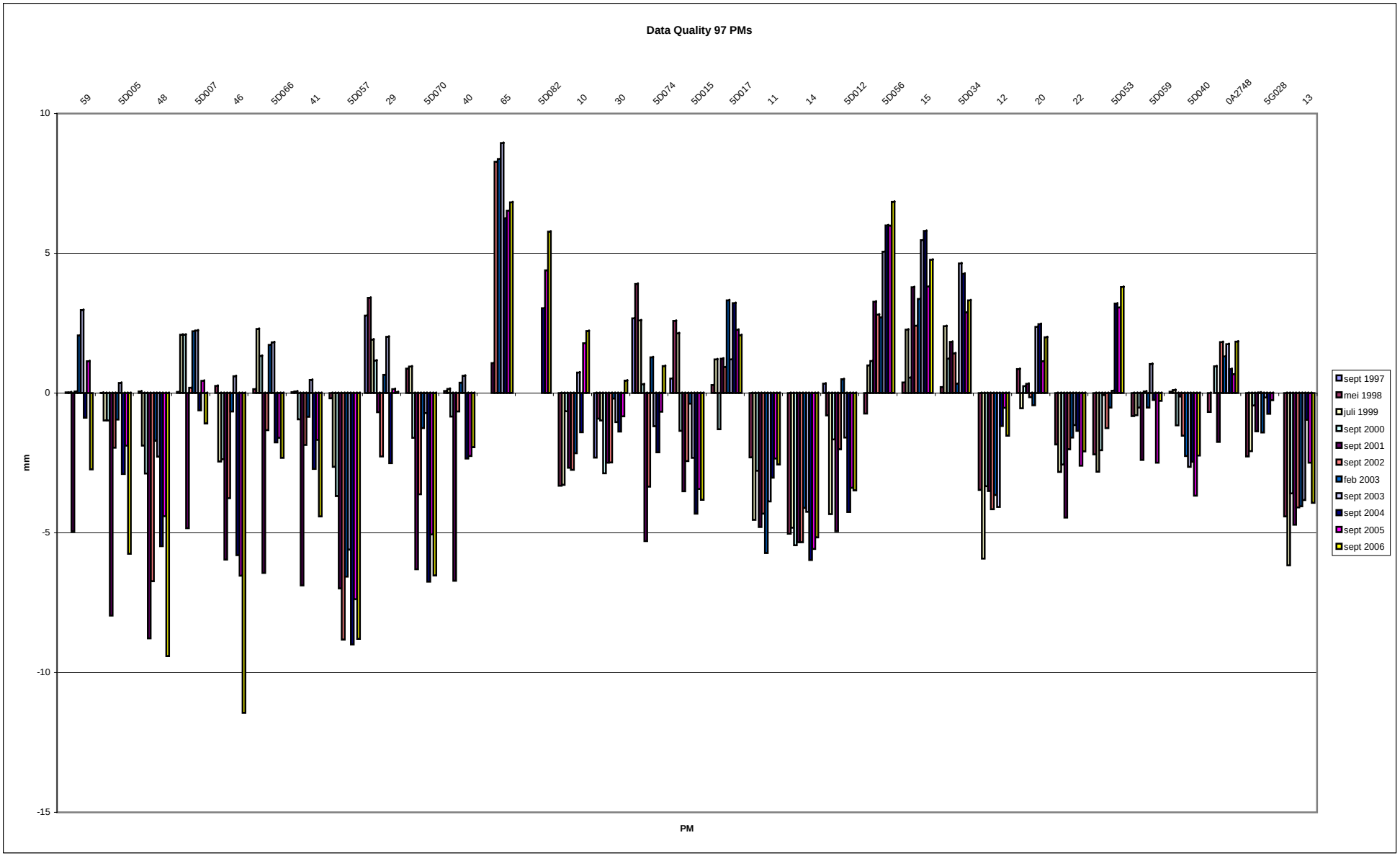
PM naam	*sept 2006* differentie t.o.v. NAP 1995 (mm)	Corr Hoogte (mm)	*B12 Model* 4.08E-07 1.965 324.0 3,296,395 9.83E-08 -41.7 -12.9% -326.1	*B3 Model* 4.15E-07 2.0204 53.4 454,256 1.18E-07 -2.1 -4.0% -95.1	*sept 2006* Andere Invloeden t.o.v. NAP 1994 (mm) AVE -1.291	*sept 2006* Andere Invloeden t.o.v. NAP 1995 (mm) RMS 4.242
59	-3		0	0	-3	7
5D005	-6		0	0	-6	33
48	-10		-1	0	-9	89
5D007	-2		-1	0	-1	1
46	-14		-3	0	-11	131
5D066	-4		-2	0	-2	5
41	-5		0	0	-4	20
5D057	-34		-25	0	-9	77
29	-39	9	-30	0	0	0
5D070	-15		-9	0	-7	43
40	-3		-1	0	-2	4
65	4		-3	0	7	47
5D082	2		-4	0	6	33
10	-61		-64	0	2	5
30	-74		-74	0	0	0
5D074	-33	10	-24	0	1	1
5D015	-59		-55	0	-4	15
5D017	-89		-91	0	2	4
11	-81		-79	0	-3	7
14	-108		-103	0	-5	27
5D012	-15		-12	0	-3	12
5D056	-120		-127	0	7	47
15	-123		-128	0	5	23
5D034	-152		-155	0	3	11
12	-79		-78	0	-2	2
20	-48		-50	0	2	4
22	-30		-28	0	-2	4
5D053	-163		-166	0	4	14
5D059	-29		-28	0	0	0
5D040	-120		-118	0	-2	5
0A2748	-28		-29	0	2	3
5G028	-270		-269	0	0	0
13	-75		-70	0	-4	15
23	-138		-138	0	0	0
5G164	-161		-161	-1	1	1
35	-272		-274	0	3	6
24	-249		-254	0	5	28
5G129	-292		-280	-1	-11	116
33	-301		-300	-1	-1	0
1	-327	7	-312	-1	-7	48
36	-319	7	-310	-1	0	0
63	-325	7	-317	-1	0	0
32	-35		-30	-1	-4	17
17	-120		-120	-3	3	8
56	-143	-8	-148	-4	1	0
5G038	-243		-240	-5	3	7
16	-206		-200	-7	1	1
43	-18		-11	-1	-6	37
5G039	-152		-143	-14	5	22
42	-14		-5	-1	-8	66
5G040	-168		-156	-16	4	13
5G189	-116		-98	-21	3	11
5G228	-198		-170	-27	-1	2
5G132	-7		-3	-1	-3	12
5G239	-7		-3	-1	-3	10
9	-163		-128	-37	2	5
5G274	-10		-6	-5	1	2
5G221	-55		-26	-22	-7	50
5G187	-134		-95	-43	5	22
55	-31		-12	-18	-2	2
71	-132	9	-72	-47	-4	19
5G155	-9		-1	-2	-5	23
5G267	-4		-1	-2	-1	1
5G049	-43		-14	-29	1	0
73	-71		-23	-45	-3	8
53	-87		-29	-52	-6	31
5G052	-15		-3	-10	-1	1
72	-94	5	-32	-51	-5	30
5G063	-4		0	-1	-3	9
74	-48		-11	-42	5	27
67	-35		-7	-33	5	28
68	-36		-7	-33	4	15
51	-50		-13	-40	4	14
5G154	-4		0	0	-3	11
5G231	-7		-1	-5	-1	2
49	-16		-2	-18	4	14
50	-32		-6	-29	3	11
5G161	-14		-1	-11	-1	1
5G160	-36	5	-3	-22	-6	37
5G232	2		0	0	2	4
66	-21		-3	-19	0	0
5G065	-9		0	0	-9	90
5G113	-10		-1	-7	-2	2
5G057	-6		0	0	-6	32
5G115	-4		0	0	-4	13
5G032	-7		-1	-2	-4	17
5G230	-2		0	0	-2	4
5G243	-4		0	0	-4	14
5G252	-4		0	0	-3	12
5G116	-3		0	0	-3	7
5G034	-4		0	0	-4	19
5G249	-6		0	0	-6	42
5G248	-5		0	0	-5	26
5G242	0		0	0	0	0
5G255	-1		0	0	-1	2
5G117	0		0	0	0	0
5G256	-2		0	0	-2	6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5D074
5D015
5D017
11
14
5D012
5D056
15
5D034
12
20
22
5D053
5D059
5D040
042748
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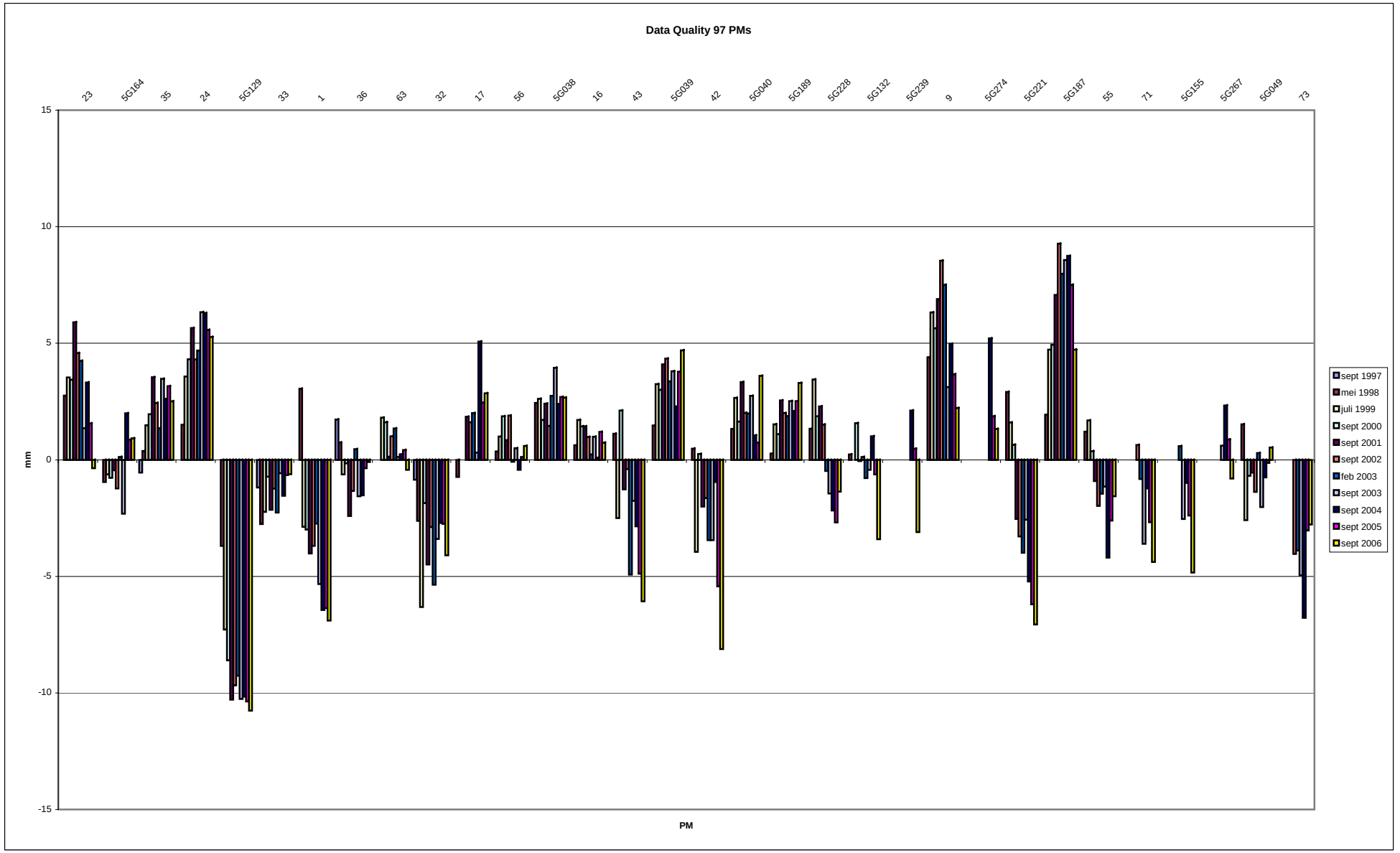
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9
5G274
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5G187
55
71
5G155
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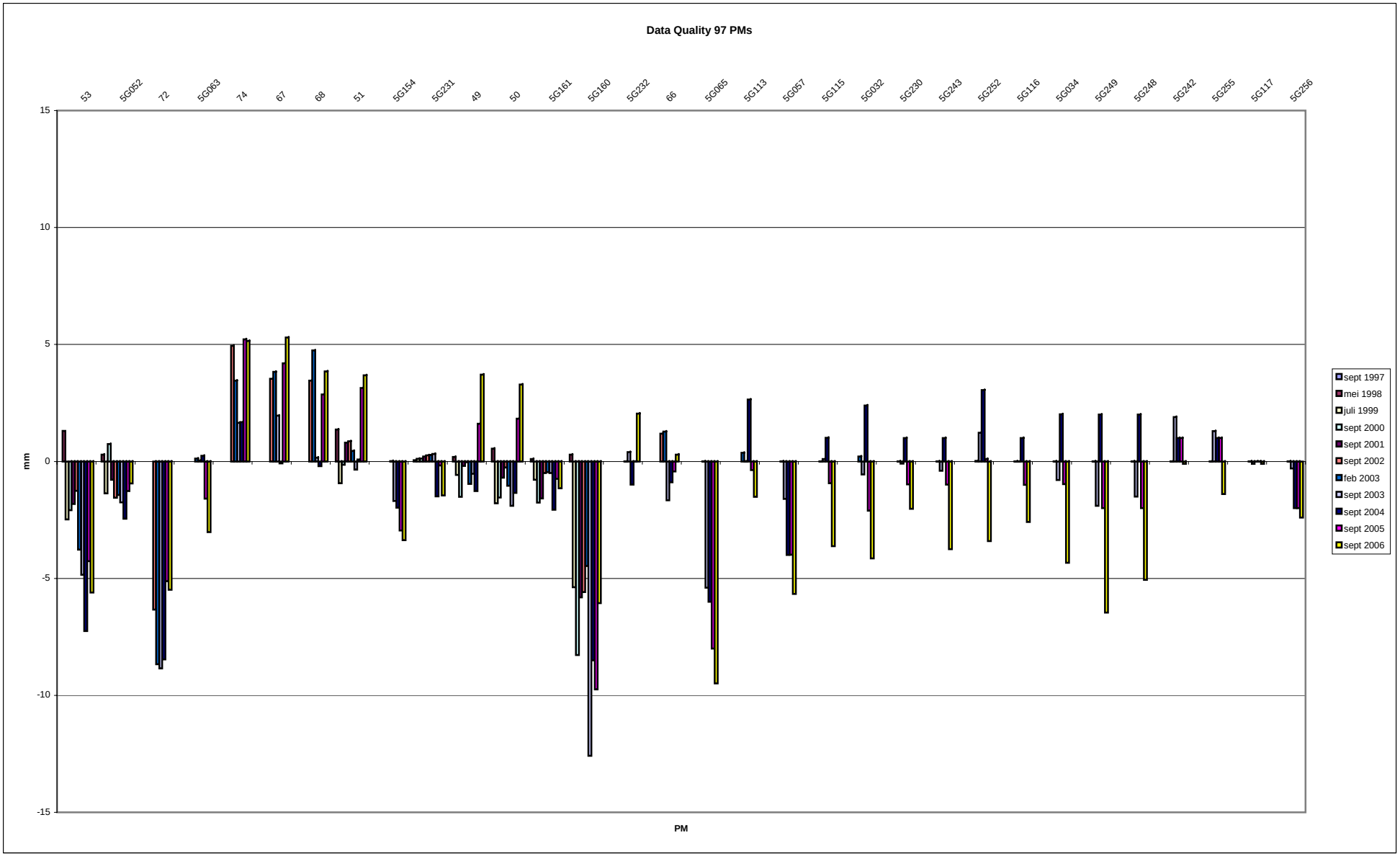
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5G065
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5G057
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5G032
5G230
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5G249
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5G242
5G255
5G117
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5
0
-5
-10
-15
mm
PM
sept 1997
mei 1998
juli 1999
sept 2000
sept 2001
sept 2002
feb 2003
sept 2003
sept 2004
sept 2005
sept 2006

BAS12 komanalyse 59 PM 1995

PM naam	PM N	PM O	Afstand B12 kom	Afstand B3 kom	Nulmeting Maand/ jaar nul- meting	Hoogte nulmeting t.o.v. NAP	Correctie Nulmeting tov situatie 1995 NAP
			Centrum 160,774 580,040	Centrum 163,068 581,210			
	(m)	(m)	(m)			(m)	m
				2575			
			0	0			
			50	50			
			100	75			
			150	100			
GPS B12	160,550	579,950	242	125			
63	160,580	579,869	259	2,827	Jul-99	1.228	-0.109
1	160,460	579,921	336	2,909	Sep-95	0.844	0.000
33	160,400	579,730	486	3,051	Sep-97	-0.391	-0.023
5G129	160,390	580,590	671	2,749	Sep-95	0.768	0.000
35	160,330	579,471	722	3,244	Sep-97	-0.205	-0.020
5G028	160,020	580,100	757	3,244	Sep-95	1.391	0.000
24	160,360	579,276	869	3,328	Sep-95	-0.526	0.000
5D053	159,610	580,910	1,453	3,471	Sep-95	1.845	0.000
5G164	160,190	581,410	1,489	2,885	Sep-95	1.497	0.000
5D034	159,310	579,600	1,529		Sep-95	2.141	0.000
23	160,110	578,529	1,651		Sep-95	0.096	0.000
15	159,200	579,342	1,722	4,296	Sep-95	2.096	0.000
5D056	159,060	580,260	1,728	4,119	Sep-95	1.486	0.000
5D040	159,760	578,560	1,794	4,239	Sep-95	0.530	0.000
14	158,860	580,014	1,915	4,375	Sep-95	2.222	0.000
5D017	158,790	579,660	2,021	4,550	Sep-95	1.108	0.000
11	158,810	580,865	2,131	4,272	Sep-95	1.409	0.000
12	159,310	581,604	2,142	3,779	Sep-95	1.435	0.000
30	158,610	579,815	2,176	4,671	Sep-97	1.472	-0.006
13	160,060	582,137	2,215	3,148	Sep-95	1.352	0.000
10	158,500	580,302	2,289	4,658	Sep-95	1.060	0.000
5D015	158,770	578,740	2,389	4,957	Sep-97	0.883	-0.002
20	159,580	577,888	2,461	4,817	Sep-95	-0.946	0.000
32	160,660	582,817	2,779	2,895	Sep-97	-0.023	-0.002
29	158,160	579,087	2,783	5,348	Sep-97	0.840	0.000
0A2748	159,820	577,420	2,789	4,992	Sep-95	0.207	0.000
5D059	159,700	577,440	2,813	5,056	Sep-95	1.820	0.000
22	159,600	577,481	2,816	5,093	Sep-95	0.123	0.000
5D057	158,030	579,170	2,879	5,436	May-98	0.850	-0.003
5D074	158,620	578,080	2,913	5,439	Sep-97	1.087	0.000
5D012	159,030	577,240	3,299	5,663	Sep-97	2.671	0.000
43	161,170	583,346	3,329	2,858	May-98	1.614	0.000
5D070	158,200	577,760	3,439	5,967	May-98	5.492	0.000
42	161,430	583,682	3,700	2,966	May-98	1.441	0.000
5D082	158,480	577,000	3,809	6,227	Sep-04	0.652	0.000
65	158,400	576,889	3,946		Sep-01	0.768	0.000
46	157,510	577,807	3,955	6,517	May-98	6.150	0.000
5G239	161,900	583,870	3,992	2,905	Sep-04	1.693	0.000
5G132	161,900	583,870	3,992	2,905	May-98	0.920	0.000
5D066	157,740	577,160	4,184	6,693	May-98	2.260	0.000
40	158,260	576,403	4,422	6,799	May-98	0.781	0.000
48	157,210	577,284	4,506	7,052	May-98	4.169	0.000
5D007	157,320	576,980	4,615	7,137	May-98	2.115	0.000
41	157,770	576,402	4,718	7,155	May-98	0.866	0.000
5G063	163,340	584,070	4,777	2,873	Feb-03	1.805	0.000
59	157,020	576,730	5,005	7,527	Jul-99	1.794	0.000
5D005	157,190	576,480	5,052	7,545	May-98	2.017	0.000
5G154	164,010	584,460	5,478	3,384	Feb-03	2.041	0.000
5G115	165,360	583,330	5,644	3,122	Feb-03	1.384	0.000
5G057	165,230	583,960	5,934	3,498	Feb-03	1.895	0.000
5G230	165,680	583,440	5,969	3,434	Feb-03	1.650	0.000
5G232	164,400	584,800	5,983	3,829	Feb-03	1.141	0.000
5G243	165,980	583,620	6,318	3,780	Feb-03	1.542	0.000
5G065	164,800	584,960	6,357	4,131	Feb-03	0.820	0.000
5G116	166,450	583,780	6,797	4,247	Feb-03	1.769	0.000
5G242	166,930	584,170	7,413	4,866	Feb-03	2.036	0.000
5G255	167,370	584,200	7,798	5,239	Feb-03	0.919	0.000
5G117	168,380	584,770	8,956	6,394	Feb-03	1.526	0.000
5G256	168,600	584,920	9,222	6,661	Feb-03	1.155	0.000
Onbruikbare punten							
5G054	165,440	583,400	5,749		Feb-03	3.786	0.000
2	160,458	579,992	320	2,880	Sep-95	0.987	0.000
39	160,490	579,730	421	2,973	Sep-97	1.250	-0.027
5G270	160,100	577,290	2,832	4,917	Sep-03	0.441	-0.028
5D067	158,440	577,500	3,450	5,932	Sep-97	0.987	0.000
45	157,680	578,232	3,584	6,156	May-98	5.622	0.000
47	157,150	577,445	4,458	7,014	May-98	2.951	0.000

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PM naam	sept 1995 Hoogte t.o.v. NAP (m)	sept 1997 Hoogte t.o.v. NAP (m)	mei 1998 Hoogte t.o.v. NAP (m)	juli 1999 Hoogte t.o.v. NAP (m)	sept 2000 Hoogte t.o.v. NAP (m)	sept 2001 Hoogte t.o.v. NAP (m)	sept 2002 Hoogte t.o.v. NAP (m)	feb 2003 Hoogte t.o.v. NAP (m)	sept 2003 Hoogte t.o.v. NAP (m)	sept 2004 Hoogte t.o.v. NAP (m)	sept 2005 Hoogte t.o.v. NAP (m)	sept 2006 Hoogte t.o.v. NAP (m)
GPS B12												
63	1.337			1.228	1.177	1.136	1.103	1.081	1.060	1.026	1.018	1.012
1	0.844		0.797	0.732	0.682	0.642	0.609	0.588	0.566	0.531	0.523	0.517
33	-0.368	-0.391	-0.412	-0.468	-0.514	-0.553	-0.584	-0.606	-0.623	-0.657	-0.664	-0.669
5G129	0.768		0.726	0.670	0.625	0.588	0.559	0.540	0.522	0.490	0.482	0.476
35	-0.185	-0.205	-0.222	-0.272	-0.314	-0.347	-0.377	-0.397	-0.412	-0.444	-0.451	-0.457
5G028	1.391		1.352	1.302	1.262	1.227	1.200	1.180	1.165	1.133	1.126	1.121
24	-0.526		-0.559	-0.604	-0.642	-0.673	-0.701	-0.718	-0.732	-0.762	-0.770	-0.775
5D053	1.845		1.821	1.791	1.769	1.749	1.731	1.721	1.711	1.692	1.686	1.682
5G164	1.497		1.475	1.447	1.425	1.404	1.387	1.378	1.366	1.348	1.341	1.336
5D034	2.141		2.121	2.096	2.074	2.054	2.038	2.027	2.022	2.000	1.993	1.989
23	0.096		0.081	0.058	0.040	0.024	0.009	0.000	-0.012	-0.029	-0.036	-0.042
15	2.096		2.080	2.060	2.042	2.028	2.014	2.007	2.001	1.983	1.976	1.973
5D056	1.486		1.469	1.449	1.433	1.418	1.405	1.397	1.391	1.374	1.369	1.366
5D040	0.530		0.515	0.495	0.479	0.464	0.451	0.443	0.435	0.418	0.412	0.410
14	2.222		2.204	2.187	2.174	2.160	2.150	2.145	2.138	2.121	2.117	2.114
5D017	1.108		1.097	1.083	1.070	1.060	1.051	1.048	1.040	1.028	1.023	1.019
11	1.409		1.397	1.382	1.375	1.362	1.355	1.349	1.346	1.334	1.331	1.328
12	1.435		1.422	1.407	1.401	1.390	1.382	1.378	1.373	1.363	1.360	1.356
30	1.478	1.472	1.468	1.456	1.446	1.436	1.429	1.427	1.422	1.409	1.406	1.404
13	1.352		1.339	1.326	1.321	1.310	1.304	1.300	1.296	1.287	1.282	1.277
10	1.060		1.049	1.039	1.035	1.024	1.018	1.015	1.014	1.001	1.001	0.999
5D015	0.885	0.883	0.881	0.872	0.863	0.853	0.849	0.848	0.843	0.831	0.829	0.826
20	-0.946		-0.951	-0.960	-0.964	-0.971	-0.976	-0.979	-0.979	-0.988	-0.992	-0.994
32	-0.021	-0.023	-0.027	-0.035	-0.033	-0.040	-0.041	-0.045	-0.045	-0.050	-0.052	-0.056
29	0.840	0.840	0.838	0.831	0.827	0.820	0.815	0.816	0.815	0.804	0.804	0.801
0A2748	0.207		0.203		0.198	0.191	0.192	0.190	0.189	0.182	0.180	0.179
5D059	1.820		1.816	1.812	1.810	1.804	1.804	1.802	1.802	1.795	1.791	1.792
22	0.123		0.118	0.113	0.111	0.105	0.105	0.104	0.103	0.097	0.094	0.093
5D057	0.853		0.850	0.844	0.841	0.834	0.830	0.831	0.830	0.822	0.822	0.819
5D074	1.087	1.087	1.086	1.080	1.075	1.065	1.064	1.067	1.063	1.056	1.055	1.054
5D012	2.671	2.671	2.669	2.664	2.666	2.661	2.663	2.665	2.662	2.657	2.657	2.656
43	1.614		1.614	1.609	1.613	1.608	1.608	1.603	1.606	1.602	1.599	1.596
5D070	5.492		5.492	5.491	5.488	5.482	5.484	5.486	5.486	5.478	5.479	5.477
42	1.441		1.441	1.436	1.440	1.437	1.437	1.435	1.435	1.436	1.431	1.427
5D082	0.652									0.652	0.653	0.654
65	0.768					0.768	0.775	0.775	0.775	0.772	0.772	0.772
46	6.150		6.150	6.147	6.147	6.143	6.145	6.148	6.149	6.142	6.141	6.136
5G239	1.693									1.693	1.691	1.686
5G132	0.920		0.920		0.921	0.919	0.919	0.918	0.918	0.919	0.917	0.913
5D066	2.260		2.260	2.262	2.261	2.253	2.258	2.261	2.261	2.257	2.257	2.256
40	0.781		0.781	0.781	0.780	0.774	0.780	0.781	0.781	0.778	0.778	0.778
48	4.169		4.169	4.167	4.166	4.160	4.162	4.167	4.166	4.163	4.164	4.159
5D007	2.115		2.115	2.117	2.117	2.110	2.115	2.117	2.117	2.114	2.115	2.113
41	0.866		0.866	0.866	0.865	0.859	0.864	0.865	0.866	0.863	0.864	0.861
5G063	1.805							1.805	1.805	1.805	1.803	1.801
59	1.794			1.794	1.794	1.789	1.794	1.796	1.797	1.793	1.795	1.791
5D005	2.017		2.017	2.016	2.016	2.009	2.015	2.016	2.017	2.014	2.015	2.011
5G154	2.041							2.041	2.039	2.039	2.038	2.037
5G115	1.384							1.384	1.384	1.385	1.383	1.380
5G057	1.895							1.895	1.893	1.891	1.891	1.889
5G230	1.650							1.650	1.650	1.651	1.649	1.648
5G232	1.141							1.141	1.141	1.140	1.141	1.143
5G243	1.542							1.542	1.542	1.543	1.541	1.538
5G065	0.820							0.820	0.815	0.814	0.812	0.811
5G116	1.769							1.769	1.769	1.770	1.768	1.766
5G242	2.036							2.036	2.038	2.037	2.037	2.036
5G255	0.919							0.919	0.920	0.920	0.920	0.918
5G117	1.526							1.526	1.526	1.526	1.526	1.526
5G256	1.155							1.155	1.155	1.153	1.153	1.153
Onbruikbare												
5G054	3.786							3.786	3.786	3.785	3.784	3.779
2	0.987		0.935	0.872	0.822	0.781	0.747	0.725	0.703	0.668	0.660	0.654
39	1.277	1.250	1.230	1.168	1.116	1.075	1.040	1.019	0.997	0.962	0.953	0.947
5G270	0.468								0.441	0.433	0.429	0.428
5D067	0.987	0.987	0.986	0.984	0.982	0.975	0.977	0.979	0.973	0.965	0.965	0.962
45	5.622		5.622	5.615	5.613	5.606	5.607	5.608	5.604	5.595	5.593	5.585
47	2.951		2.951	2.948	2.947	2.941	2.943	2.947	2.947	2.941	2.941	2.937

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PM naam	*sept 1995* differentie t.o.v. NAP 1995 (mm)	*sept 1997* differentie t.o.v. NAP 1995 (mm) Corrected	*Model* 4.50E-07 1.983 24.0 -1.8 RMS -24 -24 -24 -24	*Model* gamma delta Zmax mm Conv m3 dZ/dV -7.3% 1.695	*mei 1998* differentie t.o.v. NAP 1995 (mm) Corrected	*Model* 4.24E-07 1.970 44.8 -4.9 RMS -45 -45 -45 -44	*Model* gamma delta Zmax mm Conv m3 dZ/dV -10.8% 2.065	*juli 1999* differentie t.o.v. NAP 1995 (mm) Corrected	*Model* 4.24E-07 1.972 106.4 1,006,569 1.06E-07 -11.1 RMS -106 -106 -106 -105	*Model* gamma delta Zmax mm Conv m3 dZ/dV -10.4% 3.060	*sept 2000* differentie t.o.v. NAP 1995 (mm) Corrected	*Model* 4.24E-07 1.978 158.6 1,515,997 1.05E-07 -14.9 RMS -159 -158 -158 -157	*Model* gamma delta Zmax mm Conv m3 dZ/dV -9.4% 2.480
GPS B12			-23			-44			-104			-155	
63	0		-23			-44		-102	-104	3	-153	-155	3
1	0		-23		-40	-43	9	-105	-102	8	-155	-152	9
33	0	-23	-22	1	-44	-41	8	-100	-98	5	-146	-145	1
5G129	0		-20		-42	-38	14	-98	-91	53	-143	-134	74
35	0	-20	-19	0	-37	-37	0	-87	-88	2	-129	-131	4
5G028	0		-19		-39	-37	5	-89	-87	4	-129	-129	0
24	0		-18		-33	-35	2	-78	-82	13	-116	-120	19
5D053	0		-10		-24	-22	5	-54	-51	8	-76	-74	4
5G164	0		-10		-22	-21	1	-50	-49	0	-72	-71	1
5D034	0		-9		-20	-20	0	-45	-47	6	-67	-68	2
23	0		-8		-15	-18	8	-38	-42	13	-56	-59	12
15	0		-7		-16	-16	0	-36	-38	5	-54	-55	0
5D056	0		-7		-17	-16	1	-37	-38	1	-53	-54	1
5D040	0		-7		-15	-15	0	-35	-35	0	-51	-50	1
14	0		-6		-18	-13	25	-35	-30	23	-48	-43	30
5D017	0		-5		-11	-11	0	-25	-26	1	-38	-37	2
11	0		-4		-12	-10	5	-27	-22	21	-34	-31	8
12	0		-4		-13	-10	12	-28	-22	35	-34	-31	11
30	0	-6	-4	5	-10	-9	1	-22	-21	1	-32	-29	8
13	0		-3		-13	-9	20	-26	-20	38	-31	-27	13
10	0		-3		-11	-8	11	-21	-18	11	-25	-24	0
5D015	0	-2	-3	0	-4	-7	7	-13	-15	5	-22	-21	2
20	0		-2		-5	-6	1	-14	-13	0	-18	-18	0
32	0	-2	-1	1	-6	-3	7	-14	-8	40	-12	-10	3
29	0	2	-1	8	0	-3	12	-6	-8	4	-9	-10	1
0A2748	0		-1		-4	-3	0		-8		-9	-10	1
5D059	0		-1		-4	-3	1	-8	-7	1	-10	-9	0
22	0		-1		-5	-3	3	-10	-7	8	-12	-9	7
5D057	0		-1		-3	-3	0	-9	-6	7	-12	-8	14
5D074	0	2	-1	7	1	-3	15	-3	-6	7	-7	-8	0
5D012	0	0	0	0	-2	-1	1	-7	-3	19	-5	-3	3
43	0		0		0	-1	1	-5	-2	6	-1	-3	4
5D070	0		0		0	-1	1	-1	-2	1	-4	-2	3
42	0		0		0	0	0	-5	-1	16	-1	-1	0
5D082	0		0			0			-1			-1	
65	0		0			0			-1			-1	
46	0		0		0	0	0	-3	-1	6	-3	-1	6
5G239	0		0			0			0		1	-1	2
5G132	0		0		0	0	0		0			-1	
5D066	0		0		0	0	0	2	0	5	1	0	2
40	0		0		0	0	0	0	0	0	-1	0	1
48	0		0		0	0	0	-2	0	4	-3	0	8
5D007	0		0		0	0	0	2	0	4	2	0	4
41	0		0		0	0	0	0	0	0	-1	0	1
5G063	0		0			0			0			0	
59	0		0			0		0	0	0	0	0	0
5D005	0		0		0	0	0	-1	0	1	-1	0	1
5G154	0		0			0			0			0	
5G115	0		0			0			0			0	
5G057	0		0			0			0			0	
5G230	0		0			0			0			0	
5G232	0		0			0			0			0	
5G243	0		0			0			0			0	
5G065	0		0			0			0			0	
5G116	0		0			0			0			0	
5G242	0		0			0			0			0	
5G255	0		0			0			0			0	
5G117	0		0			0			0			0	
5G256	0		0			0			0			0	
Onbruikbare													
5G054	0		0			0			0			0	
2	0		-23		-52	-43	77	-115	-103	156	-165	-153	154
39	0	-27	-22	22	-47	-42	24	-109	-100	84	-161	-148	157
5G270	0		-1			-3			-7			-9	
5D067	0	0	0	0	-1	-1	0	-3	-2	1	-5	-2	7
45	0		0		0	-1	0	-7	-1	31	-9	-2	54
47	0		0		0	0	0	-3	0	8	-4	0	15

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PM	sept 2001	Model	Model	sept 2002	Model	Model	feb 2003	Model	Model	sept 2003	Model	Model
naam	differentie	4.24E-07	gamma	differentie	4.28E-07	gamma	differentie	4.31E-07	gamma	differentie	4.25E-07	gamma
	t.o.v.	1.972	delta	t.o.v.	1.970	delta	t.o.v.	1.970	delta	t.o.v.	1.971	delta
	NAP 1995	198.9	Zmax mm	NAP 1995	233.6	Zmax mm	NAP 1995	256.5	Zmax mm	NAP 1995	276.4	Zmax mm
	(mm)	1,952,649	Conv m3	(mm)	2,392,599	Conv m3	(mm)	2,627,227	Conv m3	(mm)	2,831,000	Conv m3
	Corrected	1.02E-07	dZ/dV	Corrected	9.76E-08	dZ/dV	Corrected	9.76E-08	dZ/dV	Corrected	9.76E-08	dZ/dV
		-20.9	-10.5%		-24.7	-10.6%		-26.9	-10.5%		-29.5	-10.7%
		RMS	4.534		RMS	3.520		RMS	2.865		RMS	3.166
		-199			-234			-257			-276	
		-199			-233			-256			-276	
		-198			-233			-256			-275	
		-197			-232			-254			-274	
GPS B12		-195			-229			-251			-271	
63	-194	-194	0	-227	-228	1	-249	-250	2	-270	-270	0
1	-195	-191	16	-228	-224	14	-249	-246	7	-271	-265	28
33	-185	-183	5	-216	-215	2	-238	-236	5	-255	-254	0
5G129	-180	-170	106	-209	-199	94	-228	-219	86	-246	-236	105
35	-162	-166	13	-192	-194	6	-212	-213	2	-227	-230	12
5G028	-164	-163	2	-191	-191	0	-211	-210	2	-226	-226	0
24	-147	-153	32	-175	-179	18	-192	-197	22	-206	-212	40
5D053	-96	-96	0	-114	-113	2	-124	-123	0	-134	-134	0
5G164	-93	-93	0	-110	-109	1	-119	-119	0	-132	-129	5
5D034	-87	-89	3	-103	-104	2	-114	-114	0	-119	-124	21
23	-72	-78	35	-87	-92	21	-96	-100	18	-108	-109	2
15	-68	-72	14	-82	-84	6	-89	-92	11	-95	-100	30
5D056	-68	-71	11	-81	-84	8	-89	-92	7	-95	-100	26
5D040	-66	-66	0	-79	-77	2	-87	-85	5	-95	-92	7
14	-62	-57	28	-72	-67	29	-77	-73	17	-84	-79	18
5D017	-48	-49	2	-57	-58	1	-60	-63	11	-68	-69	1
11	-47	-42	23	-54	-50	19	-60	-54	33	-63	-59	15
12	-45	-41	12	-53	-49	17	-57	-53	13	-62	-58	17
30	-42	-40	6	-49	-47	6	-51	-51	0	-57	-55	1
13	-42	-37	22	-48	-44	17	-52	-48	16	-56	-52	15
10	-36	-33	7	-42	-39	8	-45	-43	5	-46	-47	1
5D015	-32	-28	12	-36	-34	6	-37	-37	0	-42	-40	5
20	-25	-25	0	-30	-30	0	-33	-33	0	-33	-36	6
32	-19	-15	20	-20	-17	8	-24	-19	29	-24	-21	12
29	-15	-14	0	-19	-17	5	-18	-19	0	-18	-20	4
0A2748	-16	-14	3	-15	-17	3	-17	-18	2	-18	-20	3
5D059	-16	-14	6	-16	-16	0	-18	-17	0	-18	-19	1
22	-18	-14	20	-18	-16	4	-19	-17	3	-20	-19	1
5D057	-19	-12	49	-23	-14	78	-22	-15	43	-23	-17	31
5D074	-17	-11	28	-17	-13	11	-13	-14	2	-17	-16	1
5D012	-10	-5	24	-8	-6	4	-6	-6	0	-9	-7	3
43	-6	-5	2	-6	-6	0	-11	-6	24	-9	-7	3
5D070	-10	-4	40	-8	-4	13	-6	-5	2	-6	-5	1
42	-4	-2	4	-4	-2	3	-6	-3	12	-6	-3	12
5D082		-2			-2			-2			-2	
65	0	-1	1	7	-1	68	7	-1	70	7	-2	80
46	-7	-1	35	-5	-1	14	-2	-1	0	-1	-2	0
5G239	-1	-1	0	-1	-1	0	-2	-1	1	-2	-1	0
5G132		-1			-1			-1			-1	
5D066	-7	-1	41	-2	-1	2	1	-1	3	1	-1	3
40	-7	0	45	-1	0	0	0	0	0	0	0	0
48	-9	0	77	-7	0	45	-2	0	3	-3	0	5
5D007	-5	0	23	0	0	0	2	0	5	2	0	5
41	-7	0	47	-2	0	3	-1	0	1	0	0	0
5G063		0			0		0	0	0	0	0	0
59	-5	0	25	0	0	0	2	0	4	3	0	9
5D005	-8	0	63	-2	0	4	-1	0	1	0	0	0
5G154		0			0		0	0	0	-2	0	3
5G115		0			0		0	0	0	0	0	0
5G057		0			0		0	0	0	-2	0	3
5G230		0			0		0	0	0	0	0	0
5G232		0			0		0	0	0	0	0	0
5G243		0			0		0	0	0	0	0	0
5G065		0			0		0	0	0	-5	0	29
5G116		0			0		0	0	0	0	0	0
5G242		0			0		0	0	0	2	0	4
5G255		0			0		0	0	0	1	0	2
5G117		0			0		0	0	0	0	0	0
5G256		0			0		0	0	0	0	0	0
Onbruikbare												
5G054		0			0		0	0	0	0	0	0
2	-206	-192	204	-240	-225	220	-262	-247	219	-284	-266	307
39	-202	-187	234	-237	-219	314	-258	-241	298	-280	-260	418
5G270		-13			-16			-17		-28	-19	79
5D067	-12	-4	70	-10	-4	33	-8	-5	11	-14	-5	84
45	-16	-3	179	-15	-3	141	-14	-3	113	-18	-4	191
47	-10	0	95	-8	0	59	-4	0	13	-4	0	12

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PM naam	*sept 2004* differentie t.o.v. NAP 1995 (mm) Corrected	*Model* 4.10E-07 1.969 311.4 3,172,083 9.82E-08 -37.1 RMS -311 -311 -310 -309	*Model* gamma delta Zmax mm Conv m3 dZ/dV -11.9% 3.644	*sept 2005* differentie t.o.v. NAP 1995 (mm) Corrected	*Model* 4.08E-07 1.967 319.5 3,273,539 9.76E-08 -39.5 RMS -319 -319 -318 -317	*Model* gamma delta Zmax mm Conv m3 dZ/dV -12.4% 3.580	*sept 2006* differentie t.o.v. NAP 1995 (mm) B12 B3 2575 2575 0 -350 Corrected	*Model* 4.08E-07 1.965 324.0 3,313,229 9.78E-08 -41.7 RMS -324 -324 -323 -322	*Model* gamma delta Zmax mm Conv m3 dZ/dV -12.9% 4.741
GPS B12		-305			-313			-318	
63	-304	-304	0	-312	-312	0	-318	-317	2
1	-306	-300	41	-314	-308	42	-320	-312	60
33	-289	-287	2	-296	-295	1	-301	-300	1
5G129	-278	-268	103	-286	-275	112	-292	-280	146
35	-259	-262	7	-266	-269	10	-272	-274	5
5G028	-258	-257	1	-265	-265	0	-270	-269	0
24	-236	-242	40	-244	-250	31	-249	-254	25
5D053	-153	-156	10	-159	-162	9	-163	-166	13
5G164	-149	-151	4	-156	-157	1	-161	-161	0
5D034	-141	-145	18	-148	-151	8	-152	-155	11
23	-125	-128	11	-132	-134	2	-138	-138	0
15	-113	-119	34	-120	-124	15	-123	-128	23
5D056	-112	-118	36	-117	-123	36	-120	-127	47
5D040	-112	-110	6	-118	-114	14	-120	-118	5
14	-101	-95	36	-105	-99	31	-108	-103	27
5D017	-80	-83	10	-85	-87	5	-89	-91	4
11	-75	-72	9	-78	-76	5	-81	-79	7
12	-72	-71	1	-75	-74	0	-79	-78	2
30	-69	-68	2	-72	-71	1	-74	-74	0
13	-65	-64	1	-70	-67	6	-75	-70	19
10	-59	-58	2	-59	-61	3	-61	-64	5
5D015	-54	-50	19	-56	-53	12	-59	-55	15
20	-42	-44	6	-46	-47	1	-48	-50	4
32	-29	-26	7	-31	-28	8	-35	-30	25
29	-29	-26	6	-28	-28	0	-30	-30	0
0A2748	-25	-26	1	-27	-28	0	-28	-29	3
5D059	-25	-25	0	-29	-27	6	-29	-28	0
22	-26	-25	2	-29	-26	7	-30	-28	4
5D057	-31	-22	81	-31	-24	54	-34	-25	77
5D074	-23	-21	4	-23	-22	0	-23	-24	1
5D012	-14	-10	18	-14	-11	11	-15	-12	12
43	-12	-9	8	-15	-10	25	-18	-11	50
5D070	-14	-7	46	-13	-8	26	-15	-9	43
42	-5	-4	1	-10	-4	30	-14	-5	78
5D082	0	-3	9	1	-3	19	2	-4	33
65	4	-2	39	4	-3	43	4	-3	47
46	-8	-2	34	-9	-2	43	-14	-3	131
5G239	-1	-2	1	-3	-2	1	-7	-3	18
5G132	0	-2	4	-2	-2	0	-7	-3	16
5D066	-3	-1	3	-3	-1	3	-4	-2	5
40	-3	-1	6	-3	-1	5	-3	-1	4
48	-6	-1	30	-5	-1	19	-10	-1	89
5D007	-1	0	0	0	0	0	-2	-1	1
41	-3	0	7	-2	0	3	-5	0	20
5G063	0	0	0	-2	0	3	-4	0	16
59	-1	0	1	1	0	1	-3	0	7
5D005	-3	0	8	-2	0	4	-6	0	33
5G154	-2	0	4	-3	0	9	-4	0	13
5G115	1	0	1	-1	0	1	-4	0	17
5G057	-4	0	16	-4	0	16	-6	0	34
5G230	1	0	1	-1	0	1	-2	0	5
5G232	-1	0	1	0	0	0	2	0	4
5G243	1	0	1	-1	0	1	-4	0	14
5G065	-6	0	36	-8	0	64	-9	0	90
5G116	1	0	1	-1	0	1	-3	0	7
5G242	1	0	1	1	0	1	0	0	0
5G255	1	0	1	1	0	1	-1	0	2
5G117	0	0	0	0	0	0	0	0	0
5G256	-2	0	4	-2	0	4	-2	0	6
Onbruikbare									
5G054	-1	0	1	-2	0	4	-7	0	43
2	-319	-301	337	-327	-309	338	-333	-313	407
39	-315	-293	476	-324	-301	525	-331	-306	619
5G270	-35	-24	122	-39	-26	177	-40	-27	155
5D067	-22	-7	222	-22	-8	203	-25	-8	263
45	-27	-5	472	-29	-6	538	-37	-6	913
47	-10	-1	89	-10	-1	87	-14	-1	164

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PM naam	*sept 1995* differentie t.o.v. NAP 1995 (mm)	*sept 1997* differentie t.o.v. NAP 1995 (mm)	*mei 1998* differentie t.o.v. juli 1999 (mm)	*Model* 4.01E-07 1.980 62.1		*Model* gamma delta Zmax mm Conv m3 dZ/dV	*juli 1999* differentie t.o.v. sept 2000 (mm)	*Model* 3.97E-07 1.998 51.9 509,428 1.02E-07		*Model* gamma delta Zmax mm Conv m3 dZ/dV
				RMS		2.092		RMS		1.879
				-62	-1.000			-52	-1.000	
				-62	-0.999			-52	-0.999	
				-62	-0.996			-52	-0.996	
				-62	-0.992			-51	-0.991	
GPS B12				-61	-0.979			-51	-0.977	
63	-318			-61	-0.976		-51	-51	-0.974	0
1	-320		-65	-60	-0.961	28	-50	-50	-0.957	0
33	-301	-278	-56	-57	-0.920	1	-46	-47	-0.911	2
5G129	-292		-56	-53	-0.854	9	-45	-43	-0.838	2
35	-272	-252	-50	-52	-0.833	3	-42	-42	-0.815	0
5G028	-270		-50	-51	-0.818	1	-40	-41	-0.799	2
24	-249		-45	-48	-0.768	7	-38	-39	-0.743	0
5D053	-163		-30	-30	-0.482	0	-22	-23	-0.437	0
5G164	-161		-28	-29	-0.465	1	-22	-22	-0.419	0
5D034	-152		-25	-28	-0.446	7	-22	-21	-0.400	2
23	-138		-23	-24	-0.391	2	-18	-18	-0.343	0
15	-123		-20	-22	-0.360	6	-18	-16	-0.312	3
5D056	-120		-20	-22	-0.357	5	-16	-16	-0.310	0
5D040	-120		-20	-21	-0.330	0	-16	-15	-0.283	2
14	-108		-17	-18	-0.284	0	-13	-12	-0.237	0
5D017	-89		-14	-15	-0.246	2	-13	-10	-0.202	6
11	-81		-15	-13	-0.211	4	-7	-9	-0.169	3
12	-79		-15	-13	-0.207	5	-6	-9	-0.165	7
30	-74	-68	-12	-12	-0.197	0	-10	-8	-0.156	4
13	-75		-13	-12	-0.186	2	-5	-8	-0.146	7
10	-61		-10	-10	-0.166	0	-4	-7	-0.128	7
5D015	-59	-57	-9	-9	-0.142	0	-9	-6	-0.107	12
20	-48		-9	-8	-0.126	1	-4	-5	-0.093	1
32	-35	-33	-8	-4	-0.072	13	2	-3	-0.048	20
29	-30	-31	-6	-4	-0.071	2	-3	-2	-0.048	0
0A2748	-28			-4	-0.070			-2	-0.047	
5D059	-29		-4	-4	-0.067	0	-2	-2	-0.045	0
22	-30		-5	-4	-0.067	1	-2	-2	-0.045	0
5D057	-34		-6	-4	-0.059	5	-3	-2	-0.039	1
5D074	-23	-25	-5	-3	-0.056	1	-4	-2	-0.036	5
5D012	-15	-15	-5	-2	-0.025	12	2	-1	-0.014	7
43	-18		-5	-1	-0.023	13	4	-1	-0.013	22
5D070	-15		-1	-1	-0.018	0	-3	-1	-0.010	6
42	-14		-5	-1	-0.010	19	4	0	-0.005	18
5D082	2			0	-0.007			0	-0.003	
65	4			0	-0.005			0	-0.002	
46	-14		-3	0	-0.005	7	0	0	-0.002	0
5G239	-7			0	-0.005			0	-0.002	
5G132	-7			0	-0.005			0	-0.002	
5D066	-4		2	0	-0.003	5	-1	0	-0.001	1
40	-3		0	0	-0.001	0	-1	0	0.000	1
48	-10		-2	0	-0.001	4	-1	0	0.000	1
5D007	-2		2	0	-0.001	4	0	0	0.000	0
41	-5		0	0	-0.001	0	-1	0	0.000	1
5G063	-4			0	0.000			0	0.000	
59	-3			0	0.000		0	0	0.000	0
5D005	-6		-1	0	0.000	1	0	0	0.000	0
5G154	-4			0	0.000			0	0.000	
5G115	-4			0	0.000			0	0.000	
5G057	-6			0	0.000			0	0.000	
5G230	-2			0	0.000			0	0.000	
5G232	2			0	0.000			0	0.000	
5G243	-4			0	0.000			0	0.000	
5G065	-9			0	0.000			0	0.000	
5G116	-3			0	0.000			0	0.000	
5G242	0			0	0.000			0	0.000	
5G255	-1			0	0.000			0	0.000	
5G117	0			0	0.000			0	0.000	
5G256	-2			0	0.000			0	0.000	
Onbruikbare										
5G054	-7			0	0.000			0	0.000	
2	-333		-63	-60		10	-50	-50		0
39	-331	-304	-62	-58		13	-52	-48		13
5G270	-40			-4				-2		
5D067	-25	-25	-2	-1		1	-2	0		2
45	-37		-7	-1		39	-2	0		3
47	-14		-3	0	-0.001	9	-1	0	0.000	1

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PM naam	*sept 2000* differentie t.o.v. sept 2001 (mm)	*Model* 3.67E-07 1.956 39.4 436,652 9.03E-08		*Model* gamma delta Zmax mm Conv m3 dZ/dV	*sept 2001* differentie t.o.v. sept 2002 (mm)	*Model* 3.40E-07 2.000 34.6 439,950 7.87E-08		*Model* gamma delta Zmax mm Conv m3 dZ/dV	*sept 2002* differentie t.o.v. feb 2003 (mm)	*Model* 3.10E-07 2.030 23.2 234,628 9.90E-08		*Model* gamma delta Zmax mm Conv m3 dZ/dV
		RMS		3.224		RMS		2.621		RMS		1.897
		-39	-1.000			-35	-1.000			-23	-1.000	
		-39	-0.999			-35	-0.999			-23	-0.999	
		-39	-0.997			-35	-0.997			-23	-0.996	
		-39	-0.993			-34	-0.992			-23	-0.992	
GPS B12		-39	-0.983			-34	-0.980			-23	-0.979	
63	-41	-39	-0.981	5	-33	-34	-0.977	1	-22	-23	-0.976	0
1	-40	-38	-0.968	3	-33	-33	-0.962	0	-21	-22	-0.959	2
33	-39	-37	-0.936	4	-31	-32	-0.923	1	-22	-21	-0.915	1
5G129	-37	-35	-0.883	5	-29	-30	-0.858	1	-19	-20	-0.844	0
35	-33	-34	-0.866	1	-30	-29	-0.837	1	-20	-19	-0.821	1
5G028	-35	-34	-0.855	2	-27	-29	-0.823	2	-20	-19	-0.805	2
24	-31	-32	-0.814	1	-28	-27	-0.773	1	-17	-17	-0.750	0
5D053	-20	-22	-0.569	6	-18	-17	-0.487	1	-10	-10	-0.442	0
5G164	-21	-22	-0.554	1	-17	-16	-0.469	1	-9	-10	-0.424	1
5D034	-20	-21	-0.537	1	-16	-16	-0.451	0	-11	-9	-0.404	3
23	-16	-19	-0.485	10	-15	-14	-0.395	2		-8	-0.347	
15	-14	-18	-0.456	16	-14	-13	-0.364	2	-7	-7	-0.316	0
5D056	-15	-18	-0.453	8	-13	-13	-0.361	0	-8	-7	-0.313	1
5D040	-15	-17	-0.427	3	-13	-12	-0.334	2	-8	-7	-0.285	2
14	-14	-15	-0.381	1	-10	-10	-0.287	0	-5	-6	-0.239	0
5D017	-10	-13	-0.342	12	-9	-9	-0.249	0	-3	-5	-0.203	3
11	-13	-12	-0.304	1	-7	-7	-0.213	0	-6	-4	-0.169	4
12	-11	-12	-0.300	1	-8	-7	-0.209	1	-4	-4	-0.166	0
30	-10	-11	-0.289	2	-7	-7	-0.199	0	-2	-4	-0.157	3
13	-11	-11	-0.277	0	-6	-7	-0.188	0	-4	-3	-0.146	0
10	-11	-10	-0.254	1	-6	-6	-0.167	0	-3	-3	-0.128	0
5D015	-10	-9	-0.225	1	-4	-5	-0.143	1	-1	-2	-0.106	2
20	-7	-8	-0.206	1	-5	-4	-0.127	0	-3	-2	-0.092	1
32	-7	-5	-0.135	3	-1	-2	-0.072	2	-4	-1	-0.048	8
29	-6	-5	-0.134	1	-4	-2	-0.071	3	1	-1	-0.047	6
0A2748	-7	-5	-0.133	3	1	-2	-0.071	12	-2	-1	-0.047	1
5D059	-6	-5	-0.129	1	0	-2	-0.067	5	-2	-1	-0.044	1
22	-6	-5	-0.128	1	0	-2	-0.067	5	-1	-1	-0.044	0
5D057	-7	-5	-0.117	6	-4	-2	-0.059	4	1	-1	-0.038	4
5D074	-9	-4	-0.111	22	0	-2	-0.055	3	3	-1	-0.035	18
5D012	-5	-2	-0.061	7	2	-1	-0.024	8	2	0	-0.013	5
43	-5	-2	-0.058	7	0	-1	-0.023	1	-5	0	-0.012	22
5D070	-6	-2	-0.048	17	2	-1	-0.018	7	2	0	-0.009	5
42	-3	-1	-0.030	3	0	0	-0.009	0	-2	0	-0.004	4
5D082		-1	-0.024			0	-0.007			0	-0.003	
65		-1	-0.019		7	0	-0.005	51	0	0	-0.002	0
46	-4	-1	-0.018	11	2	0	-0.005	5	3	0	-0.002	9
5G239	-2	-1	-0.017	2	0	0	-0.004	0	-1	0	-0.002	1
5G132		-1	-0.017			0	-0.004			0	-0.002	
5D066	-8	0	-0.012	57	5	0	-0.003	26	3	0	-0.001	9
40	-6	0	-0.007	33	6	0	-0.001	37	1	0	0.000	1
48	-6	0	-0.006	33	2	0	-0.001	4	5	0	0.000	25
5D007	-7	0	-0.005	47	5	0	-0.001	25	2	0	0.000	4
41	-6	0	-0.004	34	5	0	-0.001	25	1	0	0.000	1
5G063		0	-0.003			0	0.000			0	0.000	
59	-5	0	-0.002	24	5	0	0.000	25	2	0	0.000	4
5D005	-7	0	-0.002	48	6	0	0.000	36	1	0	0.000	1
5G154		0	-0.001			0	0.000			0	0.000	
5G115		0	0.000			0	0.000			0	0.000	
5G057		0	0.000			0	0.000			0	0.000	
5G230		0	0.000			0	0.000			0	0.000	
5G232		0	0.000			0	0.000			0	0.000	
5G243		0	0.000			0	0.000			0	0.000	
5G065		0	0.000			0	0.000			0	0.000	
5G116		0	0.000			0	0.000			0	0.000	
5G242		0	0.000			0	0.000			0	0.000	
5G255		0	0.000			0	0.000			0	0.000	
5G117		0	0.000			0	0.000			0	0.000	
5G256		0	0.000			0	0.000			0	0.000	
Onbruikbare												
5G054		0	0.000			0	0.000			0	0.000	
2	-41	-38		7	-34	-33		0	-22	-22		0
39	-41	-38		12	-35	-33		6	-21	-22		1
5G270		-5				-2				-1		
5D067	-7	-2		26	2	-1		7	2	0		5
45	-7	-1		31	1	0		2	1	0		1
47	-6	0	-0.006	33	2	0	-0.001	4	4	0	0.000	16

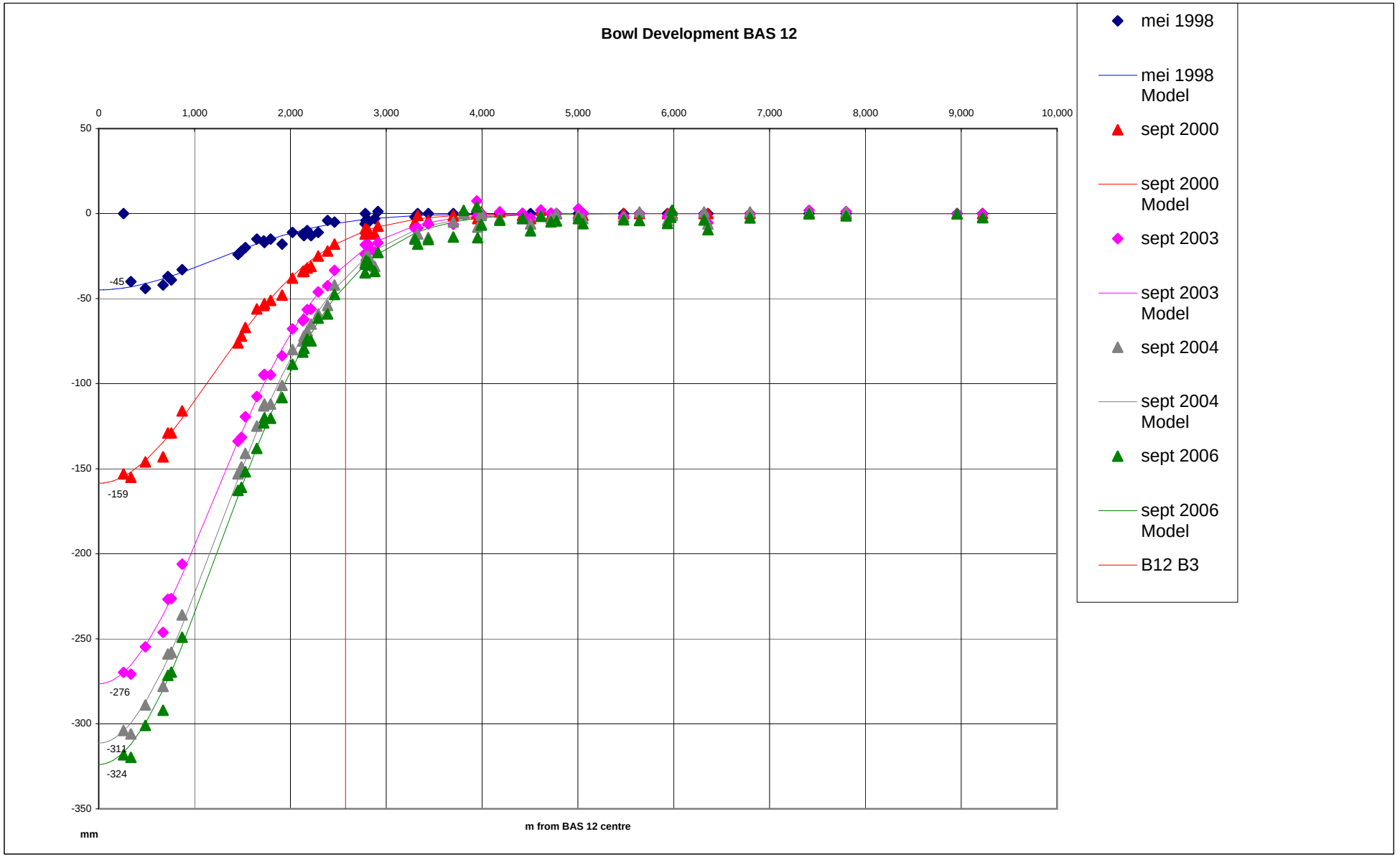
BAS12 komanalyse 59 PM 1995

PM naam	*feb 2003* differentie t.o.v. sept 2003 (mm)	*Model* 2.70E-07 2.028 19.9 203,773 9.78E-08 RMS		*Model* gamma delta Zmax mm Conv m3 dZ/dV 1.698		*sept 2003* differentie t.o.v. sept 2004 (mm)	*Model* 2.30E-07 1.991 34.6 341,083 1.01E-07 RMS		*Model* gamma delta Zmax mm Conv m3 dZ/dV 2.132		*sept 2004* differentie t.o.v. sept 2005 (mm)	*Model* 1.50E-07 2.023 8.5 101,456 8.40E-08 RMS		*Model* gamma delta Zmax mm Conv m3 dZ/dV 1.446	
		-20	-1.000				-35	-1.000				-9	-1.000		
		-20	-0.999				-35	-0.999				-9	-1.000		
		-20	-0.997				-34	-0.998				-9	-0.998		
		-20	-0.993				-34	-0.995				-8	-0.996		
GPS B12		-20	-0.982				-34	-0.987				-8	-0.990		
63	-21	-20	-0.979	1		-34	-34	-0.985	0		-8	-8	-0.989	0	
1	-22	-19	-0.965	7		-35	-34	-0.976	2		-8	-8	-0.981	0	
33	-17	-18	-0.927	3		-34	-33	-0.950	2		-7	-8	-0.960	1	
5G129	-18	-17	-0.864	1		-32	-31	-0.907	0		-8	-8	-0.924	0	
35	-15	-17	-0.844	4		-32	-31	-0.893	2		-7	-8	-0.913	1	
5G028	-15	-17	-0.830	1		-32	-31	-0.884	1		-7	-8	-0.904	1	
24	-14	-16	-0.782	2		-30	-29	-0.849	0		-8	-7	-0.876	0	
5D053	-10	-10	-0.497	0		-19	-22	-0.635	8		-6	-6	-0.687	0	
5G164	-13	-10	-0.480	9		-18	-21	-0.621	16		-7	-6	-0.674	2	
5D034	-5	-9	-0.461	14		-22	-21	-0.605	0		-7	-6	-0.659	2	
23	-12	-8	-0.405	12		-18	-19	-0.557	3		-7	-5	-0.615	3	
15	-6	-7	-0.373	2		-18	-18	-0.529	0		-7	-5	-0.589	4	
5D056	-6	-7	-0.370	3		-17	-18	-0.527	1		-5	-5	-0.586	0	
5D040	-8	-7	-0.343	1		-17	-17	-0.501	0		-6	-5	-0.562	1	
14	-7	-6	-0.295	1		-17	-16	-0.456	3		-4	-4	-0.519	0	
5D017	-8	-5	-0.256	7		-12	-14	-0.417	5		-5	-4	-0.481	1	
11	-3	-4	-0.219	2		-12	-13	-0.379	1		-3	-4	-0.443	1	
12	-5	-4	-0.216	1		-10	-13	-0.374	10		-3	-4	-0.438	1	
30	-6	-4	-0.205	2		-12	-13	-0.363	0		-3	-4	-0.427	0	
13	-4	-4	-0.194	0		-9	-12	-0.350	11		-5	-4	-0.414	2	
10	-1	-3	-0.173	5		-13	-11	-0.326	3		0	-3	-0.389	11	
5D015	-5	-3	-0.147	6		-12	-10	-0.295	2		-2	-3	-0.358	1	
20	0	-3	-0.131	5		-9	-9	-0.274	1		-4	-3	-0.336	1	
32	0	-1	-0.074	2		-5	-7	-0.192	2		-2	-2	-0.248	0	
29	0	-1	-0.074	1		-10	-7	-0.191	13		1	-2	-0.247	9	
0A2748	-1	-1	-0.073	0		-7	-7	-0.190	0		-2	-2	-0.245	0	
5D059	0	-1	-0.069	1		-7	-6	-0.185	0		-4	-2	-0.239	4	
22	-1	-1	-0.069	0		-6	-6	-0.184	0		-3	-2	-0.239	1	
5D057	-1	-1	-0.061	0		-8	-6	-0.171	6		0	-2	-0.223	4	
5D074	-4	-1	-0.057	8		-6	-6	-0.164	0		0	-2	-0.215	3	
5D012	-3	-1	-0.025	5		-5	-3	-0.098	3		0	-1	-0.139	1	
43	2	0	-0.023	9		-3	-3	-0.094	0		-3	-1	-0.134	3	
5D070	0	0	-0.018	0		-8	-3	-0.080	27		1	-1	-0.117	4	
42	0	0	-0.010	0		1	-2	-0.054	10		-5	-1	-0.083	18	
5D082		0	-0.007				-2	-0.046			1	-1	-0.071	3	
65	0	0	-0.005	0		-3	-1	-0.036	5		0	0	-0.059	0	
46	1	0	-0.005	1		-7	-1	-0.036	34		-1	0	-0.058	0	
5G239	0	0	-0.004	0		1	-1	-0.034	4		-2	0	-0.055	2	
5G132		0	-0.004				-1	-0.034			-2	0	-0.055	2	
5D066	0	0	-0.003	0		-4	-1	-0.024	10		0	0	-0.041	0	
40	0	0	-0.001	0		-3	-1	-0.016	7		0	0	-0.028	0	
48	-1	0	-0.001	0		-3	0	-0.013	9		1	0	-0.024	1	
5D007	0	0	-0.001	0		-3	0	-0.011	7		1	0	-0.020	1	
41	1	0	0.000	2		-3	0	-0.009	9		1	0	-0.017	1	
5G063	0	0	0.000	0		0	0	-0.008	0		-2	0	-0.015	3	
59	1	0	0.000	1		-4	0	-0.005	14		2	0	-0.010	4	
5D005	1	0	0.000	2		-3	0	-0.004	10		1	0	-0.009	1	
5G154	-2	0	0.000	3		0	0	-0.002	0		-1	0	-0.004	1	
5G115	0	0	0.000	0		1	0	-0.001	1		-2	0	-0.003	4	
5G057	-2	0	0.000	3		-2	0	-0.001	6		0	0	-0.002	0	
5G230	0	0	0.000	0		1	0	-0.001	1		-2	0	-0.001	4	
5G232	0	0	0.000	0		-1	0	-0.001	2		1	0	-0.001	1	
5G243	0	0	0.000	0		1	0	0.000	2		-2	0	-0.001	4	
5G065	-5	0	0.000	29		-1	0	0.000	0		-2	0	-0.001	4	
5G116	0	0	0.000	0		1	0	0.000	1		-2	0	0.000	4	
5G242	2	0	0.000	4		-1	0	0.000	1		0	0	0.000	0	
5G255	1	0	0.000	2		0	0	0.000	0		0	0	0.000	0	
5G117	0	0	0.000	0		0	0	0.000	0		0	0	0.000	0	
5G256	0	0	0.000	0		-2	0	0.000	3		0	0	0.000	0	
											0				
Onbruikbare											0				
5G054	0	0	0.000	0		-1	0	-0.001	1		-1	0	-0.002	1	
2	-22	-19		7		-35	-34		1		-8	-8		0	
39	-22	-19		10		-35	-33		3		-9	-8		1	
5G270		-1				-8	-6		2		-4	-2		4	
5D067	-6	0		35		-8	-3		25		0	-1		1	
45	-4	0		11		-9	-2		51		-2	-1		1	
47	0	0	-0.001	0		-6	-1	-0.015	31		0	0	-0.026	0	

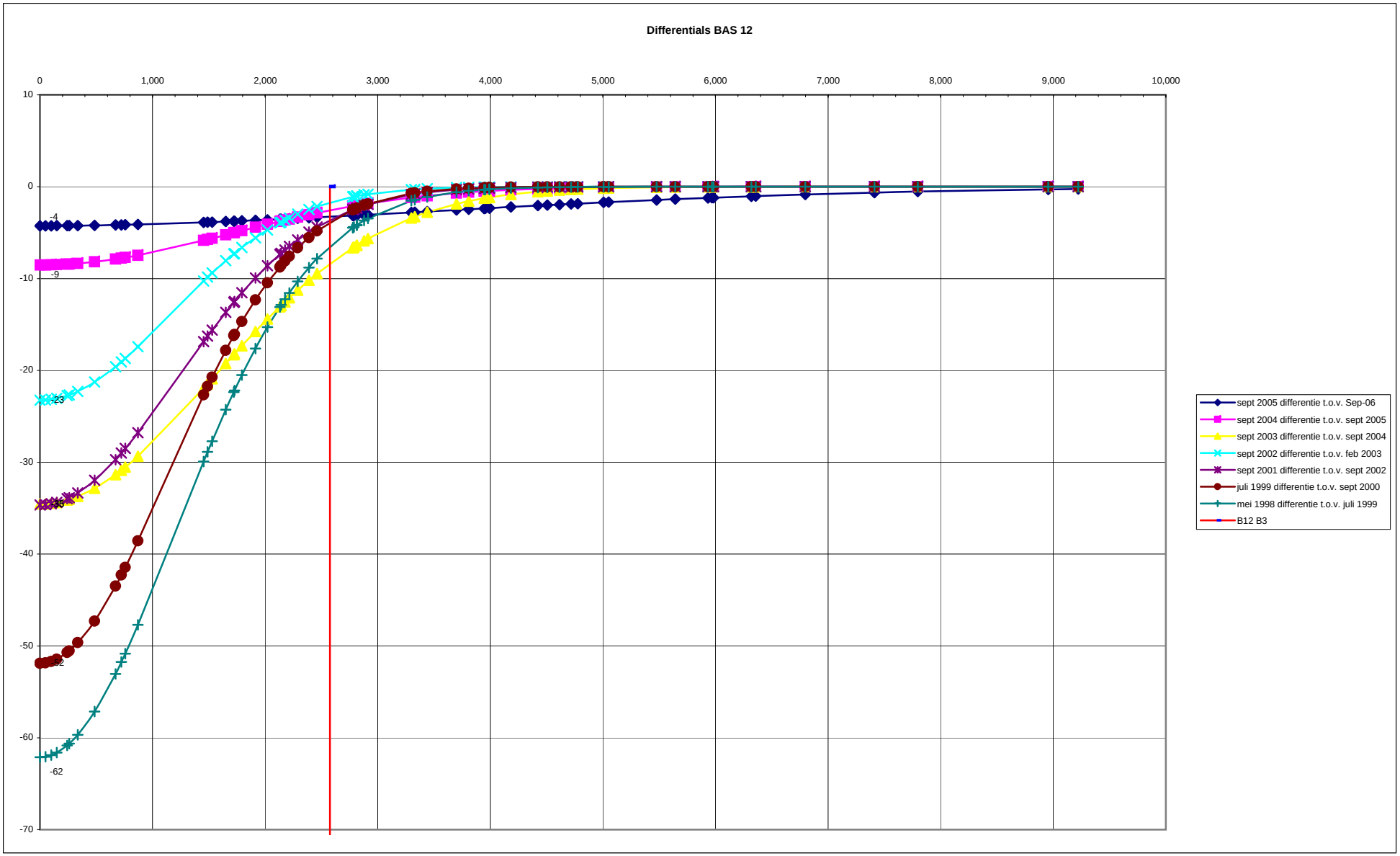
BAS12 komanalyse 59 PM 1995

PM naam	*sept 2005* differentie t.o.v. Sep-06 (mm)	*Model* 1.10E-07 1.870 4.3 39,690 1.07E-07 RMS		*Model* gamma delta Zmax mm Conv m3 dZ/dV 1.622
		-4	-1.000	
		-4	-1.000	
		-4	-0.999	
		-4	-0.999	
GPS B12		-4	-0.997	
63	-6	-4	-0.996	4
1	-6	-4	-0.994	2
33	-5	-4	-0.988	1
5G129	-6	-4	-0.979	4
35	-6	-4	-0.976	2
5G028	-5	-4	-0.974	0
24	-5	-4	-0.966	1
5D053	-4	-4	-0.914	0
5G164	-5	-4	-0.910	1
5D034	-4	-4	-0.905	0
23	-6	-4	-0.892	5
15	-3	-4	-0.883	1
5D056	-3	-4	-0.883	0
5D040	-2	-4	-0.875	2
14	-3	-4	-0.860	0
5D017	-4	-4	-0.846	0
11	-3	-4	-0.831	0
12	-4	-4	-0.830	0
30	-2	-4	-0.825	3
13	-5	-3	-0.820	2
10	-2	-3	-0.810	1
5D015	-3	-3	-0.795	0
20	-2	-3	-0.785	3
32	-4	-3	-0.738	1
29	-2	-3	-0.738	2
0A2748	-1	-3	-0.737	6
5D059	1	-3	-0.733	13
22	-1	-3	-0.733	4
5D057	-3	-3	-0.723	0
5D074	0	-3	-0.718	10
5D012	-1	-3	-0.658	3
43	-3	-3	-0.653	0
5D070	-2	-3	-0.636	0
42	-4	-3	-0.595	2
5D082	1	-2	-0.579	12
65	0	-2	-0.557	6
46	-5	-2	-0.556	8
5G239	-4	-2	-0.550	2
5G132	-5	-2	-0.550	5
5D066	-1	-2	-0.521	2
40	0	-2	-0.485	5
48	-5	-2	-0.473	10
5D007	-2	-2	-0.457	0
41	-3	-2	-0.442	1
5G063	-2	-2	-0.433	0
59	-4	-2	-0.402	5
5D005	-4	-2	-0.395	5
5G154	-1	-1	-0.340	1
5G115	-3	-1	-0.319	3
5G057	-2	-1	-0.285	0
5G230	-1	-1	-0.281	0
5G232	2	-1	-0.280	10
5G243	-3	-1	-0.244	3
5G065	-2	-1	-0.240	0
5G116	-2	-1	-0.199	1
5G242	-1	-1	-0.149	0
5G255	-2	-1	-0.124	4
5G117	0	0	-0.067	0
5G256	0	0	-0.057	0
	0			
Onbruikbare	0			
5G054	-5	-1	-0.307	11
2	-6	-4		4
39	-7	-4		5
5G270	-1	-3		5
5D067	-3	-3		0
45	-8	-3		25
47	-4	-2	-0.480	2

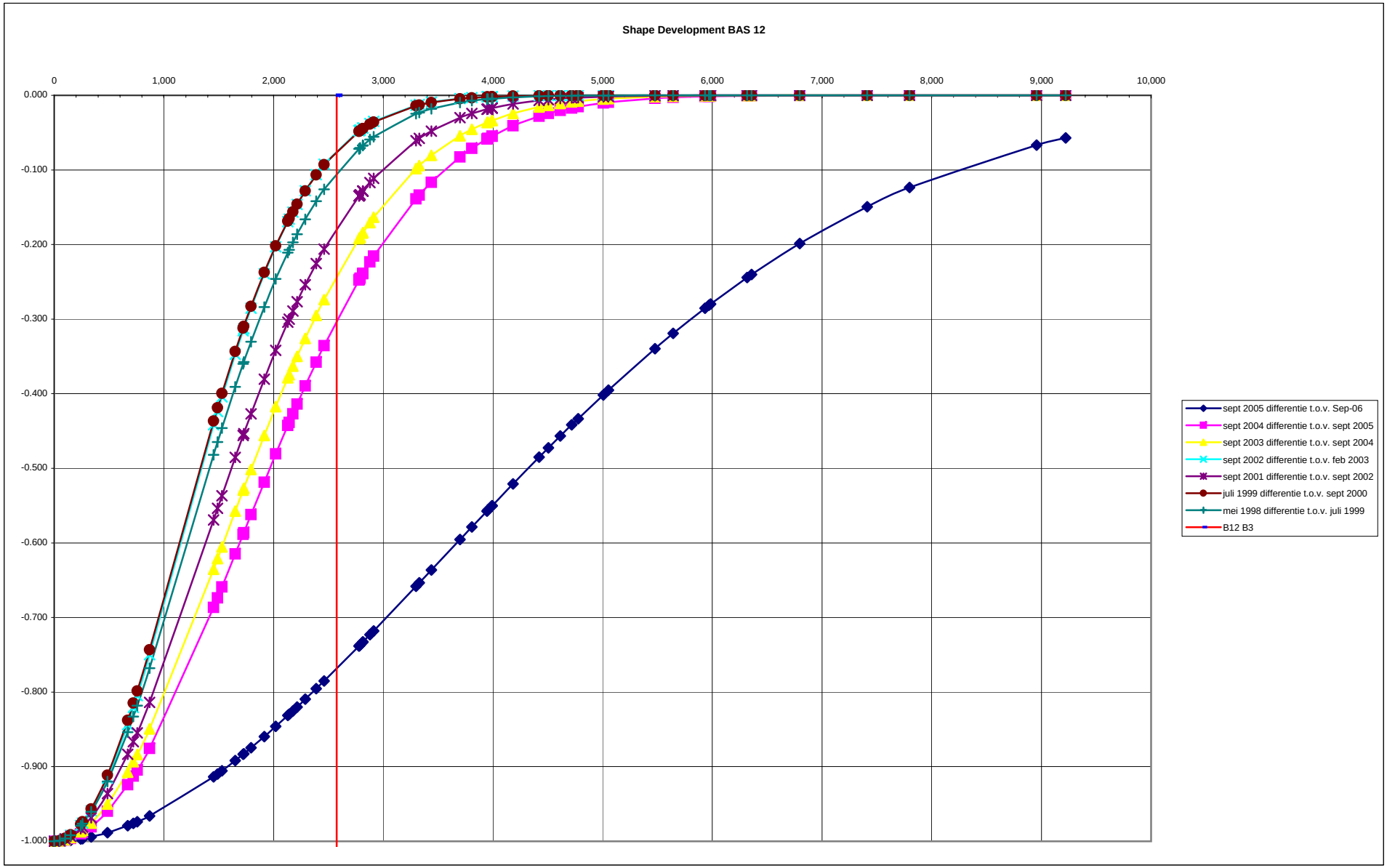
BAS12 komanalyse 59 PM 1995 Chart 1



BAS12 komanalyse 59 PM 1995 Chart 2



BAS12 komanalyse 59 PM 1995 Chart 3



BAS3 komanalyse 61 PM Sept 2003

PM naam		*PM* N (m)	*PM* O (m)	*Afstand* B12 kom Centrum 160,774 580,040 (m)	*Afstand* B3 kom Centrum 163,068 581,210 2575	*Nulmeting* Maand/ jaar nul- meting	Hoogte nulmeting t.o.v. NAP (m)	*Correctie* Nulmeting tov situatie 1995 NAP m
				0	0			
				50	50			
				150	75			
				250	100			
				600	125			
				400	200			
53		163,260	581,310	2,791	216	May-98	-0.071	-0.002
72		163,330	581,006	2,732	332	Sep-02	-0.049	-0.025
71		162,870	580,710	2,200	538	Sep-02	0.629	-0.050
73		163,090	581,828	2,925	618	Sep-02	0.581	-0.017
5G187		162,640	580,700	1,979	666	Sep-95	0.503	0.000
74		163,690	581,591	3,302	729	Sep-02	-0.153	-0.001
51		163,830	581,106	3,236	769	May-98	-0.709	0.000
9		162,260	580,909	1,721	862	Sep-95	0.950	0.000
67		163,770	581,912	3,532	993	Sep-02	0.882	0.000
68		163,770	581,930	3,542	1,005	Sep-02	0.617	0.000
50		164,190	581,298	3,640	1,125	May-98	0.775	0.000
5G049		162,980	582,340	3,186	1,133	May-98	0.888	0.000
5G228		161,900	580,920	1,429	1,204	Sep-95	0.602	0.000
5G160		164,400	581,490	3,905	1,361	May-98	1.045	0.000
5G189		161,780	581,720	1,958	1,386	Sep-95	1.056	0.000
66		164,530	581,337	3,973	1,467	Sep-02	0.606	0.000
55		162,740	582,686	3,296	1,512	May-98	-0.555	0.000
49		164,160	582,264	4,051	1,517	May-98	-0.752	0.000
5G040		161,500	581,380	1,524	1,577	Sep-95	3.002	0.000
5G039		161,420	581,520	1,614	1,677	Sep-95	1.177	0.000
5G161		164,240	582,570	4,291	1,795	May-98	1.180	0.000
5G052		163,260	583,040	3,896	1,840	May-98	2.234	0.000
5G113		165,080	581,060	4,425	2,017	Feb-03	0.608	0.000
16		161,000	581,252	1,233	2,069	Sep-95	0.672	0.000
5G231		164,050	583,150	4,517	2,174	May-98	1.303	0.000
5G038		160,900	581,000	968	2,178	Sep-95	4.101	0.000
5G274		162,380	583,300	3,634	2,200	Sep-04	1.607	0.000
56		160,780	581,620	1,580	2,325	May-98	1.204	-0.017
17		160,700	581,821	1,782	2,446	Sep-95	1.339	0.000
5G155		162,920	583,720	4,260	2,514	Feb-03	1.216	0.000
5G032		165,380	580,210	4,609	2,519	Feb-03	1.025	0.000
5G267		162,930	583,750	4,291	2,544	Sep-03	1.241	0.000
36		160,510	580,293	366	2,718	Sep-97	0.221	-0.028
5G129		160,390	580,590	671	2,749	Sep-95	0.768	0.000
63		160,580	579,869	259	2,827	Jul-99	1.228	-0.109
43		161,170	583,346	3,329	2,858	May-98	1.614	0.000
5G164		160,190	581,410	1,489	2,885	Sep-95	1.497	0.000
32		160,660	582,817	2,779	2,895	Sep-97	-0.023	-0.002
5G132		161,900	583,870	3,992	2,905	May-98	0.920	0.000
42		161,430	583,682	3,700	2,966	May-98	1.441	0.000
33		160,400	579,730	486	3,051	Sep-97	-0.391	-0.023
5G115		165,360	583,330	5,644	3,122	Feb-03	1.384	0.000
5G252		166,070	580,270	5,301	3,145	Feb-03	2.671	0.000
13		160,060	582,137	2,215	3,148	Sep-95	1.352	0.000
35		160,330	579,471	722	3,244	Sep-97	-0.205	-0.020
24		160,360	579,276	869	3,328	Sep-95	-0.526	0.000
5G154		164,010	584,460	5,478	3,384	Feb-03	2.041	0.000
5G230		165,680	583,440	5,969	3,434	Feb-03	1.650	0.000
5G034		166,460	580,500	5,704	3,465	Feb-03	1.302	0.000
5D053		159,610	580,910	1,453	3,471	Sep-95	1.845	0.000
5G057		165,230	583,960	5,934	3,498	Feb-03	1.895	0.000
12		159,310	581,604	2,142	3,779	Sep-95	1.435	0.000
5G243		165,980	583,620	6,318	3,780	Feb-03	1.542	0.000
5G232		164,400	584,800	5,983	3,829	Feb-03	1.141	0.000
5G248		166,880	580,750	6,147	3,839	Feb-03	0.655	0.000
5G249		166,880	580,430	6,118	3,891	Feb-03	1.015	0.000
23		160,110	578,529	1,651	3,992	Sep-95	0.096	0.000
5D040		159,760	578,560	1,794	4,239	Sep-95	0.530	0.000
5G116		166,450	583,780	6,797	4,247	Feb-03	1.769	0.000
5G242		166,930	584,170	7,413	4,866	Feb-03	2.036	0.000
5G117		168,380	584,770	8,956	6,394	Feb-03	1.526	0.000
Onbruikbare punten								
5G063		163,340	584,070	4,777	2,873	Feb-03	1.805	0.000
5G065		164,800	584,960	6,357	4,131	Feb-03	0.820	0.000
54		163,040	582,091	3,056	881	May-98	0.779	0.000
D11		161,880	583,963	4,076	2,998	Sep-00	9.495	0.000
5G028		160,020	580,100	757	3,244	Sep-95	1.391	0.000
5G221		162,390	582,400	2,860	1,370	May-98	-0.029	0.000
5G053		164,500	583,250	4,918	2,492	Feb-03	2.064	0.000
5G054		165,440	583,400	5,749	3,228	Feb-03	3.786	0.000

BAS3 komanalyse 61 PM Sept 2003

PM naam	*sept 1995* Hoogte t.o.v. NAP (m)	*sept 1997* Hoogte t.o.v. NAP (m)	*mei 1998* Hoogte t.o.v. NAP (m)	*juli 1999* Hoogte t.o.v. NAP (m)	*sept 2000* Hoogte t.o.v. NAP (m)	*sept 2001* Hoogte t.o.v. NAP (m)	*sept 2002* Hoogte t.o.v. NAP (m)	*feb 2003* Hoogte t.o.v. NAP (m)	*sept 2003* Hoogte t.o.v. NAP (m)	*sept 2004* Hoogte t.o.v. NAP (m)	*sept 2005* Hoogte t.o.v. NAP (m)	*sept 2006* Hoogte t.o.v. NAP (m)
53	-0.069		-0.071	-0.079	-0.081	-0.085	-0.087	-0.091	-0.094	-0.102	-0.123	-0.156
72	-0.024						-0.049	-0.054	-0.057	-0.064	-0.085	-0.118
71	0.679						0.629	0.623	0.615	0.605	0.580	0.547
73	0.598						0.581	0.580	0.578	0.571	0.555	0.527
5G187	0.503		0.493	0.480	0.469	0.458	0.451	0.444	0.439	0.424	0.401	0.369
74	-0.152						-0.153	-0.155	-0.158	-0.160	-0.174	-0.200
51	-0.709		-0.709	-0.713	-0.713	-0.714	-0.715	-0.716	-0.718	-0.720	-0.734	-0.759
9	0.950		0.938	0.918	0.901	0.885	0.874	0.865	0.853	0.836	0.815	0.787
67	0.882						0.882	0.882	0.880	0.876	0.867	0.847
68	0.617						0.617	0.618	0.613	0.611	0.601	0.581
50	0.775		0.775	0.772	0.772	0.772	0.772	0.771	0.770	0.769	0.761	0.744
5G049	0.888		0.888	0.882	0.883	0.881	0.879	0.880	0.877	0.875	0.864	0.845
5G228	0.602		0.581	0.553	0.528	0.506	0.488	0.475	0.463	0.440	0.424	0.404
5G160	1.045		1.045	1.039	1.036	1.038	1.038	1.038	1.029	1.031	1.021	1.009
5G189	1.056		1.044	1.029	1.017	1.005	0.995	0.989	0.984	0.968	0.957	0.940
66	0.606						0.606	0.606	0.603	0.603	0.597	0.585
55	-0.555		-0.555	-0.556	-0.558	-0.561	-0.563	-0.563	-0.563	-0.569	-0.574	-0.586
49	-0.752		-0.752	-0.753	-0.754	-0.753	-0.753	-0.754	-0.754	-0.755	-0.758	-0.768
5G040	3.002		2.983	2.957	2.935	2.916	2.899	2.889	2.880	2.857	2.846	2.834
5G039	1.177		1.160	1.137	1.118	1.100	1.086	1.076	1.068	1.046	1.038	1.025
5G161	1.180		1.180	1.179	1.178	1.178	1.179	1.179	1.179	1.177	1.175	1.166
5G052	2.234		2.234	2.232	2.234	2.232	2.231	2.231	2.231	2.229	2.227	2.220
5G113	0.608							0.608	0.608	0.610	0.605	0.598
16	0.672		0.646	0.611	0.582	0.556	0.535	0.521	0.509	0.483	0.476	0.466
5G231	1.303		1.303	1.303	1.303	1.303	1.303	1.303	1.303	1.301	1.301	1.296
5G038	4.101		4.071	4.027	3.990	3.960	3.934	3.919	3.905	3.875	3.867	3.858
5G274	1.607									1.607	1.602	1.597
56	1.221		1.204	1.180	1.162	1.142	1.129	1.118	1.110	1.089	1.084	1.078
17	1.339		1.323			1.274	1.262	1.255	1.246	1.233	1.225	1.219
5G155	1.216							1.216	1.213	1.214	1.212	1.207
5G032	1.025							1.025	1.024	1.027	1.022	1.018
5G267	1.241								1.241	1.242	1.240	1.236
36	0.249	0.221	0.200	0.140	0.091	0.050	0.018	-0.002	-0.023	-0.057	-0.064	-0.070
5G129	0.768		0.726	0.670	0.625	0.588	0.559	0.540	0.522	0.490	0.482	0.476
63	1.337			1.228	1.177	1.136	1.103	1.081	1.060	1.026	1.018	1.012
43	1.614		1.614	1.609	1.613	1.608	1.608	1.603	1.606	1.602	1.599	1.596
5G164	1.497		1.475	1.447	1.425	1.404	1.387	1.378	1.366	1.348	1.341	1.336
32	-0.021	-0.023	-0.027	-0.035	-0.033	-0.040	-0.041	-0.045	-0.045	-0.050	-0.052	-0.056
5G132	0.920		0.920		0.921	0.919	0.919	0.918	0.918	0.919	0.917	0.913
42	1.441		1.441	1.436	1.440	1.437	1.437	1.435	1.435	1.436	1.431	1.427
33	-0.368	-0.391	-0.412	-0.468	-0.514	-0.553	-0.584	-0.606	-0.623	-0.657	-0.664	-0.669
5G115	1.384							1.384	1.384	1.385	1.383	1.380
5G252	2.671							2.671	2.672	2.674	2.671	2.667
13	1.352		1.339	1.326	1.321	1.310	1.304	1.300	1.296	1.287	1.282	1.277
35	-0.185	-0.205	-0.222	-0.272	-0.314	-0.347	-0.377	-0.397	-0.412	-0.444	-0.451	-0.457
24	-0.526		-0.559	-0.604	-0.642	-0.673	-0.701	-0.718	-0.732	-0.762	-0.770	-0.775
5G154	2.041							2.041	2.039	2.039	2.038	2.037
5G230	1.650							1.650	1.650	1.651	1.649	1.648
5G034	1.302							1.302	1.301	1.304	1.301	1.298
5D053	1.845		1.821	1.791	1.769	1.749	1.731	1.721	1.711	1.692	1.686	1.682
5G057	1.895							1.895	1.893	1.891	1.891	1.889
12	1.435		1.422	1.407	1.401	1.390	1.382	1.378	1.373	1.363	1.360	1.356
5G243	1.542							1.542	1.542	1.543	1.541	1.538
5G232	1.141							1.141	1.141	1.140	1.141	1.143
5G248	0.655							0.655	0.654	0.657	0.653	0.650
5G249	1.015							1.015	1.013	1.017	1.013	1.009
23	0.096		0.081	0.058	0.040	0.024	0.009	0.000	-0.012	-0.029	-0.036	-0.042
5D040	0.530		0.515	0.495	0.479	0.464	0.451	0.443	0.435	0.418	0.412	0.410
5G116	1.769							1.769	1.769	1.770	1.768	1.766
5G242	2.036							2.036	2.038	2.037	2.037	2.036
5G117	1.526							1.526	1.526	1.526	1.526	1.526
Onbruikbare												
5G063	1.805							1.805	1.805	1.805	1.803	1.801
5G065	0.820							0.820	0.815	0.814	0.812	0.811
54	0.779		0.779	0.774	0.774	0.754	0.752	0.752	0.749	0.746	0.732	0.711
D11	9.495				9.495	9.495	9.491	9.488	9.485	9.485	9.482	9.477
5G028	1.391		1.352	1.302	1.262	1.227	1.200	1.180	1.165	1.133	1.126	1.121
5G221	-0.029		-0.029	-0.034	-0.037	-0.044	-0.047	-0.049	-0.049	-0.057	-0.067	-0.084
5G053	2.064							2.064	2.063	2.061	2.060	2.055
5G054	3.786							3.786	3.786	3.785	3.784	3.779

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PM naam	*sept 2003* differentie t.o.v. NAP 1995 (mm) Corrected	*Model* 4.25E-07 1.971 276.4 2,831,000 9.76E-08 RMS	*sept 2003* differentie nulmeting 2003 t.o.v. NAP 1995 (mm) minus BAS 12 kom	*sept 2004* differentie t.o.v. NAP 1995 (mm) Corrected	*Model* 4.10E-07 1.969 311.4 3,172,083 9.82E-08 RMS	*sept 2005* differentie t.o.v. NAP 1995 (mm) Corrected	*Model* 4.08E-07 1.967 319.5 3,273,539 9.76E-08 RMS	*sept 2006* differentie t.o.v. NAP 1995 (mm) Corrected	*Model* 4.08E-07 1.965 324.0 3,313,229 9.78E-08 RMS
		-276	-5		-311		-319		-324
		-276	-11		-311		-319		-324
		-274	-10		-309		-317		-322
		-270	-5		-305		-313		-317
		-244	9		-276		-284		-288
		-261	2		-295		-303		-307
53	-25	-20	-5	-33	-26	-54	-28	-87	-29
72	-33	-22	-11	-40	-29	-61	-30	-94	-32
71	-64	-54	-10	-74	-65	-99	-69	-132	-72
73	-21	-16	-5	-27	-20	-43	-22	-71	-23
5G187	-64	-73	9	-79	-88	-102	-92	-134	-95
74	-6	-7	2	-8	-10	-22	-11	-48	-11
51	-9	-8	0	-11	-11	-25	-12	-50	-13
9	-97	-101	3	-114	-119	-135	-124	-163	-128
67	-2	-4	2	-6	-6	-15	-7	-35	-7
68	-4	-4	0	-6	-6	-16	-6	-36	-7
50	-5	-3	-2	-6	-5	-14	-5	-32	-6
5G049	-11	-9	-2	-13	-12	-24	-13	-43	-14
5G228	-139	-137	-1	-162	-160	-178	-166	-198	-170
5G160	-16	-2	-15	-14	-2	-24	-3	-36	-3
5G189	-73	-75	3	-88	-90	-99	-94	-116	-98
66	-3	-1	-2	-3	-2	-9	-2	-21	-3
55	-8	-7	-1	-14	-10	-19	-11	-31	-12
49	-2	-1	-1	-3	-2	-6	-2	-16	-2
5G040	-122	-125	3	-145	-146	-156	-152	-168	-156
5G039	-110	-113	4	-131	-133	-139	-139	-152	-143
5G161	-1	-1	0	-3	-1	-5	-1	-14	-1
5G052	-3	-2	-2	-5	-3	-7	-3	-15	-3
5G113	0	0	0	2	-1	-3	-1	-10	-1
16	-163	-164	1	-189	-189	-196	-196	-206	-200
5G231	0	0	0	-2	-1	-2	-1	-7	-1
5G038	-196	-200	4	-226	-228	-234	-235	-243	-240
5G274		-3		0	-5	-4	-5	-10	-6
56	-111	-118	6	-132	-138	-137	-144	-143	-148
17	-93	-94	0	-106	-111	-114	-116	-120	-120
5G155	-3	-1	-3	-2	-1	-4	-1	-9	-1
5G032	-1	0	-1	2	0	-3	0	-7	-1
5G267	0	-1	1	1	-1	-1	-1	-4	-1
36	-272	-264	-9	-306	-297	-313	-305	-319	-310
5G129	-246	-236	-10	-278	-268	-286	-275	-292	-280
63	-277	-270	-7	-311	-304	-319	-312	-325	-317
43	-9	-7	-2	-12	-9	-15	-10	-18	-11
5G164	-132	-129	-2	-149	-151	-156	-157	-161	-161
32	-24	-21	-3	-29	-26	-31	-28	-35	-30
5G132	-2	-1	0	-1	-2	-3	-2	-7	-3
42	-6	-3	-3	-5	-4	-10	-4	-14	-5
33	-255	-254	-1	-289	-287	-296	-295	-301	-300
5G115	0	0	0	1	0	-1	0	-4	0
5G252	1	0	1	3	0	0	0	-4	0
13	-56	-52	-4	-65	-64	-70	-67	-75	-70
35	-227	-230	3	-259	-262	-266	-269	-272	-274
24	-206	-212	6	-236	-242	-244	-250	-249	-254
5G154	-2	0	-2	-2	0	-3	0	-4	0
5G230	0	0	0	1	0	-1	0	-2	0
5G034	-1	0	-1	2	0	-1	0	-4	0
5D053	-134	-134	0	-153	-156	-159	-162	-163	-166
5G057	-2	0	-2	-4	0	-4	0	-6	0
12	-62	-58	-4	-72	-71	-75	-74	-79	-78
5G243	0	0	0	1	0	-1	0	-4	0
5G232	0	0	0	-1	0	0	0	2	0
5G248	-2	0	-1	2	0	-2	0	-5	0
5G249	-2	0	-2	2	0	-2	0	-6	0
23	-108	-109	1	-125	-128	-132	-134	-138	-138
5D040	-95	-92	-3	-112	-110	-118	-114	-120	-118
5G116	0	0	0	1	0	-1	0	-3	0
5G242	2	0	2	1	0	1	0	0	0
5G117	0	0	0	0	0	0	0	0	0
	0								
Onbruikbare	0								
5G063	0	0	0	0	0	-2	0	-4	0
5G065	-5	0	-5	-6	0	-8	0	-9	0
54	-30	-12	-18	-33	-16	-47	-17	-69	-18
D11	-10	-1	-9	-10	-2	-13	-2	-18	-2
5G028	-226	-226	0	-258	-257	-265	-265	-270	-269
5G221	-20	-18	-3	-28	-23	-38	-24	-55	-26
5G053	-1	0	-1	-3	0	-4	0	-10	0
5G054	0	0	0	-1	0	-2	0	-7	0

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PM naam	*sept 2005* differentie t.o.v. sept 2003 (mm)	*sept 2005* differentie t.o.v. NAP 2003 (mm) Model BAS 12 kom	*sept 2005* BAS 3 kom	*Model* 4.34E-07 2.045 22.8 177,000 1.29E-07 -0.4 RMS	*sept 2005* BAS 3 tov NAP 2003	*Model* gamma delta Zmax mm Conv m3 dZ/dV -1.7% 1.653	*sept 2006* differentie t.o.v. sept 2003 (mm) *B12 - B3* 2575	*sept 2006* differentie t.o.v. NAP 2003 (mm) Model BAS 12 kom	*sept 2006* BAS 3 kom	*Model* 4.15E-07 2.020 53.4 454,256 1.18E-07 -2.1 RMS	*Model* gamma delta Zmax mm Conv m3 dZ/dV -4.0% 2.678
				-23	-1.000		2575			-53	
				-23	-0.999		0			-53	
				-23	-0.997		-350			-53	
				-23	-0.995					-53	
				-23	-0.992					-53	
				-22	-0.978					-52	
53	-29	-8	-22	-22	-0.974	0	-62	-9	-53	-52	1
72	-28	-8	-20	-21	-0.940	3	-60	-10	-50	-51	0
71	-35	-15	-20	-19	-0.846	1	-68	-18	-50	-47	10
73	-22	-6	-16	-18	-0.801	4	-50	-8	-42	-45	5
5G187	-38	-19	-19	-18	-0.772	1	-70	-22	-47	-43	15
74	-17	-3	-13	-17	-0.733	13	-42	-4	-38	-42	12
51	-16	-4	-13	-16	-0.707	12	-41	-5	-36	-40	16
9	-38	-23	-14	-15	-0.645	0	-66	-27	-38	-37	1
67	-13	-2	-10	-13	-0.558	5	-33	-3	-30	-33	11
68	-12	-2	-10	-12	-0.549	7	-32	-3	-29	-33	14
50	-9	-2	-7	-11	-0.470	14	-26	-2	-24	-29	27
5G049	-13	-4	-9	-11	-0.465	4	-32	-5	-26	-29	7
5G228	-39	-29	-11	-10	-0.420	2	-60	-33	-27	-27	0
5G160	-8	-1	-7	-7	-0.328	1	-20	-1	-18	-22	12
5G189	-27	-19	-7	-7	-0.315	0	-43	-23	-20	-21	1
66	-6	-1	-5	-6	-0.273	2	-18	-1	-17	-19	4
55	-11	-3	-7	-6	-0.251	2	-23	-4	-18	-18	0
49	-4	-1	-4	-6	-0.249	5	-14	-1	-13	-18	18
5G040	-34	-27	-7	-5	-0.222	4	-46	-31	-15	-16	1
5G039	-30	-25	-4	-4	-0.181	0	-42	-29	-13	-14	1
5G161	-4	0	-3	-3	-0.141	0	-13	-1	-12	-11	0
5G052	-4	-1	-2	-3	-0.127	0	-11	-1	-10	-10	1
5G113	-3	0	-2	-2	-0.083	0	-9	0	-9	-7	2
16	-33	-32	-1	-2	-0.073					-7	
5G231	-2	0	-2	-1	-0.055	0	-7	0	-7	-5	3
5G038	-38	-36	-2	-1	-0.054	2	-47	-40	-7	-5	2
5G274	-4	-2	-3	-1	-0.051	2	-10	-2	-7	-5	4
56	-26	-26	0	-1	-0.036	1	-32	-30	-2	-4	5
17	-21	-22	2	-1	-0.025	5	-27	-26	0	-3	6
5G155	-1	0	0	0	-0.020	0	-5	-1	-5	-2	5
5G032	-2	0	-2	0	-0.020	2	-6	0	-6	-2	13
5G267	-1	0	0	0	-0.018	0	-4	-1	-4	-2	2
36	-41	-42	1	0	-0.010	1	-46	-46	0	-1	2
5G129	-40	-39	0	0	-0.009	0	-46	-44	-2	-1	0
63	-42	-42	0	0	-0.007					-1	
43	-6	-3	-3	0	-0.006	10	-9	-4	-5	-1	19
5G164	-25	-28	3	0	-0.006	10	-30	-32	2	-1	10
32	-7	-8	1	0	-0.005	0	-11	-9	-2	-1	0
5G132	-1	-1	0	0	-0.005	0	-5	-1	-4	-1	9
42	-4	-2	-2	0	-0.004	4	-8	-2	-5	-1	22
33	-41	-41	0	0	-0.003	0	-46	-46	-1	-1	0
5G115	-1	0	-1	0	-0.002	1	-4	0	-4	0	14
5G252		0		0	-0.002		-5	0	-5	0	21
13	-14	-15	1	0	-0.002	2	-19	-18	-1	0	0
35	-39	-39	0	0	-0.001	0	-45	-43	-1	0	1
24	-38	-37	-1	0	-0.001	1	-43	-42	-1	0	1
5G154	-1	0	-1	0	-0.001	2	-2	0	-2	0	3
5G230	-1	0	-1	0	-0.001	1	-2	0	-2	0	4
5G034	0	0	0	0	-0.001	0	-4	0	-4	0	13
5D053	-25	-28	3	0	-0.001	9	-29	-32	4	0	14
5G057	-2	0	-2	0	0.000	6	-4	0	-4	0	16
12	-13	-16	4	0	0.000	13	-17	-19	2	0	6
5G243	-1	0	-1	0	0.000	0	-3	0	-3	0	11
5G232		0		0	0.000		2	0	2	0	3
5G248	0	0	0	0	0.000	0	-4	0	-4	0	13
5G249	0	0	0	0	0.000	0	-5	0	-5	0	21
23	-25	-25	0	0	0.000	0	-31	-29	-2	0	3
5D040	-23	-22	-1	0	0.000	1	-26	-26	0	0	0
5G116	-1	0	-1	0	0.000	1	-3	0	-3	0	7
5G242	-1	0	-1	0	0.000	1	-2	0	-2	0	4
5G117		0		0	0.000		0	0		0	
Onbruikbare											
5G063	-2	0	-2	0	-0.006	3	-4	0	-4	-1	9
5G065	-3	0	-3	0	0.000	7	-4	0	-4	0	17
54	-17	-5	-12	-14	-0.632	4	-39	-6	-33	-37	19
D11	-3	-1	-3	0		7	-9	-1	-8	-1	53
5G028	-39	-38	0	0	-0.001	0	-43	-43	0	0	0
5G221	-18	-7	-11	-7	-0.323	13	-35	-8	-26	-22	20
5G053	-3	0	-3	0	-0.022	6	-9	0	-8	-3	35
5G054	-2	0	-2	0	-0.001	3	-6	0	-6	0	37

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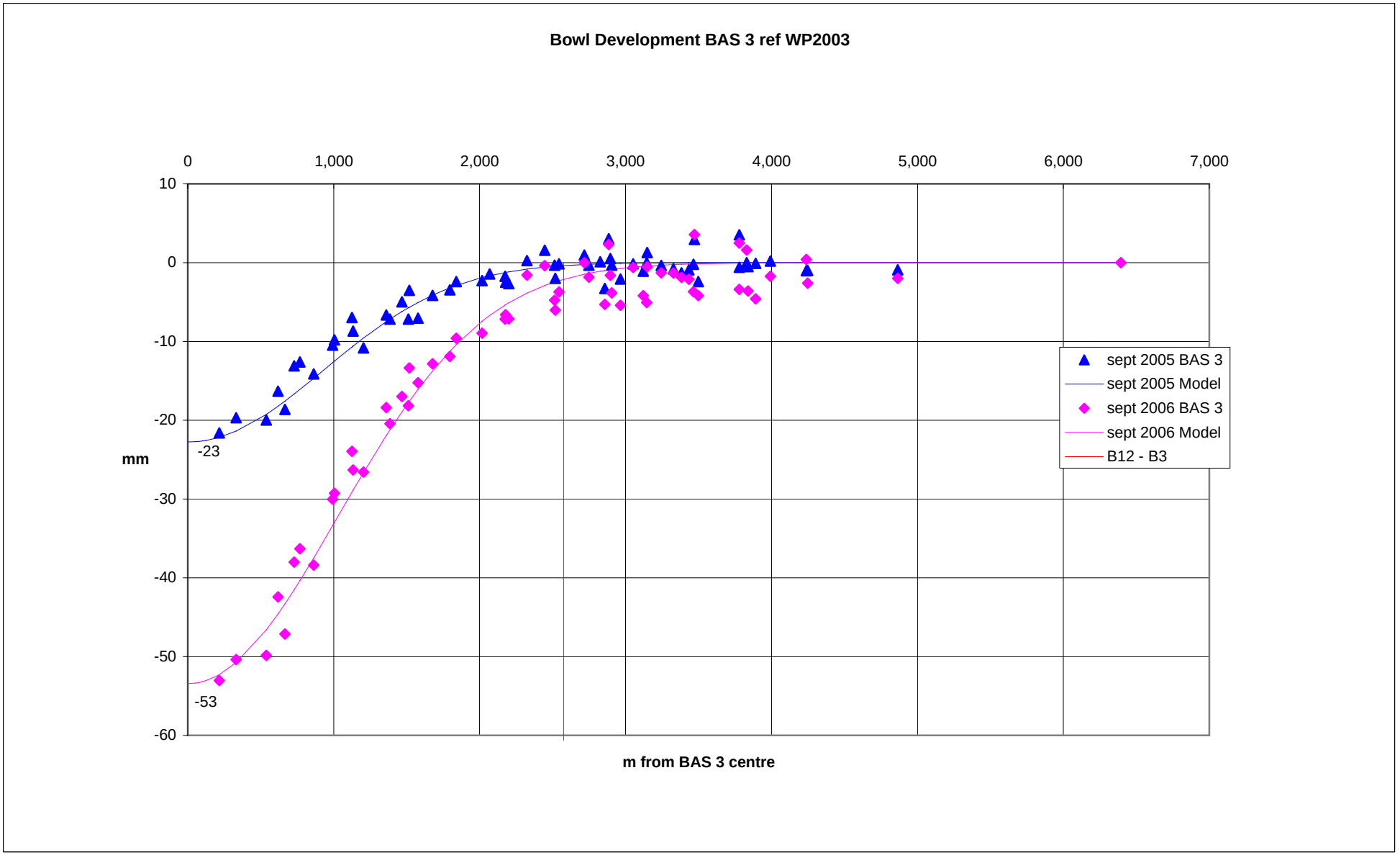
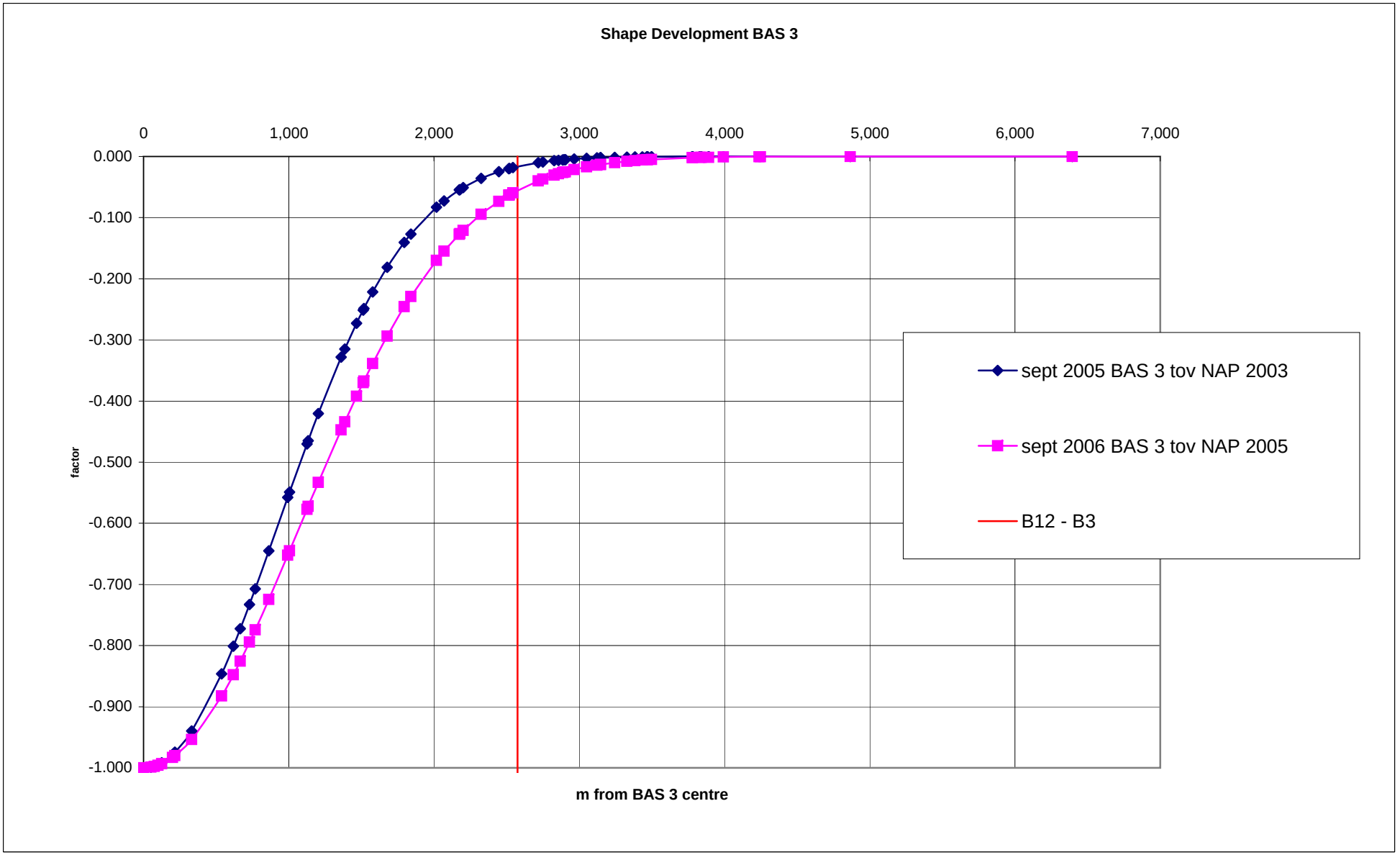
PM naam	*sept 2006* differentie t.o.v. NAP 2005 (mm)	*sept 2006* differentie t.o.v. NAP 2005 (mm) Model BAS 12 kom	*sept 2006* BAS 3 kom	*Model* 4.15E-07 2.006 31.4 277,256 1.13E-07 -1.7 RMS	*sept 2006* BAS 3 tov NAP 2005	*Model* gamma delta Zmax mm Conv m3 dZ/dV -5.5% 1.914
				-31	-1.000	
				-31	-0.999	
				-31	-0.998	
				-31	-0.996	
				-31	-0.993	
				-31	-0.983	
53	-33	-2	-31	-31	-0.980	0
72	-33	-2	-31	-30	-0.954	1
71	-33	-3	-30	-28	-0.882	5
73	-28	-1	-26	-27	-0.848	0
5G187	-32	-3	-29	-26	-0.825	7
74	-26	-1	-25	-25	-0.794	0
51	-25	-1	-24	-24	-0.774	0
9	-28	-4	-24	-23	-0.724	2
67	-20	-1	-20	-21	-0.652	1
68	-20	-1	-19	-20	-0.645	1
50	-18	-1	-17	-18	-0.577	1
5G049	-19	-1	-18	-18	-0.573	0
5G228	-20	-4	-16	-17	-0.533	1
5G160	-12	0	-12	-14	-0.447	5
5G189	-17	-4	-13	-14	-0.434	0
66	-12	0	-12	-12	-0.392	0
55	-12	-1	-11	-12	-0.370	0
49	-10	0	-10	-12	-0.367	3
5G040	-12	-4	-8	-11	-0.339	6
5G039	-13	-4	-9	-9	-0.294	0
5G161	-9	0	-8	-8	-0.246	1
5G052	-7	0	-7	-7	-0.229	0
5G113	-7	0	-7	-5	-0.170	2
16		-4		-5	-0.155	
5G231	-5	0	-5	-4	-0.127	2
5G038	-9	-5	-4	-4	-0.126	0
5G274	-5	-1	-4	-4	-0.121	0
56	-6	-4	-2	-3	-0.095	1
17	-6	-4	-2	-2	-0.074	0
5G155	-5	0	-4	-2	-0.063	6
5G032	-4	0	-4	-2	-0.063	4
5G267	-4	0	-4	-2	-0.059	3
36	-6	-5	-1	-1	-0.040	0
5G129	-6	-5	-2	-1	-0.037	0
63		-5		-1	-0.031	
43	-3	-1	-2	-1	-0.028	1
5G164	-5	-4	-1	-1	-0.026	0
32	-4	-2	-2	-1	-0.026	2
5G132	-4	0	-4	-1	-0.025	7
42	-4	0	-3	-1	-0.021	7
33	-5	-5	0	-1	-0.017	0
5G115	-3	0	-3	0	-0.014	7
5G252	-5	0	-5	0	-0.013	22
13	-5	-3	-2	0	-0.013	2
35	-6	-5	-1	0	-0.010	0
24	-5	-5	-1	0	-0.008	0
5G154	-1	0	-1	0	-0.007	0
5G230	-1	0	-1	0	-0.006	1
5G034	-3	0	-3	0	-0.005	11
5D053	-4	-4	1	0	-0.005	1
5G057	-2	0	-2	0	-0.005	3
12	4	-3	7	0	-0.002	46
5G243	-3	0	-3	0	-0.002	8
5G232	2	0	2	0	-0.002	3
5G248	-3	0	-3	0	-0.002	9
5G249	-4	0	-4	0	-0.001	20
23	-6	-4	-2	0	-0.001	4
5D040	-2	-4	1	0	0.000	2
5G116	-2	0	-2	0	0.000	3
5G242	-1	0	-1	0	0.000	1
5G117		0		0	0.000	
Onbruikbare						
5G063	-2	0	-2	-1	-0.027	2
5G065	-2	0	-1	0	-0.001	2
54	-22	-1	-20	-22	-0.714	5
D11	-3	13	-16	-1	-0.020	224
5G028	-5	-5	0	0	-0.010	0
5G221	-17	-2	-15	-14	-0.442	2
5G053	-6	0	-5	-2	-0.067	11
5G054	-5	0	-5	0	-0.011	18

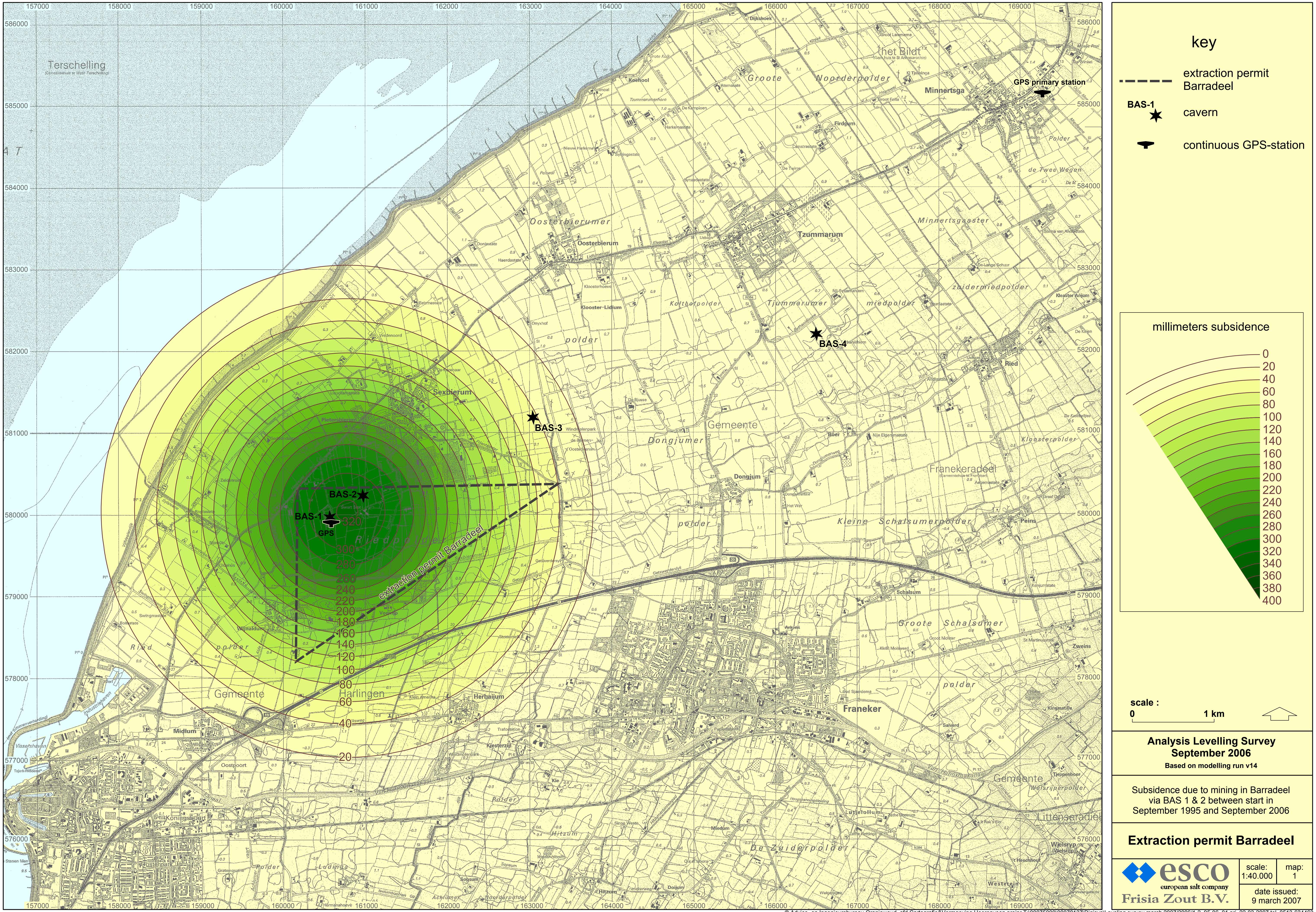
BAS3 komanalyse 61 PM Sept 2003 Chart 2



BAS3 komanalyse 61 PM Sept 2003 Chart 3



Attachment 4: Contours of subsidence caused by Salt Mining September 2006



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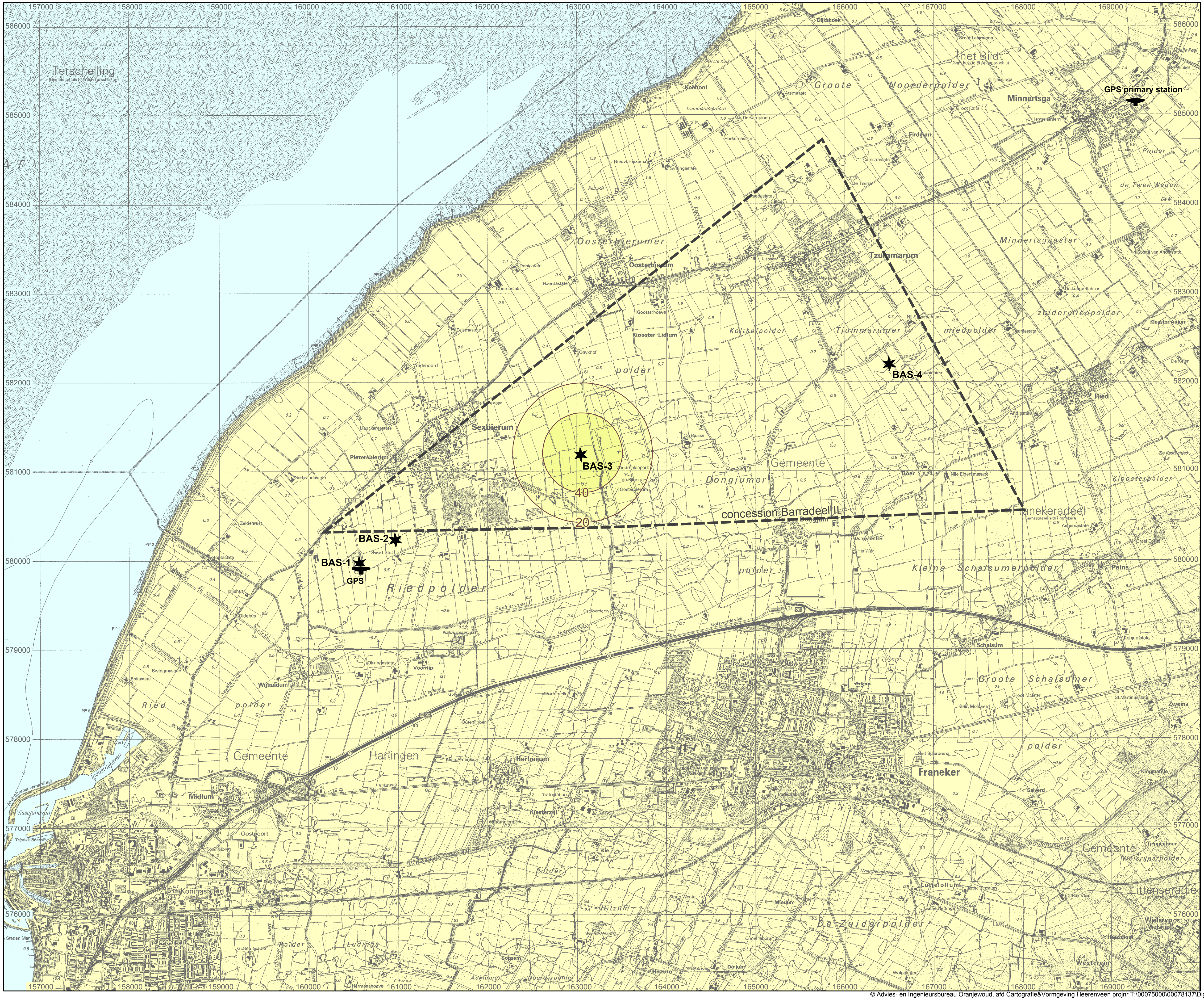


key

extraction permit Barradeel II

BAS-1 cavern

continuous GPS-station

millimeters subsidence

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 220, 240, 260, 280, 300, 320, 340, 360, 380, 400

scale :
0 1 km

Analysis Levelling Survey September 2006

Based on modelling run v14

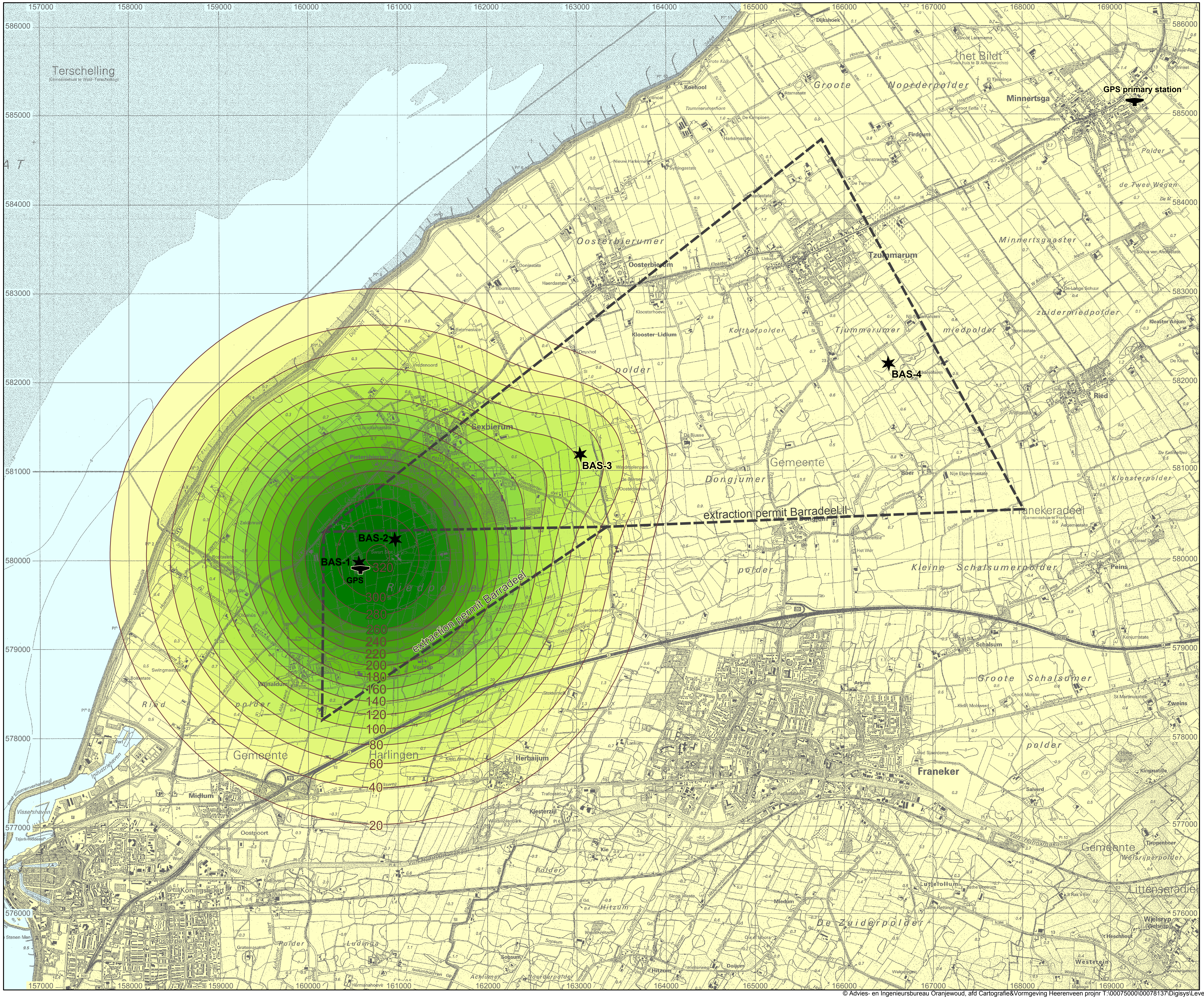
Subsidence due to mining in Barradeel II via BAS 3 & 4 between start in September 2003 and September 2006

Extraction permit Barradeel II

esco european salt company
Frisia Zout B.V.

scale:	map:
1:40.000	2
date issued: 9 march 2007	

© Advies- en Ingenieursbureau Oranjewoud, afd Cartografie&Vormgeving Heerenveen projnr T:\00075000\00078137\Digisys\Leveling survey march 2007/3-4_03-06_02.prj 22-03-2007 tel. 0513-634463



key

extraction permit Barradeel and Barradeel II

BAS-1 ★ cavern

continuous GPS-station

millimeters subsidence

0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 220, 240, 260, 280, 300, 320, 340, 360, 380, 400

scale :
0 1 km

Analysis Levelling Survey
September 2006
Based on modelling run v14

Subsidence due to All Salt Mining between September 1995 and September 2006

Extraction permit
Barradeel and Barradeel II

esco european salt company
Frisia Zout B.V.

scale: 1:40.000	map: 3
date issued: 9 march 2007	

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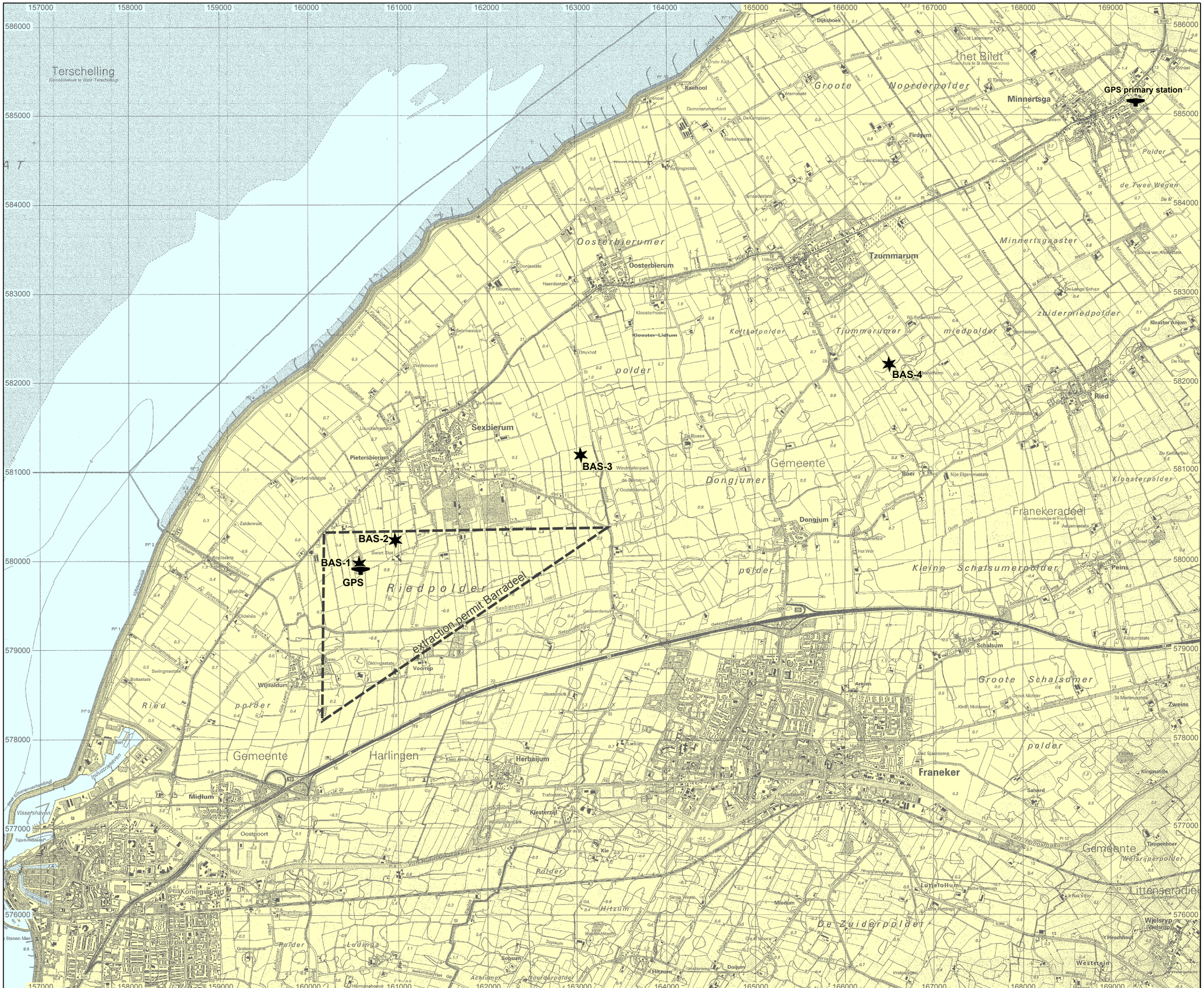

key

- extraction permit Barradeel
- BAS-1 cavern
- continuous GPS-station

millimeters subsidence

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

scale : 0 — 1 km

Analysis Levelling Survey September 2006

Based on modelling run v14

Subsidence due to mining in Barradeel via Bas 1 & 2 between September 2005 and September 2006

Extraction permit Barradeel

esco european salt company

Frisia Zout B.V.

scale: 1:40.000	map: 4
date issued: 9 march 2007	

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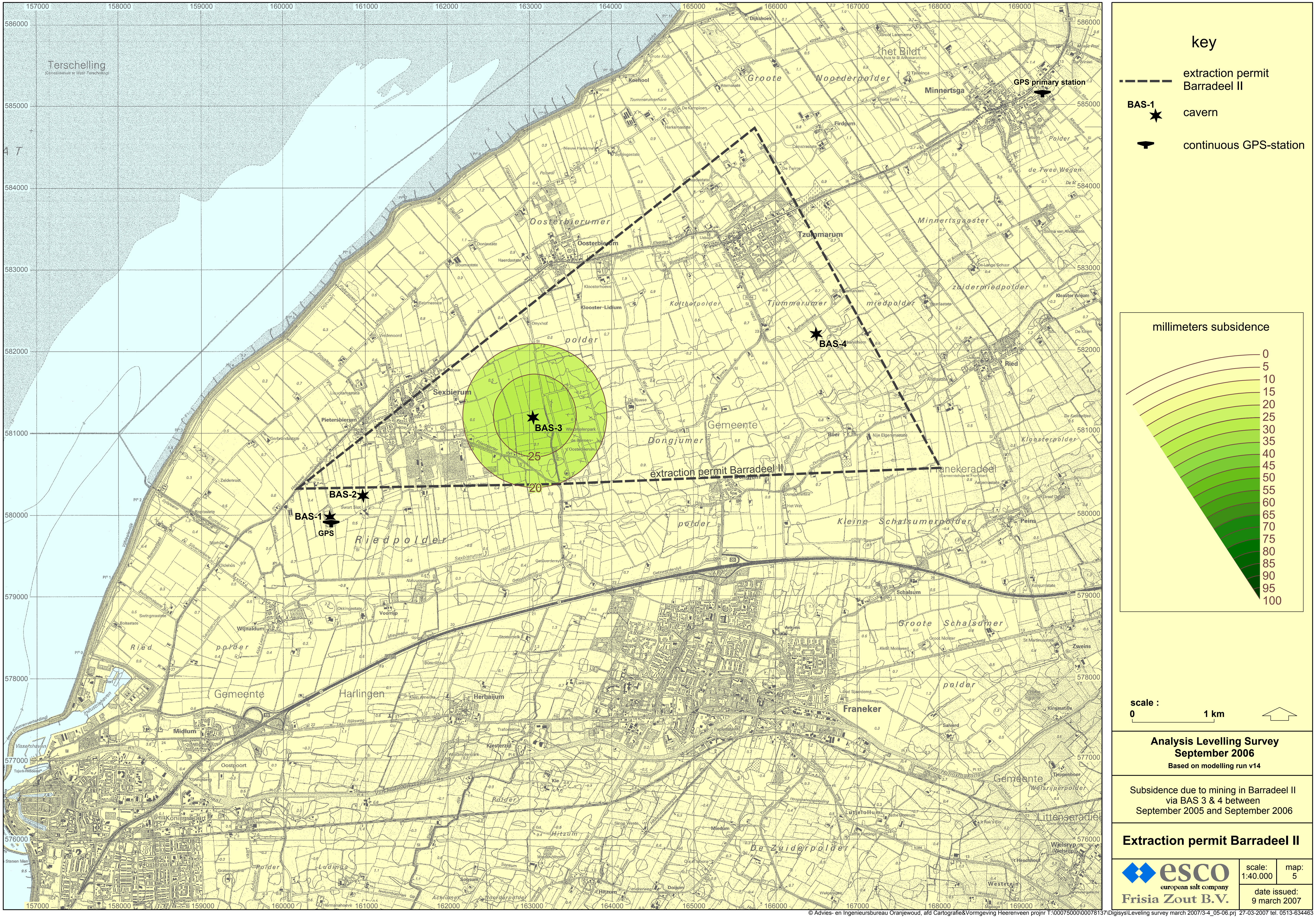

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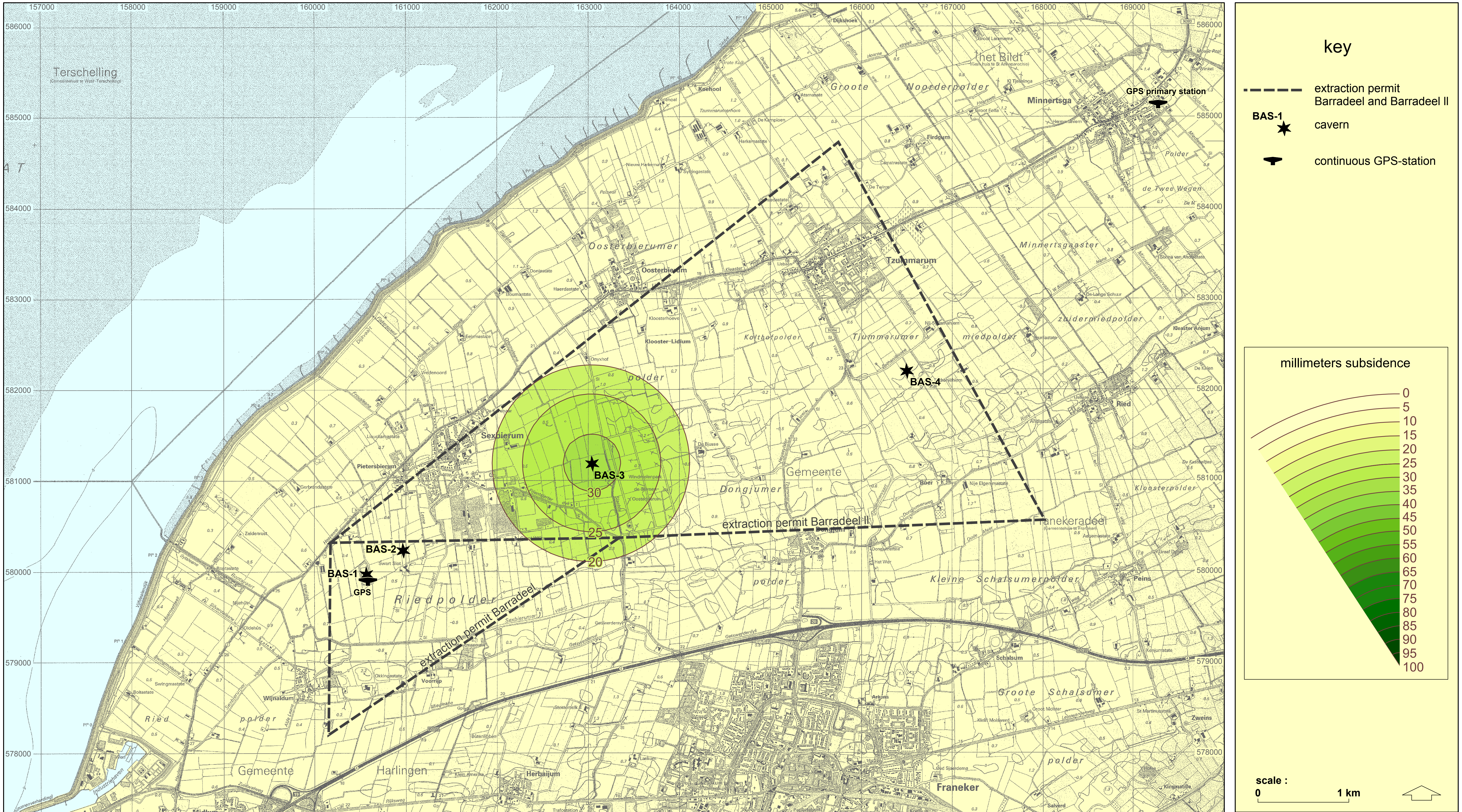

Analysis Levelling Survey
September 2006
Based on modelling run v14

Subsidence due to All Salt Mining between September 2005 and September 2006

Extraction permit Barradeel and Barradeel II

esco european salt company
Frisia Zout B.V.

scale:	map:
1:40.000	6

date issued:
9 march 2007

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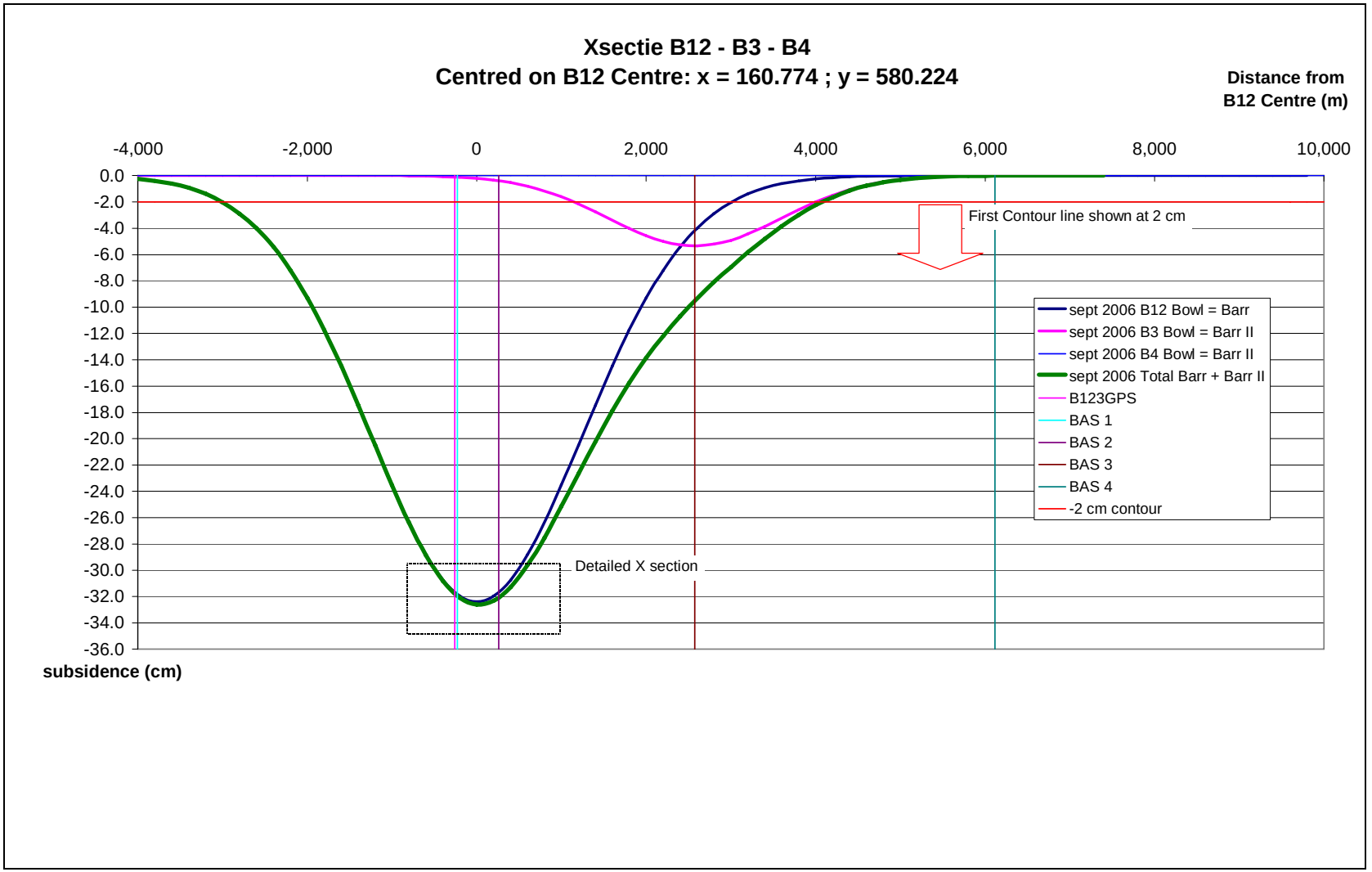
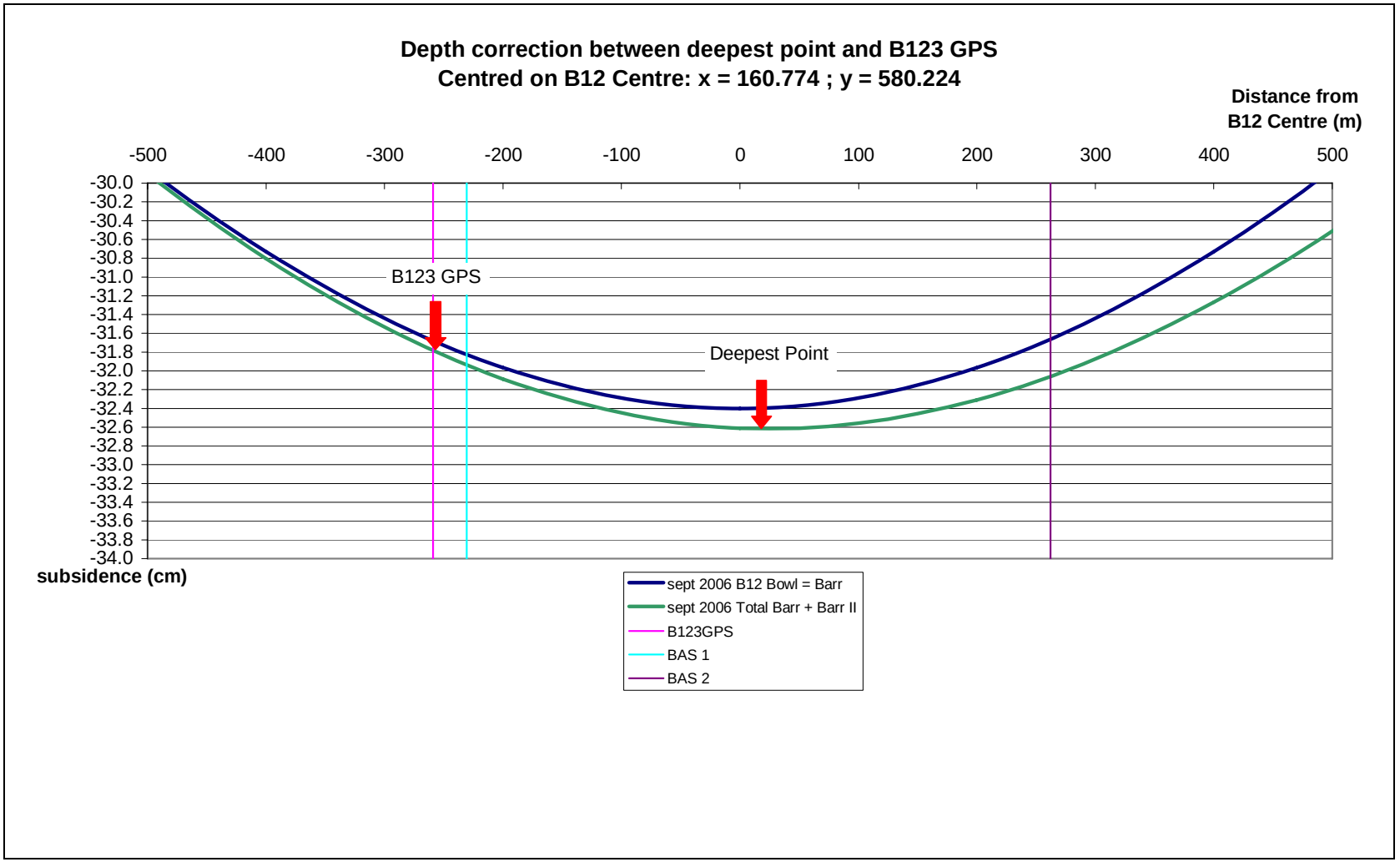
Attachment 5: Cross Section B12 to B3



Detail:


Depth correction between deepest point and B123 GPS
Centred on B12 Centre: x = 160.774 ; y = 580.224
Distance from B12 Centre (m)
-500
-400
-300
-200
-100
0
100
200
300
400
500
-30.0
-30.2
-30.4
-30.6
-30.8
-31.0
-31.2
-31.4
-31.6
-31.8
-32.0
-32.2
-32.4
-32.6
-32.8
-33.0
-33.2
-33.4
-33.6
-33.8
-34.0
subsidence (cm)
B123 GPS
Deepest Point
sept 2006 B12 Bowl = Barr
sept 2006 Total Barr + Barr II
B123GPS
BAS 1
BAS 2