	Without noise								With noise							
	GLLiM				dGLLiM				GLLiM				dGLLiM			
	F	Me	Mo	Y	F	Me	Mo	Y	F	Me	Mo	Y	F	Me	Mo	Y
$x \to \cos(10x)$	0.6 (0.6)	43.5	22.7	0.4	**0.5** (**0.5**)	43.4	**21.3**	**0.4**	1.1 (1.1)	43.3	23.4	10.3	1.2 (1.2)	**42.9**	22.2	12.1
L,D = 1,1	**0.3** (0.3)	34.1	14.0	0.3	0.3 (**0.3**)	35.1	**13.7**	**0.3**	0.7 (0.7)	32.8	14.9	0.8	0.6 (0.6)	**32.7**	15.8	0.8
K = 100	8.6 (8.7)	39.0	29.7	0.5	3.3 (3.3)	37.8	25.5	0.3	24.2 (24.8)	39.0	28.9	212.6	16.9 (17.2)	38.4	25.2	256.8
N = 1000	96.5	100.0	100.0	100.0	96.1	100.0	100.0	100.0	95.5	100.0	100.0	100.0	96.8	100.0	100.0	100.0
Local = 100																
$x \to \cos(10x)$	174.7 (174.7)	**42.4**	39.0	526.8	19.0 (17.5)	43.9	**22.2**	85.2	160.2 (160.2)	42.7	39.3	428.9	**3.0** (**2.8**)	44.0	25.0	**2.7**
L,D = 1,1	98.4 (98.4)	**32.0**	32.1	188.9	**1.1** (**0.9**)	36.4	12.6	**0.6**	98.4 (98.4)	32.5	32.0	30.1	1.3 (1.2)	36.7	**12.4**	1.3
K = 100	10433.3 (10433.3)	38.0	33.6	3875.1	1164.6 (1215.8)	38.6	27.9	1176.5	5633.2 (5633.2)	37.9	36.3	3125.2	15.5 (16.1)	38.4	34.9	10.0
N = 1000	100.0	100.0	100.0	100.0	91.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	92.2	100.0	100.0	100.0
Local = None																
Config. Olivine	66.6 (15.6)	11.9	8.6	13.8	43.4 (4.2)	**7.1**	**5.1**	3.5	59.1 (15.3)	13.2	9.6	11.7	**34.4** (**4.0**)	8.9	6.3	**3.3**
L,D = 4,10	7.1 (6.2)	9.4	7.1	7.6	**1.9** (**1.8**)	**4.7**	**3.7**	2.2	7.5 (6.6)	11.3	8.0	6.7	2.1 (1.9)	6.6	4.9	**2.2**
K = 1000	1599.8 (132.8)	9.2	6.0	20.6	4426.1 (16.1)	7.0	4.7	4.4	2842.3 (82.1)	8.8	6.4	16.6	4114.7 (12.5)	7.8	5.0	4.3
N = 10000	79.5	98.3	96.6	96.6	81.2	100.0	99.2	99.2	79.2	99.4	97.4	97.4	81.1	99.9	99.2	99.2
Local = 5000																
Config. Olivine	47.1 (8.3)	11.1	50.9	182.2	314.6 (6.3)	**9.5**	**6.9**	5.6	**44.2** (8.0)	11.8	55.4	204.0	54.8 (**5.9**)	10.6	8.0	**5.2**
L,D = 4,10	5.0 (4.5)	9.1	47.0	71.2	**2.4** (**2.4**)	**6.3**	**4.8**	3.1	4.4 (4.0)	9.9	52.8	80.5	2.6 (2.5)	7.3	5.7	**3.1**
K = 1000	2756.3 (28.6)	8.3	26.4	421.5	58789.5 (59.9)	9.6	6.6	9.4	1746.9 (22.5)	8.0	68.5	431.2	2515.0 (14.5)	10.2	7.2	8.9
N = 10000	79.2	98.4	95.2	95.2	80.1	99.9	99.0	99.0	79.5	99.1	94.8	94.8	80.6	100.0	99.2	99.2
Local = None																
Config. Olivine	51.6 (7.9)	**11.1**	**8.2**	8.9	114.2 (7.9)	12.7	9.5	8.4	**38.3** (8.6)	12.2	54.4	184.7	58.8 (**7.4**)	12.5	9.8	**8.0**
L,D = 4,10	3.9 (3.9)	**8.3**	**6.3**	5.3	3.4 (3.5)	8.9	6.9	**4.7**	3.9 (3.8)	9.2	52.7	79.7	**3.3** (**3.3**)	9.3	7.3	4.7
K = 100	7728.7 (31.7)	9.6	6.5	13.6	10023.1 (45.0)	11.5	8.5	13.1	2000.6 (34.1)	9.7	26.8	305.0	1566.2 (30.2)	10.6	8.1	12.2
N = 100000	80.5	99.2	97.1	97.1	78.7	100.0	99.2	99.2	80.7	99.7	96.8	96.8	78.9	100.0	99.3	99.3
Local = 5000																
Config. Olivine	53.2 (8.9)	**11.8**	32.0	135.4	172.6 (10.1)	11.9	9.5	8.6	**26.8** (7.3)	12.0	**8.7**	8.7	70.0 (**7.2**)	12.5	9.5	**7.8**
L,D = 4,10	4.1 (4.0)	**8.5**	13.2	13.4	3.4 (3.5)	8.5	**6.8**	4.8	3.7 (3.6)	9.1	6.9	5.3	**3.2** (**3.3**)	9.1	7.2	**4.6**
K = 100	4501.0 (28.5)	10.2	35.2	462.7	10386.7 (510.3)	10.5	8.5	12.8	1223.4 (22.5)	9.4	6.5	11.1	3363.7 (28.7)	10.9	8.1	10.9
N = 100000	81.2	99.2	96.8	96.8	78.6	100.0	99.3	99.3	80.7	99.6	97.3	97.3	80.0	100.0	98.4	98.4
Local = 500																
Config. Olivine	37.9 (7.8)	**10.8**	**8.0**	9.2	90.0 (8.0)	13.2	10.1	9.2	**26.4** (**6.5**)	11.6	8.3	**8.4**	61.8 (7.3)	13.4	10.4	9.1
L,D = 4,10	4.5 (4.0)	**8.5**	**6.3**	5.5	3.9 (4.1)	9.4	7.4	5.4	4.0 (**3.5**)	9.2	6.7	**5.0**	**3.6** (3.8)	10.1	7.7	5.1
K = 100	1415.8 (25.4)	8.3	6.1	11.3	4913.4 (17.9)	11.7	8.7	13.5	701.2 (13.1)	8.8	6.0	11.2	5839.5 (27.9)	11.0	8.6	12.0
N = 100000	80.7	99.8	97.1	97.1	78.6	99.6	98.9	98.9	80.1	99.7	96.4	96.4	79.1	99.8	98.8	98.8
Local = None																
Logistic Olivine	93.5 (**6.5**)	**8.7**	**6.7**	11.5	**24.2** (14.0)	10.5	8.2	6.6	139.2 (12.1)	12.8	8.8	9.3	107.2 (7.5)	12.7	9.3	**4.7**
L,D = 4,10	2.9 (2.7)	**5.8**	**4.6**	3.9	**2.1** (**1.9**)	6.8	5.2	2.5	3.6 (3.4)	9.4	6.3	3.6	2.3 (2.2)	9.5	6.4	**2.2**
K = 1000	20124.8 (67.0)	9.5	7.8	52.7	862.0 (603.9)	11.3	9.8	24.7	17808.9 (583.7)	11.6	8.6	35.8	26342.1 (112.7)	11.7	9.8	12.2
N = 10000	80.3	100.0	100.0	100.0	81.1	100.0	100.0	100.0	80.5	100.0	100.0	100.0	81.6	100.0	100.0	100.0
Local = 500																
Logistic Olivine	**93.7** (**9.7**)	**15.0**	**10.8**	19.5	5381.0 (23.7)	17.9	14.4	57.3	113.7 (12.4)	16.8	11.8	**14.2**	177.1 (110.8)	19.9	16.0	35.0
L,D = 4,10	5.5 (4.6)	**10.5**	**7.2**	6.7	5.1 (4.7)	13.0	11.2	5.7	5.6 (4.5)	12.9	8.8	7.3	**4.7** (**4.4**)	15.2	12.1	**5.4**
K = 1000	14632.4 (101.4)	14.3	11.1	300.1	1651664.5 (535.8)	14.4	11.0	928.5	9525.8 (1000.2)	13.7	10.2	24.4	15369.2 (16598.1)	16.2	13.2	438.4
N = 10000	78.6	100.0	100.0	100.0	78.8	100.0	100.0	100.0	77.7	100.0	100.0	100.0	80.5	100.0	100.0	100.0
Local = None																

Logistic Olivine	**22.8** (10.8)	**14.2**	**10.0**	15.5	245.6 (28.6)	21.3	17.5	197.5	53.9 (**8.8**)	15.9	10.7	**12.3**	462.3 (393.1)	21.3	17.6	145.9
L,D = 4,10	3.5 (3.2)	**9.6**	**6.8**	4.9	6.2 (6.1)	18.4	14.9	7.5	**3.5** (**3.1**)	11.1	7.5	**4.9**	6.2 (5.8)	17.4	14.9	7.6
K = 100	934.8 (809.8)	12.9	9.5	357.0	8378.7 (381.1)	14.3	11.5	10698.9	5622.7 (304.2)	13.7	9.9	61.5	84522.0 (97850.0)	14.6	11.8	3962.3
N = 100000	80.0	100.0	100.0	100.0	76.4	100.0	100.0	100.0	80.6	100.0	100.0	100.0	74.1	100.0	100.0	100.0
Local = 500																
Logistic Olivine	**99.2** (10.2)	**16.5**	**11.4**	22.3	415.0 (41.8)	21.3	17.4	134.4	100.3 (**8.6**)	17.2	11.7	**17.9**	230.2 (21.9)	22.3	18.2	116.9
L,D = 4,10	5.7 (4.3)	**13.0**	**8.5**	6.3	6.5 (6.3)	18.2	15.0	8.0	**5.2** (**4.1**)	13.5	8.9	**6.1**	6.5 (6.1)	19.3	16.1	7.7
K = 100	11235.3 (80.8)	12.8	9.8	432.1	52805.7 (1620.3)	14.5	11.4	4851.4	8972.7 (107.2)	13.2	9.6	232.4	11418.3 (266.4)	14.2	11.2	4297.4
N = 100000	80.0	100.0	100.0	100.0	75.7	100.0	100.0	100.0	79.5	100.0	100.0	100.0	74.2	100.0	100.0	100.0
Local = None																
$C = f(B)$	**27.3** (12.3)	10.2	7.2	6.5	466.9 (12.7)	12.5	8.3	9.8	43.1 (15.4)	**9.3**	**6.6**	**5.3**	191.7 (**11.9**)	11.3	7.9	6.3
L,D = 3,11	3.7 (3.4)	**6.7**	5.1	4.1	2.1 (1.9)	7.3	4.9	3.3	2.2 (2.1)	6.8	**4.7**	2.8	**2.0** (**1.8**)	7.7	5.4	**2.7**
K = 100	930.8 (662.0)	10.8	7.2	7.1	46262.2 (328.8)	14.6	11.0	25.9	4324.6 (498.9)	8.5	6.7	8.3	14522.9 (330.2)	12.1	9.3	12.7
N = 100000	94.3	99.2	97.6	97.6	93.0	100.0	98.4	98.4	95.5	99.8	98.0	98.0	94.1	100.0	98.6	98.6
Local = None																
Glace - Voie S	68.3 (8.4)	12.0	8.6	11.4	**47.5** (4.7)	**11.2**	**7.1**	4.2	267.6 (6.9)	12.8	42.0	139.0	175.7 (**4.6**)	11.7	8.0	**3.7**
L,D = 4,11	4.3 (3.9)	9.1	6.8	6.4	**2.0** (**1.9**)	**6.4**	**4.6**	2.3	3.9 (3.6)	10.3	44.0	50.3	2.1 (1.9)	8.0	5.6	**2.2**
K = 300	4922.6 (45.8)	10.4	6.9	14.7	1853.6 (16.6)	15.4	8.4	6.7	76976.4 (22.9)	9.9	32.7	324.7	34804.9 (16.9)	11.8	7.8	4.4
N = 10000	89.3	98.6	95.9	95.9	87.8	100.0	99.1	99.1	89.0	99.1	96.8	96.8	88.0	100.0	99.3	99.3
Local = 500																
Config. Gonio	93.6 (13.5)	16.8	55.5	205.0	**29.7** (4.1)	**7.0**	**4.5**	5.9	50.3 (13.4)	15.9	57.7	220.2	51.2 (**3.8**)	7.4	4.6	**5.8**
L,D = 4,35	6.3 (5.7)	12.0	52.3	80.3	**1.6** (**1.5**)	**4.8**	**3.2**	**3.3**	6.4 (5.8)	12.5	55.6	81.4	1.7 (1.6)	5.4	3.5	3.5
K = 1000	5531.2 (291.6)	18.0	26.4	395.8	969.5 (66.4)	7.6	4.2	8.6	2971.6 (160.5)	13.0	27.2	441.5	6745.6 (67.5)	6.9	3.7	7.2
N = 10000	88.4	91.8	89.4	89.4	88.5	98.9	97.9	97.9	88.8	93.3	90.6	90.6	88.7	98.8	97.3	97.3
Local = 500																
Config. Gonio	**26.2** (8.2)	14.6	55.1	**186.3**	207.2 (**7.9**)	**11.9**	52.8	204.9	30.6 (8.4)	16.7	59.4	203.7	182.0 (7.9)	12.5	**49.6**	234.0
L,D = 4,35	4.3 (4.0)	10.6	52.3	77.1	**3.1** (**2.9**)	**8.2**	52.7	**76.8**	3.9 (3.7)	12.8	53.5	79.5	3.2 (3.0)	8.9	**50.4**	79.7
K = 100	735.4 (28.5)	13.0	25.9	372.1	11806.5 (73.1)	11.2	27.7	414.0	2342.3 (45.6)	13.4	56.7	394.4	11985.2 (94.8)	10.9	28.4	518.5
N = 100000	89.3	90.6	87.0	87.0	86.3	98.9	97.3	97.3	89.5	88.0	83.8	83.8	86.7	96.6	94.3	94.3
Local = 500																
Config. Gonio	81.8 (10.6)	17.8	56.2	193.5	48.8 (4.6)	**6.9**	60.8	197.1	74.9 (12.5)	18.3	58.2	199.9	**31.1** (**3.3**)	8.8	**4.7**	**7.3**
L,D = 4,53	5.9 (5.1)	12.6	53.6	81.1	**1.7** (**1.6**)	**4.5**	62.7	72.5	6.8 (6.1)	13.2	54.5	82.0	1.7 (1.6)	5.9	**3.5**	**4.5**
K = 1000	6214.7 (31.4)	16.9	26.4	339.5	4254.8 (63.4)	7.3	30.1	481.0	4697.1 (72.0)	16.6	26.4	351.7	1772.5 (13.1)	9.3	4.2	9.1
N = 10000	84.9	90.1	87.1	87.1	84.8	98.3	97.6	97.6	85.1	88.9	86.7	86.7	84.9	96.8	95.6	95.6
Local = 500																
Config. Gonio	**31.7** (10.4)	20.4	59.7	216.3	191.5 (7.6)	**12.4**	**42.3**	**188.6**	46.3 (7.6)	22.3	58.2	203.1	173.2 (**7.6**)	13.4	53.7	202.5
L,D = 4,53	4.5 (4.1)	13.0	55.1	82.7	3.5 (3.3)	**9.2**	**42.9**	**70.2**	3.9 (3.7)	14.7	55.1	80.8	**3.3** (**3.1**)	9.7	50.6	80.0
K = 100	1206.3 (192.9)	25.1	49.2	409.3	15682.3 (63.6)	10.7	31.8	418.8	3857.6 (25.6)	24.0	25.9	399.4	10313.4 (117.3)	11.9	25.1	385.0
N = 100000	85.8	83.4	82.8	82.8	81.6	97.9	95.6	95.6	85.1	79.6	78.7	78.7	81.7	96.9	95.0	95.0
Local = 500																

Table 1: Mean, median, standard deviation of relatives errors, accuracy (in %) . Cleaned values in parenthesis. Bold values show best values over the 4 main methods, for each criterium.