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Bijlage 1. Opnametabellen permanente kwadraten 2017

Bijlage 1a. De betekenis van de gebruikte afkortingen in de rijen Vegetatietype en Structuurtype is hieronder vermeld.

Afkorting	Vegetatietype
Dv	Duinvalleivegetaties
Zp	Zilte pioniervegetaties
Oa	Overstromingsgraslanden met Aardbeiklaver en Zilte zegge
Oo	Overige overstromingsgraslanden
Go	Overige graslanden
Rr	Ruige rietlanden
Kw	Kruipwilgstruwelen

Afkorting	Structuurtype
A	Antropogeen (weg, gebouw)
Bd	Bos, dicht
Bo	Bos, open
Gh	Grasland hoog
Gl	Grasland, laag
Kg	Kale grond
LRsad	Landriet, structuurarm en dicht
LRsao	Landriet, structuurarm en open
LRsrd	Landriet, structuurrijk en dicht
LRsro	Landriet, structuurrijk en open
Ow	Open water
Or	Overige ruigten
P	Pioniervegetaties
Shd	Struweel, hoog en dicht
Sho	Struweel, hoog en open
Sld	Struweel, laag en (matig) dicht
Slo	Struweel, laag en (zeer) open
Smd	Struweel, middelhoog en (matig) dicht
Smo	Struweel, middelhoog en (zeer) open
WRd	Waterriet, dicht
WRo	Waterriet, open

De bijbehorende tabellen zijn terug te vinden in:

Bijlage 1b. Vegetatietabel pq's 2017 digitaal.xlsx

Een digitale bijlage als xls bestand

Bijlage 2. Tabel veranderingen indicatoren 2007-2017

Digitale bijlage als xls bestand

Bijlage 3. Veranderingen indicatoren voor structuurkenmerken in de pq's 2007-2017

Digitale bijlage als zip bestand

Bijlage 4. Veranderingen indicatoren voor abiotische omstandigheden in de pq's 2007-2017

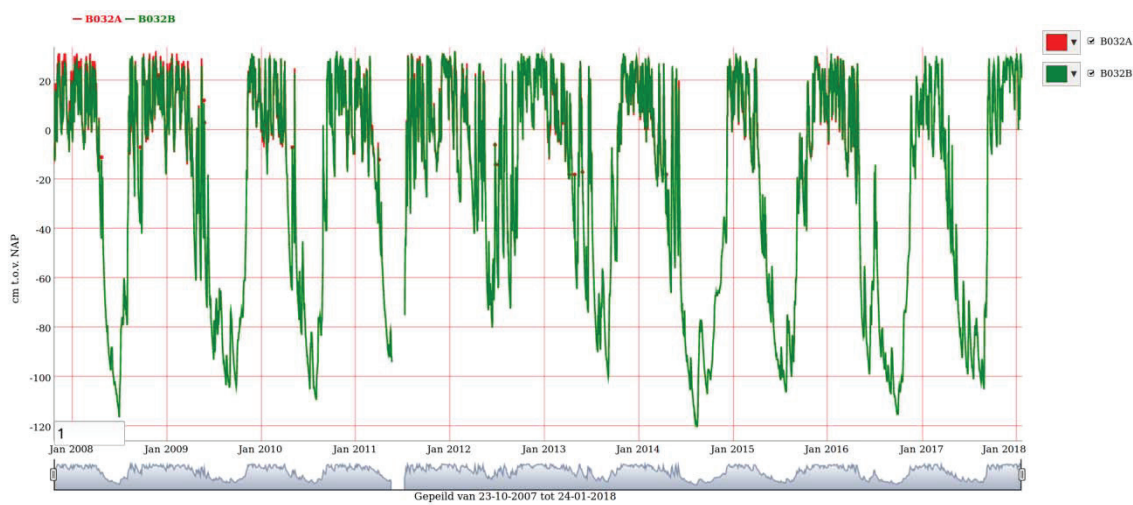
Digitale bijlage als zip bestand

Bijlagen hoofdstuk 6

Bijlage 5. Waterstanden tm 2017

B032A B032B	
B032B Type meetpunt grondwaterstandspeelbuis Ligging (RD) 206124, 602258 Bantswal Afwerking Koker NTS-kode B02G1842002 SUN-kode 91102301B032B OLA-kode Kode derden BW1B Meetperiode 05-10-2007 tot heden Opdrachtgever Staatsbosbeheer Noord Eigenaar Staatsbosbeheer Noord Waarnemer Staatsbosbeheer Noord DINO beheer Staatsbosbeheer	Gegevens van 05-10-2007 tot heden Bovenkant buis 77 cm NAP Maalveld (mv) 31 cm NAP Bovenkant filter -119 cm NAP Onderkant filter -169 cm NAP Onderkant zandvang -169 cm NAP Lengte stijgbuis 196 cm Filterlengte 50 cm Zandvanglengte 0 cm Buislengte 246 cm Afstand buis tot mv 46 cm Diepte filter onder mv 200 cm Materiaal 36/40 PVC
Statistieken 23-10-2007 tot 24-01-2018 In cm t.o.v. NAP Aantal standen 3698 Aantal kodes 49 Laagste stand -120 Gemeten op 16-08-2014 Hoogste stand 32 Gemeten op 22-10-2010 Gemiddelde -23.6 Standaard afw. 43.9	GxG statistieken In cm t.o.v. NAP HG3 VG3 LG3 GT3 2007 2008 27 4 -103 V 2009 26 4 -101 V 2010 28 -8 -94 V 2011 27 -31 -72 III 2012 28 -16 -65 III 2013 26 4 -77 III 2014 23 -11 -108 V 2015 26 -9 -98 V 2016 24 8 -108 V 2017 29 -13 -99 V

Referentie: NAP | Maalveld | Nulpunt Instellingen menu Losse punten verbind Symbolen plotten Opmerkingen tonen Export menu



B033A **B033B**

B033B
 Type meetpunt grondwaterstandspeilbuis
 Ligging (RD) 206262, 602162
 Bantswal
 Afwerking Koker
 NTO-kode B02G1843002
 SUN-kode 91102301B033B
 OLG-kode
 Kode derden BW3B
 Meetperiode 05-10-2007 tot heden
 Opdrachtgever Staatsbosbeheer Noord
 Eigenaar Staatsbosbeheer Noord
 Waarnemer Staatsbosbeheer Noord
 DINO beheer Staatsbosbeheer

Gegevens van 05-10-2007 tot heden

Bovenkant buis	3	cm NAP
Maaiveld (mv)	-41	cm NAP
Bovenkant filter	-209	cm NAP
Onderkant filter	-259	cm NAP
Onderkant zandvang	-259	cm NAP
Lengte stijpbuis	212	cm
Filterlengte	50	cm
Zandvanglengte	0	cm
Buislengte	262	cm
Afstand buis tot mv	44	cm
Diepte filter onder mv	218	cm
Materiaal	36/40 PVC	

Statistieken
 23-10-2007 tot 24-01-2018
 In cm t.o.v. NAP

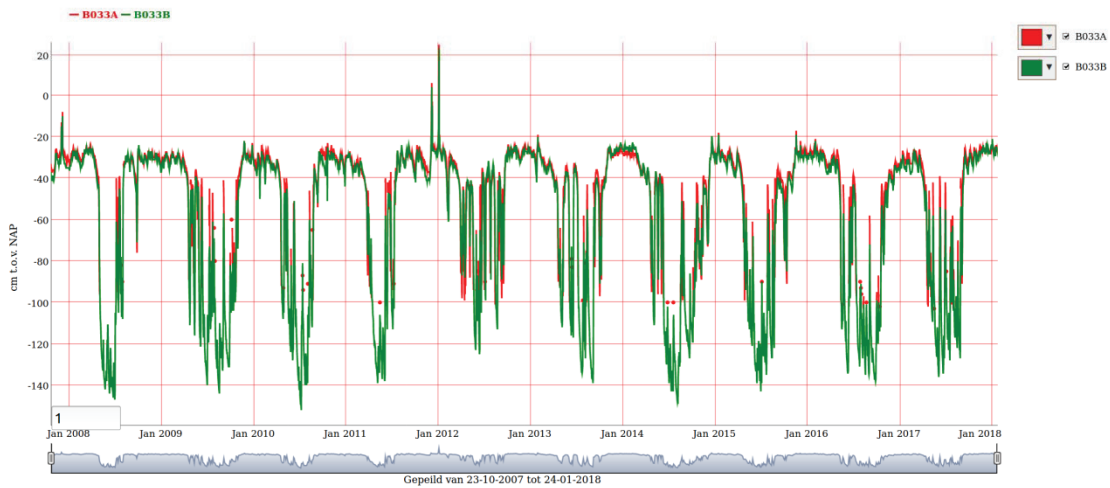
Aantal standen 3747
 Aantal codes 0
 Laagste stand -152
 Gemeten op 10-07-2010
 Hoogste stand 23
 Gemeten op 06-01-2012
 Gemiddelde -58.3
 Standaard afw. 36.5

GxG statistieken
 In cm t.o.v. NAP

HG3	VG3	LG3	GT3
2008	-27	-29	-133 III
2009	-26	-34	-132 III
2010	-29	-37	-127 III
2011	-27	-64	-125 III
2012	-26	-47	-105 II
2013	-26	-38	-113 II
2014	-26	-36	-131 III
2015	-28	-37	-131 III
2016	-28	-33	-129 III
2017	-24	-40	-125 III
2018			

Referentie: NAP | Maaiveld | Nulpunt

Instellingen menu | Losse punten verbind | Symbolen plotten | Opmerkingen tonen | Export menu



B034A **B034B**

B034B
 Type meetpunt grondwaterstandspeilbuis
 Ligging (RD) 205943, 601067
 Bantswal
 Afwerking Koker
 NTO-kode B02G1844002
 SUN-kode 91102301B034B
 OLG-kode
 Kode derden BW8B
 Meetperiode 05-10-2007 tot heden
 Opdrachtgever Staatsbosbeheer Noord
 Eigenaar Staatsbosbeheer Noord
 Waarnemer Staatsbosbeheer Noord
 DINO beheer Staatsbosbeheer

Gegevens van 05-10-2007 tot heden

Bovenkant buis	33	cm NAP
Maaiveld (mv)	-12	cm NAP
Bovenkant filter	-173	cm NAP
Onderkant filter	-223	cm NAP
Onderkant zandvang	-223	cm NAP
Lengte stijpbuis	206	cm
Filterlengte	50	cm
Zandvanglengte	0	cm
Buislengte	256	cm
Afstand buis tot mv	45	cm
Diepte filter onder mv	211	cm
Materiaal	36/40 PVC	

Statistieken
 23-10-2007 tot 24-01-2018
 In cm t.o.v. NAP

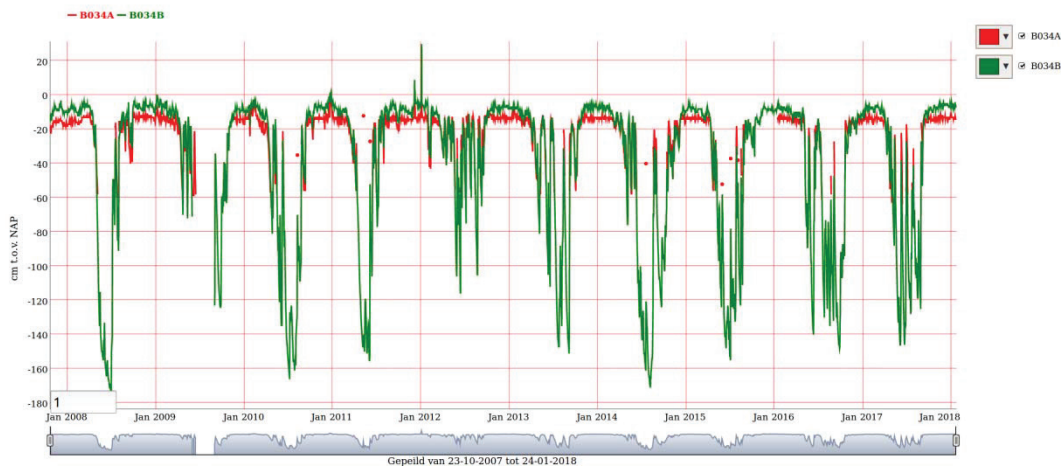
Aantal standen 3655
 Aantal codes 0
 Laagste stand -175
 Gemeten op 02-07-2008
 Hoogste stand 30
 Gemeten op 06-01-2012
 Gemiddelde -37.3
 Standaard afw. 43.6

GxG statistieken
 In cm t.o.v. NAP

HG3	VG3	LG3	GT3
2007			
2008	-7	-162	V
2009	-11		
2010	-4	-144	V
2011	-6	-34	-136 V
2012	-7	-21	-85 II
2013	-7	-13	-116 III
2014	-8	-15	-152 V
2015	-7	-14	-135 V
2016	-8	-10	-125 III
2017	-5	-13	-128 III
2018			

Referentie: NAP | Maaiveld | Nulpunt

Instellingen menu | Losse punten verbind | Symbolen plotten | Opmerkingen tonen | Export menu



B035A **B035B**

B035B
 Type meetpunt grondwaterstandspeilbus
 Ligging (RD) 206009, 601063 Bantswal
 Afwerking Koker
 NTG-kode B02G1845002
 SUN-kode 91102301B035B
 OLGA-kode
 Kode derden BW9B
 Meetperiode 05-10-2007 tot heden
 Opdrachtgever Staatsbosbeheer Noord
 Eigenaar Staatsbosbeheer Noord
 Waarnemer Staatsbosbeheer Noord
 DINO beheer Staatsbosbeheer

Gegevens van 05-10-2007 tot heden

Bovenkant bus	-7	cm NAP
Maaiveld (mv)	-50	cm NAP
Bovenkant filter	-198	cm NAP
Onderkant filter	-248	cm NAP
Onderkant zandvang	-248	cm NAP
Lengte stijgbuis	191	cm
Filterlengte	50	cm
Zandvanglengte	0	cm
Buislengte	241	cm
Afstand bus tot mv	43	cm
Diepte filter onder mv	198	cm
Materiaal	36/40 PVC	

Statistieken
 23-10-2007 tot 24-01-2018
 In cm t.o.v. NAP

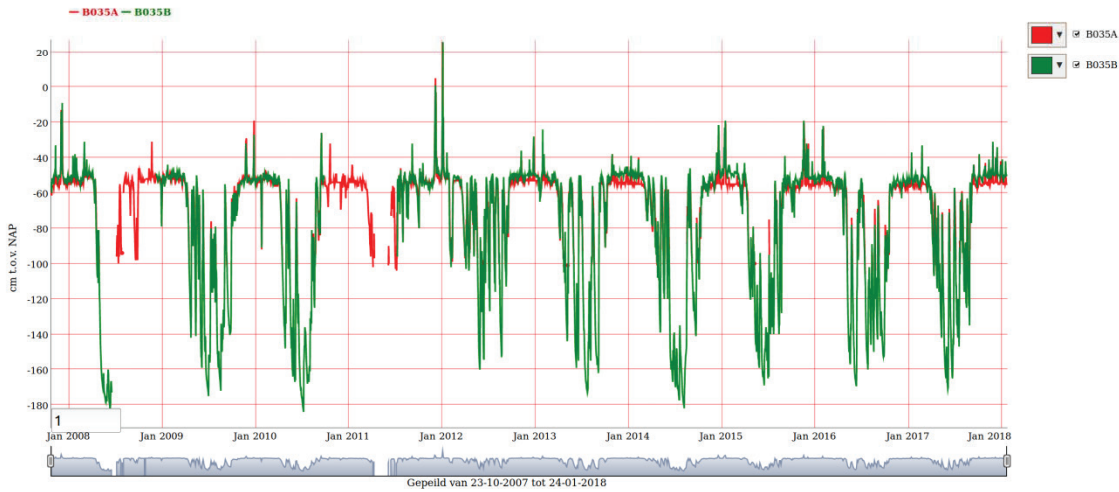
Aantal standen	3288
Aantal kodes	0
Laagste stand	-184
Gemeten op	10-07-2010
Hoogste stand	26
Gemeten op	06-01-2012
Gemiddelde	-77,5
Standaard afw.	38,6

GxG statistieken
 In cm t.o.v. NAP

	HG3	VG3	LG3	GT3
2008	-51			
2009	-38	-57	-158	III
2010	-62			
2011				
2012	-48	-71	-135	III
2013	-49	-65	-150	III
2014	-50	-63	-161	
2015	-40	-62	-158	III
2016	-50	-54	-146	
2017	-36	-65	-146	III
2018				

Referentie : NAP | Maaiveld | Nulpunt

Instellingen menu | Losse punten verbind | Symbolen plotten | Opmerkingen tonen | Export menu



B036A **B036B**

B036B
 Type meetpunt grondwaterstandspeilbus
 Ligging (RD) 210755, 601970 Juffrouw Alie
 Afwerking Koker
 NTG-kode B02H1016002
 SUN-kode 91102301B036B
 OLGA-kode
 Kode derden JA3B
 Meetperiode 05-10-2007 tot heden
 Opdrachtgever Staatsbosbeheer Noord
 Eigenaar Staatsbosbeheer Noord
 Waarnemer Staatsbosbeheer Noord
 DINO beheer Staatsbosbeheer

Gegevens van 05-10-2007 tot heden

Bovenkant bus	4	cm NAP
Maaiveld (mv)	-41	cm NAP
Bovenkant filter	-191	cm NAP
Onderkant filter	-241	cm NAP
Onderkant zandvang	-241	cm NAP
Lengte stijgbuis	195	cm
Filterlengte	50	cm
Zandvanglengte	0	cm
Buislengte	245	cm
Afstand bus tot mv	45	cm
Diepte filter onder mv	200	cm
Materiaal	36/40 PVC	

Statistieken
 23-10-2007 tot 24-01-2018
 In cm t.o.v. NAP

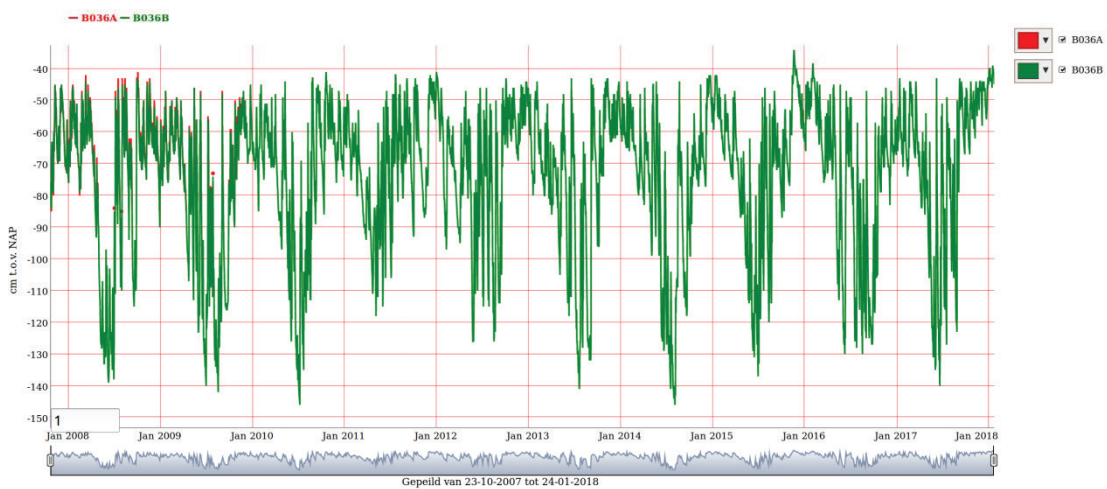
Aantal standen	3746
Aantal kodes	1
Laagste stand	-146
Gemeten op	10-07-2010
Hoogste stand	-34
Gemeten op	22-11-2015
Gemiddelde	-74,3
Standaard afw.	23,5

GxG statistieken
 In cm t.o.v. NAP

	HG3	VG3	LG3	GT3
2007				
2008	-50	-65	-126	III
2009	-51	-67	-126	III
2010	-47	-73	-117	II
2011	-50	-65	-98	II
2012	-50	-79	-112	II
2013	-47	-72	-115	II
2014	-47	-70	-127	III
2015	-45	-69	-121	II
2016	-47	-62	-118	II
2017	-44	-68	-119	II
2018				

Referentie : NAP | Maaiveld | Nulpunt

Instellingen menu | Losse punten verbind | Symbolen plotten | Opmerkingen tonen | Export menu



B037A **B037B**

B037B
 Type meetpunt grondwaterstandspijpbuis
 Ligging (RD) 211271, 600545
 De Lussen
 Afwerking Koker
 NTC-kode B02H107002
 SUN-kode 91102301B037B
 OLG-kode
 Kode derden LA3B
 Meetperiode 05-10-2007 tot heden
 Opdrachtgever Staatsbosbeheer Noord
 Eigenaar Staatsbosbeheer Noord
 Waarnemer Staatsbosbeheer Noord
 DINO beheer Staatsbosbeheer

Gegevens van 05-10-2007 tot heden

Bovenkant buis	-18	cm NAP
Maaiveld (mv)	-66	cm NAP
Bovenkant filter	-213	cm NAP
Onderkant filter	-263	cm NAP
Onderkant zandvang	-263	cm NAP
Lengte stijpbuis	195	cm
Filterlengte	50	cm
Zandvanglengte	0	cm
Buislengte	245	cm
Afstand buis tot mv	48	cm
Diepte filter onder mv	197	cm
Materiaal	36/40 PVC	

Statistieken
 23-10-2007 tot 24-01-2018
 In cm t.o.v. NAP

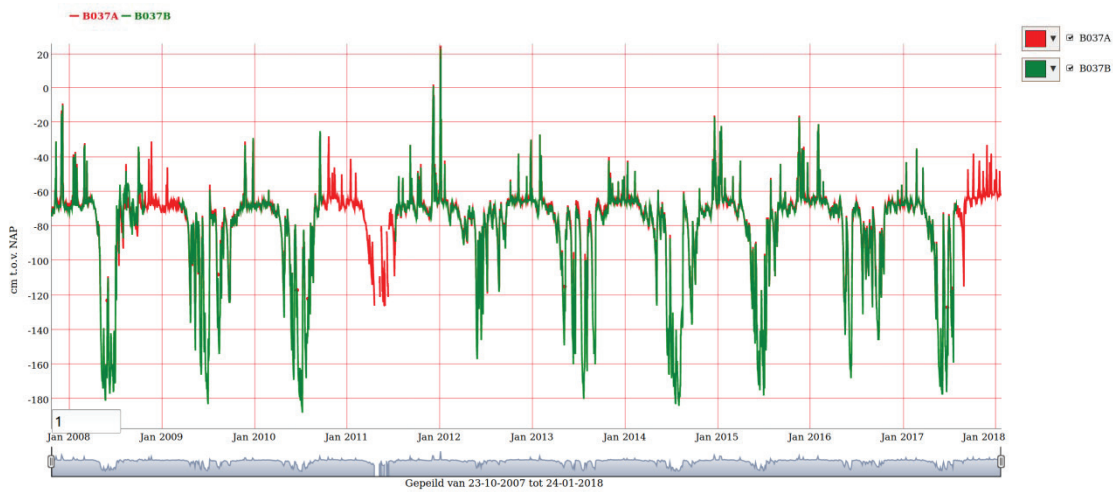
Aantal standen 3147
 Aantal kodes 2
 Laagste stand -188
 Gemeten op 10-07-2010
 Hoogste stand 23
 Gemeten op 06-01-2012
 Gemiddelde -83,5
 Standaard afw. 30,6

GxG statistieken
 In cm t.o.v. NAP

	HG3	VG3	LG3	GT3
2007				
2008	-58	-67	-166	III
2009	-46	-70	-157	III
2010		-74		
2011				
2012	-65	-77	-128	II
2013	-64	-74	-132	II
2014	-64	-73	-155	III
2015	-52	-71	-151	III
2016	-64	-70	-127	II
2017		-74		

Referentie : NAP | Maaiveld | Nulpunt

[Instellingen menu](#) [Losse punten verbind](#) [Symbolen plotten](#) [Opmerkingen tonen](#) [Export menu](#)



B038A **B038B**

B038B
 Type meetpunt grondwaterstandspijpbuis
 Ligging (RD) 209314, 601598
 De Rug
 Afwerking Koker
 NTC-kode B02C1846002
 SUN-kode 91102301B038B
 OLG-kode
 Kode derden RU1B
 Meetperiode 05-10-2007 tot heden
 Opdrachtgever Staatsbosbeheer Noord
 Eigenaar Staatsbosbeheer Noord
 Waarnemer Staatsbosbeheer Noord
 DINO beheer Staatsbosbeheer

Gegevens van 05-10-2007 tot heden

Bovenkant buis	12	cm NAP
Maaiveld (mv)	-39	cm NAP
Bovenkant filter	-180	cm NAP
Onderkant filter	-230	cm NAP
Onderkant zandvang	-230	cm NAP
Lengte stijpbuis	192	cm
Filterlengte	50	cm
Zandvanglengte	0	cm
Buislengte	242	cm
Afstand buis tot mv	51	cm
Diepte filter onder mv	191	cm
Materiaal	36/40 PVC	

Statistieken
 23-10-2007 tot 25-01-2018
 In cm t.o.v. NAP

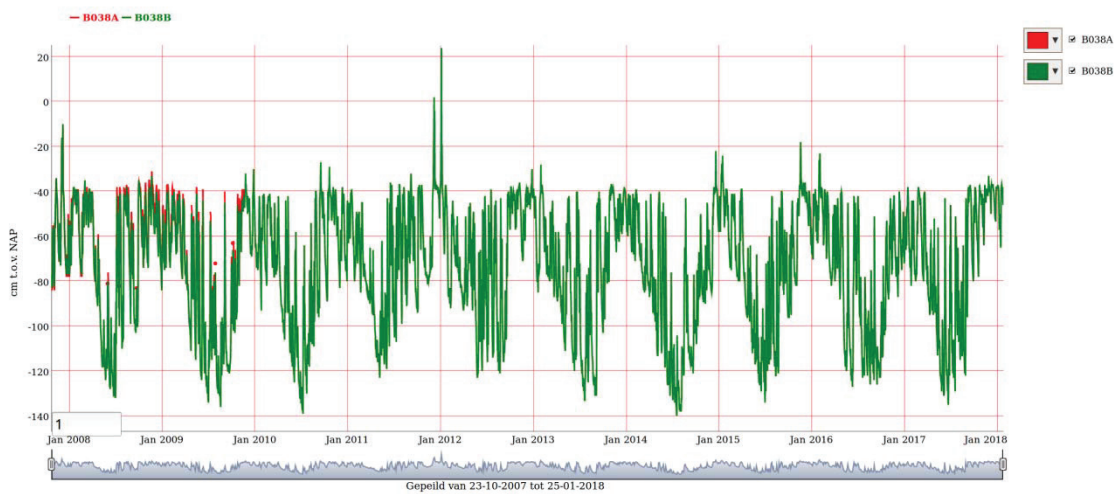
Aantal standen 3747
 Aantal kodes 1
 Laagste stand -140
 Gemeten op 20-07-2014
 Hoogste stand 24
 Gemeten op 06-01-2012
 Gemiddelde -73,6
 Standaard afw. 27,4

GxG statistieken
 In cm t.o.v. NAP

	HG3	VG3	LG3	GT3
2007				
2008	-40	-59	-114	II
2009	-37	-62	-125	III
2010	-42	-78	-118	II
2011	-41	-86	-106	II
2012	-41	-82	-114	II
2013	-41	-71	-116	II
2014	-42	-76	-128	III
2015	-36	-74	-121	III
2016	-42	-60	-121	III
2017	-36	-76	-122	III

Referentie : NAP | Maaiveld | Nulpunt

[Instellingen menu](#) [Losse punten verbind](#) [Symbolen plotten](#) [Opmerkingen tonen](#) [Export menu](#)



B039A
B039B

B039B

Type meetpunt grondwaterstandspeilbuis
208521, 601689
De Rug

Ligging (RD) Koker

Afwerking B02G1847002

NITG-kode 91102301B039B

SUN-kode OLG-kode RU3B

Kode derden 05-10-2007 tot heden

Meetperiode Opdrachtgever Staatsbosbeheer Noord

Eigenaar Staatsbosbeheer Noord

Waarnemer Staatsbosbeheer Noord

DINO beheer Staatsbosbeheer

Gegevens van 05-10-2007 tot heden

Bovenkant buis	62	cm NAP
Maasveld (mv)	14	cm NAP
Bovenkant filter	-134	cm NAP
Onderkant filter	-184	cm NAP
Onderkant zandvang	-184	cm NAP
Lengte stijgbuis	196	cm
Filterlengte	50	cm
Zandvanglengte	0	cm
Buislengte	246	cm
Afstand buis tot mv	48	cm
Diepte filter onder mv	198	cm
Materiaal	36/40 PVC	

Statistieken
23-10-2007 tot 25-01-2018
In cm t.o.v. NAP

Aantal standen 3747

Aantal codes 1

Laagste stand -84

Gemeten op 08-08-2014

Hoogste stand 23

Gemeten op 06-01-2012

Gemiddelde -4,7

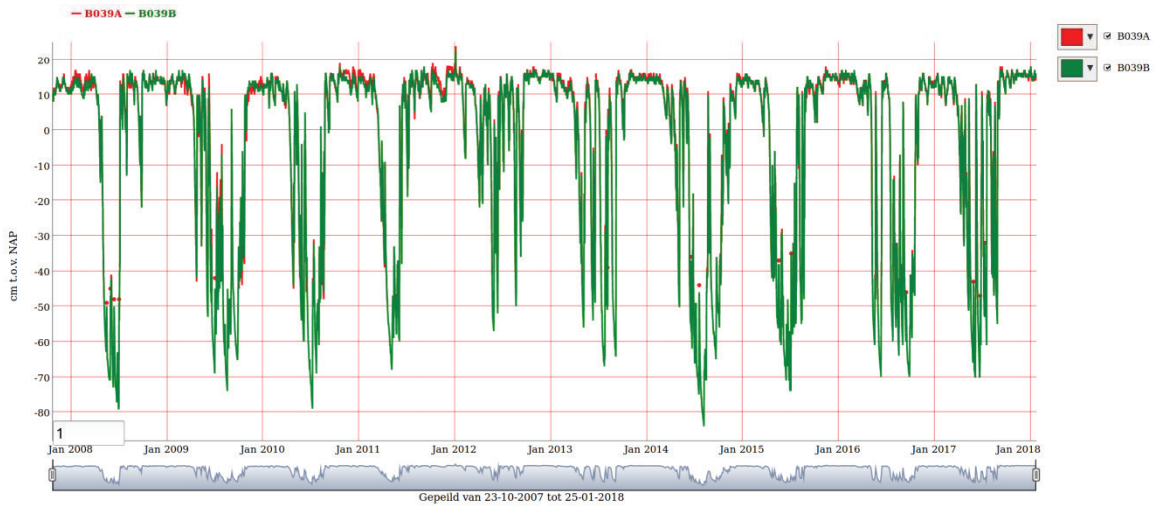
Standaard afw. 27,1

GxG statistieken
In cm t.o.v. NAP

	HG3	VG3	LG3	GT3
2007				
2008	16	12	-65	II
2009	15	11	-65	II
2010	15	7	-57	II
2011	15	-14	-54	II
2012	16	2	-37	II
2013	15	8	-46	II
2014	14	7	-69	
2015	15	6	-66	II
2016	16	12	-61	II
2017	16	5	-55	II

Referentie: NAP | Maasveld | Nulpunt

Instellingen menu
Losse punten verbind
Symbolen plotten
Opmerkingen tonen
Export menu



B040A
B040B

B040B

Type meetpunt grondwaterstandspeilbuis
208013, 601738
De Rug

Ligging (RD) Koker

Afwerking B02G1848002

NITG-kode 91102301B040B

SUN-kode OLG-kode RU3B

Kode derden 05-10-2007 tot heden

Meetperiode Opdrachtgever Staatsbosbeheer Noord

Eigenaar Staatsbosbeheer Noord

Waarnemer Staatsbosbeheer Noord

DINO beheer Staatsbosbeheer

Gegevens van 05-10-2007 tot heden

Bovenkant buis	15	cm NAP
Maasveld (mv)	-4	cm NAP
Bovenkant filter	-177	cm NAP
Onderkant filter	-227	cm NAP
Onderkant zandvang	-227	cm NAP
Lengte stijgbuis	192	cm
Filterlengte	50	cm
Zandvanglengte	0	cm
Buislengte	242	cm
Afstand buis tot mv	19	cm
Diepte filter onder mv	223	cm
Materiaal	36/40 PVC	

Statistieken
23-10-2007 tot 26-08-2017
In cm t.o.v. NAP

Aantal standen 3594

Aantal codes 2

Laagste stand -126

Gemeten op 07-08-2014

Hoogste stand 21

Gemeten op 06-01-2012

Gemiddelde -44,7

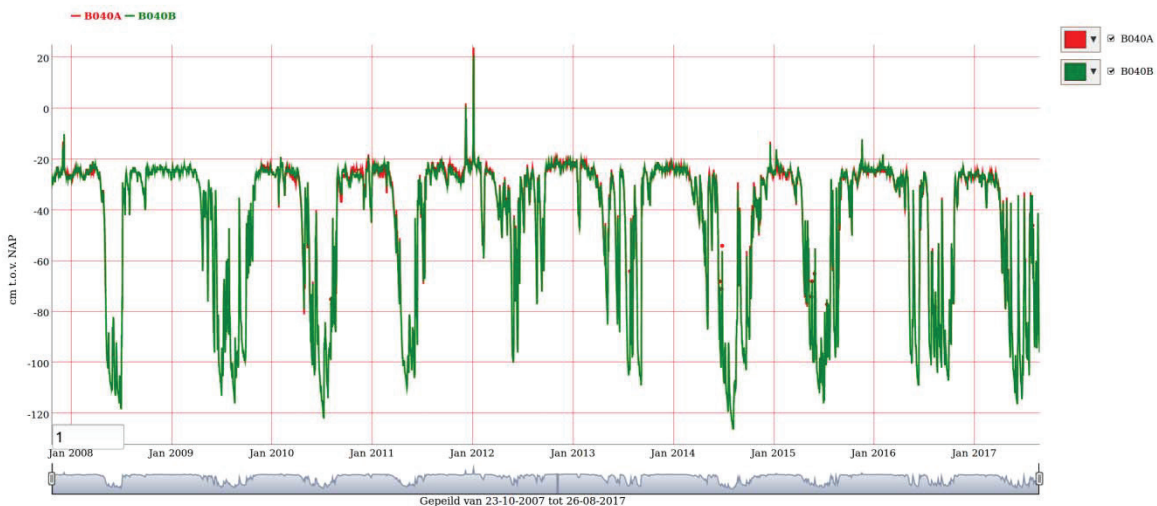
Standaard afw. 28,6

GxG statistieken
In cm t.o.v. NAP

	HG3	VG3	LG3	GT3
2007				
2008	-23	-25	-107	III
2009	-22	-26	-105	III
2010	-24	-28	-102	III
2011	-22	-51	-99	III
2012	-22	-33	-81	II
2013	-22	-30	-78	II
2014	-24	-33	-112	III
2015	-23	-31	-104	III
2016	-24	-27	-101	III
2017			-36	

Referentie: NAP | Maasveld | Nulpunt

Instellingen menu
Losse punten verbind
Symbolen plotten
Opmerkingen tonen
Export menu



B041A **B041B**

B041B

Type meetpunt grondwaterstandspeilbuis

Ligging (RD) 208993, 599629
Zuidelijke Lob

Afwerking Koker

NITG-kode B06E283002

SUN-kode 91102301B041B

OLGA-kode

Kode dierden ZL3B

Meetperiode 05-10-2007 tot heden

Opdrachtgever Staatsbosbeheer Noord

Eigenaar Staatsbosbeheer Noord

Waarnemer Staatsbosbeheer Noord

DINO beheer Staatsbosbeheer

Gegevens van 05-10-2007 tot heden

Bovenkant buis	-21	cm	NAP
Maalveld (mv)	-64	cm	NAP
Bovenkant filter	-215	cm	NAP
Onderkant filter	-265	cm	NAP
Onderkant zandvang	-265	cm	NAP
Langte stijgbuis	194	cm	
Filterlengte	50	cm	
Zandvanglengte	0	cm	
Buislengte	244	cm	
Afstand buis tot mv	43	cm	
Diepte filter onder mv	201	cm	
Materiaal	36/40	PVC	

Statistieken
23-10-2007 tot 25-01-2018
In cm t.o.v. NAP

Aantal standen 3746

Aantal codes 2

Laagste stand -193

Gemeten op 08-08-2014

Hoogste stand 24

Gemeten op 06-01-2012

Gemiddelde -95.2

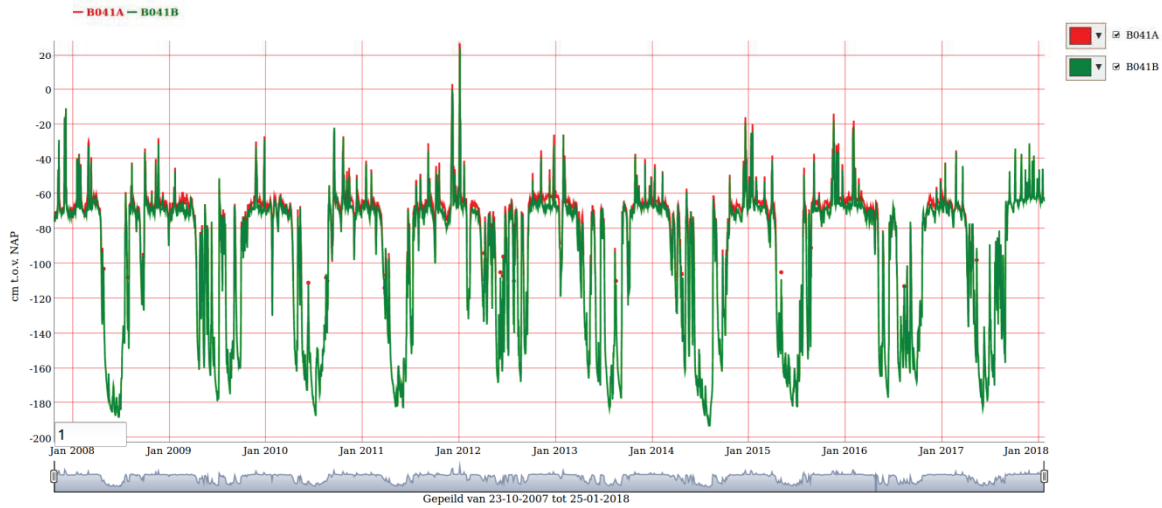
Standaard afw. 40.6

GxG statistieken
In cm t.o.v. NAP

	HG3	VG3	LG3	GT3
2007				
2008	-56	-68	-181	III
2009	-46	-78	-166	III
2010	-64	-79	-167	
2011	-56	-103	-175	III
2012	-66	-92	-153	III
2013	-66	-81	-165	III
2014	-67	-87	-182	III
2015	-54	-79	-173	III
2016	-65	-71	-164	III
2017	-39	-79	-167	III

Referentie : NAP | Maalveld | Nulpunt

Instellingen menu | Losse punten verbind | Symbolen plotten | Opmerkingen tonen | Export menu



B042A **B042B**

B042B

Type meetpunt grondwaterstandspeilbuis

Ligging (RD) 208091, 599656
Zuidelijke Lob

Afwerking Koker

NITG-kode B06E2834002

SUN-kode 91102301B042B

OLGA-kode

Kode dierden ZL5B

Meetperiode 05-10-2007 tot heden

Opdrachtgever Staatsbosbeheer Noord

Eigenaar Staatsbosbeheer Noord

Waarnemer Staatsbosbeheer Noord

DINO beheer Staatsbosbeheer

Gegevens van 05-10-2007 tot heden

Bovenkant buis	-1	cm	NAP
Maalveld (mv)	-44	cm	NAP
Bovenkant filter	-196	cm	NAP
Onderkant filter	-246	cm	NAP
Onderkant zandvang	-246	cm	NAP
Langte stijgbuis	195	cm	
Filterlengte	50	cm	
Zandvanglengte	0	cm	
Buislengte	245	cm	
Afstand buis tot mv	43	cm	
Diepte filter onder mv	202	cm	
Materiaal	36/40	PVC	

Statistieken
23-10-2007 tot 25-01-2018
In cm t.o.v. NAP

Aantal standen 3746

Aantal codes 2

Laagste stand -165

Gemeten op 08-08-2014

Hoogste stand 25

Gemeten op 06-01-2012

Gemiddelde -72.3

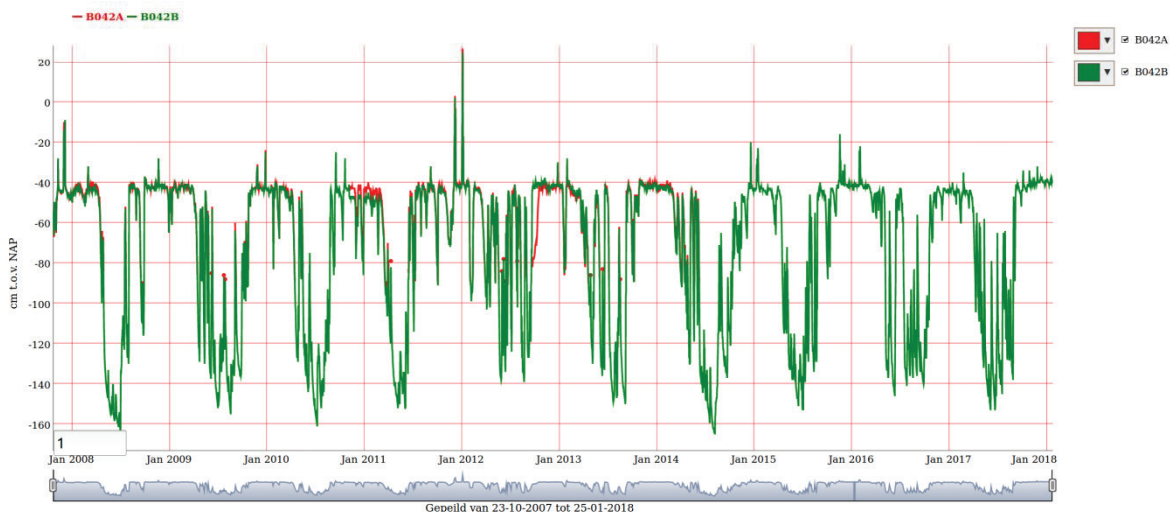
Standaard afw. 37.8

GxG statistieken
In cm t.o.v. NAP

	HG3	VG3	LG3	GT3
2007				
2008	-41	-47	-154	III
2009	-33	-50	-142	III
2010	-43	-57	-140	III
2011	-42	-91	-144	III
2012	-40	-68	-126	III
2013	-42	-55	-132	III
2014	-42	-66	-152	III
2015	-37	-51	-142	III
2016	-41	-45	-135	III
2017	-37	-56	-141	III

Referentie : NAP | Maalveld | Nulpunt

Instellingen menu | Losse punten verbind | Symbolen plotten | Opmerkingen tonen | Export menu



B043

B043
 Type meetpunt grondwaterstandspeilbuis
 Ligging (RD) 210424, 598393 Zuidelijke ballastplaat
 Aferking Koker
 NITG-kode B05F2146001
 SUN-kode 91102301B043
 OLAGA-kode 50
 Kode derden ZB2
 Meetperiode 01-01-1970 tot heden
 Opdrachtgever Staatsbosbeheer Noord
 Eigenaar Staatsbosbeheer Noord
 Waarnemer Staatsbosbeheer Noord
 DINO beheer Staatsbosbeheer

Gegevens van 26-09-2014 tot heden

Bovenkant buis	32	cm NAP
Maaiveld (mv)	-14	cm NAP
Bovenkant filter	-161	cm NAP
Onderkant filter	-211	cm NAP
Onderkant zandvang	-211	cm NAP
Lengte stijgbuis	193	cm
Filterlengte	50	cm
Zandvanglengte	0	cm
Buislengte	243	cm
Afstand buis tot mv	46	cm
Diepte filter onder mv	197	cm
Materiaal	36/40 PVC	

Statistieken
 27-09-2014 tot 25-01-2018
 In cm t.o.v. NAP

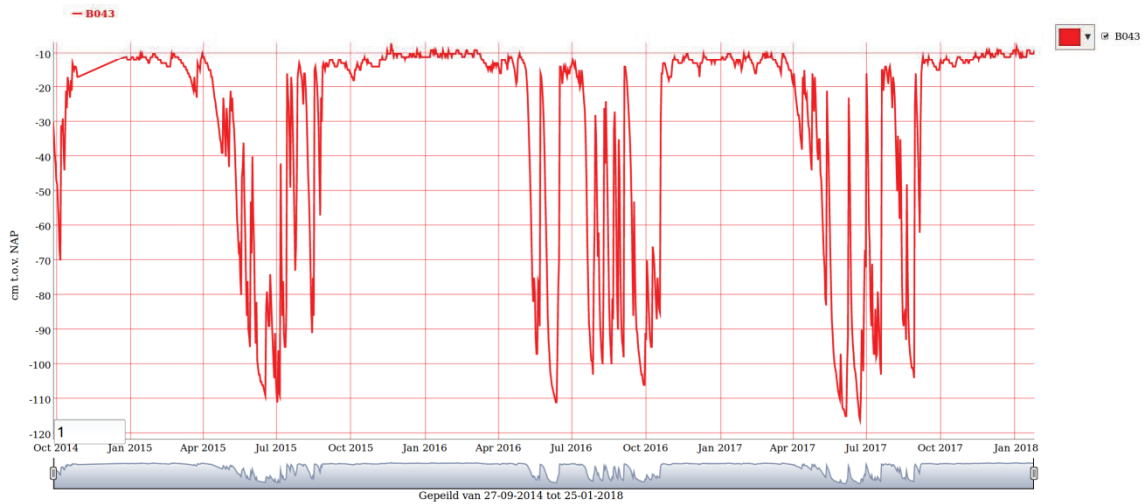
Aantal standen	1160
Aantal kodes	0
Laagste stand	-116
Gemeten op	23-06-2017
Hoogste stand	-7
Gemeten op	20-11-2015
Gemiddelde	-31.5
Standaard atw.	31.3

GxG statistieken
 In cm t.o.v. NAP

	HG3	VG3	LG3	GT3
2014				
2015	-10	-17	-101	III
2016	-10	-13	-92	II
2017	-10	-17	-103	III
2018				

Referentie: NAP | Maaiveld | Nulpunt

Instellingen menu | Losse punten verbind | Symbolen plotten | Opmerkingen tonen | Export menu



B044

B044
 Type meetpunt grondwaterstandspeilbuis
 Ligging (RD) 209810, 598278 Zuidelijke ballastplaat
 Aferking Koker
 NITG-kode B06E2835001
 SUN-kode 91102301B044
 OLAGA-kode 50
 Kode derden ZB3
 Meetperiode 01-01-1970 tot heden
 Opdrachtgever Staatsbosbeheer Noord
 Eigenaar Staatsbosbeheer Noord
 Waarnemer Staatsbosbeheer Noord
 DINO beheer Staatsbosbeheer

Gegevens van 26-09-2014 tot heden

Bovenkant buis	36	cm NAP
Maaiveld (mv)	-12	cm NAP
Bovenkant filter	-159	cm NAP
Onderkant filter	-209	cm NAP
Onderkant zandvang	-209	cm NAP
Lengte stijgbuis	195	cm
Filterlengte	50	cm
Zandvanglengte	0	cm
Buislengte	245	cm
Afstand buis tot mv	48	cm
Diepte filter onder mv	197	cm
Materiaal	36/40 PVC	

Statistieken
 27-09-2014 tot 25-01-2018
 In cm t.o.v. NAP

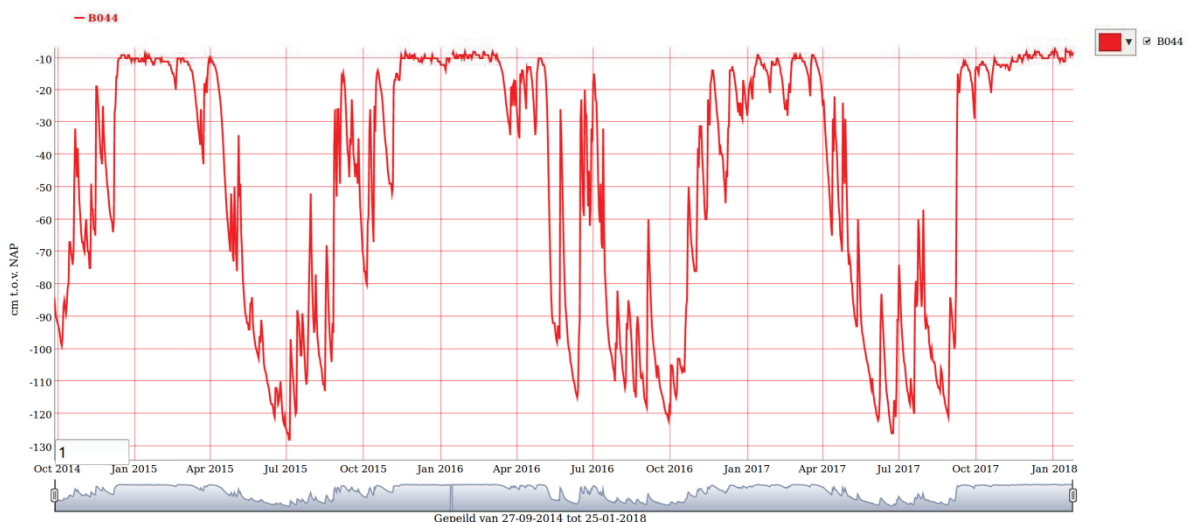
Aantal standen	1216
Aantal kodes	1
Laagste stand	-128
Gemeten op	04-07-2015
Hoogste stand	-7
Gemeten op	03-01-2018
Gemiddelde	-48.2
Standaard atw.	39.7

GxG statistieken
 In cm t.o.v. NAP

	HG3	VG3	LG3	GT3
2014				
2015	-10	-23	-117	III
2016	9	-15	-112	III
2017	9	-23	-116	III
2018				

Referentie: NAP | Maaiveld | Nulpunt

Instellingen menu | Losse punten verbind | Symbolen plotten | Opmerkingen tonen | Export menu



B045

Type meetpunt grondwaterstandspeilbuis

Ligging (RD) 212024, 596383
Schildhoek

Afwerking Koker

NTG-kode B06F2147001

SUN-kode 91102301B045

OLGA-kode

Kode derden SH2

Meetperiode 01-01-1970 tot heden

Opdrachtgever Staatsbosbeheer Noord

Eigenaar Staatsbosbeheer Noord

Waarnemer Staatsbosbeheer Noord

DINO beheer Staatsbosbeheer

Gegevens van 12-09-2014 tot heden

Bovenkant buis	31	cm NAP
Maaveld (mv)	-14	cm NAP
Bovenkant filter	-165	cm NAP
Onderkant filter	-215	cm NAP
Onderkant zandvang	-215	cm NAP
Lenste stijpbuis	196	cm
Filterlengte	50	cm
Zandvanglengte	0	cm
Buislengte	246	cm
Afstand buis tot mv	45	cm
Diepte filter onder mv	201	cm
Materiaal	36/40 PVC	

Statistieken
13-09-2014 tot 25-01-2018
In cm Lo.v. NAP

Aantal standen 1231

Aantal kodes 0

Laagste stand -130

Gemeten op 04-07-2015

Hoogste stand -7

Gemeten op 20-11-2015

Gemiddelde -39.3

Standaard afw. 38.7

GxG statistieken
In cm Lo.v. NAP

	HG3	VG3	LG3	GT3
2014				
2015	-10	-15	-117	III
2016	-10	-12	-120	III
2017	-9	-16	-117	III
2018				

Referentie : NAP | Maaveld | Nulpunt Instellingen menu Losse punten verbind Symbolen plotten Opmerkingen tonen Export menu

B046

Type meetpunt grondwaterstandspeilbuis

Ligging (RD) 211821, 596117
Schildhoek

Afwerking Koker

NTG-kode B06F2148001

SUN-kode 91102301B046

OLGA-kode

Kode derden SH3

Meetperiode 01-01-1970 tot heden

Opdrachtgever Staatsbosbeheer Noord

Eigenaar Staatsbosbeheer Noord

Waarnemer Staatsbosbeheer Noord

DINO beheer Staatsbosbeheer

Gegevens van 12-09-2014 tot heden

Bovenkant buis	13	cm NAP
Maaveld (mv)	-29	cm NAP
Bovenkant filter	-180	cm NAP
Onderkant filter	-230	cm NAP
Onderkant zandvang	-230	cm NAP
Lenste stijpbuis	193	cm
Filterlengte	50	cm
Zandvanglengte	0	cm
Buislengte	243	cm
Afstand buis tot mv	42	cm
Diepte filter onder mv	201	cm
Materiaal	36/40 PVC	

Statistieken
13-09-2014 tot 25-01-2018
In cm Lo.v. NAP

Aantal standen 1231

Aantal kodes 0

Laagste stand -149

Gemeten op 29-09-2016

Hoogste stand -16

Gemeten op 19-11-2015

Gemiddelde -48.7

Standaard afw. 35

GxG statistieken
In cm Lo.v. NAP

	HG3	VG3	LG3	GT3
2014				
2015	-25	-29	-124	III
2016	-26	-27	-136	III
2017	-25	-29	-125	III
2018				

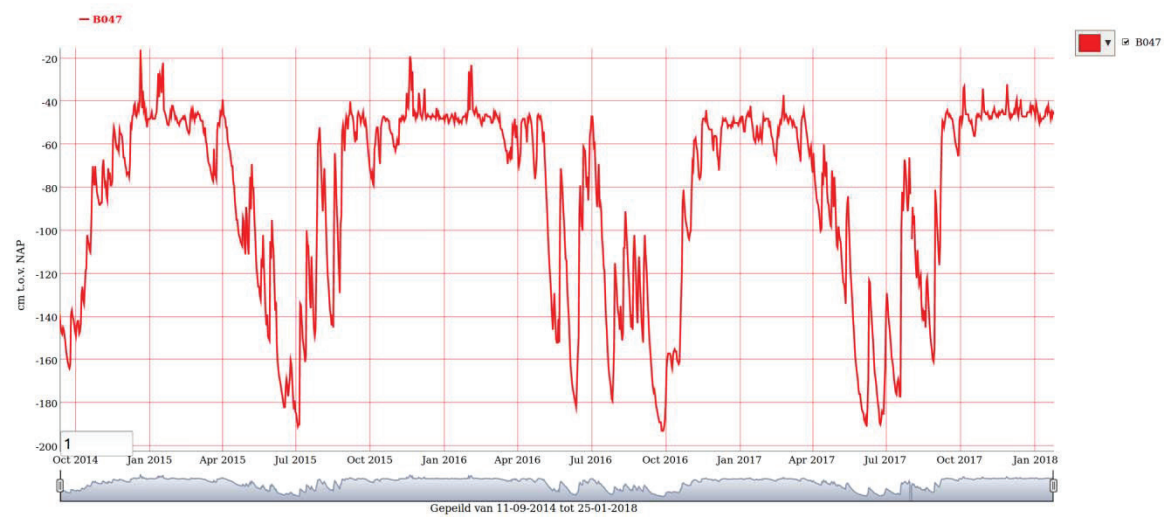
Referentie : NAP | Maaveld | Nulpunt Instellingen menu Losse punten verbind Symbolen plotten Opmerkingen tonen Export menu

89

B047

B047 Type meetpunt grondwaterstandspeilbuis Ligging (RD) 212412, 595762 Zoutkamperplaat Afwerking Koker NTC-kode B06F2149001 SUN-kode 91102301B047 OLAGA-kode Kode derden ZP1 Meetperiode 01-01-1970 tot heden Opdrachtgever Staatsbosbeheer Noord Eigenaar Staatsbosbeheer Noord Waarnemer Staatsbosbeheer Noord DINO beheer Staatsbosbeheer	Gegevens van 10-09-2014 tot heden Bovenkant buis 2 cm NAP Maaiveld (mv) -45 cm NAP Bovenkant filter -193 cm NAP Zandvanglengte 0 cm Onderkant zandvang -243 cm NAP Lengte stijgbuis 195 cm Filterlengte 50 cm Zandvanglengte 0 cm Buislengte 245 cm Afstand buis tot mv 47 cm Diepte filter onder mv 198 cm Materiaal 36/40 PVC	Statistieken 11-09-2014 tot 25-01-2018 In cm t.o.v. NAP Aantal standen 1232 Aantal kodes 1 Laagste stand -193 Gemeten op 26-09-2016 Hoogste stand -16 Gemeten op 20-12-2014 Gemiddelde -83.5 Standaard afw. 44.9	GxG statistieken In cm t.o.v. NAP HG3 VG3 LG3 GT3 2014 2015 -39 -65 -170 V 2016 -47 -51 -176 V 2017 -39 -68 -178 V 2018
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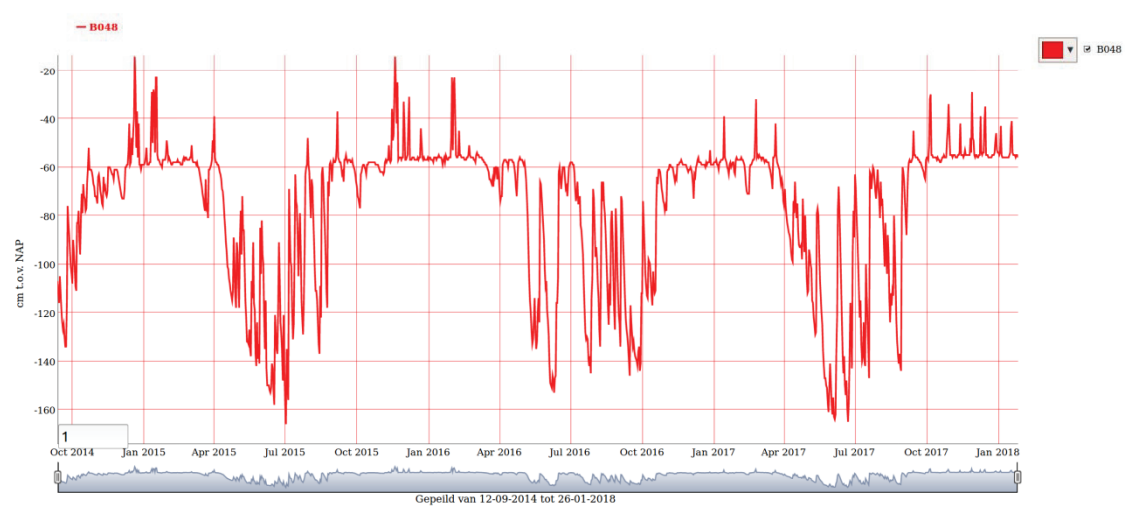
Referentie : NAP | Maaiveld | Nulpunt



B048

B048 Type meetpunt grondwaterstandspeilbuis Ligging (RD) 211439, 595340 Zoutkamperplaat Afwerking Koker NTC-kode B06F2150001 SUN-kode 91102301B048 OLAGA-kode Kode derden ZP4 Meetperiode 01-01-1970 tot heden Opdrachtgever Staatsbosbeheer Noord Eigenaar Staatsbosbeheer Noord Waarnemer Staatsbosbeheer Noord DINO beheer Staatsbosbeheer	Gegevens van 11-09-2014 tot heden Bovenkant buis -14 cm NAP Maaiveld (mv) -58 cm NAP Bovenkant filter -208 cm NAP Onderkant filter -258 cm NAP Onderkant zandvang -258 cm NAP Lengte stijgbuis 194 cm Filterlengte 50 cm Zandvanglengte 0 cm Buislengte 244 cm Afstand buis tot mv 44 cm Diepte filter onder mv 200 cm Materiaal 36/40 PVC	Statistieken 12-09-2014 tot 26-01-2018 In cm t.o.v. NAP Aantal standen 1233 Aantal kodes 0 Laagste stand -166 Gemeten op 02-07-2015 Hoogste stand -14 Gemeten op 19-11-2015 Gemiddelde -76.9 Standaard afw. 30.1	GxG statistieken In cm t.o.v. NAP HG3 VG3 LG3 GT3 2014 2015 -48 -68 -142 III 2016 -56 -59 -138 II 2017 -36 -69 -148 III 2018
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Referentie : NAP | Maaiveld | Nulpunt

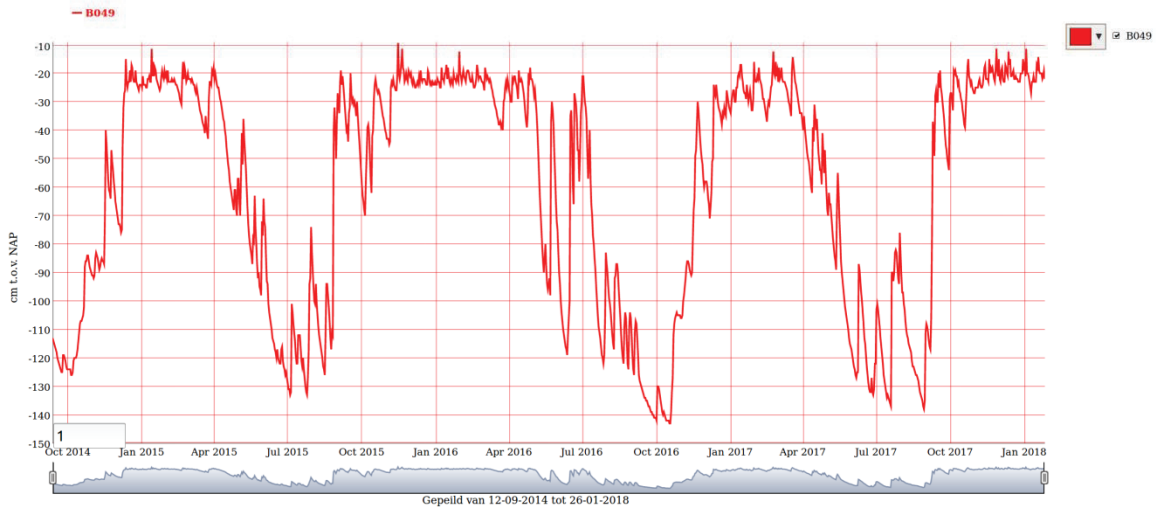


B049

Type meetpunt grondwaterstandspeilbuis Ligging (RD) 212783, 594504 Zoutkamperplaat Afwerking Koker NITG-kode B06F2151001 SUN-kode 91102301B049 OLGA-kode Kode derden ZP5 Meetperiode 01-01-1970 tot heden Opdrachtgever Staatsbosbeheer Noord Eigenaar Staatsbosbeheer Noord Waarnemer Staatsbosbeheer Noord DINO beheer Staatsbosbeheer	Gegevens van 11-09-2014 tot heden Bovenkant buis 42 cm NAP Maaiveld (mv) -2 cm NAP Bovenkant filter -155 cm NAP Onderkant filter -205 cm NAP Onderkant zandvang -205 cm NAP Lengte stijgbuis 197 cm Filterlengte 50 cm Zandvanglengte 0 cm Buislengte 247 cm Afstand buis tot mv 44 cm Diepte filter onder mv 203 cm Materiaal 36/40 PVC	Statistieken 12-09-2014 tot 26-01-2018 In cm t.o.v. NAP Aantal standen 1233 Aantal kodes 0 Laagste stand -143 Gemeten op 17-10-2016 Hoogste stand -9 Gemeten op 15-11-2015 Gemiddelde -59,5 Standaard afw. 40,7	GxG statistieken In cm t.o.v. NAP HG3 VG3 LG3 GT3 2014 2015 -20 -32 -121 III 2016 -20 -26 -138 V 2017 -17 -36 -134 V 2018
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Referentie: NAP | Maaiveld | Nulpunt

Instellingen menu | Losse punten verbind | Symbolen plotten | Opmerkingen tonen | Export menu

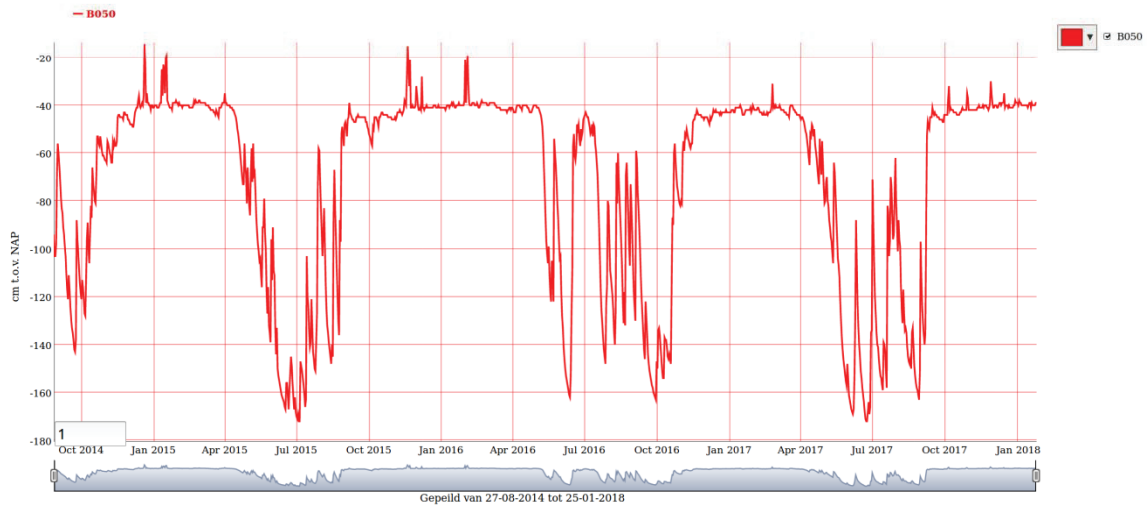


B050

Type meetpunt grondwaterstandspeilbuis Ligging (RD) 209469, 596163 Bijkraai Afwerking Koker NITG-kode B06E2829001 SUN-kode 91102301B050 OLGA-kode Kode derden BP2 Meetperiode 01-01-1970 tot heden Opdrachtgever Staatsbosbeheer Noord Eigenaar Staatsbosbeheer Noord Waarnemer Staatsbosbeheer Noord DINO beheer Staatsbosbeheer	Gegevens van 26-08-2014 tot heden Bovenkant buis 1 cm NAP Maaiveld (mv) -50 cm NAP Bovenkant filter -194 cm NAP Onderkant filter -244 cm NAP Onderkant zandvang -244 cm NAP Lengte stijgbuis 195 cm Filterlengte 50 cm Zandvanglengte 0 cm Buislengte 245 cm Afstand buis tot mv 51 cm Diepte filter onder mv 194 cm Materiaal 36/40 PVC	Statistieken 27-08-2014 tot 25-01-2018 In cm t.o.v. NAP Aantal standen 1248 Aantal kodes 0 Laagste stand -172 Gemeten op 04-07-2015 Hoogste stand -14 Gemeten op 20-12-2014 Gemiddelde -70,6 Standaard afw. 41,2	GxG statistieken In cm t.o.v. NAP HG3 VG3 LG3 GT3 2014 2015 -34 -42 -159 III 2016 -40 -41 -150 III 2017 -36 -47 -162 III 2018
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Referentie: NAP | Maaiveld | Nulpunt

Instellingen menu | Losse punten verbind | Symbolen plotten | Opmerkingen tonen | Export menu



B051

Type meetpunt grondwaterstandspeilbuis

Ligging (RD) 209411, 596469

Afwerking Koker

NITG-kode B06E2830001

SUN-kode 91102301B051

OLGA-kode

Kode derde BP3

Meetperiode 01-01-1970 tot heden

Opdrachtgever Staatsbosbeheer Noord

Eigenaar Staatsbosbeheer Noord

Waarnemer Staatsbosbeheer Noord

DINO beheer Staatsbosbeheer

Gegevens van 26-08-2014 tot heden

Bovenkant buis	-35	cm NAP
Maaveld (mv)	-74	cm NAP
Bovenkant filter	-228	cm NAP
Onderkant filter	-278	cm NAP
Onderkant zandvang	-278	cm NAP
Lengte stijgbuis	193	cm
Filterlengte	50	cm
Zandvanglengte	0	cm
Buislengte	243	cm
Afstand buis tot mv	39	cm
Diepte filter onder mv	204	cm
Materiaal	36/40 PVC	

Statistieken

27-08-2014 tot 25-01-2018

In cm t.o.v. NAP

Aantal standen 1248

Aantal kodes 0

Laagste stand -187

Gemeten op 05-07-2015

Hoogste stand -22

Gemeten op 20-12-2014

Gemiddelde -81.7

Standaard afw. 27.4

GxG statistieken

In cm t.o.v. NAP

	HG3	VG3	LG3	GT3
2014				
2015	-56	-70	-145	II
2016	-65	-66	-145	II
2017	-46	-74	-158	III
2018				

Referentie : NAP | Maaveld | Nulpunt Instellingen menu Losse punten verbind Symbolen plotten Opmerkingen tonen Export menu

Gepeld van 27-08-2014 tot 25-01-2018

B052

Type meetpunt grondwaterstandspeilbuis

Ligging (RD) 209454, 593364

Afwerking Koker

NITG-kode B06E2836001

SUN-kode 91102301B052

OLGA-kode

Kode derde SP1

Meetperiode 01-01-1970 tot heden

Opdrachtgever Staatsbosbeheer Noord

Eigenaar Staatsbosbeheer Noord

Waarnemer Staatsbosbeheer Noord

DINO beheer Staatsbosbeheer

Gegevens van 10-09-2014 tot heden

Bovenkant buis	41	cm NAP
Maaveld (mv)	-4	cm NAP
Bovenkant filter	-160	cm NAP
Onderkant filter	-210	cm NAP
Onderkant zandvang	-210	cm NAP
Lengte stijgbuis	201	cm
Filterlengte	50	cm
Zandvanglengte	0	cm
Buislengte	251	cm
Afstand buis tot mv	45	cm
Diepte filter onder mv	206	cm
Materiaal	36/40 PVC	

Statistieken

11-09-2014 tot 26-01-2018

In cm t.o.v. NAP

Aantal standen 1226

Aantal kodes 8

Laagste stand -163

Gemeten op 11-10-2016

Hoogste stand 10

Gemeten op 03-01-2018

Gemiddelde -18.5

Standaard afw. 32.9

GxG statistieken

In cm t.o.v. NAP

	HG3	VG3	LG3	GT3
2014				
2015	4	-0	-56	II
2016	2	-1	-149	V
2017	7	-2	-55	II
2018				

Referentie : NAP | Maaveld | Nulpunt Instellingen menu Losse punten verbind Symbolen plotten Opmerkingen tonen Export menu

Gepeld van 11-09-2014 tot 26-01-2018

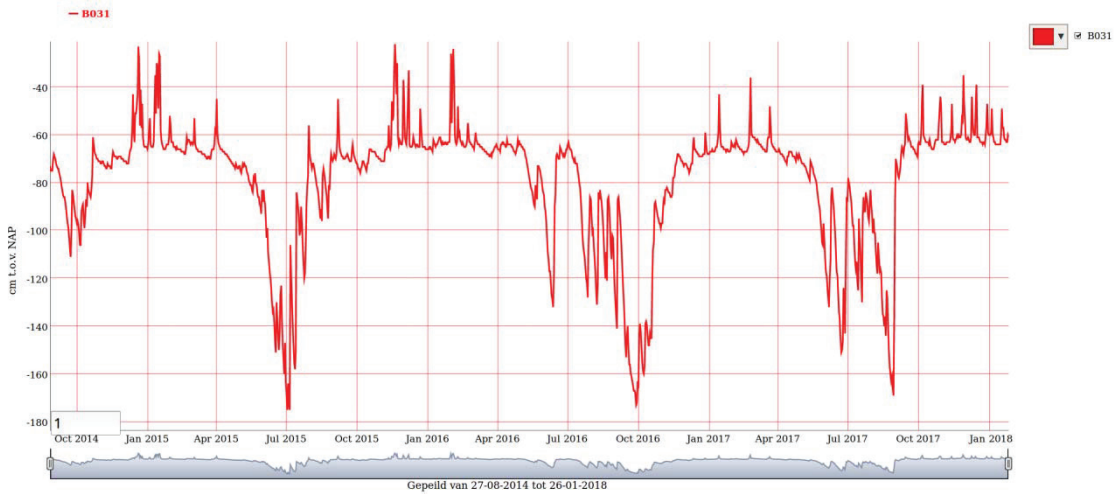
92

B031

<p>B031</p> <p>Type meetpunt grondwaterstandspeilbuis</p> <p>Ligging (RD) 207525, 596500 Sennepstraat</p> <p>Afwerking Koker</p> <p>NITG-kode B06E2832001</p> <p>SUN-kode 91102301B031</p> <p>OLGA-kode</p> <p>Kode derden SP6</p> <p>Meetperiode 26-08-2014 tot heden</p> <p>Opdrachtgever Staatsbosbeheer Noord</p> <p>Eigenaar Staatsbosbeheer Noord</p> <p>Waarnemer Staatsbosbeheer Noord</p> <p>DINO beheer Staatsbosbeheer</p>	<p>Gegevens van 26-08-2014 tot heden</p> <p>Bovenkant buis -19 cm NAP</p> <p>Maaiveld (mv) -65 cm NAP</p> <p>Bovenkant filter -205 cm NAP</p> <p>Onderkant filter -255 cm NAP</p> <p>Onderkant zandvang -255 cm NAP</p> <p>Lengte stijgbuis 186 cm</p> <p>Filterlengte 50 cm</p> <p>Zandvanglengte 0 cm</p> <p>Buislengte 236 cm</p> <p>Afstand buis tot mv 46 cm</p> <p>Diepte filter onder mv 190 cm</p> <p>Materiaal 36/40 PVC</p>	<p>Statistieken</p> <p>27-08-2014 tot 26-01-2018</p> <p>In cm L.o.v. NAP</p> <p>Aantal standen 1249</p> <p>Aantal kodes 0</p> <p>Laagste stand -175</p> <p>Gemeten op 05-07-2015</p> <p>Hoogste stand -22</p> <p>Gemeten op 19-11-2015</p> <p>Gemiddelde -78.8</p> <p>Standaard afw. 26.1</p>	<p>GxG statistieken</p> <p>In cm L.o.v. NAP</p> <p>HG3 VG3 LG3 GT3</p> <p>2014</p> <p>2015 -53 -67 -129 II</p> <p>2016 -63 -65 -156 III</p> <p>2017 -41 -67 -140 II</p> <p>2018</p>
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Referentie: NAP | Maaiveld | Nulpunt

Instellingen menu | Losse punten verbind | Symbolen plotten | Opmerkingen tonen | Export menu

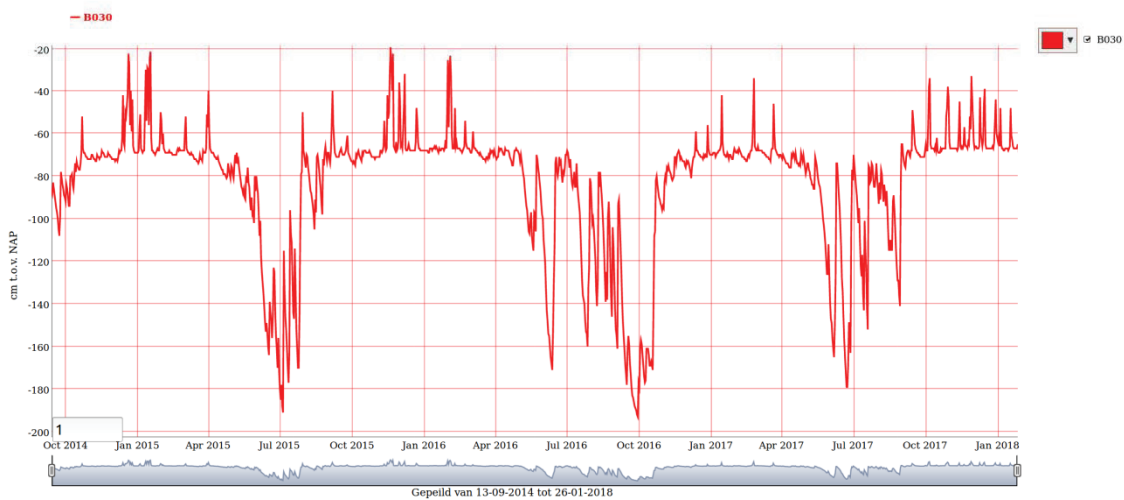


B030

<p>B030</p> <p>Type meetpunt grondwaterstandspeilbuis</p> <p>Ligging (RD) 208955, 594713 Sennepstraat</p> <p>Afwerking Koker</p> <p>NITG-kode B06E2831001</p> <p>SUN-kode 91102301B030</p> <p>OLGA-kode</p> <p>Kode derden SP3</p> <p>Meetperiode 12-09-2014 tot heden</p> <p>Opdrachtgever Staatsbosbeheer Noord</p> <p>Eigenaar Staatsbosbeheer Noord</p> <p>Waarnemer Staatsbosbeheer Noord</p> <p>DINO beheer Staatsbosbeheer</p>	<p>Gegevens van 12-09-2014 tot heden</p> <p>Bovenkant buis -25 cm NAP</p> <p>Maaiveld (mv) -66 cm NAP</p> <p>Bovenkant filter -221 cm NAP</p> <p>Onderkant filter -271 cm NAP</p> <p>Onderkant zandvang -271 cm NAP</p> <p>Lengte stijgbuis 196 cm</p> <p>Filterlengte 50 cm</p> <p>Zandvanglengte 0 cm</p> <p>Buislengte 246 cm</p> <p>Afstand buis tot mv 41 cm</p> <p>Diepte filter onder mv 205 cm</p> <p>Materiaal 36/40 PVC</p>	<p>Statistieken</p> <p>13-09-2014 tot 26-01-2018</p> <p>In cm L.o.v. NAP</p> <p>Aantal standen 1232</p> <p>Aantal kodes 0</p> <p>Laagste stand -193</p> <p>Gemeten op 29-09-2016</p> <p>Hoogste stand -19</p> <p>Gemeten op 19-11-2015</p> <p>Gemiddelde -83</p> <p>Standaard afw. 30.7</p>	<p>GxG statistieken</p> <p>In cm L.o.v. NAP</p> <p>HG3 VG3 LG3 GT3</p> <p>2014</p> <p>2015 -54 -71 -141 II</p> <p>2016 -65 -69 -178 III</p> <p>2017 -40 -71 -135 II</p> <p>2018</p>
--	--	--	--

Referentie: NAP | Maaiveld | Nulpunt

Instellingen menu | Losse punten verbind | Symbolen plotten | Opmerkingen tonen | Export menu



P027 P028 P029

P027

Type meetpunt oppervlaktewater peilpijket
 Ligging (RD) 206066, 601057
 Afwerking Koker
 NITG-code
 SUN-code 91102301P027
 OLG-kode
 Kode dierden OPPW1
 Meetperiode 01-01-1970 tot heden
 Opdrachtgever Staatsbosbeheer Noord
 Eigenaar Staatsbosbeheer Noord
 Waarnemer Staatsbosbeheer Noord
 DINO beheer Staatsbosbeheer

Gegevens van 29-11-2011 tot heden

Hoogte piket -54 cm NAP
 Waterbodembodem cm NAP
 Afstand piketpunt tot waterbodembodem cm

Statistieken
 29-11-2011 tot 25-01-2018
 In cm L.o.v. NAP

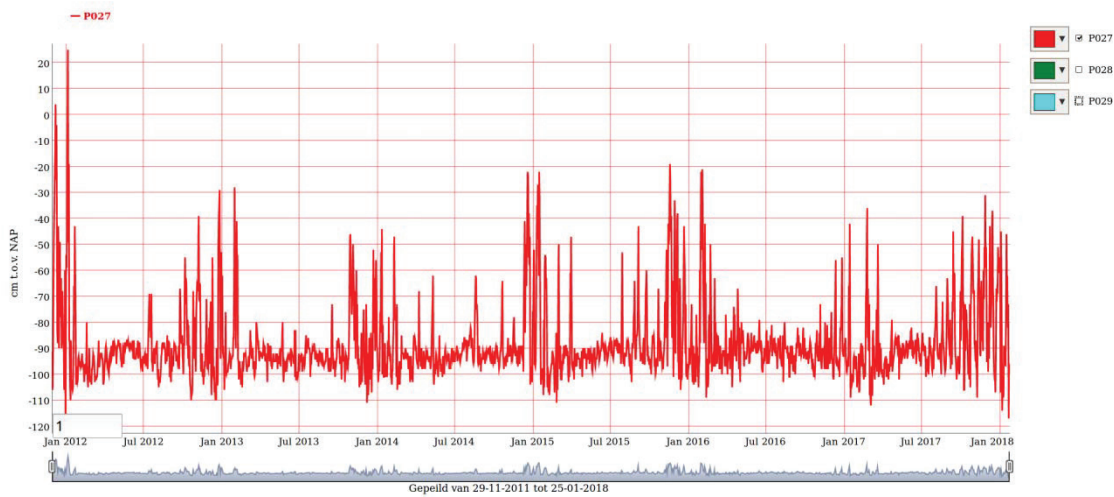
Aantal standen 2249
 Aantal kodes 0
 Laagste stand -117
 Gemeten op 22-01-2018
 Hoogste stand 25
 Gemeten op 06-01-2012
 Gemiddelde -88.5
 Standaard afw. 14.4

GxG statistieken
 In cm L.o.v. NAP

	HG3	VG3	LG3	GT3
2011	-76	-96	-103	
2012	-71	-90	-100	
2013	-71	-91	-100	
2014	-79	-91	-100	
2015	-54	-98	-106	
2016	-74	-96	-101	
2017	-39	-98	-101	
2018				

Referentie: NAP | Maaiveld | Nulpunt

Instellingen menu | Losse punten verbind | Symbolen plotten | Opmerkingen tonen | Export menu



P027 P028 P029

P028

Type meetpunt oppervlaktewater peilpijket
 Ligging (RD) 207900, 601680
 Afwerking Koker
 NITG-code
 SUN-code 91102301P028
 OLG-kode
 Kode dierden OPPVZ
 Meetperiode 01-01-1970 tot heden
 Opdrachtgever Staatsbosbeheer Noord
 Eigenaar Staatsbosbeheer Noord
 Waarnemer Staatsbosbeheer Noord
 DINO beheer Staatsbosbeheer

Gegevens van 29-11-2011 tot heden

Hoogte piket -36 cm NAP
 Waterbodembodem cm NAP
 Afstand piketpunt tot waterbodembodem cm

Statistieken
 29-11-2011 tot 25-01-2018
 In cm L.o.v. NAP

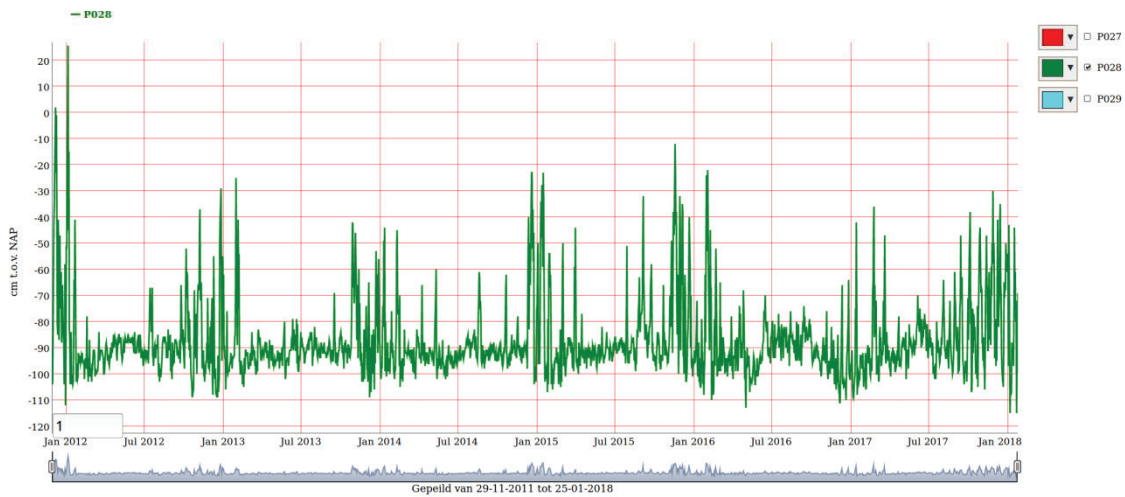
Aantal standen 2250
 Aantal kodes 0
 Laagste stand -115
 Gemeten op 07-01-2018
 Hoogste stand 26
 Gemeten op 06-01-2012
 Gemiddelde -87.4
 Standaard afw. 14.7

GxG statistieken
 In cm L.o.v. NAP

	HG3	VG3	LG3	GT3
2011	-75	-94	-102	
2012	-70	-90	-98	
2013	-77	-89	-99	
2014	-53	-95	-103	
2015	-71	-97	-105	
2016	-38	-95	-100	
2017				
2018				

Referentie: NAP | Maaiveld | Nulpunt

Instellingen menu | Losse punten verbind | Symbolen plotten | Opmerkingen tonen | Export menu



P027 P028 **P029**

P029
 Type meetpunt oppervlaktewater peilpijket
 Ligging (RD) 208000, 599630 Zuidelijke Loob
 Afwerking Koker
 NITG-kode
 SUN-kode 91102301P029
 OLGA-kode
 Kode derden OPPW2
 Meetperiode 01-01-1970 tot heden
 Opdrachtgever Staatsbosbeheer Noord
 Eigenaar Staatsbosbeheer Noord
 Waarnemer Staatsbosbeheer Noord
 DINO beheer Staatsbosbeheer

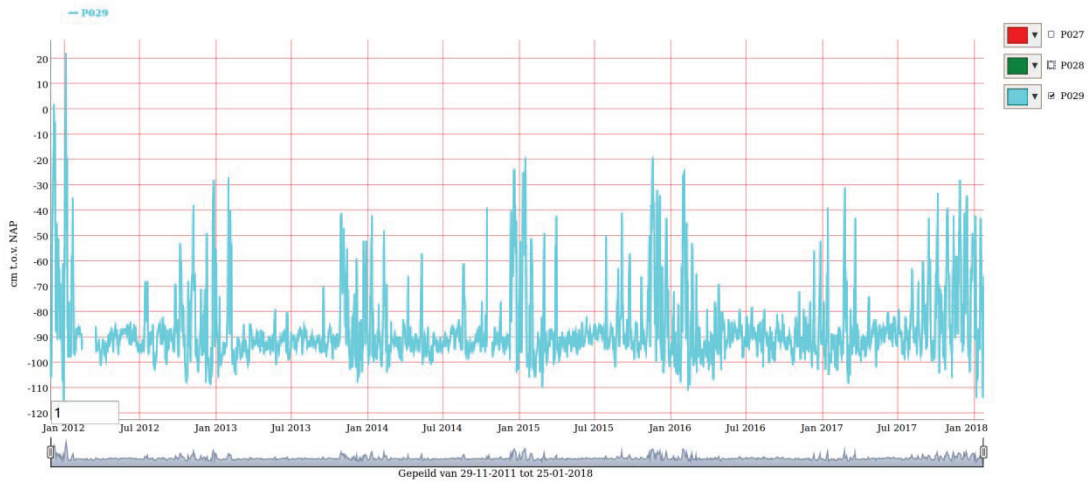
Gegevens van 29-11-2011 tot heden
 Hoogte piket -19 cm NAP
 Waterbodembodem cm NAP
 Afstand piketpunt tot waterbodembodem cm

Statistieken
 29-11-2011 tot 25-01-2018
 In cm t.o.v. NAP
 Aantal standen 2208
 Aantal kodes 42
 Laagste stand -117
 Gemeten op 31-12-2011
 Hoogste stand 22
 Gemeten op 06-01-2012
 Gemiddelde -86.8
 Standaard afw. 14.6

GxG statistieken
 In cm t.o.v. NAP
 HG3 VG3 LG3 GT3
 2011 75 -93 -98
 2013 -69 -91 -98
 2014 -77 -87 -98
 2015 -52 -96 -103
 2016 -74 -100 -104
 2017 -36 -94 -98
 2018

Referentie : NAP | Maaiveld | Nulpunt

Instellingen menu Losse punten verbind Symbolen plotten Opmerkingen tonen Export menu



S900 S901

S900
 Type meetpunt peilschaal met schaalverdeling t.o.v. NAP
 Ligging (RD) 215611, 594948
 Afwerking Onbekend
 NITG-kode P02H0900001
 SUN-kode 91102301S900
 OLGA-kode
 Kode derden Brug Zoutkamp
 Meetperiode 01-01-2007 tot heden
 Opdrachtgever Staatsbosbeheer Noord
 Eigenaar Staatsbosbeheer Noord
 Waarnemer Staatsbosbeheer Noord
 DINO beheer Staatsbosbeheer

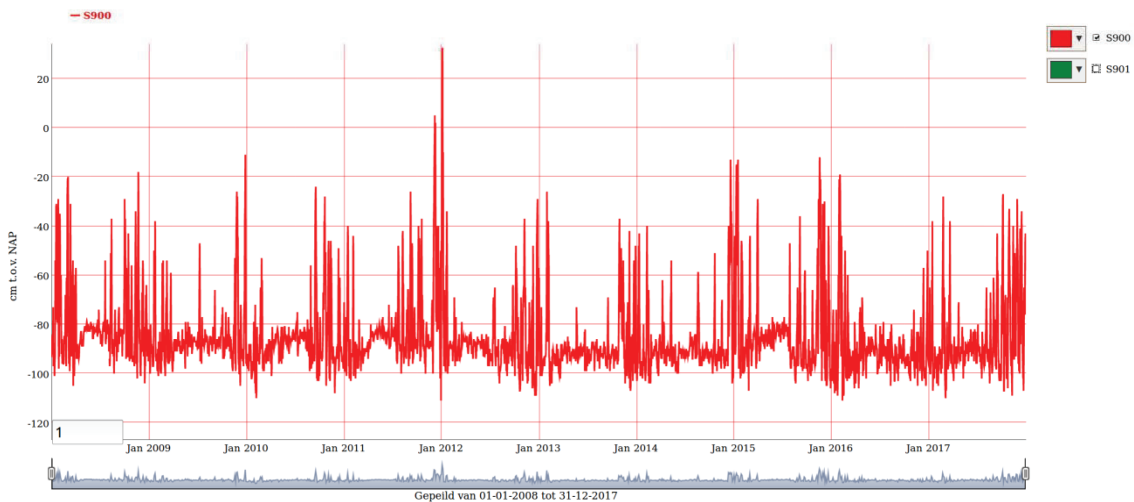
Gegevens van 01-01-2007 tot heden
 Nulpunt Schaal 0 cm NAP
 Waterbodembodem cm NAP
 Afstand nulpunt tot waterbodembodem cm

Statistieken
 01-01-2008 tot 31-12-2017
 In cm t.o.v. NAP
 Aantal standen 3647
 Aantal kodes 0
 Laagste stand -111
 Gemeten op 12-02-2016
 Hoogste stand 33
 Gemeten op 06-01-2012
 Gemiddelde -85.5
 Standaard afw. 15

GxG statistieken
 In cm t.o.v. NAP
 HG3 VG3 LG3 GT3
 2008 -53 -84 -95
 2009 -41 -93 -97
 2010 -77 -89 -103
 2011 -51 -91 -101
 2012 -75 -88 -98
 2013 -71 -91 -100
 2014 -78 -85 -99
 2015 51 -90 -103
 2016 -74 -103 -107
 2017 -35 -95 -100

Referentie : NAP | Maaiveld | Nulpunt

Instellingen menu Losse punten verbind Symbolen plotten Opmerkingen tonen Export menu

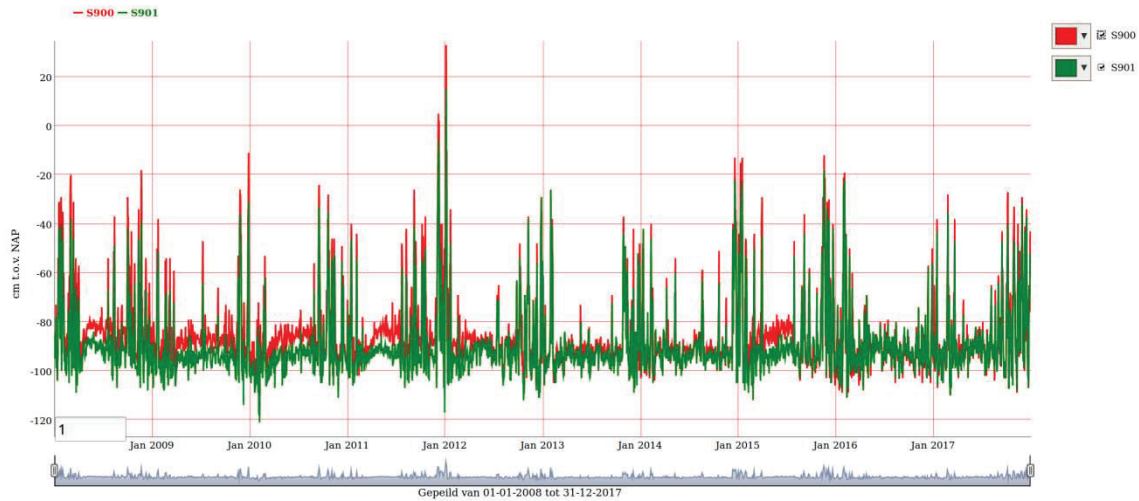


S900
S901

<p>S901</p> <p>Type meetpunt peilschaal met schaalverdeling t.o.v. NAP</p> <p>Ligging (RD) 208695, 602672</p> <p>Afwerking Ontbickend</p> <p>NTG-kode PO2H0901001</p> <p>SUN-kode 91102301S901</p> <p>OLGA-kode</p> <p>Kode derden Sluis Lauwersoog</p> <p>Meetperiode 01-01-2007 tot heden</p> <p>Opdrachtgever Staatsbosbeheer Noord</p> <p>Eigenaar Staatsbosbeheer Noord</p> <p>Waarnemer Staatsbosbeheer Noord</p> <p>DINO beheer Staatsbosbeheer</p>	<p>Gegevens van 01-01-2007 tot heden</p> <p>Nulpunt Schaal 0 cm NAP</p> <p>Waterbodem cm NAP</p> <p>Afstand nulpunt tot waterbodem cm</p>	<p>Statistieken</p> <p>01-01-2008 tot 31-12-2017 In cm t.o.v. NAP</p> <p>Aantal standen 3640</p> <p>Aantal kodes 0</p> <p>Laagste stand -121</p> <p>Gemeten op 07-02-2010</p> <p>Hoogste stand 15</p> <p>Gemeten op 06-01-2012</p> <p>Gemiddelde -89.7</p> <p>Standaard afw. 13.3</p>	<p>GxG statistieken In cm t.o.v. NAP</p> <table border="1" style="font-size: small; border-collapse: collapse;"> <thead> <tr> <th></th> <th>HG3</th> <th>VG3</th> <th>LG3</th> <th>GT3</th> </tr> </thead> <tbody> <tr><td>2008</td><td>-65</td><td>-94</td><td>-101</td><td></td></tr> <tr><td>2009</td><td>-55</td><td>-100</td><td>-103</td><td></td></tr> <tr><td>2010</td><td>-82</td><td>-98</td><td>-106</td><td></td></tr> <tr><td>2011</td><td>-59</td><td>-95</td><td>-104</td><td></td></tr> <tr><td>2012</td><td>-77</td><td>-96</td><td>-103</td><td></td></tr> <tr><td>2013</td><td>-69</td><td>-91</td><td>-100</td><td></td></tr> <tr><td>2014</td><td>-77</td><td>-89</td><td>-100</td><td></td></tr> <tr><td>2015</td><td>-55</td><td>-97</td><td>-105</td><td></td></tr> <tr><td>2016</td><td>-75</td><td>-99</td><td>-104</td><td></td></tr> <tr><td>2017</td><td>-39</td><td>-95</td><td>-100</td><td></td></tr> </tbody> </table>		HG3	VG3	LG3	GT3	2008	-65	-94	-101		2009	-55	-100	-103		2010	-82	-98	-106		2011	-59	-95	-104		2012	-77	-96	-103		2013	-69	-91	-100		2014	-77	-89	-100		2015	-55	-97	-105		2016	-75	-99	-104		2017	-39	-95	-100	
	HG3	VG3	LG3	GT3																																																						
2008	-65	-94	-101																																																							
2009	-55	-100	-103																																																							
2010	-82	-98	-106																																																							
2011	-59	-95	-104																																																							
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2015	-55	-97	-105																																																							
2016	-75	-99	-104																																																							
2017	-39	-95	-100																																																							

Referentie : NAP | Maalveld | Nulpunt

Instellingen menu
Losse punten verbind
Symbolen plotten
Opmerkingen tonen
Export menu



Bijlage 6. GXG en duurlijnen

Time series		GT	MLGL	MG	MSGL	MHGL	surf. I.
<input checked="" type="checkbox"/>	BW3B_1	III	-0.83	-0.17	0.00	0.14	-0.41
<input checked="" type="checkbox"/>	BW1B_1	V	-1.23	-0.55	-0.40	-0.06	0.31
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							

r.t. surface level plot MxGL statistics

FOE graphs

All FOE graphs

Average FOE graph

Total FOE graph

Percentile %

NOP graphs

above level:

below period:

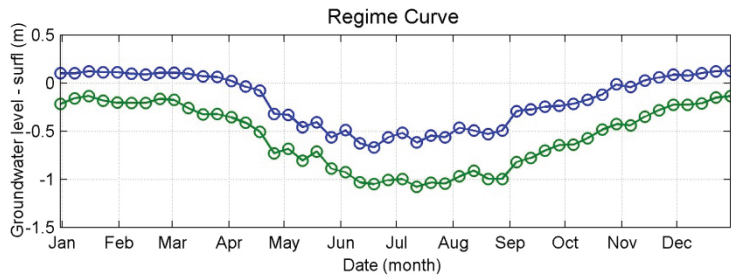
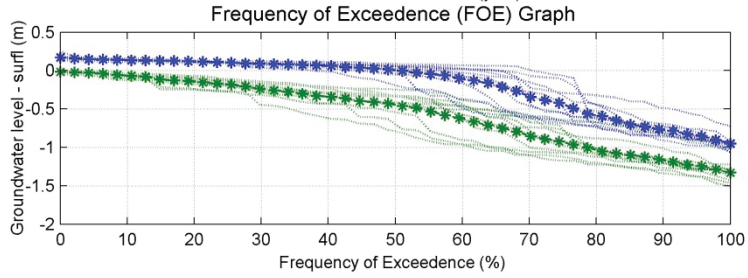
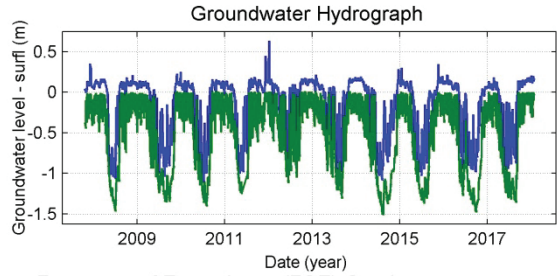
Regime curves

All regime curves

Average regime curve

Percentile %

close



Time series		GT	MLGL	MG	MSGL	MHGL	surf. I.
<input checked="" type="checkbox"/>	BW8B_1	III	-1.16	-0.25	-0.04	0.06	-0.12
<input checked="" type="checkbox"/>	BW5B_1	III	-0.95	-0.26	-0.14	0.04	-0.50
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							

r.t. surface level plot MxGL statistics

FOE graphs

All FOE graphs

Average FOE graph

Total FOE graph

Percentile %

NOP graphs

above level:

below period:

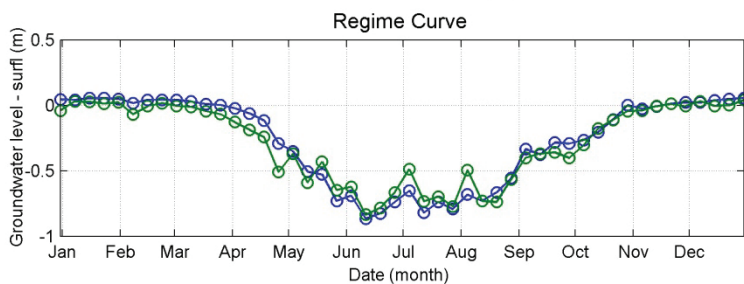
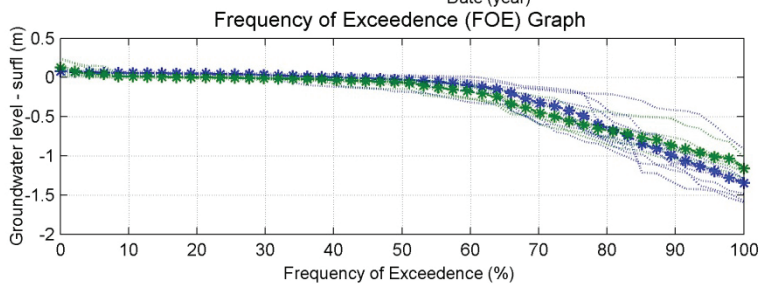
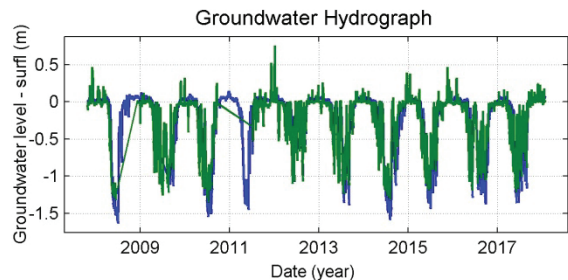
Regime curves

All regime curves

Average regime curve

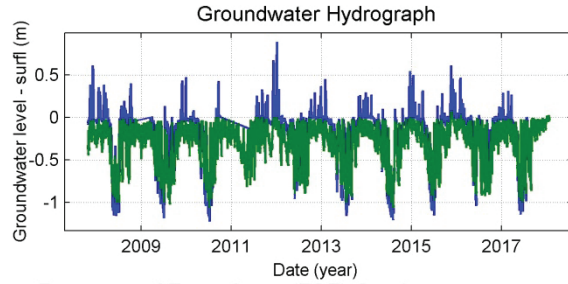
Percentile %

close



Time series		GT	MLGL	MG	MSGL	MHGL	surf. l.
<input checked="" type="checkbox"/>	LA3B_1	II	-0.66	-0.14	-0.06	0.10	-0.66
<input checked="" type="checkbox"/>	JA3B_1	II	-0.75	-0.32	-0.30	-0.08	-0.41
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							

r.t. surface level plot MxGL statistics

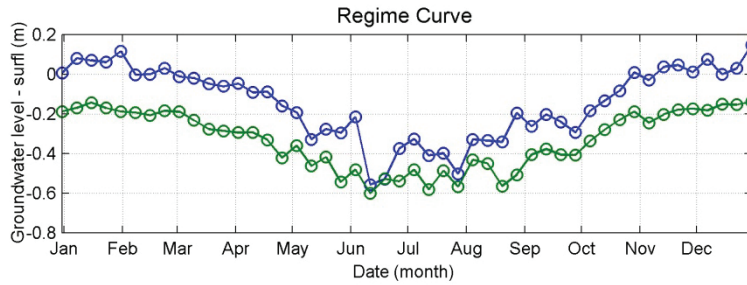
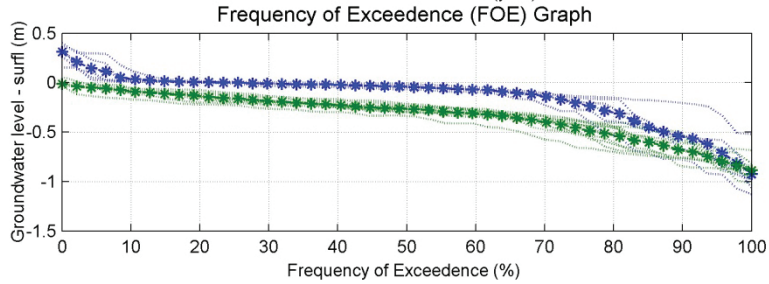


FOE graphs	
<input checked="" type="checkbox"/>	All FOE graphs
<input checked="" type="checkbox"/>	Average FOE graph
<input type="checkbox"/>	Total FOE graph
<input type="checkbox"/>	Percentile
	5 %

NOP graphs		
<input type="checkbox"/>	above	level: 0
<input type="checkbox"/>	below	period: [1/1 31/12]

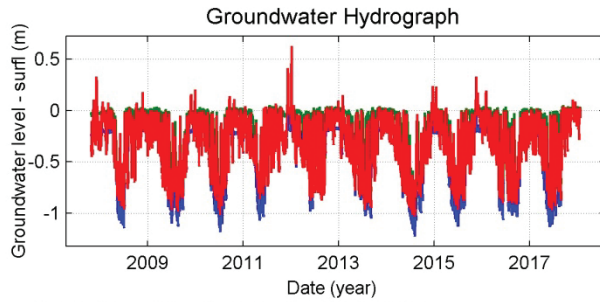
Regime curves	
<input type="checkbox"/>	All regime curves
<input checked="" type="checkbox"/>	Average regime curve
<input type="checkbox"/>	Percentile
	5 %

close



Time series		GT	MLGL	MG	MSGL	MHGL	surf. l.
<input checked="" type="checkbox"/>	RUSB_1	III	-0.91	-0.38	-0.28	-0.18	-0.04
<input checked="" type="checkbox"/>	RU3B_1	II	-0.68	-0.17	-0.09	0.02	0.14
<input checked="" type="checkbox"/>	RU1B_1	II	-0.77	-0.34	-0.34	-0.01	-0.39
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<input type="checkbox"/>							
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r.t. surface level plot MxGL statistics

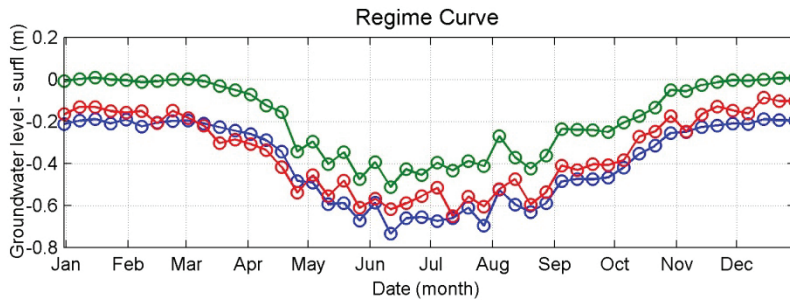
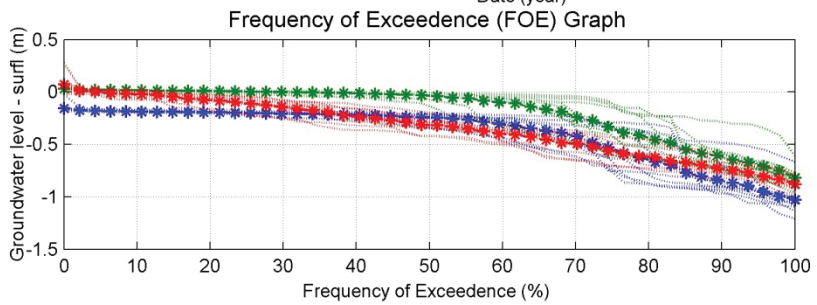


FOE graphs	
<input checked="" type="checkbox"/>	All FOE graphs
<input checked="" type="checkbox"/>	Average FOE graph
<input type="checkbox"/>	Total FOE graph
<input type="checkbox"/>	Percentile
	5 %

NOP graphs		
<input type="checkbox"/>	above	level: 0
<input type="checkbox"/>	below	period: [1/1 31/12]

Regime curves	
<input type="checkbox"/>	All regime curves
<input checked="" type="checkbox"/>	Average regime curve
<input type="checkbox"/>	Percentile
	5 %

close



Time series		GT	MLGL	MG	MSGL	MHGL	surf. l.
<input checked="" type="checkbox"/>	ZL5B_1	III	-0.94	-0.27	-0.16	0.04	-0.44
<input checked="" type="checkbox"/>	ZL3B_1	III	-1.02	-0.30	-0.19	0.05	-0.64
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							

r.t.surface level plot MxGL statistics

FOE graphs

All FOE graphs

Average FOE graph

Total FOE graph

Percentile %

NOP graphs

above level:

below period:

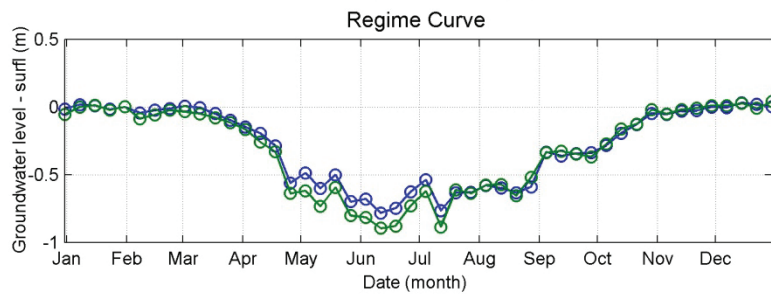
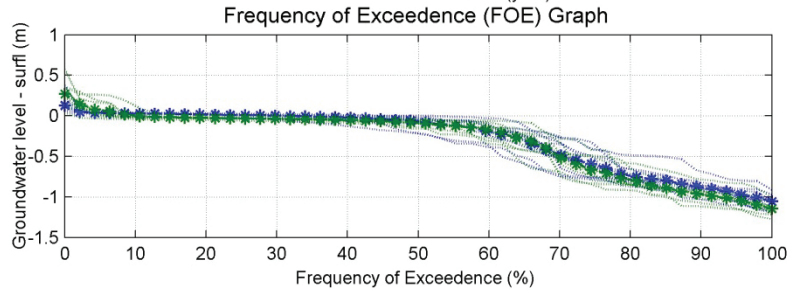
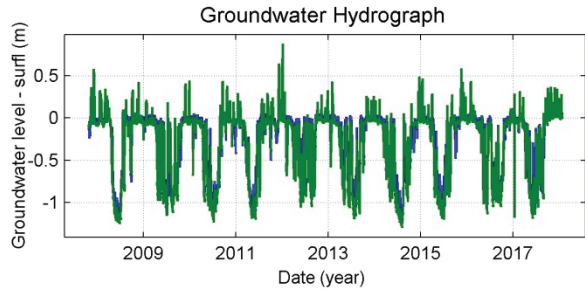
Regime curves

All regime curves

Average regime curve

Percentile %

close



Time series		GT	MLGL	MG	MSGL	MHGL	surf. l.
<input checked="" type="checkbox"/>	ZB3_1	III	-1.02	-0.34	-0.07	0.06	-0.12
<input checked="" type="checkbox"/>	ZB2_1	III	-0.80	-0.16	0.00	0.07	-0.14
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							

r.t.surface level plot MxGL statistics

FOE graphs

All FOE graphs

Average FOE graph

Total FOE graph

Percentile %

NOP graphs

above level:

below period:

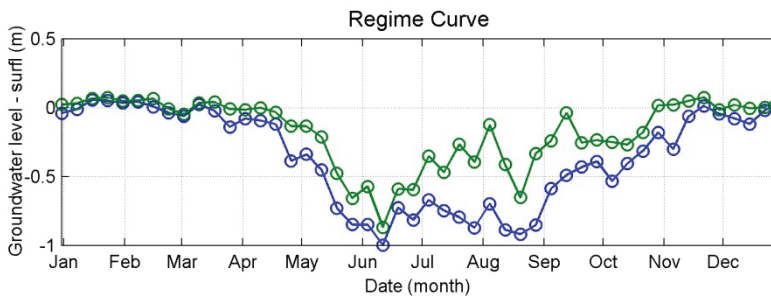
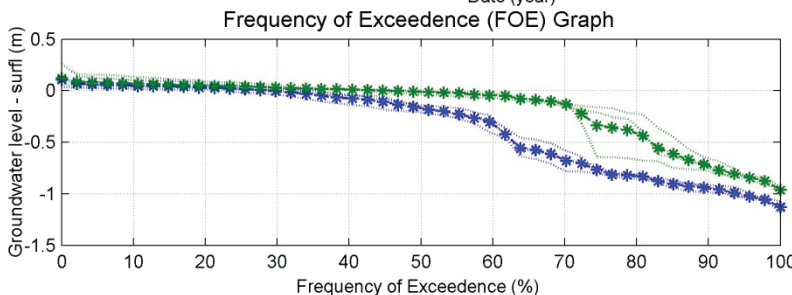
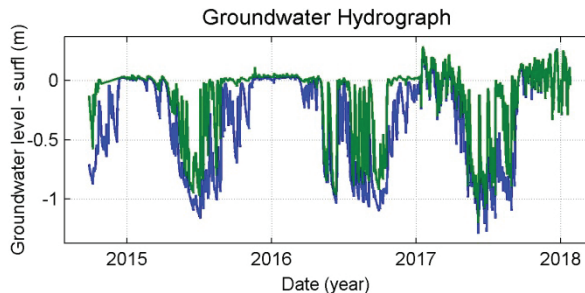
Regime curves

All regime curves

Average regime curve

Percentile %

close



Time series		GT	MLGL	MG	MSGL	MHGL	surf.l.
<input checked="" type="checkbox"/>	SH3_1	III	-0.92	-0.17	0.02	0.07	-0.29
<input checked="" type="checkbox"/>	SH2_1	III	-0.98	-0.22	0.01	0.07	-0.14
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							

r.t.surface level plot MxGL statistics

FOE graphs

All FOE graphs

Average FOE graph

Total FOE graph

Percentile %

NOP graphs

above level:

below period:

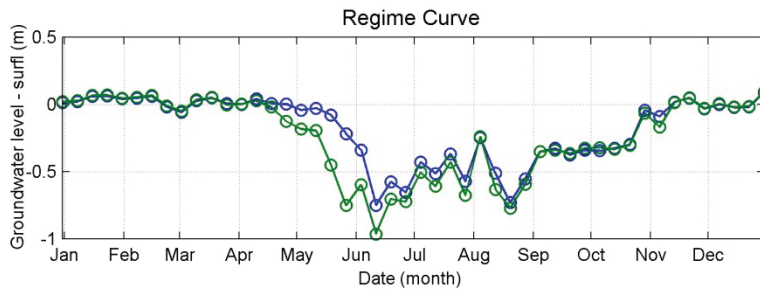
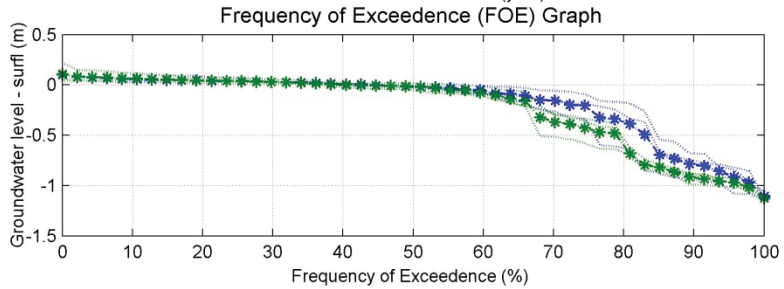
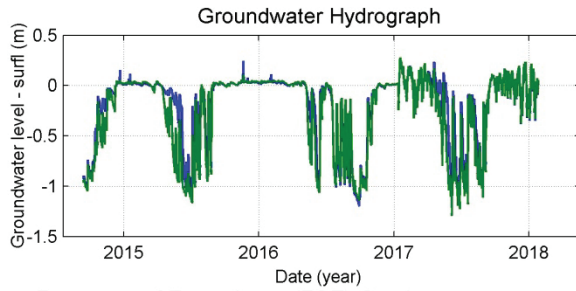
Regime curves

All regime curves

Average regime curve

Percentile %

close



Time series		GT	MLGL	MG	MSGL	MHGL	surf.l.
<input checked="" type="checkbox"/>	ZP5_1	V	-1.27	-0.55	-0.30	-0.18	-0.02
<input checked="" type="checkbox"/>	ZP4_1	III	-0.81	-0.18	-0.09	0.10	-0.58
<input checked="" type="checkbox"/>	ZP1_1	V	-1.26	-0.38	-0.19	0.03	-0.45
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							

r.t.surface level plot MxGL statistics

FOE graphs

All FOE graphs

Average FOE graph

Total FOE graph

Percentile %

NOP graphs

above level:

below period:

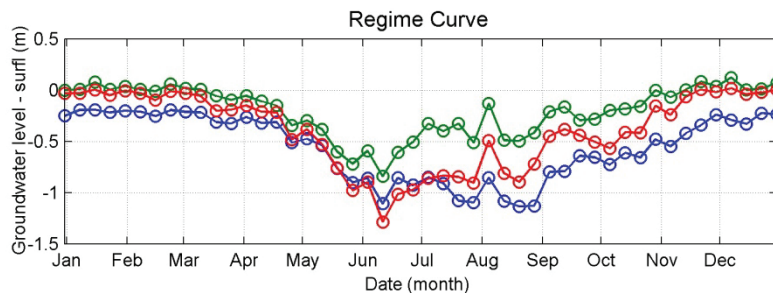
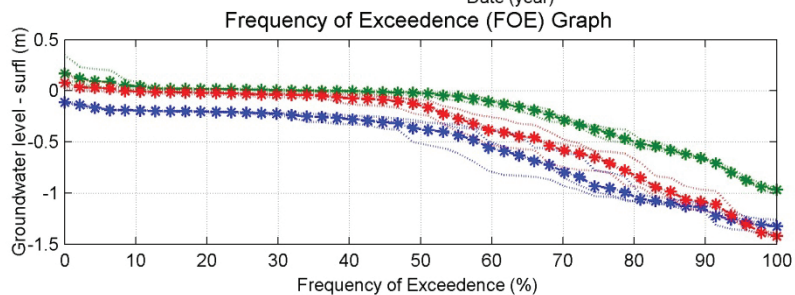
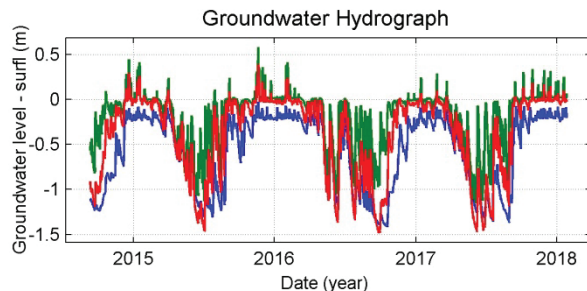
Regime curves

All regime curves

Average regime curve

Percentile %

close



Time series		GT	MLGL	MG	MSGL	MHGL	surf. l.
<input checked="" type="checkbox"/> BP3_1	II	-0.68	-0.07	0.05	0.17	-0.74	
<input checked="" type="checkbox"/> BP2_1	III	-1.03	-0.19	0.07	0.12	-0.50	
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							

r.t. surface level plot MxGL statistics

FOE graphs

All FOE graphs

Average FOE graph

Total FOE graph

Percentile %

HOP graphs

above level:

below period:

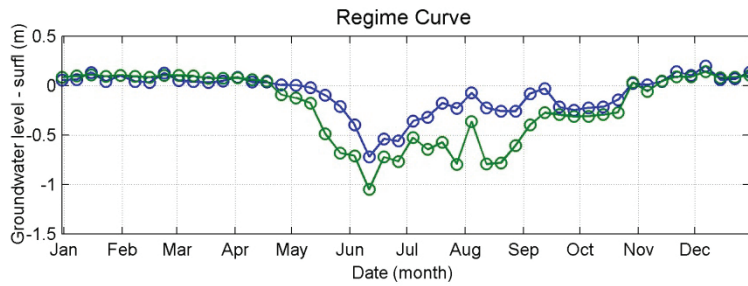
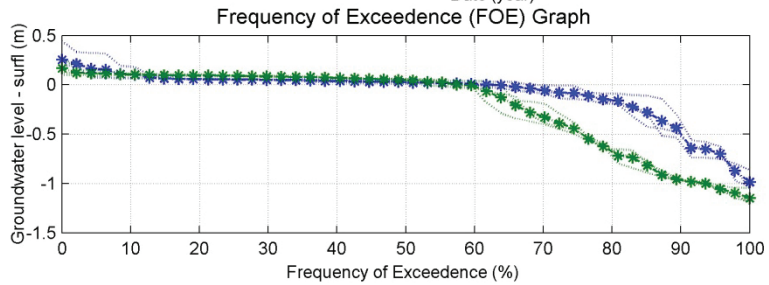
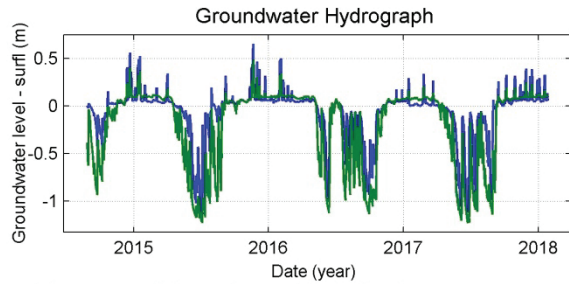
Regime curves

All regime curves

Average regime curve

Percentile %

close



Time series		GT	MLGL	MG	MSGL	MHGL	surf. l.
<input checked="" type="checkbox"/> SP6_1	II	-0.72	-0.14	0.00	0.13	-0.65	
<input checked="" type="checkbox"/> SP3_1	III	-0.83	-0.17	-0.02	0.12	-0.66	
<input checked="" type="checkbox"/> SP1_1	II	-0.80	-0.16	0.04	0.09	-0.04	
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							

r.t. surface level plot MxGL statistics

FOE graphs

All FOE graphs

Average FOE graph

Total FOE graph

Percentile %

HOP graphs

above level:

below period:

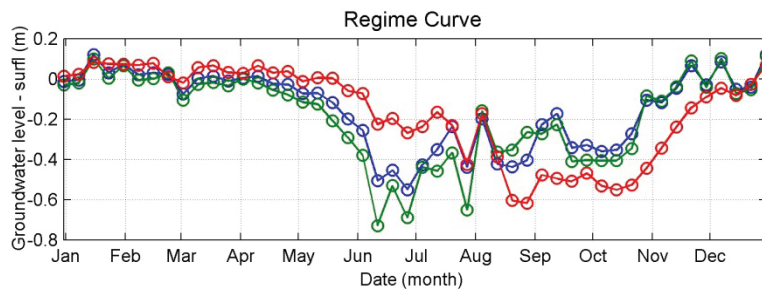
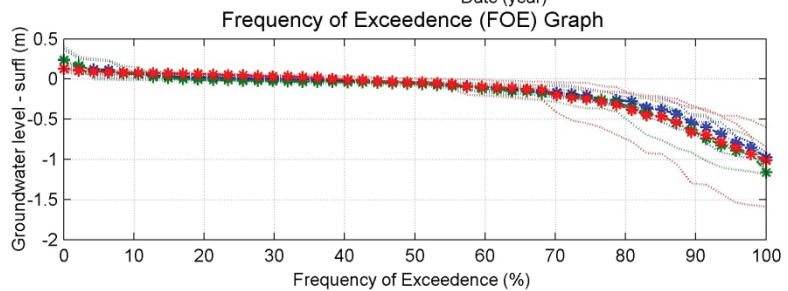
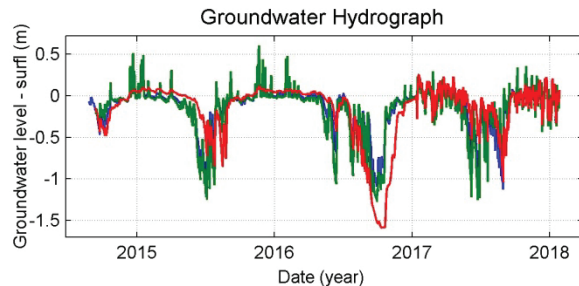
Regime curves

All regime curves

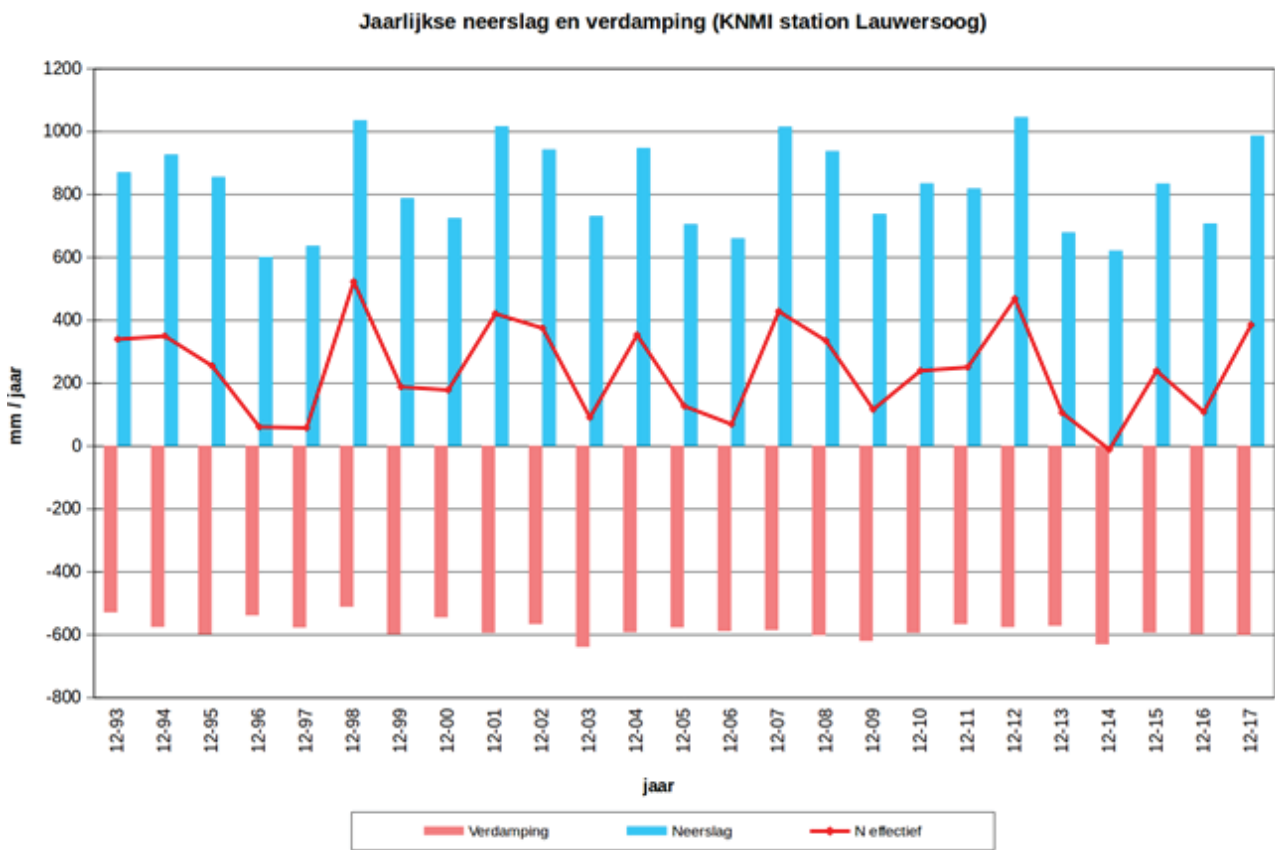
Average regime curve

Percentile %

close



Bijlage 7. Neerslag en verdamping



Bijlage 8. Lijst meetsoort broedvogels

Categorieën van links naar rechts: Rode Lijst 2017 (van Kleunen et al. 2017), Rode Lijst 2005 (Hustings et al. 2004), Natura 2000 en zeldzame broedvogels/kolonievogels (Vergeer et al. 2016). De Rode Lijst van 2017 was in het voorjaar van 2017 nog niet in werking.

soort	RL '17	RL'05	N2000	Roof	Z/K	soort	RL '17	RL'05	N2000	Z/K
Dodaars			x			Watersnip	x	x	x	
Roodhalsfuut	x	x			x	Grutto	x	x	x	
Geoorde Fuut			x		x	Wulp	x			
Grote Aalscholver					x	Tureluur	x	x		
Aalscholver			x		x	Zwartkopmeeuw				
Roerdomp	x	x	x		x	Dwergmeeuw	x	x		x
Woudaap	x	x	x		x	Kokmeeuw				x
Kwak	x	x			x	Stormmeeuw				
Kleine Zilverreiger	x	x			x	Kleine Mantelmeeuw				
Grote Zilverreiger		x	x		x	Zilvermeeuw				
Blauwe Reiger					x	Grote Mantelmeeuw	x	x		x
Purperreiger		x	x		x	Visdief	x	x	x	x
Lepelaar			x		x	Noordse Stern	x	x		
Kolgans					x	Zwarte Stern	x	x	x	x
Grauwe Gans						Zomertortel	x	x		
Indische Gans					x	Koekoek	x	x		
Grote Canadese Gans					x	Kerkuil		x		
Brandgans					x	Ransuil	x	x		
Casarca					x	Velduil	x		x	x
Smient	x				x	IJsvogel			x	x
Wintertaling	x	x				Groene Specht		x		
Pijlstaart		x			x	Veldleeuwerik	x	x		
Zomertaling	x	x				Oeverzwaluw				
Slobeend	x	x				Graspieper	x	x		
Krooneend					x	Gele Kwikstaart	x	x		
Rosse Stekelstaart					x	Rouwkwikstaart				
Zeearend	x			x	x	Nachtgaal	x	x		
Bruine Kiekendief			x	x	x	Blauwborst			x	
Blauwe Kiekendief	x	x	x	x	x	Paapje	x	x	x	x
Grauwe Kiekendief	x	x	x	x	x	Roodborsttapuit				
Havik					x	Grote Lijster	X			
Sperwer					x	Tapuit	x	x	x	x
Buizerd					x	Graszanger	x			
Torenavk	x				x	Snor	x	x	x	
Boomvalk	x	x			x	Grote Karekiet	x	x	x	x
Porseleinhoen	x	x	x		x	Spotvogel	x	x		
Klein Waterhoen					x	Grauwe Vliegenvanger	x	x		
Kleinst Waterhoen		x			x	Baardman				x
Kwartelkoning	x	x	x		x	Zwarte Mees	x			
Scholekster						Matkop	x	x		
Steltkluit	x	x			x	Buidelmees	x			
Kluit			x		x	Wielewaal	x	x		
Kleine Plevier					x	Grauwe Klauwier	x	x	x	x
Bontbekplevier	x	x	x		x	Roek	x			x
Strandplevier	x	x	x		x	Raaf	X			x
Kievit					x	Kneu	x	x		
Bonte Strandloper		x				Grauwe Gors	x	x		x
Kemphaan	x	x	x		x					

Bijlage 9. Berekening kwaliteit van een ‘random forest’.

De kwaliteit van een random forest wordt berekend met de gemiddelde afwijkingskwadraten volgens de formules:

$$1 - \frac{MSE_{OOB}}{\sigma_y^2}$$

en

$$MSE_{OOB} = n^{-1} \sum_{i=1}^n (y_i - y_i^{OOB})^2$$

met MSE_{OOB} , het gemiddelde van de gekwadreeerde afwijkingen, en

y_i^{OOB} , het gemiddelde van de *out-of-bag*-predicties voor de *i*-te waarneming (Liaw & Wiener 2002).

Het algoritme van de random forests schat het belang van een verklarende variabele door te bepalen hoe ver de voorspellingsfouten toenemen als de OOB gegevens voor deze variabele worden gepermitteerd, terwijl de andere variabelen niet worden veranderd. De hiervoor nodige berekeningen worden boom voor boom uitgevoerd tijdens het groeien van de random forest (Liaw & Wiener 2002).

Bijlage 10. Integraal gekarteerde meetsoorten*Bijlage 10a. Het vasteland van het Lauwersmeergebied (excl. eilanden)**Vastgestelde soorten en aantallen territoria van integraal gekarteerde meetsoorten. Tot 2008 maakten de eilanden geen deel uit van het vaste onderzoeksgebied (zie Kleefstra & de Boer 2015).*

Soort	99	00	01	02	03	04	05	06	07	08	09	10	11	12	14	15	16	17
Indische Gans	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Grauwe Gans	3	5	-	20	25	53	93	129	157	209	316	479	363	567	450	640	587	832
Kolgans	0	5	1	2	1	0	2	2	0	1	0	1	0	0	0	0	0	0
Canadese Gans	0	0	3	2	0	1	0	2	0	0	0	1	0	0	0	0	0	0
Brandgans	0	0	0	2	0	3	6	5	8	1	0	2	1	1	2	2	3	1
Casarca	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0
Krooneend	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Smient	1	0	0	0	0	0	1	0	1	3	1	0	1	0	0	1	0	0
Slobeend	-	-	-	-	-	-	34	39	39	38	33	21	20	18	26	29	24	10
Pijlstaart	0	0	-	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0
Zomertaling	11	18	-	30	16	14	21	20	19	19	18	15	8	11	14	12	8	10
Wintertaling	-	-	-	-	-	-	10	7	4	3	9	6	4	3	3	1	1	1
Rosse Stekelstaart	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Roerdomp	12	8	9	11	10	9	10	9	9	6	6	5	4	5	9	6	8	5
Woudaap	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Kwak	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Grote Zilverreiger	0	0	1	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0
Dodaars	40	17	-	23	23	29	33	39	36	46	19	11	4	3	4	1	2	2
Roodhalsfuut	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Geoorde Fuut	3	7	0	1	1	0	0	0	0	1	0	0	0	0	0	1	2	2
Zeearend	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
Bruine Kiekendief	12	23	22	21	17	20	23	15	14	14	17	18	14	14	16	11	13	13
Blauwe Kiekendief	0	3	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Grauwe Kiekendief	4	7	4	3	3	6	4	2	0	0	0	0	1	1	0	0	0	0
Havik	4	5	-	8	9	7	6	6	7	4	5	4	5	7	3	4	7	7
Sperwer	3	2	-	1	2	4	2	4	4	4	3	3	1	3	1	2	2	0
Buizerd	9	9	-	10	10	11	14	12	11	17	13	14	16	16	13	14	9	10
Torenvalk	8	11	-	5	3	5	4	0	2	8	5	6	6	3	3	7	4	4
Boomvalk	0	1	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Porseleinhoen	9	14	14	17	14	6	10	4	7	8	5	5	3	7	1	2	2	2
Kwartelkoning	0	1	3	1	1	0	0	0	4	3	2	1	6	5	1	0	0	0
Scholekster	-	-	-	-	-	-	-	-	73	88	73	64	56	38	35	35	36	30
Steltkluut	2	9	9	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0
Kluut	47	154	43	83	63	128	44	62	45	67	65	41	77	46	27	42	44	69
Kleine Plevier	0	3	-	8	7	10	14	3	3	3	7	6	10	6	1	2	5	4
Bontbekplevier	1	0	8	9	1	1	2	0	5	1	1	1	0	2	1	2	2	3
Strandplevier	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Kievit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	157	139	176	190
Bonte Strandloper	0	0	0	1	0	0	0	0	3	1	1	0	0	0	1	0	0	1
Kemphaan	2	6	8	2	6	2	0	1	2	0	0	2	0	0	2	0	1	0
Watersnip	0	3	-	1	0	0	1	2	2	1	0	2	2	0	1	0	0	1
Grutto	14	18	-	11	12	13	7	10	18	16	9	11	8	9	6	6	2	2
Tureluur	52	61	-	57	36	52	39	44	57	48	35	46	43	19	48	52	51	40
Kokmeeuw	122	201	39	1	3	0	2	0	0	0	0	0	0	7	8	5	0	0
Dwergmeeuw	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zwartkopmeeuw	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grote Mantelmeeuw	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	1
Visdief	37	28	6	4	8	4	5	3	2	2	0	0	0	0	0	1	0	0
Noordse Stern	7	4	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0
Zomertortel	-	-	-	-	-	-	19	14	15	7	6	4	3	2	0	0	0	0
Koekoek	-	-	-	-	-	-	30	22	19	25	18	17	22	20	24	22	16	18
Kerkuil	-	-	-	-	-	-	0	0	0	1	1	1	1	0	0	0	0	0
Ransuil	-	-	-	-	-	-	1	0	4	3	5	2	0	0	1	1	0	1
Velduil	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IJsvogel	0	0	0	0	0	0	0	1	1	3	1	0	0	0	2	3	1	

Bijlage 10a. Vervolg

Soort	99	00	01	02	03	04	05	06	07	08	09	10	11	12	14	15	16	17
Groene Specht	-	-	-	-	-	-	1	0	0	2	0	1	2	0	0	0	0	1
Wielewaal	-	-	-	-	-	-	26	27	30	23	13	21	18	24	24	19	19	25
Grauwe Klauwier	1	0	-	0	0	1	0	0	0	0	1	1	7	4	5	5	8	4
Roek	0	0	-	0	0	0	51	27	6	0	0	0	9	27	81	82	81	14
Raaf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Buidelmees	10	6	1	3	1	2	0	4	1	2	5	1	2	1	0	1	1	0
Matkop	-	-	-	-	-	-	7	9	13	11	7	8	10	11	7	6	6	12
Baardman	91	127	-	123	123	101	83	91	121	146	149	116	67	83	134	127	107	131
Veldleeuwerik	-	-	-	-	-	-	91	80	97	115	96	86	81	83	114	101	91	111
Oeverzwaluw	111	1029	-	140	396	107	42	114	181	0	235	4	16	0	0	0	0	0
Snor	23	23	-	27	18	17	19	21	20	28	29	27	20	25	32	22	39	38
Spotvogel	-	-	-	-	-	-	2	6	10	9	8	15	17	14	21	15	25	23
Grote Karekiet	0	0	-	0	0	1	1	1	2	2	3	0	0	1	0	0	1	1
Grauwe Vliegenvang.	-	-	-	-	-	-	12	10	23	16	11	22	20	41	20	35	47	28
Nachtegaal	-	-	-	-	-	-	15	18	13	15	13	21	20	23	20	8	12	20
Blauwborst	-	88	-	122	120	128	168	137	165	180	174	233	248	182	214	213	190	187
Paapje	10	17	-	8	8	12	7	4	7	7	1	3	2	1	0	1	2	0
Roodborsttapuit	25	18	-	28	20	28	22	15	20	20	16	20	36	28	39	43	44	46
Tapuit	0	3	-	1	1	5	0	1	0	0	0	0	0	0	0	0	0	0
Gele Kwikstaart	-	-	-	-	-	-	2	6	6	15	5	4	14	14	13	18	7	19
Rouwkwikstaart	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Graspieper	-	-	-	-	-	-	244	199	194	284	227	214	188	183	254	270	277	320
Kneu	-	-	-	-	-	-	59	43	59	52	55	76	96	90	72	85	77	93

Bijlage 10b. De eilanden in het Lauwersmeergebied

Vastgestelde soorten en aantallen territoria van integraal gekarteerde meetsoorten. Sinds 2008 maken de eilanden deel uit van het vaste onderzoeksgebied. Aantallen van voor 2008 berusten op zichtwaarnemingen die vanaf de vaste wal gemaakt werden (zie Kleefstra & de Boer 2015).

Soort	99	00	01	02	03	04	05	06	07	08	09	10	11	12	14	15	16	17
Grauwe Gans	-	-	-	-	-	-	-	-	-	16	20	30	38	72	16	38	36	43
Krooneend	-	-	1	-	-	-	1	1	-	0	0	0	0	1	0	0	0	0
Slobeend	-	-	-	-	-	-	-	-	-	0	0	1	0	0	3	0	1	2
Zomertaling	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	1	0	0
Grote Aalscholver	-	-	-	-	-	-	-	-	-	0	2	0	0	0	0	0	0	0
Aalscholver	-	-	-	-	-	-	-	-	15	37	58	77	64	64	87	61	81	82
Roerdomp	-	-	-	-	-	1	-	1	-	0	1	0	0	0	0	0	0	0
Kleine Zilverreiger	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	1	3	8
Grote Zilverreiger	-	-	-	-	-	-	-	-	-	1	0	1	0	0	0	0	0	0
Blauwe Reiger	-	41	-	47	5	5	34	44	30	25	30	27	31	24	14	18	16	8
Dodaars	-	-	-	-	-	1	-	-	-	4	5	0	0	0	1	0	0	1
Bruine Kiekendief	-	1	-	3	2	2	2	1	1	2	3	2	3	3	4	2	3	3
Havik	-	-	-	-	-	-	-	-	1	1	1	1	1	2	1	0	0	0
Buizerd	-	-	-	-	1	2	1	2	2	3	1	0	1	1	0	0	0	0
Porseleinhoen	-	-	-	-	-	-	-	-	-	0	0	0	0	1	0	0	0	0
Kluut	-	-	-	1	-	-	-	-	-	0	0	0	0	0	0	0	0	0
Koekoek	-	-	-	-	-	-	-	3	2	4	3	3	3	2	4	2	3	2
Buidelmees	-	-	-	-	-	-	-	-	-	1	2	1	0	0	0	0	0	0
Matkop	-	-	-	-	-	-	-	-	-	4	2	0	0	1	1	1	1	1
Baardman	-	-	-	3	1	2	-	2	-	28	19	13	9	11	6	15	12	10
Snor	-	-	-	-	1	-	-	1	-	4	5	2	1	4	2	1	2	3
Spotvogel	-	-	-	-	-	-	-	-	-	0	0	1	1	3	0	2	1	2
Grote Karekiet	-	-	-	-	-	-	-	-	-	1	1	1	0	1	0	0	0	0
Grauwe Vliegenvanger	-	-	-	-	-	-	-	-	-	0	0	0	0	1	0	0	0	0
Nachtegaal	-	-	-	-	-	-	-	-	-	1	1	2	1	5	0	3	3	3
Blauwborst	-	-	-	-	-	2	-	3	-	33	26	12	25	29	26	30	25	21
Paapje	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	1
Roodborsttapuit	-	-	-	-	-	-	-	-	-	0	1	0	0	0	0	0	0	0
Graspieper	-	-	-	-	-	-	-	-	-	3	4	4	3	5	6	3	5	4
Kneu	-	-	-	-	-	-	-	-	-	5	4	2	1	1	4	5	1	2

Bijlage 11. Broedvogels in BMP-proefvlakken

Bantswal (65,0 ha) 1998-2017

Soort	98	02	07	08	09	10	11	12	14	15	16	17	N/100 ha
Knobbelzwaan	1	0	0	0	0	0	0	0	0	0	0	0	0,0
Indische Gans	0	0	1	0	0	0	0	0	0	0	0	0	0,0
Grauwe Gans	0	0	2	2	2	4	8	3	9	7	0	4	6,2
Brandgans	0	1	0	0	0	0	0	0	0	0	1	1	1,5
Nijlgans	0	1	1	1	0	0	0	0	0	0	0	0	0,0
Bergeend	5	1	3	2	4	5	0	2	3	3	3	3	4,6
Tafeleend	1	0	0	0	0	0	0	0	0	0	0	0	0,0
Kuifeend	6	1	2	4	0	0	0	3	8	2	1	3	4,6
Krakeend	5	4	2	3	2	2	4	0	2	3	4	2	3,1
Slobeend	1	0	2	2	1	1	0	0	0	0	0	1	1,5
Wilde Eend	8	5	7	7	0	5	5	6	6	5	4	3	4,6
Soepeend	2	0	1	0	0	1	0	0	0	0	0	0	0,0
Zomertaling	0	1	1	0	0	0	0	0	0	1	0	0	0,0
Wintertaling	0	1	0	0	0	0	0	0	0	0	0	0	0,0
Fazant	0	1	0	0	0	0	0	0	0	1	0	0	0,0
Fuut	3	0	0	0	0	0	0	0	0	0	0	0	0,0
Torenavk	0	0	0	1	1	1	1	1	0	0	0	0	0,0
Meerkoet	3	0	0	1	0	0	0	0	0	1	1	1	1,5
Scholekster	34	10	11	13	9	3	6	7	5	3	6	4	6,2
Kluut	4	1	0	1	0	0	0	1	0	0	0	0	0,0
Kleine Plevier	1	0	0	0	0	0	0	0	0	0	0	0	0,0
Bontbekplevier	2	0	1	0	0	0	0	0	0	0	0	0	0,0
Kievit	20	5	11	10	0	11	10	13	11	12	11	9	13,8
Bonte Strandloper	0	0	1	0	0	0	0	0	0	0	0	0	0,0
Kemphaan	0	0	1	0	0	0	0	0	0	0	0	0	0,0
Grutto	8	0	6	6	5	4	4	6	3	4	1	1	1,5
Tureluur	7	3	5	6	4	6	4	0	4	4	4	3	4,6
Visdief	2	0	0	0	0	0	0	0	0	1	0	0	0,0
Noordse Stern	1	0	1	1	0	0	0	0	0	0	0	0	0,0
Houtduif	0	0	0	0	0	0	0	0	0	0	1	1	1,5
Ekster	0	1	0	1	1	0	0	1	1	0	0	0	0,0
Zwarte Kraai	0	1	0	0	0	0	0	1	0	1	1	1	1,5
Veldleeuwerik	4	3	2	1	2	0	0	0	1	2	1	0	0,0
Fitis	1	0	0	0	0	0	0	1	0	0	1	0	0,0
Sprinkhaanzanger	1	0	0	0	0	0	0	0	0	0	0	0	0,0
Bosrietzanger	0	3	0	2	0	0	0	0	2	0	0	0	0,0
Kleine Karekiet	3	1	0	0	0	0	0	0	4	1	1	2	3,1
Rietzanger	2	2	5	4	0	0	0	3	5	2	2	4	6,2
Winterkoning	1	0	0	0	0	0	0	0	0	0	0	0	0,0
Roodborst	1	0	0	0	0	0	0	0	0	0	0	0	0,0
Blauwborst	0	1	0	0	0	0	0	0	0	0	0	0	0,0
Tapuit	1	0	0	0	0	0	0	0	0	0	0	0	0,0
Gele Kwikstaart	2	1	0	0	0	0	0	0	0	0	0	0	0,0
Witte Kwikstaart	4	1	0	0	0	0	0	0	0	0	0	0	0,0
Graspieper	18	13	16	12	12	9	10	8	7	8	10	4	6,2
Putter	0	1	0	0	0	0	0	0	0	0	0	0	0,0
Kneu	2	3	2	1	0	2	0	1	2	3	2	3	4,6
Rietgors	8	4	2	2	0	0	0	2	0	3	1	3	4,6
	162	70	86	83	43	54	52	59	73	67	56	53	

Ezumakeeg-West (64,4 ha) 1999-2017

Soort	99	00	02	03	04	05	06	07	08	09	10	11	12	14	15	16	17N/100 ha	
Knobbelzwaan	2	1	2	1	2	2	2	2	1	1	1	1	1	1	1	0	1	1,6
Grauwe Gans	0	0	1	1	2	3	10	8	9	8	21	8	7	8	13	7	5	7,8
Kolgans	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0,0
Brandgans	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0,0
Nijlgans	0	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0,0
Bergeend	2	4	5	3	3	2	3	5	6	6	4	4	4	3	5	4	0	0,0
Tafeleend	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0,0
Kuifeend	1	3	5	7	1	0	1	3	1	4	3	0	0	4	5	1	1	1,6
Krakeend	1	4	7	5	0	0	2	6	9	8	5	6	2	4	4	4	2	3,1
Slobeend	1	6	7	15	8	7	7	6	6	6	5	4	4	2	4	4	0	0,0
Wilde Eend	3	3	8	8	4	4	4	8	6	4	5	5	3	3	4	3	2	3,1
Soepeend	0	0	0	0	1	0	0	2	1	1	0	1	1	0	0	0	0	0,0
Pijlstaart	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0,0
Zomertaling	2	5	10	2	1	1	4	3	4	6	4	0	2	3	1	0	1	1,6
Wintertaling	0	0	3	0	1	2	0	2	1	3	1	2	1	3	0	1	1	1,6
Kwartel	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0,0
Fazant	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0,0
Dodaars	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0,0
Fuut	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0,0
Torenvalk	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0,0
Porseleinhoen	0	2	5	3	0	1	1	0	1	0	0	0	0	0	0	0	0	0,0
Meerkoet	9	7	7	8	6	4	2	3	2	4	4	1	0	2	4	3	2	3,1
Scholekster	2	4	2	2	2	0	2	2	5	3	2	4	1	1	1	1	1	1,6
Kluut	0	2	21	2	1	5	13	5	16	27	3	0	1	2	16	3	3	4,7
Kleine Plevier	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0,0
Bontbekplevier	0	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0,0
Kievit	11	9	1	1	3	4	4	6	7	7	7	7	8	5	11	6	9	14,0
Kemphaan	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0,0
Watersnip	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0,0
Grutto	0	0	0	1	0	1	0	0	0	1	1	0	0	0	0	0	0	0,0
Tureluur	3	5	6	2	4	2	3	3	4	3	3	4	2	5	6	3	3	4,7
Kokmeeuw	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0,0
Visdief	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0,0
Koekoek	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0,0
Zwarte Kraai	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0,0
Baardman	0	0	0	0	0	1	2	0	2	3	3	0	2	1	1	2	1	1,6
Veldleeuwerik	17	13	6	2	3	4	1	1	0	0	0	0	0	1	1	0	1	1,6
Fitis	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	3,1
Sprinkhaanzanger	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0,0
Bosrietzanger	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0,0
Kleine Karekiet	4	4	8	8	6	6	6	11	6	7	11	7	11	9	4	4	3	4,7
Rietzanger	0	4	17	14	9	7	10	8	9	13	13	11	14	10	9	5	9	14,0
Blauwborst	1	0	3	4	9	6	3	3	2	5	5	7	2	5	6	4	4	6,2
Gele Kwikstaart	2	5	3	1	1	0	0	0	0	0	0	0	2	0	1	1	0	0,0
Witte Kwikstaart	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0,0
Graspieper	19	7	12	11	9	9	8	8	6	6	4	2	3	5	4	4	5	7,8
Kneu	0	0	0	0	1	1	0	0	1	1	2	2	1	0	1	1	2	3,1
Rietgors	7	5	6	8	8	5	7	8	9	6	8	5	4	7	4	3	5	7,8
totaal	90	104	148	114	86	78	97	107	116	136	117	83	76	88	109	67	63	

Ezumakeeg-Oost (69,9 ha) 1999-2017

Soort	99	00	02	03	04	05	06	07	08	09	10	11	12	14	15	16	17N/100 ha
Knobbelzwaan	0	0	0	0	0	0	0	1	1	1	0	0	0	1	1	0	2,9
Grauwe Gans	3	5	8	3	10	10	15	17	21	23	32	17	41	46	43	50	108,7
Brandgans	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0,0
Nijlgans	0	0	0	0	0	0	0	2	1	1	1	0	0	2	0	1	0,0
Casarca	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0,0
Bergeend	1	4	2	1	2	0	2	4	1	4	2	3	2	6	4	4	7,2
Tafeleend	0	1	1	0	0	0	0	0	0	0	1	2	0	0	0	0	0,0
Kuifeend	2	4	3	3	6	2	4	5	7	5	3	6	5	4	0	4	4,3
Krakeend	2	2	3	3	2	3	5	3	4	4	5	4	4	6	6	4	4,3
Slobeend	0	0	2	1	0	0	2	3	2	3	0	2	2	1	8	3	0,0
Wilde Eend	6	4	9	11	6	5	8	6	4	3	4	3	3	4	3	5	10,0
Soepeend	1	1	0	0	2	0	1	1	1	1	0	1	1	0	0	0	0,0
Zomertaling	2	1	3	1	0	1	1	1	2	3	1	0	3	2	0	2	1,4
Wintertaling	0	1	3	0	0	3	0	1	1	2	3	0	0	0	0	0	0,0
Kwartel	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0,0
Fazant	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0,0
Roerdomp	3	2	1	1	1	1	1	1	0	1	1	1	1	1	0	1	1,4
Gr. Zilverreiger	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0,0
Dodaars	4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0,0
Fuut	1	1	1	2	1	1	1	1	1	2	2	1	0	0	0	1	0,0
Bruine Kiekendief	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1,4
Waterral	15	12	10	8	3	0	0	2	3	2	0	0	2	3	2	3	2,9
Porseleinhoen	0	5	3	2	2	0	0	1	1	1	0	0	1	0	0	1	0,0
Waterhoen	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0,0
Meerkoet	17	11	6	10	11	10	13	17	10	9	13	7	6	8	8	9	8,6
Scholekster	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	0	0,0
Steltkluit	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0,0
Kluit	0	1	0	0	0	0	0	0	1	0	1	0	0	1	1	1	0,0
Kleine Plevier	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	1,4
Kievit	0	3	3	4	2	4	3	3	3	3	2	1	5	4	5	4	5,7
Grutto	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0,0
Tureluur	1	2	2	1	2	0	2	2	2	1	1	1	0	1	2	2	1,4
Koekoek	1	0	0	0	0	0	1	0	0	1	1	1	0	1	2	1	0,0
Baardman	4	8	6	10	11	4	13	16	13	13	15	10	9	10	6	10	17,2
Veldleeuwerik	3	2	1	1	0	1	1	0	1	0	0	0	0	0	0	0	0,0
Fitis	0	0	0	0	0	0	0	0	0	2	2	8	6	5	11	11	17,2
Sprinkhaanzanger	5	2	0	0	0	0	0	1	1	1	1	3	2	1	1	1	1,4
Snor	3	3	4	3	0	0	1	0	1	0	2	1	0	1	1	2	2,9
Bosrietzanger	2	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0,0
Kleine Karekiet	56	41	36	37	25	16	26	26	12	24	35	55	24	39	30	37	31,5
Rietzanger	28	30	33	25	16	11	19	22	26	24	29	45	30	35	25	31	45,8
Blauwborst	1	2	3	2	0	1	1	2	2	2	8	12	3	6	6	9	7,2
Gele Kwikstaart	3	3	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0,0
Witte Kwikstaart	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0,0
Graspieper	12	7	7	2	5	1	2	4	5	3	4	2	1	3	3	5	4,3
Kneu	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0,0
Rietgors	27	23	28	24	20	14	15	16	29	17	17	32	26	40	29	31	38,6
totaal	208	184	182	158	129	90	137	159	159	160	189	222	177	237	200	238	229

Pompsterplaat (58,3 ha) 1999-2017

Soort	99	00	02	03	04	05	06	07	08	09	10	11	12	14	15	16	17N/100ha	
Knobbelzwaan	1	1	2	0	1	1	1	1	2	2	2	1	1	1	1	1	1,7	
Grauwe Gans	0	0	8	12	14	12	19	18	28	35	57	50	67	47	61	77	169,8	
Gr. Canadese Gans	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0,0	
Nijlgans	0	0	0	1	0	0	1	0	1	2	0	0	0	0	0	0	0,0	
Bergeend	2	2	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0,0	
Tafeleend	0	1	3	2	1	2	1	2	0	0	0	1	1	1	0	0	0,0	
Kuifeend	7	4	5	6	7	11	8	6	5	4	5	3	3	2	0	3	5,1	
Krakeend	3	3	6	1	2	2	3	4	5	5	2	2	3	3	2	8	5,1	
Slobeend	0	0	0	0	0	0	2	1	0	1	0	0	0	0	0	0	0,0	
Wilde Eend	11	5	18	13	6	8	7	7	5	6	7	3	7	3	10	6	10,3	
Soepeend	0	0	1	0	1	0	0	0	2	2	0	0	1	0	1	2	0,0	
Zomertaling	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0,0	
Wintertaling	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0,0	
Fazant	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1,7	
Roerdomp	5	3	4	3	2	2	0	0	2	1	1	0	0	1	0	1	0,0	
Woudaap	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0,0	
Kwak	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0,0	
Grote Zilverreiger	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0,0	
Dodaars	32	15	19	18	15	13	15	13	13	7	0	0	0	0	0	0	0,0	
Fuut	2	2	1	1	1	1	2	2	1	1	1	1	0	0	0	1	1,7	
Bruine Kiekendief	2	1	3	2	1	1	0	0	0	1	0	0	0	2	0	0	1,7	
Havik	1	1	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0,0	
Torenvalk	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0,0	
Waterral	42	21	21	13	10	8	10	6	7	5	5	3	4	5	5	4	8,6	
Porseleinhoen	0	2	2	2	0	1	0	0	0	1	1	1	1	1	1	0	0,0	
Waterhoen	0	1	9	11	6	6	6	5	5	3	0	1	1	0	2	2	0,0	
Meerkoet	38	15	21	18	20	22	23	21	29	22	21	16	25	17	14	12	10,3	
Houtduif	0	0	0	1	0	0	1	2	0	4	2	0	2	0	1	0	1,7	
Zomertortel	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0,0	
Koekoek	4	2	3	2	2	3	1	2	2	2	1	2	2	2	1	0	1,7	
Wielewaal	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0,0	
Gaai	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0,0	
Zwarte Kraai	0	0	1	1	1	0	1	1	2	1	1	1	0	1	1	2	1,7	
Buidelmees	4	2	2	1	1	0	0	1	0	0	0	1	0	0	0	0	0,0	
Pimpelmees	3	0	0	0	0	0	0	0	0	0	0	0	1	2	1	1	1,7	
Koolmees	1	0	1	0	1	0	1	1	1	2	1	0	1	1	1	1	1,7	
Matkop	1	0	0	0	0	0	2	2	0	1	0	0	0	0	0	1	1,7	
Baardman	32	23	41	29	25	21	19	19	15	23	13	7	17	15	11	11	20,6	
Staartmees	0	0	0	0	1	0	1	0	1	0	0	0	0	1	1	1	1,7	
Tjiftjaf	5	2	3	5	6	6	6	6	5	4	7	7	3	6	5	7	6,9	
Fitis	43	10	25	21	22	28	21	18	26	25	18	25	20	21	20	15	26	44,6
Braamsluiper	0	0	1	0	0	0	0	1	1	1	0	0	0	0	1	0	1,7	
Grasmus	3	1	0	1	0	0	0	1	0	1	1	0	1	0	0	0	1,7	
Tuinfluit	5	1	2	2	1	0	0	0	2	2	2	2	2	3	3	3	5,1	
Zwartkop	1	0	0	0	0	0	0	0	0	0	0	2	0	3	1	2	5,1	
Sprinkhaanzanger	6	2	2	2	2	3	2	1	2	1	1	0	1	0	1	2	1,7	
Snor	9	8	13	9	6	7	4	3	6	9	5	6	4	7	3	5	10,3	
Bosrietzanger	4	2	0	0	1	0	0	2	0	3	3	3	2	2	2	0	1,7	
Kleine Karekiet	120	25	116	64	61	55	55	50	54	58	51	45	51	33	37	41	37	63,5
Rietzanger	30	23	55	41	30	31	38	30	41	34	39	64	38	36	33	35	23	39,5
Boomkruiper	0	0	0	0	0	1	1	0	2	1	0	0	1	1	1	1	1	1,7
Winterkoning	15	6	8	12	10	8	10	12	8	8	9	3	9	5	8	8	8	13,7
Merel	1	1	1	1	1	0	2	1	1	2	1	1	0	0	1	2	1	1,7
Zanglijster	2	2	1	3	1	0	0	0	0	1	1	1	0	0	2	1	1	1,7
Grauwe Vliegenv.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1,7
Roodborst	0	0	0	0	0	0	1	1	0	1	1	1	0	0	1	0	1	1,7
Nachtegaal	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0,0
Blauwborst	12	6	8	6	7	6	8	7	7	7	12	7	9	6	5	9	5	8,6
Heggenmus	0	0	2	0	0	1	1	2	2	2	1	2	0	0	0	1	1	1,7
Boompieper	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0,0
Vink	0	0	0	1	1	1	2	0	3	2	2	2	1	2	1	1	1	1,7
Putter	1	2	1	1	1	1	0	0	0	1	1	0	0	1	0	0	1	1,7
Kneu	4	3	2	4	1	1	1	0	0	0	1	1	0	0	1	0	1	1,7
Goudvink	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1,7
Rietgors	42	16	20	24	24	29	25	25	32	29	33	33	38	37	32	33	29	49,7
totaal	503	218	437	336	296	293	305	275	319	323	310	299	317	268	273	302	303	

Sennerplaat-Midden (70,0 ha) 2002-2017

Soort	2002	2007	2012	2014	2015	2016	2017	N/100 ha
Grauwe Gans	0	2	0	3	2	3	5	7,1
Kuifeend	1	1	2	5	4	2	0	0,0
Krakeend	5	0	1	3	2	3	3	4,3
Wilde Eend	8	1	0	3	4	3	1	1,4
Fazant	0	0	0	0	1	0	1	1,4
Roerdomp	1	0	0	0	0	0	0	0,0
Fuut	2	0	2	3	2	2	1	1,4
Bruine Kiekendief	2	2	2	2	2	2	3	4,3
Buizerd	0	2	1	0	0	0	0	0,0
Meerkoet	9	2	3	4	4	3	3	4,3
Houtduif	1	3	2	1	1	1	2	2,9
Koekoek	1	1	0	1	1	2	1	1,4
Grote Bonte Specht	0	0	0	0	0	0	1	1,4
Wielewaal	0	1	0	0	0	0	0	0,0
Gaai	0	0	0	0	2	1	1	1,4
Zwarte Kraai	1	1	0	0	0	1	1	1,4
Pimpelmees	0	0	0	0	2	0	1	1,4
Koolmees	0	1	0	0	1	1	2	2,9
Matkop	1	1	1	0	0	0	0	0,0
Baardman	9	13	4	10	11	8	4	5,7
Staartmees	0	0	0	0	0	1	0	0,0
Tjiftjaf	3	5	7	7	6	11	13	18,6
Fitis	29	16	35	17	33	32	40	57,1
Braamsluiper	0	0	0	0	0	0	1	1,4
Grasmus	0	0	2	0	0	2	3	4,3
Tuinfluit	4	2	4	4	3	5	4	5,7
Zwartkop	0	1	5	5	3	4	8	11,4
Sprinkhaanzanger	5	5	4	2	1	3	2	2,9
Snor	2	3	2	0	2	6	5	7,1
Bosrietzanger	0	3	0	3	0	0	0	0,0
Kleine Karekiet	55	23	21	32	21	24	21	30,0
Rietzanger	103	72	60	63	50	67	57	81,4
Winterkoning	1	3	0	4	5	8	5	7,1
Merel	0	0	0	0	1	2	2	2,9
Zanglijster	0	0	0	0	0	1	0	0,0
Nachtegaal	0	0	0	0	0	2	0	0,0
Grauwe Vliegenvanger	0	0	0	0	0	0	1	1,4
Roodborst	0	1	0	1	0	0	3	4,3
Blauwborst	2	8	5	7	5	8	8	11,4
Gekraagde Roodstaart	0	0	0	0	0	1	0	0,0
Heggenmus	0	1	0	0	0	2	2	2,9
Graspieper	0	4	0	3	3	2	2	2,9
Vink	0	0	3	2	2	3	4	5,7
Kneu	1	2	0	0	0	0	0	0,0
Goudvink	0	0	0	0	1	1	1	1,4
Rietgors	36	31	31	40	31	40	43	61,4
totaal	282	211	197	225	206	257	255	

Blikplaat-West (109,1 ha) 2014-2017

soort	2014	2015	2016	2017	N/100 ha
Grauwe Gans	0	2	0	8	7,3
Slobeend	1	0	0	0	0,0
Krakeend	2	0	1	0	0,0
Wilde Eend	9	0	1	0	0,0
Zomertaling	0	1	0	0	0,0
Fazant	0	1	1	0	0,0
Waterral	0	0	1	0	0,0
Meerkoet	1	1	0	0	0,0
Kievit	0	1	2	0	0,0
Houtduif	1	1	0	0	0,0
Koekoek	0	0	0	1	0,9
Grote Bonte Specht	0	1	1	0	0,0
Zwarte Kraai	1	1	1	1	0,9
Pimpelmees	0	0	2	0	0,0
Koolmees	3	1	1	1	0,9
Matkop	0	0	1	1	0,9
Baardman	1	1	0	0	0,0
Veldleeuwerik	1	0	1	1	0,9
Tjiftjaf	4	3	5	4	3,7
Fitis	27	30	28	38	34,8
Braamsluiper	0	0	1	1	0,9
Grasmus	1	6	4	5	4,6
Tuinfluitier	4	3	4	2	1,8
Zwartkop	1	1	1	2	1,8
Sprinkhaanzanger	4	8	7	10	9,2
Snor	1	0	0	0	0,0
Spotvogel	0	1	0	0	0,0
Bosrietzanger	0	1	2	1	0,9
Kleine Karekiet	7	1	1	3	2,7
Rietzanger	60	58	55	67	61,4
Winterkoning	4	4	5	6	5,5
Merel	1	2	0	2	1,8
Zanglijster	1	1	0	1	0,9
Blauwborst	10	8	9	6	5,5
Gekraagde Roodstaart	0	0	0	1	0,9
Roodborsttapuit	0	0	1	1	0,9
Boompieper	3	5	5	3	2,7
Graspieper	14	18	19	26	23,8
Vink	5	4	4	1	0,9
Putter	0	1	0	0	0,0
Kneu	0	0	4	0	0,0
Rietgors	43	58	43	43	39,4
totaal	210	222	211	228	

Kollumerwaard (61,2 ha) 2004-2017

Soort	04	05	06	07	08	09	10	11	12	13	14	15	16	17	N/100 ha
Knobbelzwaan	2	1	2	2	1	1	1	1	1	1	2	2	1	1	1,6
Grauwe Gans	2	26	46	29	46	69	111	50	144	55	98	133	131	197	321,9
Soepgans	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0,0
Grote Canadese Gans	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0,0
Nijlgans	1	4	3	2	3	2	2	2	1	1	1	1	0	2	3,3
Bergeend	3	1	2	0	0	2	1	3	4	2	1	0	1	0	0,0
Tafeleend	1	1	1	2	2	1	6	1	3	1	2	0	0	0	0,0
Kuifeend	11	25	21	20	17	9	11	9	8	9	10	4	22	7	11,4
Krakeend	9	8	13	13	9	10	7	7	4	3	2	4	3	9	14,7
Slobeend	4	6	7	11	2	1	0	0	4	3	1	3	3	1	1,6
Wilde Eend	11	9	12	10	11	16	9	7	9	15	9	12	17	4	6,5
Soepeend	1	1	2	0	4	2	1	1	0	3	0	0	1	0	0,0
Zomertaling	2	2	3	2	4	1	1	1	1	1	0	1	1	0	0,0
Wintertaling	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0,0
Rosse Stekelstaart	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0,0
Roerdomp	1	2	2	2	1	2	2	1	1	2	5	3	2	1	1,6
Grote Zilverreiger	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0,0
Dodaars	5	9	10	14	16	5	4	1	2	1	1	1	2	1	1,6
Fuut	2	3	3	3	4	2	3	1	2	3	3	5	5	5	8,2
Bruine Kiekendief	1	2	1	2	1	1	1	0	2	2	1	2	3	2	3,3
Waterral	3	9	6	14	16	2	3	3	10	7	15	12	12	5	8,2
Porseleinhoen	1	4	2	1	2	0	2	0	1	0	0	0	0	0	0,0
Waterhoen	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0,0
Meerkoet	18	14	26	15	22	8	18	13	15	12	11	19	19	22	35,9
Scholekster	1	2	2	0	0	1	0	0	0	0	0	0	0	0	0,0
Kluut	1	2	1	0	0	7	0	1	0	0	0	0	0	0	0,0
Kleine Plevier	5	10	2	2	1	4	1	4	2	0	0	0	0	1	1,6
Kievit	7	17	10	9	2	6	5	2	4	0	0	0	0	9	14,7
Watersnip	0	1	2	1	0	0	1	0	0	0	0	0	0	0	0,0
Tureluur	1	1	0	0	0	0	0	1	0	0	0	0	0	2	3,3
Koekoek	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0,0
Zwarte Kraai	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0,0
Matkop	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0,0
Baardman	0	3	3	11	8	14	16	5	10	11	20	20	26	21	34,3
Veldleeuwerik	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1,6
Oeverzwaluw	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0,0
Tjiftjaf	0	0	0	0	0	0	0	0	1	2	0	1	4	2	3,3
Fitis	2	1	1	2	1	5	6	8	11	28	15	20	24	22	35,9
Braamsluiper	0	0	0	0	1	0	0	1	1	0	1	0	0	0	0,0
Grasmus	1	0	0	0	0	0	0	0	1	1	1	1	0	1	1,6
Tuinfluit	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1,6
Sprinkhaanzanger	2	3	1	3	1	2	2	3	4	6	4	0	9	3	4,9
Snor	1	1	2	2	7	5	3	5	5	3	5	5	12	9	14,7
Bosrietzanger	2	2	0	1	1	0	1	4	2	1	3	3	0	1	1,6
Kleine Karekiet	22	40	62	87	69	55	82	75	86	79	111	84	82	76	124,2
Rietzanger	24	20	13	32	26	49	45	80	31	69	46	37	57	43	70,3
Grote Karekiet	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0,0
Winterkoning	2	5	1	3	2	6	2	0	0	0	0	3	2	5	8,2
Blauwborst	3	12	10	10	7	12	9	14	12	17	8	0	4	5	8,2
Gele Kwikstaart	0	2	0	0	0	1	0	3	2	2	0	0	0	2	3,3
Witte Kwikstaart	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0,0
Graspieper	1	4	1	0	0	3	1	2	4	0	0	0	0	0	0,0
Vink	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0,0
Putter	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0,0
Kneu	5	0	0	0	0	0	0	0	0	1	0	0	0	0	0,0
Rietgors	16	23	26	27	30	20	27	30	27	41	34	35	42	27	44,1
totaal	187	280	301	333	319	324	385	339	415	383	411	413	486	488	

Zoutkamperplaat-West (142,0 ha) 2000-2017

Soort	00	06	08	09	10	11	12	14	15	16	17	N/100 ha
Grauwe Gans	0	0	0	0	4	0	0	2	2	0	2	1,4
Nijlgans	1	1	2	0	1	2	1	0	0	0	1	0,7
Bergeend	2	0	1	0	0	0	1	0	0	0	0	0,0
Tafeleend	1	0	0	0	0	0	0	0	0	0	0	0,0
Kuifeend	9	0	1	0	0	0	0	1	0	0	0	0,0
Krakeend	10	2	1	3	0	4	1	1	0	2	1	0,7
Slobeend	1	0	0	0	0	0	0	0	0	0	0	0,0
Wilde Eend	10	2	3	0	0	1	0	1	0	1	2	1,4
Soepeend	0	3	0	0	0	0	0	0	0	0	0	0,0
Kwartel	0	1	0	1	0	1	0	0	0	0	0	0,0
Fazant	2	2	1	1	1	1	1	1	1	2	0	0,0
Roerdomp	1	0	0	0	0	0	0	0	0	0	0	0,0
Fuut	3	1	0	0	0	0	0	1	0	0	0	0,0
Bruine Kiekendief	3	0	0	0	0	0	0	0	0	0	0	0,0
Grauwe Kiekendief	3	0	0	0	0	0	0	0	0	0	0	0,0
Havik	1	1	0	0	0	1	1	0	1	1	1	0,7
Buizerd	0	1	0	1	1	1	1	1	1	1	0	0,0
Waterral	0	0	1	0	0	0	0	0	0	0	0	0,0
Meerkoet	9	4	4	2	1	5	2	1	1	0	3	2,1
Scholekster	1	2	1	0	1	0	2	1	0	0	1	0,7
Kievit	1	2	0	0	0	0	1	1	0	0	0	0,0
Tureluur	0	1	0	0	0	0	0	0	0	0	0	0,0
Holenduif	1	0	0	0	0	0	0	0	0	0	0	0,0
Houtduif	0	0	2	0	1	2	1	3	2	1	1	0,7
Koekoek	0	1	1	1	1	1	1	1	0	1	2	1,4
Grote Bonte Specht	1	1	2	1	2	2	2	2	2	2	3	2,1
Wielewaal	2	2	1	0	0	1	0	2	0	0	2	1,4
Gaai	1	0	0	0	0	1	1	2	1	2	1	0,7
Zwarte Kraai	0	0	0	0	0	0	0	0	0	1	0	0,0
Buidelmees	1	0	0	0	0	0	0	0	0	0	0	0,0
Pimpelmees	2	2	1	2	3	2	4	3	4	6	2	1,4
Koolmees	5	3	6	5	7	6	8	7	6	5	7	4,9
Matkop	0	3	2	0	2	1	1	1	1	0	2	1,4
Baardman	7	0	0	0	0	0	0	0	0	0	0	0,0
Veldleeuwerik	0	1	4	5	3	5	3	3	1	2	1	0,7
Staartmees	1	0	1	0	1	0	2	2	2	0	2	1,4
Tjiftjaf	6	3	10	9	11	10	15	16	25	21	21	14,8
Fitis	56	55	65	81	56	81	57	80	83	118	121	85,2
Braamsluiper	0	0	0	2	1	1	1	1	0	2	0	0,0
Grasmus	3	0	2	0	4	7	2	10	17	16	18	12,7
Tuinfluitier	3	4	5	5	4	7	1	9	7	11	6	4,2
Zwartkop	3	1	2	0	4	5	5	4	6	6	6	4,2
Sprinkhaanzanger	15	9	9	12	15	16	13	11	7	16	13	9,2
Snor	2	0	0	0	0	0	0	0	0	0	0	0,0
Spotvogel	0	0	0	0	1	1	0	0	0	1	0	0,0
Bosrietzanger	0	2	0	0	0	0	0	4	0	2	1	0,7
Kleine Karekiet	15	3	5	3	2	6	1	2	0	3	3	2,1
Rietzanger	255	75	83	84	77	102	35	75	60	75	86	60,6
Boomkruiper	0	3	3	0	1	2	3	4	4	7	4	2,8
Winterkoning	16	15	20	23	15	13	15	18	24	23	20	14,1
Spreeuw	0	0	1	0	0	0	0	0	0	0	0	0,0
Merel	5	3	7	2	6	4	6	6	6	4	5	3,5
Zanglijster	1	3	2	4	3	6	4	4	4	4	4	2,8
Grauwe Vliegenvanger	0	1	0	0	1	1	2	3	2	3	4	2,8
Roodborst	6	0	2	1	0	0	1	0	5	1	0	0,0
Nachtegaal	0	0	0	0	1	0	0	0	0	0	0	0,0
Blauwborst	20	7	11	14	18	11	8	15	18	13	18	12,7
Gekraagde Roodstaart	0	0	0	0	0	0	0	0	0	2	2	1,4
Roodborsttapuit	0	0	0	0	0	0	2	0	0	0	0	0,0
Heggenmus	2	2	1	1	5	0	1	0	0	0	0	0,0
Gele Kwikstaart	0	0	0	0	0	0	0	0	0	1	0	0,0
Boompieper	0	3	2	4	8	5	8	5	7	10	9	6,3
Graspieper	5	6	11	8	11	7	9	12	14	16	18	12,7
Vink	1	8	8	8	7	10	10	12	11	9	9	6,3
Putter	0	0	0	0	0	0	0	1	0	0	0	0,0
Kneu	0	1	0	2	0	1	3	0	0	1	0	0,0
Rietgors	42	30	21	17	37	26	15	38	35	37	32	22,5
totaal	535	270	305	302	317	359	251	367	360	429	434	

Zoutkamperplaat-landaanwinning (47,5 ha) 2014-2017

soort	2014	2015	2016	2017	N/100 ha
Grauwe Gans	0	0	1	5	10,5
Krakeend	1	0	0	0	0,0
Wilde Eend	1	1	0	0	0,0
Fazant	2	3	1	1	2,1
Buizerd	1	0	0	1	2,1
Houtduif	1	2	2	1	2,1
Koekoek	0	1	0	0	0,0
Grote Bonte Specht	0	1	1	2	4,2
Grauwe Klauwier	2	1	2	0	0,0
Gaai	0	0	1	0	0,0
Zwarte Kraai	0	1	1	0	0,0
Pimpelmees	2	2	4	3	6,3
Koolmees	5	6	7	7	14,7
Matkop	1	0	0	0	0,0
Staartmees	0	1	0	1	2,1
Tjiftjaf	10	20	17	15	31,6
Fitis	35	28	46	33	69,5
Braamsluiper	1	0	2	2	4,2
Grasmus	11	16	11	19	40,0
Tuinfluitier	7	9	5	7	14,7
Zwartkop	6	7	4	5	10,5
Sprinkhaanzanger	7	7	11	8	16,8
Spotvogel	3	0	0	0	0,0
Bosrietzanger	6	3	3	3	6,3
Kleine Karekiet	3	3	4	5	10,5
Rietzanger	19	15	21	20	42,1
Boomkruiper	3	3	4	2	4,2
Winterkoning	9	15	9	10	21,1
Merel	4	5	4	3	6,3
Zanglijster	0	4	5	2	4,2
Grauwe Vliegenvanger	1	1	1	1	2,1
Roodborst	0	1	1	0	0,0
Blauwborst	2	9	5	5	10,5
Roodborsttapuit	6	8	10	7	14,7
Heggenmus	0	1	1	2	4,2
Boompieper	9	9	11	8	16,8
Graspieper	2	3	3	3	6,3
Vink	6	9	5	5	10,5
Putter	2	0	1	0	0,0
Kneu	5	6	8	9	18,9
Goudvink	0	1	0	0	0,0
Rietgors	5	5	7	6	12,6
totaal	178	207	218	196	

Schildhoek (172,6 ha) 1999-2017*

Soort	99	05	08	09	10	11	12	14	15	16	17	N/100 ha
Grauwe Gans	0	2	1	6	10	10	3	21	13	16	14	8,1
Soepgans	1	0	0	0	0	0	0	0	0	0	0	0,0
Nijlgans	1	2	2	1	1	1	2	1	2	2	2	1,2
Bergeend	1	3	3	3	3	2	4	4	4	4	2	1,2
Kuifeend	5	4	5	1	4	7	1	2	1	1	0	0,0
Krakeend	13	11	12	15	22	11	17	17	14	9	12	7,0
Slobeend	5	1	0	0	1	0	1	5	1	0	1	0,6
Wilde Eend	13	11	8	6	5	9	11	10	16	14	8	4,6
Soepeend	1	0	1	0	0	0	1	0	1	0	0	0,0
Zomertaling	1	1	1	0	0	0	0	1	0	0	0	0,0
Wintertaling	1	0	0	0	0	0	0	0	0	0	0	0,0
Kwartel	0	0	0	0	0	0	0	0	0	0	1	0,6
Fazant	2	0	0	0	0	1	0	0	0	0	0	0,0
Roerdomp	1	0	0	0	0	0	0	0	0	0	0	0,0
Fuut	8	4	2	2	0	4	5	4	4	2	1	0,6
Bruine Kiekendief	0	1	1	1	1	1	0	1	0	0	0	0,0
Havik	1	0	0	0	0	0	0	0	0	0	0	0,0
Buizerd	0	1	1	0	1	1	1	1	1	0	0	0,0
Torenavalk	1	1	0	0	0	0	0	0	0	0	0	0,0
Waterral	1	0	0	1	1	0	0	0	0	0	0	0,0
Kwartelkoning	0	0	0	1	0	0	0	0	0	0	0	0,0
Meerkoet	14	11	5	5	10	9	9	8	5	10	6	3,5
Scholekster	13	6	3	4	4	4	3	3	3	2	3	1,7
Kluut	6	0	1	1	1	1	0	3	0	1	0	0,0
Kleine Plevier	0	0	0	0	1	0	0	0	0	0	0	0,0
Kievit	26	18	14	6	12	9	4	13	13	16	10	5,8
Kemphaan	1	0	0	0	0	0	0	0	0	0	0	0,0
Grutto	1	1	1	0	0	0	0	0	0	0	0	0,0
Tureluur	16	7	3	2	2	2	2	5	4	3	2	1,2
Houtduif	3	0	1	0	2	1	1	0	1	0	0	0,0
Koekoek	3	2	1	1	1	1	1	1	1	1	0	0,0
Grote Bonte Specht	1	1	1	0	0	0	1	0	1	0	0	0,0
Wielewaal	1	1	0	0	0	0	0	0	0	0	1	0,6
Zwarte Kraai	1	3	1	1	2	1	2	2	2	2	2	1,2
Pimpelmees	0	1	0	1	1	2	1	2	1	2	0	0,0
Koolmees	0	1	3	2	2	2	2	1	0	2	2	1,2
Matkop	0	0	0	0	1	0	0	0	0	0	1	0,6
Bardman	12	5	8	14	10	3	1	1	7	1	2	1,2
Veldleeuwerik	33	24	30	23	20	12	11	11	9	9	12	7,0
Staartmees	0	0	0	0	1	0	1	0	0	0	1	0,6
Tjiftjaf	3	3	3	3	5	2	8	5	6	7	7	4,1
Fitis	16	50	43	40	49	62	40	48	36	54	51	29,5
Braamsluiper	0	0	1	1	0	0	0	0	1	2	0	0,0
Grasmus	0	0	1	0	3	2	1	1	3	2	6	3,5
Tuinfluit	2	3	2	2	2	2	3	5	7	5	5	2,9
Zwartkop	1	1	3	1	5	3	3	4	3	3	5	2,9
Sprinkhaanzanger	21	10	9	6	15	12	9	6	9	9	10	5,8
Snor	1	2	1	2	1	2	0	1	1	1	4	2,3
Spotvogel	0	0	0	0	0	1	0	0	0	1	0	0,0
Bosrietzanger	6	6	0	0	7	9	3	4	5	8	5	2,9
Kleine Karekiet	82	51	48	44	58	57	38	29	32	32	39	22,6
Rietzanger	119	83	133	140	135	160	63	89	74	99	118	68,4
Winterkoning	4	14	16	18	8	6	5	6	9	6	11	6,4
Spreeuw	0	0	0	0	1	0	0	0	0	1	0	0,0
Merel	2	3	2	0	3	4	2	4	2	2	3	1,7
Zanglijster	2	1	2	1	2	0	1	1	1	1	1	0,6
Grauwe Vliegenvanger	0	1	0	0	0	1	0	0	0	1	0	0,0
Nachtegaal	0	0	0	0	0	0	1	0	0	0	0	0,0
Blauwborst	7	20	18	15	22	21	14	19	17	20	11	6,4
Roodborsttapuit	0	1	2	0	0	2	1	1	1	1	3	1,7
Heggenmus	0	0	0	2	1	0	0	1	1	0	0	0,0
Gele Kwikstaart	5	0	2	1	1	0	2	0	0	0	3	1,7
Witte Kwikstaart	2	0	0	1	0	0	0	0	0	0	0	0,0
Boompieper	0	1	0	0	2	1	1	1	0	2	1	0,6
Graspieper	26	23	16	17	16	11	19	25	21	25	25	14,5
Vink	2	2	2	3	1	2	2	3	2	4	2	1,2
Putter	0	0	0	0	0	0	0	0	1	1	1	0,6
Kneu	2	4	1	1	2	2	2	1	3	2	4	2,3
Rietgors	54	44	41	32	36	41	41	41	49	40	45	26,1
totaal	544	446	455	427	494	497	344	412	388	426	443	

* zie voor aantallen vanaf 1978 Kleefstra & de Boer (2015)

Zuidelijke Ballastplaat-grazig (153,5 ha) 2003-2017

Soort	2003	2008	2011	2014	2015	2016	2017	N/100 ha
Grauwe Gans	0	0	1	6	15	12	6	3,9
Nijlgans	0	1	1	1	3	2	2	1,3
Bergeend	15	2	0	2	0	3	1	0,7
Kuifeend	0	1	1	1	2	1	1	0,7
Krakeend	7	16	6	15	11	19	17	11,1
Smient	0	1	0	0	0	0	0	0,0
Slobeend	2	1	1	2	1	2	1	0,7
Wilde Eend	19	8	2	18	8	15	21	13,7
Soepeend	0	1	1	0	0	0	1	0,7
Zomertaling	0	0	1	0	0	0	0	0,0
Kwartel	0	0	1	0	0	0	1	0,7
Fuut	1	1	0	1	0	1	1	0,7
Buizerd	0	1	1	1	1	0	1	0,7
Torenavalk	0	0	0	1	1	1	1	0,7
Meerkoet	9	4	1	0	2	1	3	2,0
Scholekster	15	11	9	5	6	6	5	3,3
Kluut	3	6	3	4	1	2	6	3,9
Bontbekplevier	0	1	0	1	1	1	1	0,7
Kievit	14	22	16	22	22	34	37	24,1
Kemphaan	1	0	0	0	0	0	0	0,0
Grutto	3	2	0	0	0	0	1	0,7
Tureluur	6	8	4	5	9	9	6	3,9
Houtduif	2	2	1	1	2	1	2	1,3
Koekoek	1	1	0	0	1	0	0	0,0
Wielewaal	0	0	0	0	0	0	1	0,7
Zwarte Kraai	1	3	1	3	2	2	2	1,3
Koolmees	0	1	1	1	2	1	0	0,0
Baardman	0	0	0	2	2	1	0	0,0
Veldleeuwerik	13	28	22	26	31	26	25	16,3
Staartmees	0	0	1	0	1	0	0	0,0
Tjiftjaf	5	1	3	3	5	3	7	4,6
Fitis	25	38	37	39	49	48	66	43,0
Braamsluiper	1	1	4	2	6	3	5	3,3
Grasmus	1	11	9	13	8	12	16	10,4
Tuinfluit	0	8	8	6	9	4	8	5,2
Zwartkop	0	1	4	4	5	4	4	2,6
Sprinkhaanzanger	0	1	1	0	0	0	0	0,0
Spotvogel	0	1	3	3	2	4	4	2,6
Bosrietzanger	4	3	0	0	3	0	0	0,0
Kleine Karekiet	10	11	14	6	12	6	6	3,9
Rietzanger	2	11	15	17	10	11	14	9,1
Winterkoning	2	6	1	3	6	6	5	3,3
Merel	1	2	2	4	6	4	5	3,3
Zanglijster	0	1	1	1	1	1	3	2,0
Roodborst	0	1	0	0	0	0	0	0,0
Nachtegaal	0	1	0	2	1	2	1	0,7
Blauwborst	2	0	3	3	4	4	4	2,6
Roodborsttapuit	0	0	0	0	0	0	1	0,7
Heggenmus	0	3	0	3	3	4	4	2,6
Gele Kwikstaart	0	1	1	1	1	1	1	0,7
Boompieper	0	1	0	0	1	0	0	0,0
Graspieper	32	50	32	33	34	29	39	25,4
Vink	0	2	2	4	6	4	4	2,6
Putter	0	0		0	0	1	0	0,0
Kneu	2	1	1	2	5	9	8	5,2
Rietgors	17	19	13	12	10	20	20	13,0
totaal	216	297	229	279	311	320	368	

Zuidelijke Lob (145,1 ha) 2014-2017

soort	2014	2015	2016	2017N/100 ha	
Grauwe Gans	16	3	1	9	6,2
Krakeend	6	4	8	3	2,1
Slobeend	2	1	2	0	0,0
Wilde Eend	6	5	12	7	4,8
Zomertaling	0	0	0	1	0,7
Scholekster	4	6	5	4	2,8
Kluut	1	0	1	0	0,0
Bontbekplevier	0	0	1	1	0,7
Kievit	38	21	20	14	9,6
Bonte Strandloper	1	0	0	1	0,7
Kemphaan	1	0	1	0	0,0
Watersnip	0	0	0	1	0,7
Grutto	1	0	0	0	0,0
Tureluur	11	6	12	9	6,2
Grauwe Klauwier	0	1	0	0	0,0
Zwarte Kraai	1	0	0	0	0,0
Koolmees	1	0	1	1	0,7
Veldleeuwerik	24	21	18	20	13,8
Tjiftjaf	1	3	0	2	1,4
Fitis	30	33	32	29	20,0
Braamsluiper	1	1	1	0	0,0
Grasmus	9	6	10	9	6,2
Tuinfluit	3	1	3	1	0,7
Zwartkop	1	2	0	1	0,7
Sprinkhaanzanger	0	1	1	0	0,0
Kleine Karekiet	0	1	0	1	0,7
Rietzanger	5	8	15	14	9,6
Winterkoning	0	1	1	1	0,7
Merel	1	0	0	1	0,7
Roodborst	0	0	0	1	0,7
Blauwborst	5	5	2	3	2,1
Roodborsttapuit	2	1	1	3	2,1
Heggenmus	1	0	0	0	0,0
Gele Kwikstaart	1	1	0	0	0,0
Boompieper	1	1	0	0	0,0
Graspieper	34	34	34	39	26,9
Kneu	0	1	3	2	1,4
Rietgors	8	8	10	15	10,3
totaal	216	176	195	193	

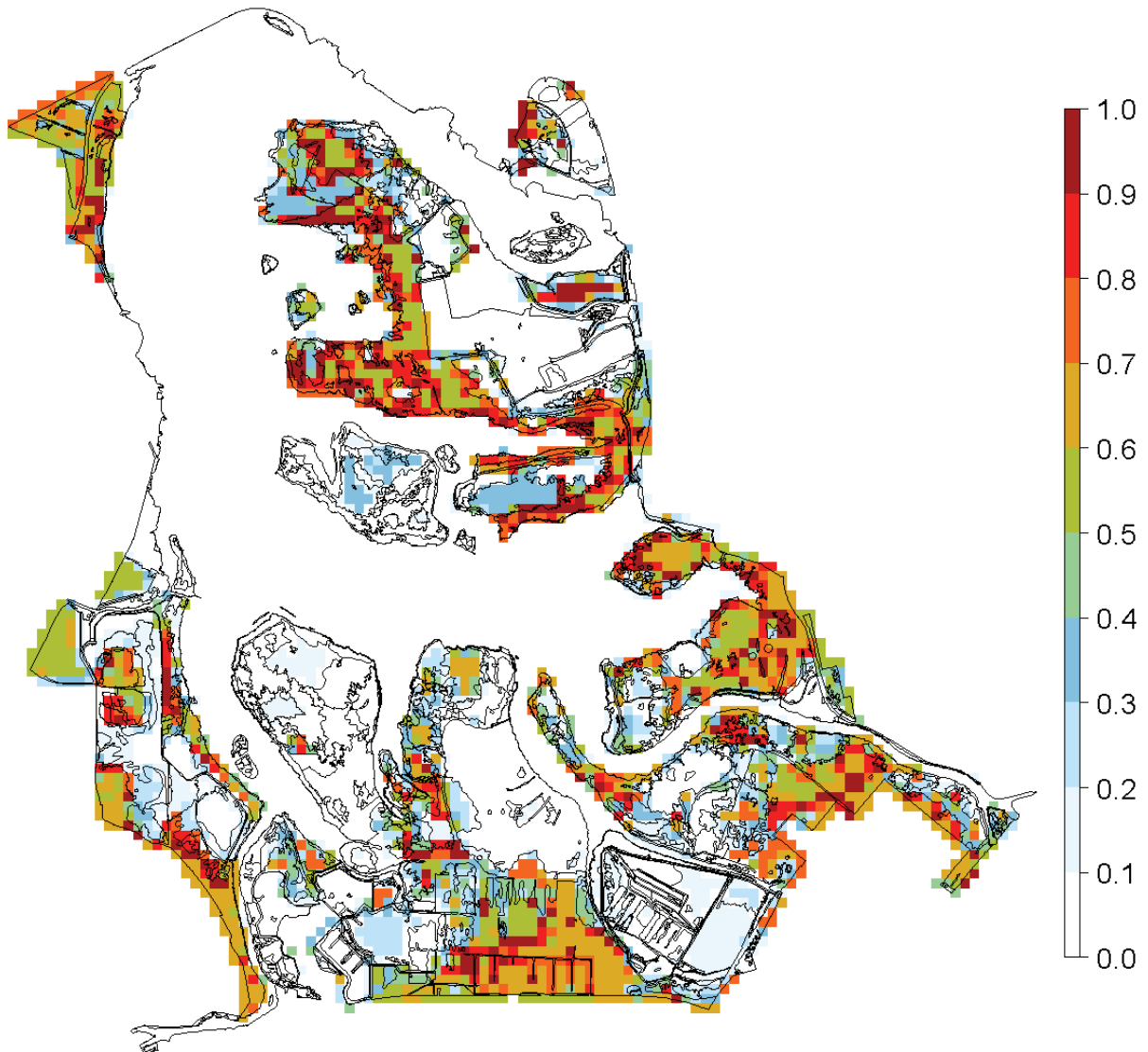
De Rug (135,3 ha) 2014-2017

soort	2014	2015	2016	2017N/100 ha	
Grauwe Gans	2	10	3	3	2,2
Nijlgans	0	0	1	0	0,0
Bergeend	1	1	2	0	0,0
Slobeend	1	0	0	0	0,0
Krakeend	6	13	5	7	5,2
Wilde Eend	12	20	17	15	11,1
Kwartel	0	0	0	2	1,5
Fazant	0	2	3	3	2,2
Fuut	1	0	0	0	0,0
Buizerd	1	1	1	1	0,7
Meerkoet	0	1	2	2	1,5
Scholekster	2	1	1	2	1,5
Kluut	1	0	0	1	0,7
Bontbekplevier	0	0	0	1	0,7
Kievit	7	6	8	9	6,7
Tureluur	1	1	1	1	0,7
Houtduif	3	2	2	0	0,0
Koekoek	1	0	0	0	0,0
Grote Bonte Specht	1	1	0	1	0,7
Zwarte Kraai	1	2	0	1	0,7
Pimpelmees	0	0	0	2	1,5
Koolmees	2	2	1	3	2,2
Matkop	0	0	0	1	0,7
Veldleeuwerik	17	12	12	12	8,9
Tjiftjaf	9	11	16	13	9,6
Fitis	85	85	107	107	79,1
Braamsluiper	2	7	3	2	1,5
Grasmus	20	24	35	45	33,3
Tuinfluit	7	7	9	8	5,9
Zwartkop	7	9	7	6	4,4
Sprinkhaanzanger	7	5	4	7	5,2
Spotvogel	1	1	3	4	3,0
Bosrietzanger	0	1	0	0	0,0
Kleine Karekiet	4	6	8	7	5,2
Rietzanger	48	32	39	45	33,3
Boomkruiper	1	2	0	1	0,7
Winterkoning	11	13	14	11	8,1
Merel	3	4	3	3	2,2
Zanglijster	2	3	3	3	2,2
Grauwe Vliegenvanger	1	0	1	1	0,7
Nachtegaal	2	0	0	1	0,7
Roodborst	0	0	3	0	0,0
Blauwborst	8	6	12	9	6,7
Gekraagde Roodstaart	0	0	1	0	0,0
Roodborsttapuit	5	2	1	0	0,0
Heggenmus	2	1	3	6	4,4
Gele Kwikstaart	0	2	0	0	0,0
Graspieper	29	39	38	46	34,0
Vink	2	2	3	2	1,5
Putter	0	0	0	1	0,7
Kneu	3	4	4	4	3,0
Goudvink	0	0	1	0	0,0
Rietgors	26	23	21	28	20,7
totaal	345	364	398	427	

Bijlage 12. Regressiemodellen broedvogels

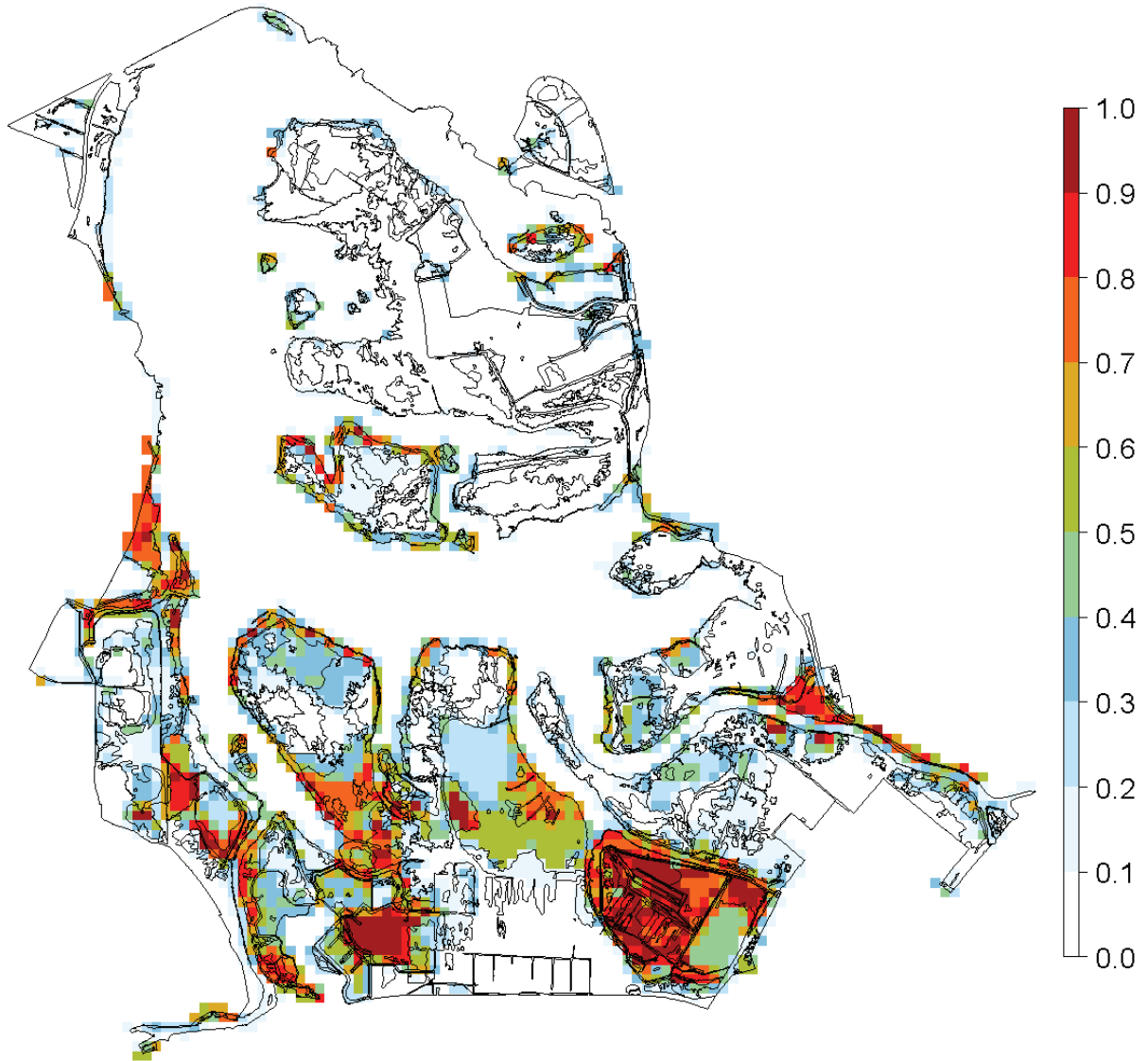
Voor elke soort, beschreven in § 7.5, is een door *random forest* gemodelleerde kaart gemaakt die de ligging van geschikt habitat laat zien op basis van de associatie van waarnemingen met vegetatiestructuurtypes (Kleefstra *et al.* 2016), een grafiek met het relatieve belang van de verklarende variabelen en een *partial dependence plot* voor de belangrijkste verklarende variabelen.

Kievit



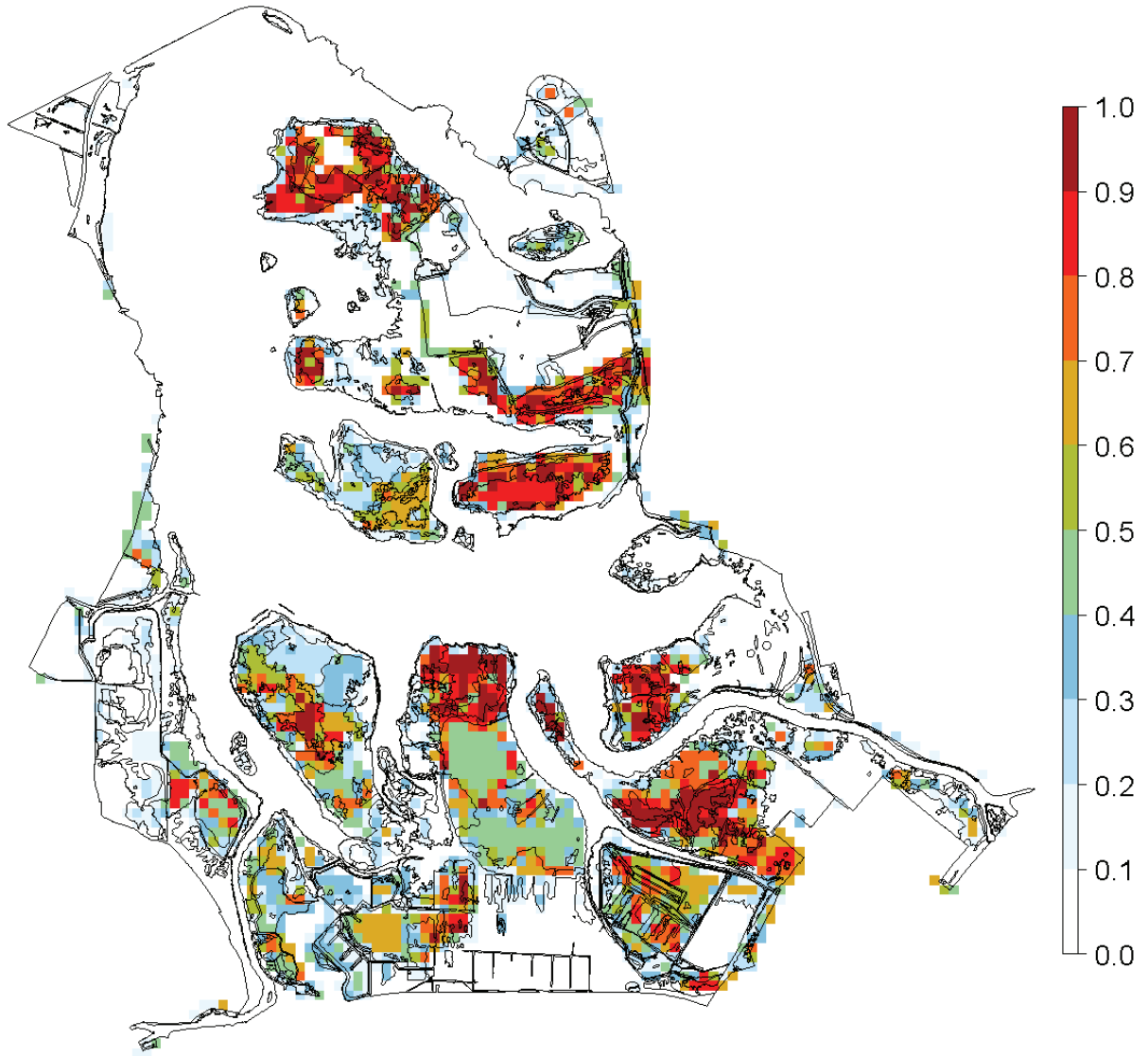
model predictions

Bardman



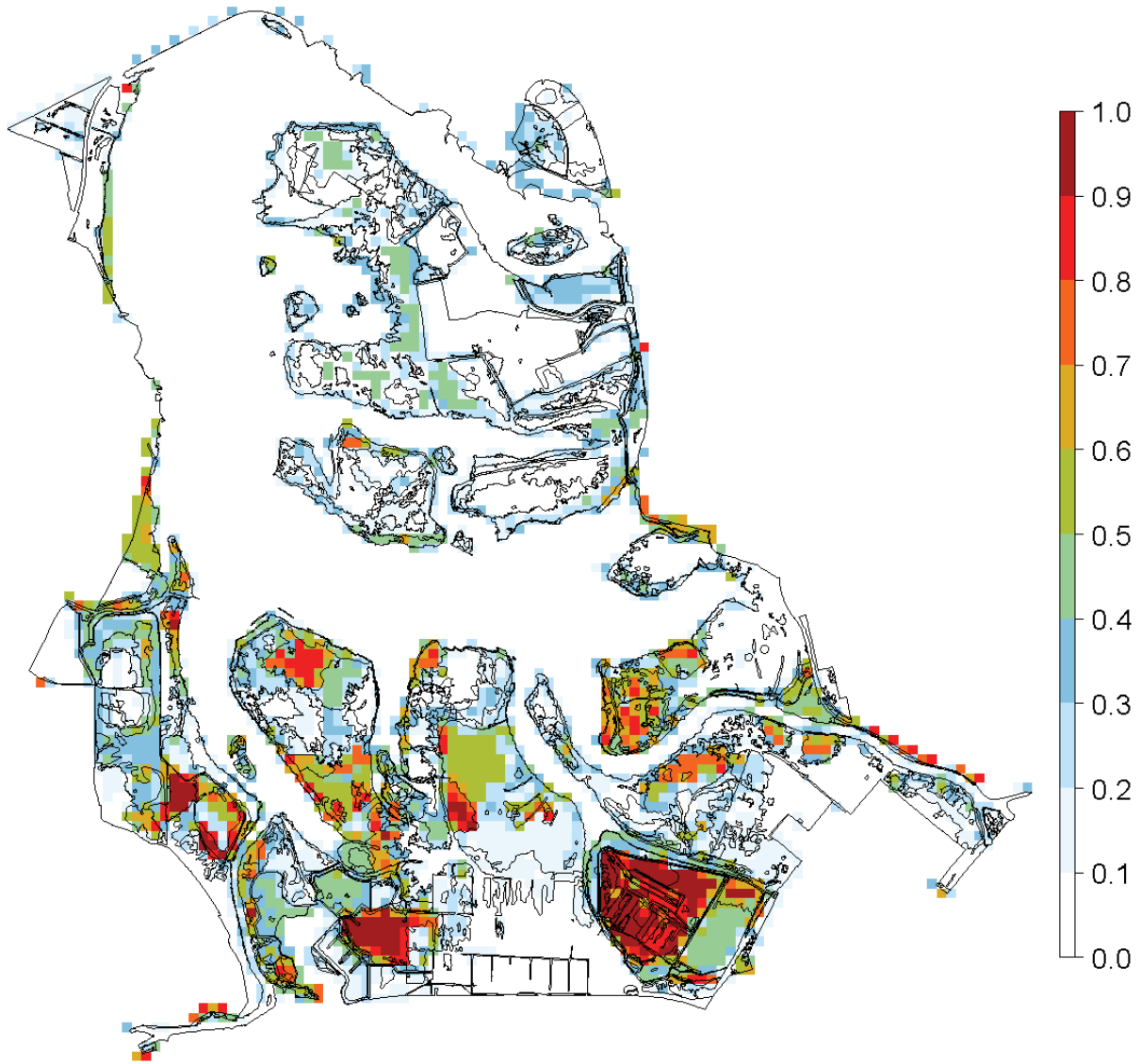
model predictions

Fitis



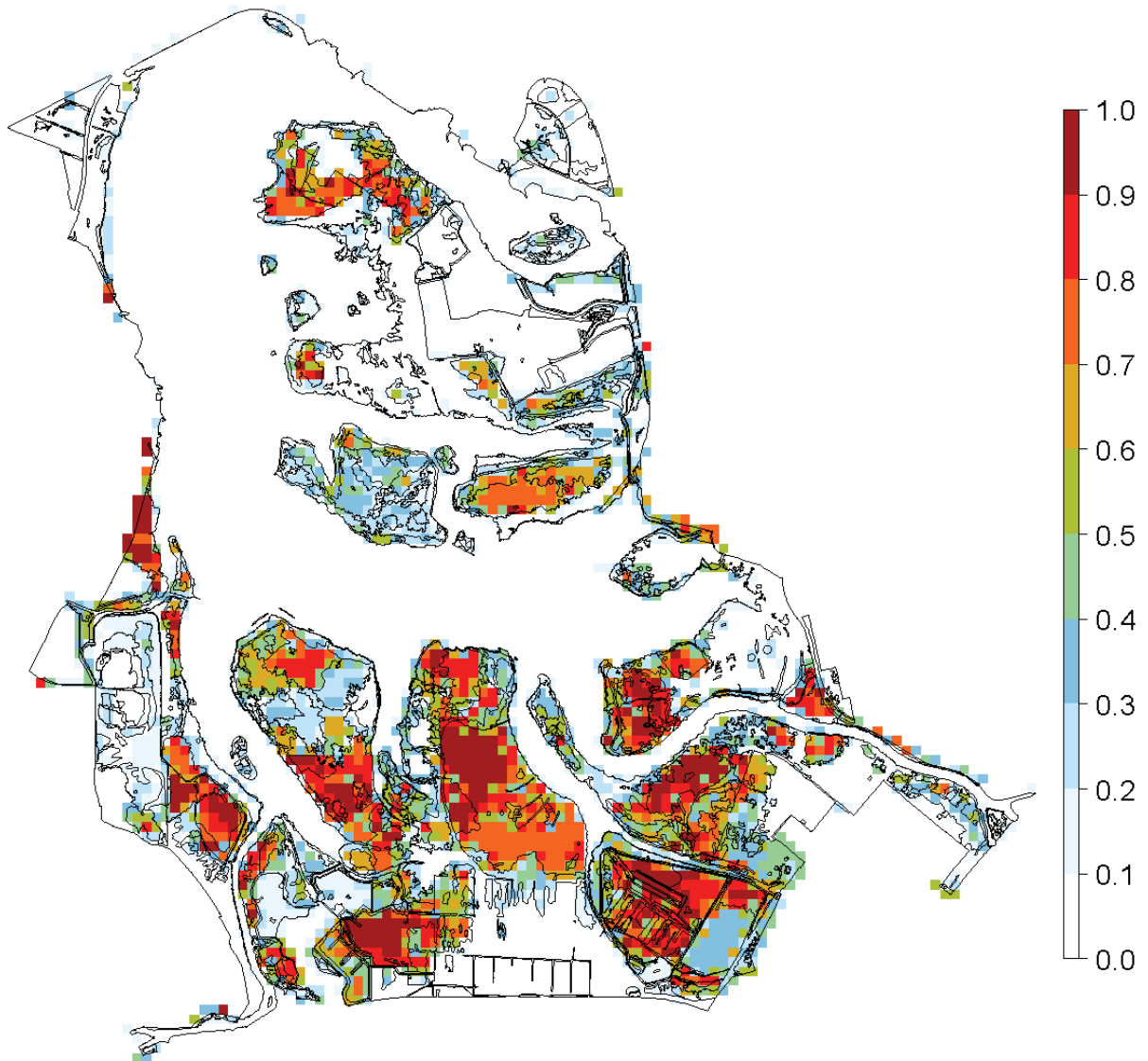
model predictions

Kleine Karekiet



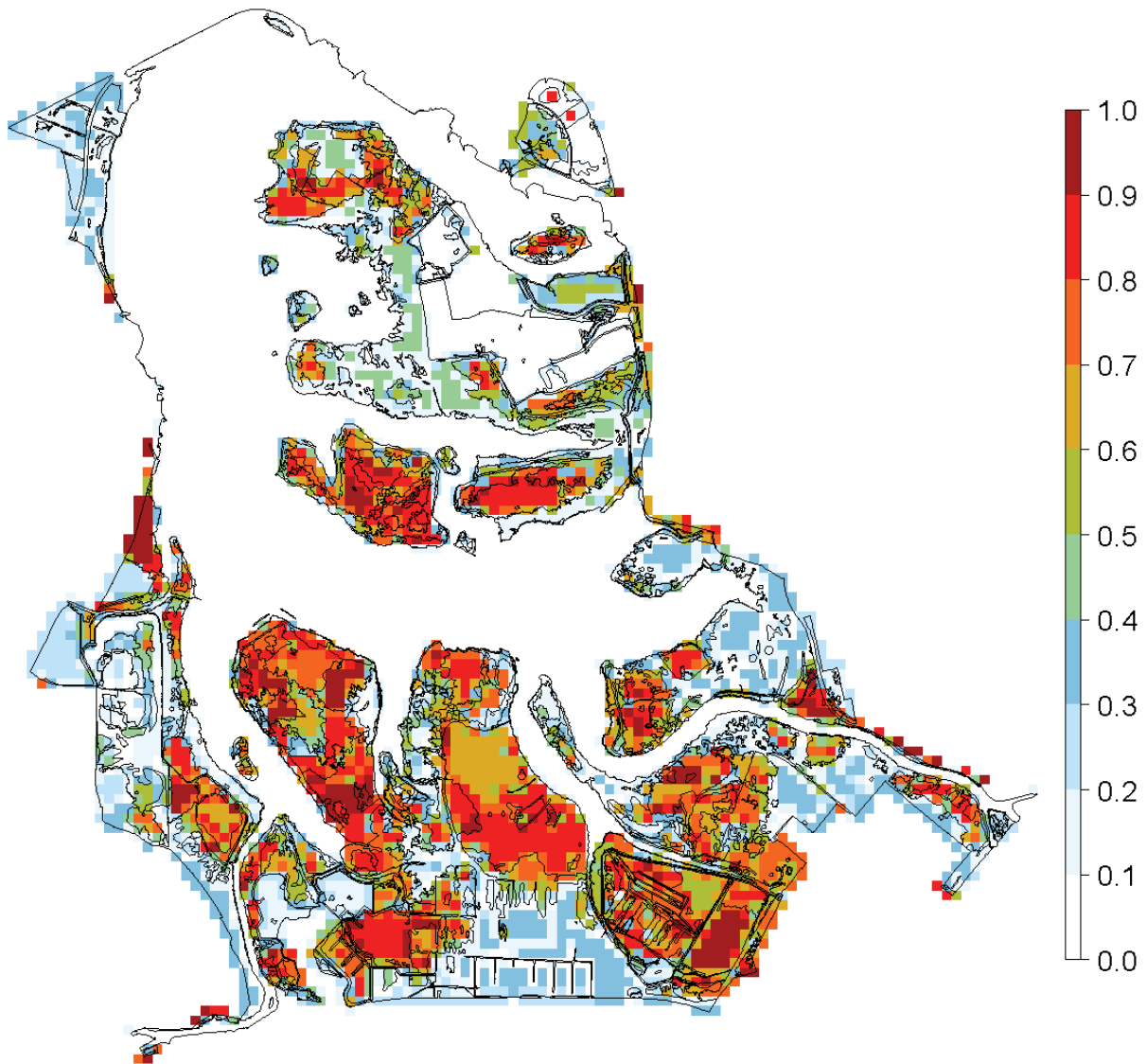
model predictions

Rietzanger



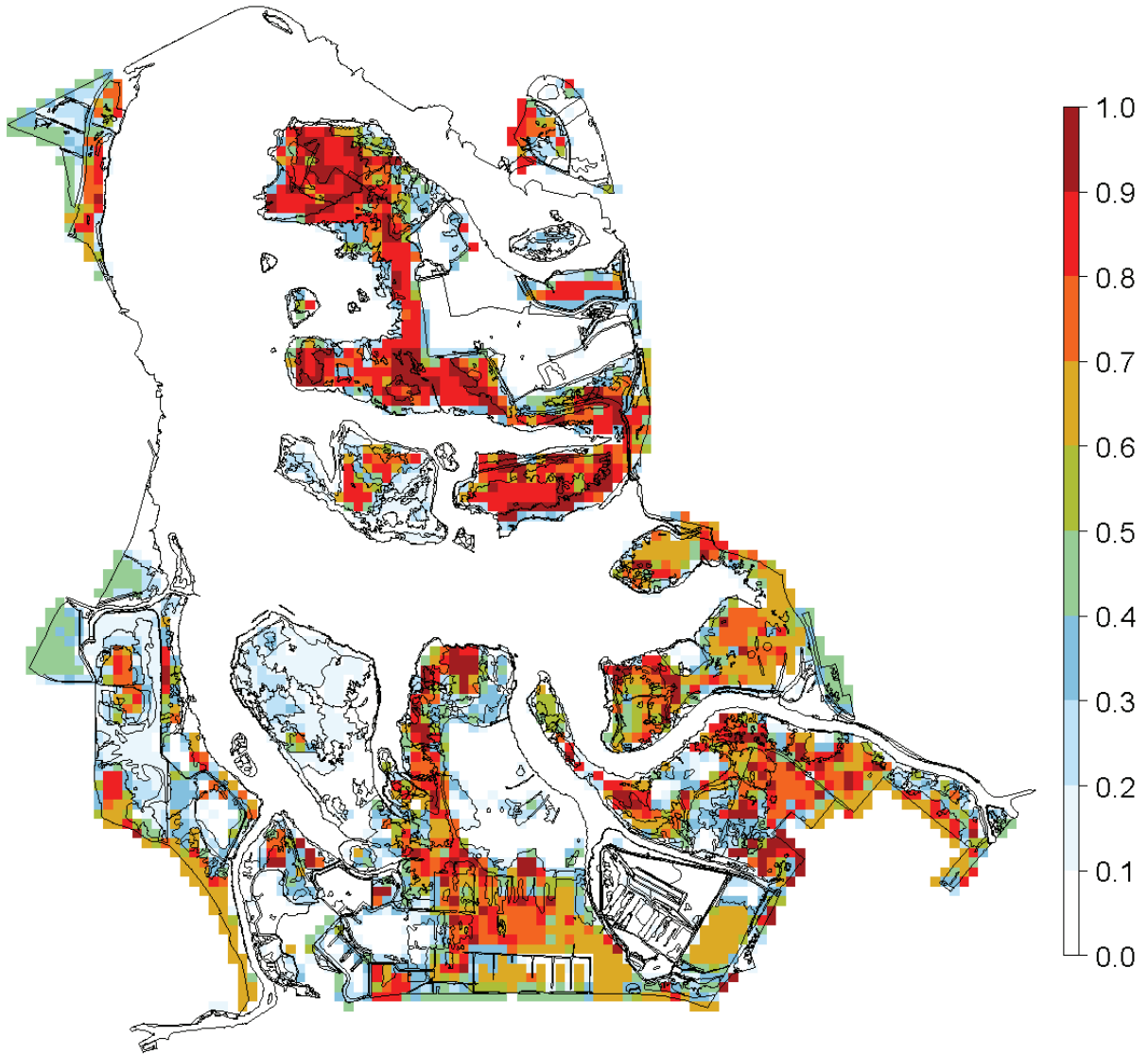
model predictions

Blauwborst



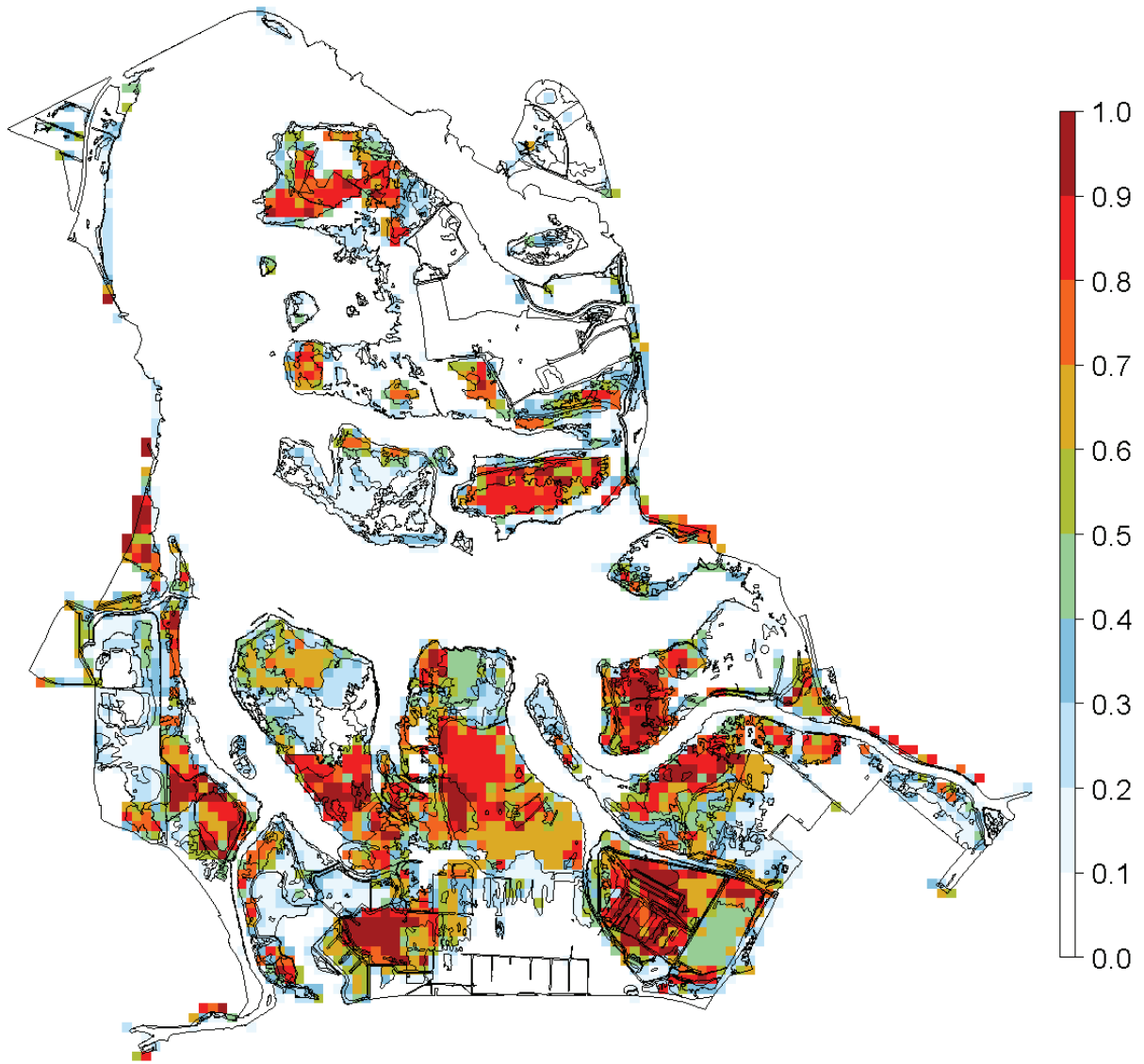
model predictions

Graspieper



model predictions

Rietgors



model predictions

Bijlage 13. Regressiebomen-analyse watervogels en slaapplaatsen

Een geschikte functie voor de evaluatie van een regressieboom maximaliseert de nauwkeurigheid van het model gemeten aan de training-gegevens en minimaliseert de complexiteit van het model. De functie kan op deze manier worden opgeschreven

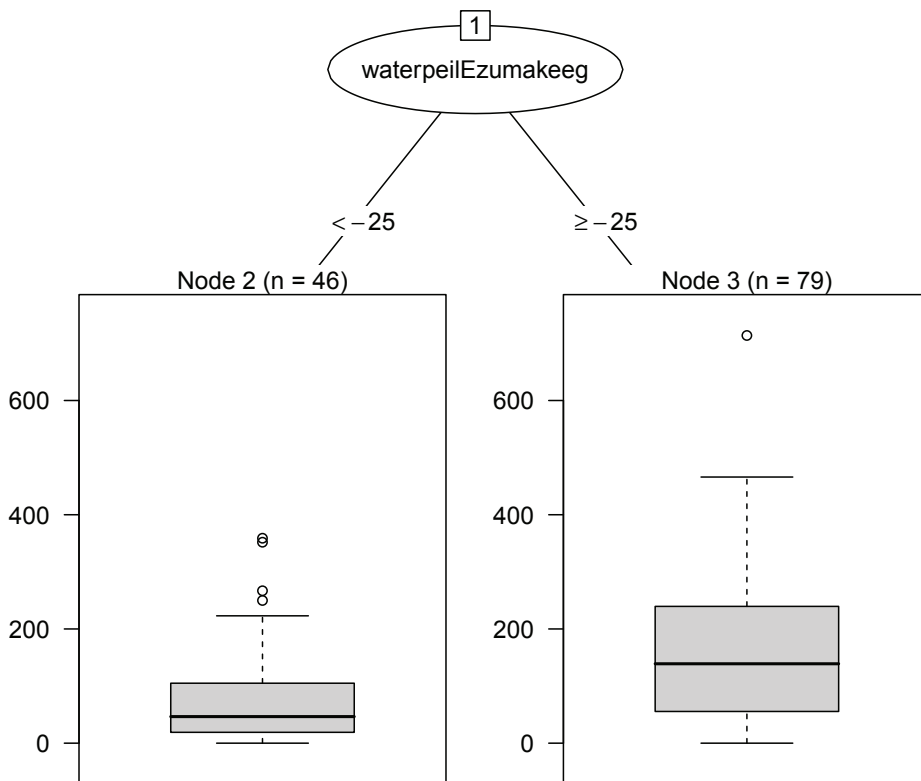
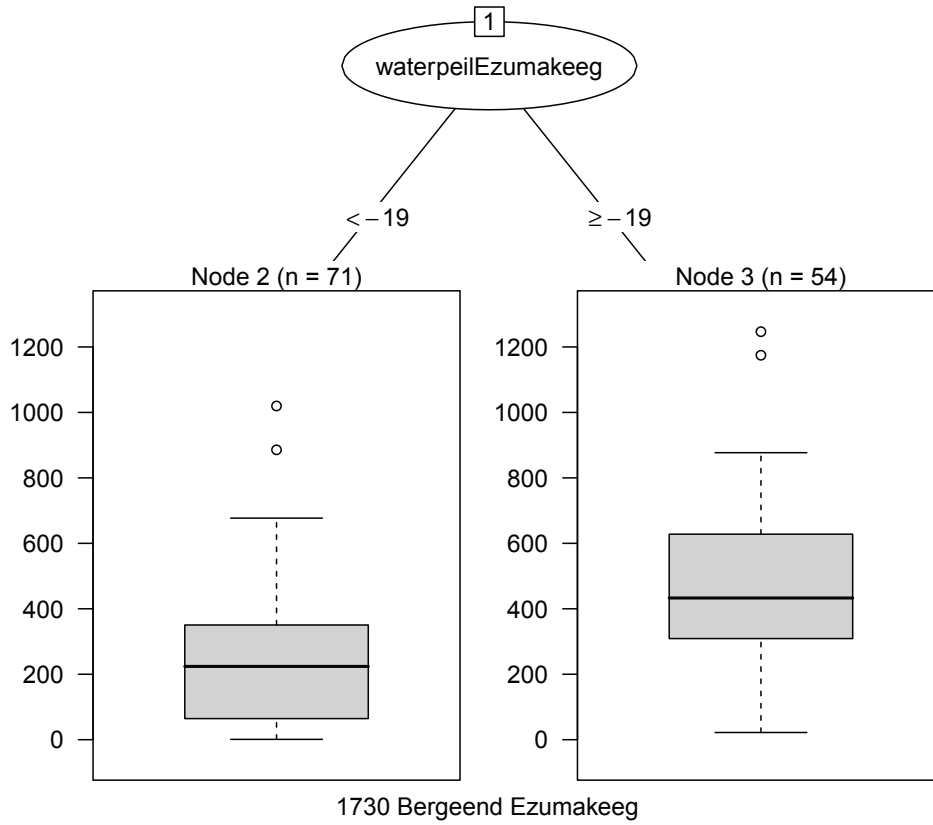
$$\begin{aligned} \text{loss}(Y, f(X, \theta)) &= N \log \text{MSE}(Y, f(X, \theta)) \\ &= N \log \left\{ \sum_{n=1}^N (Y_n - f(X_{.n}, \theta))^2 \right\}, \\ \text{comp}(\theta) &= \alpha \cdot 4 \cdot (M + 1) \cdot \log N. \end{aligned}$$

met

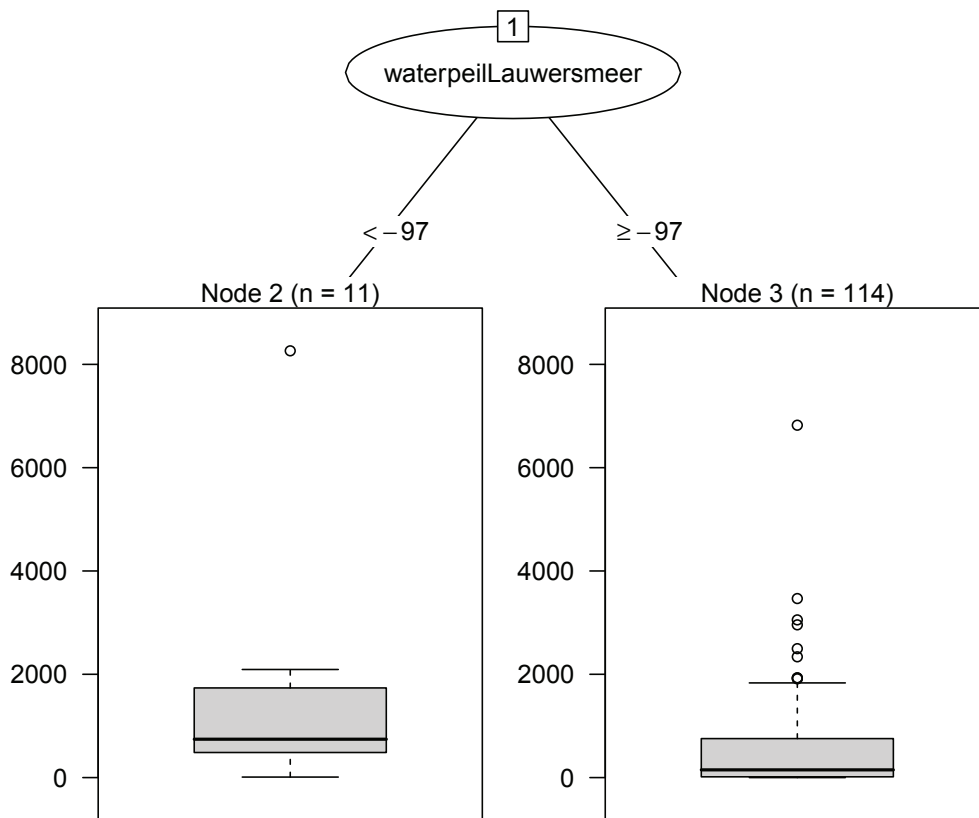
- Y, antwoordvariabele
- X, verklarende variabelen
- Θ , structuur van de regressieboom
- N, aantal waarnemingen
- MSE, gemiddelde kwadratische afwijking
- Y_n , waarde van antwoordvariabele van de n-de waarneming
- $X_{.n}$, waarden van de verklarende variabelen van de n-de waarneming
- α , gebruiker-specifiek parameter (default = 1)
- M, aantal van terminale knopen in de boom

Bijlage 13a. Regressiebomen watervogels met alleen waterpeilen als verklarende variabelen

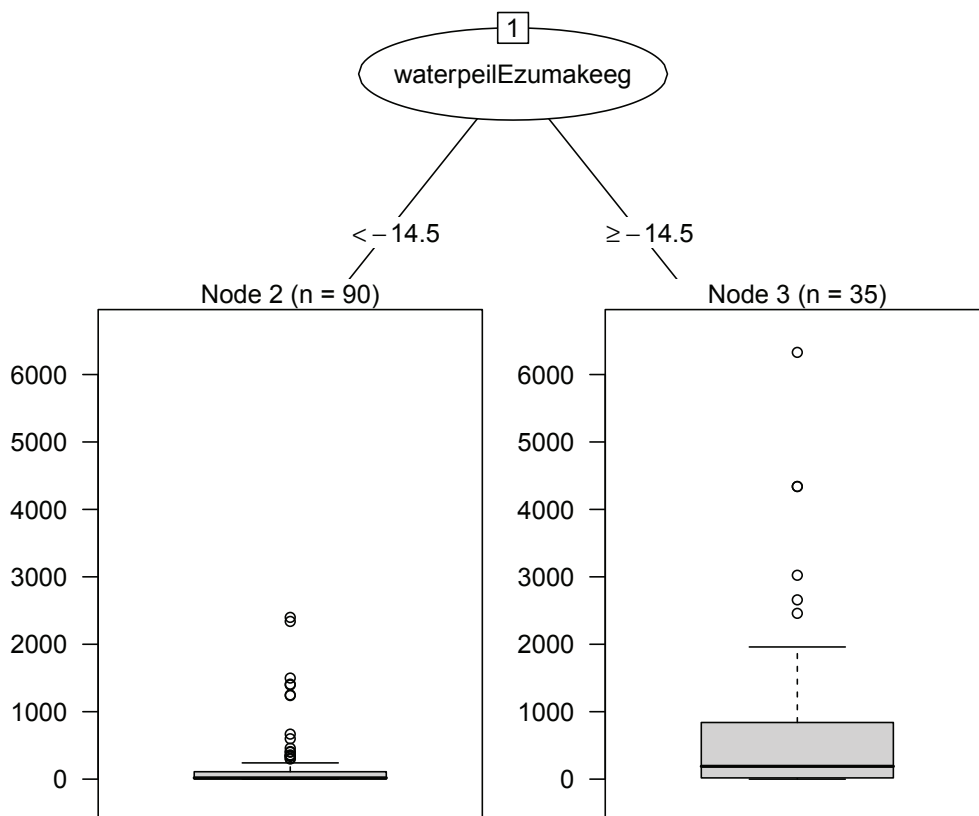
1730 Bergeend Lauwersmeer



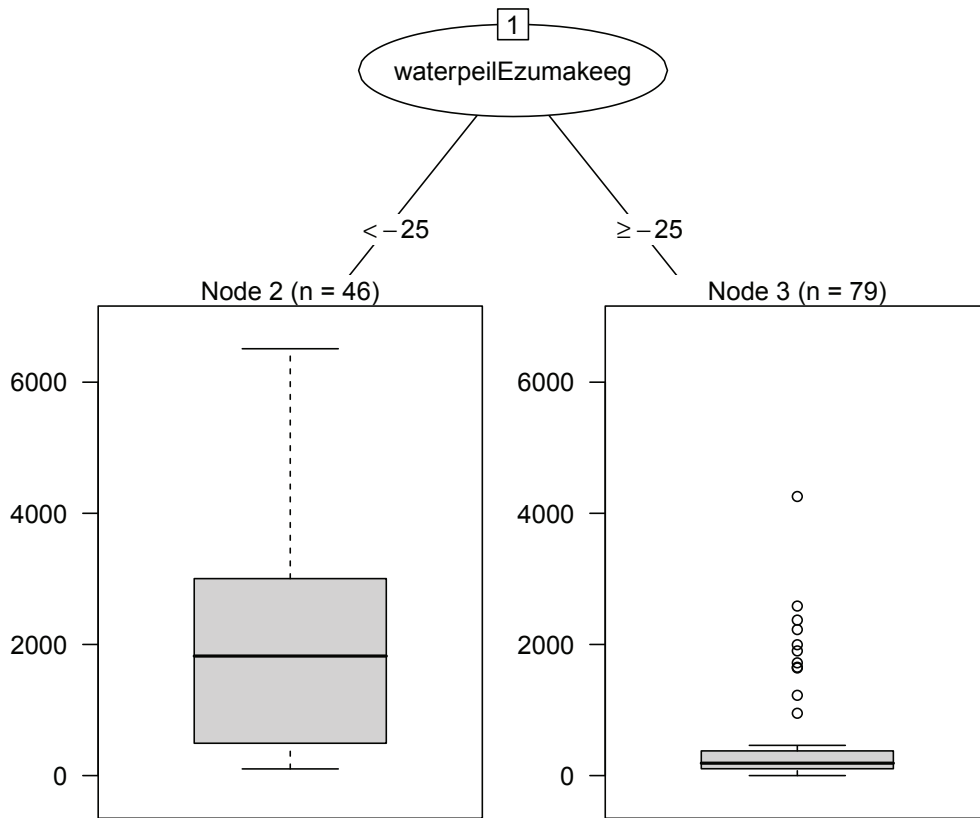
1790 Smient Lauwersmeer



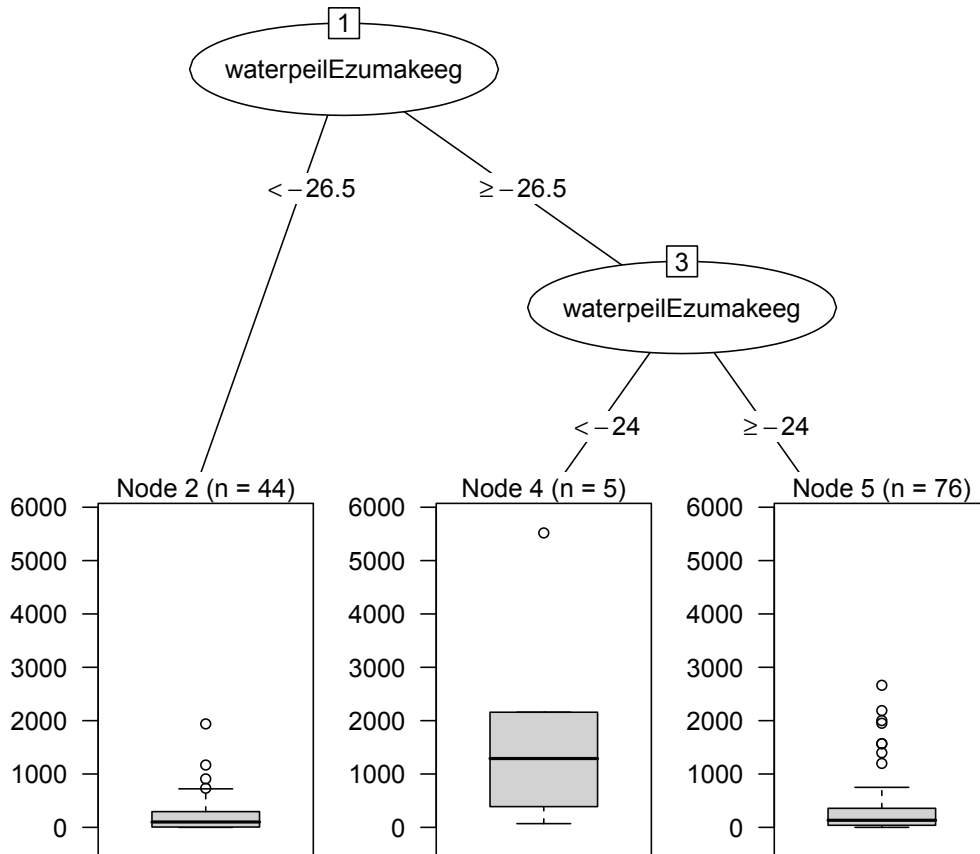
1790 Smient Ezumakeeg



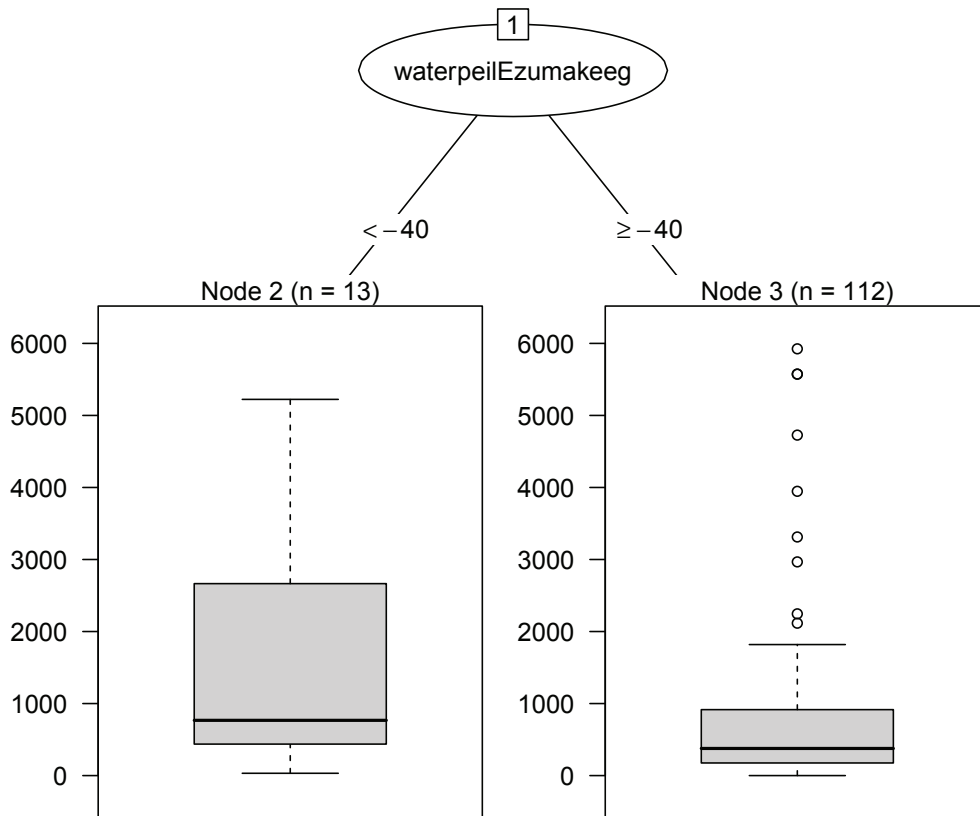
1820 Krakeend Lauwersmeer



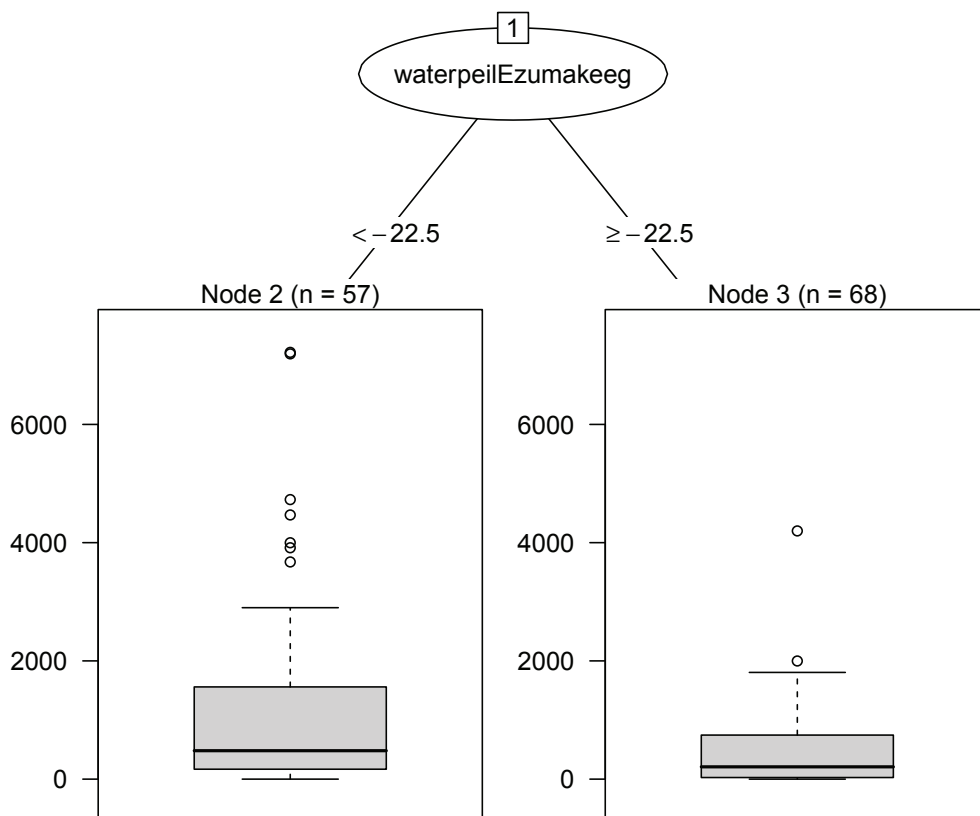
1820 Krakeend Ezumakeeg



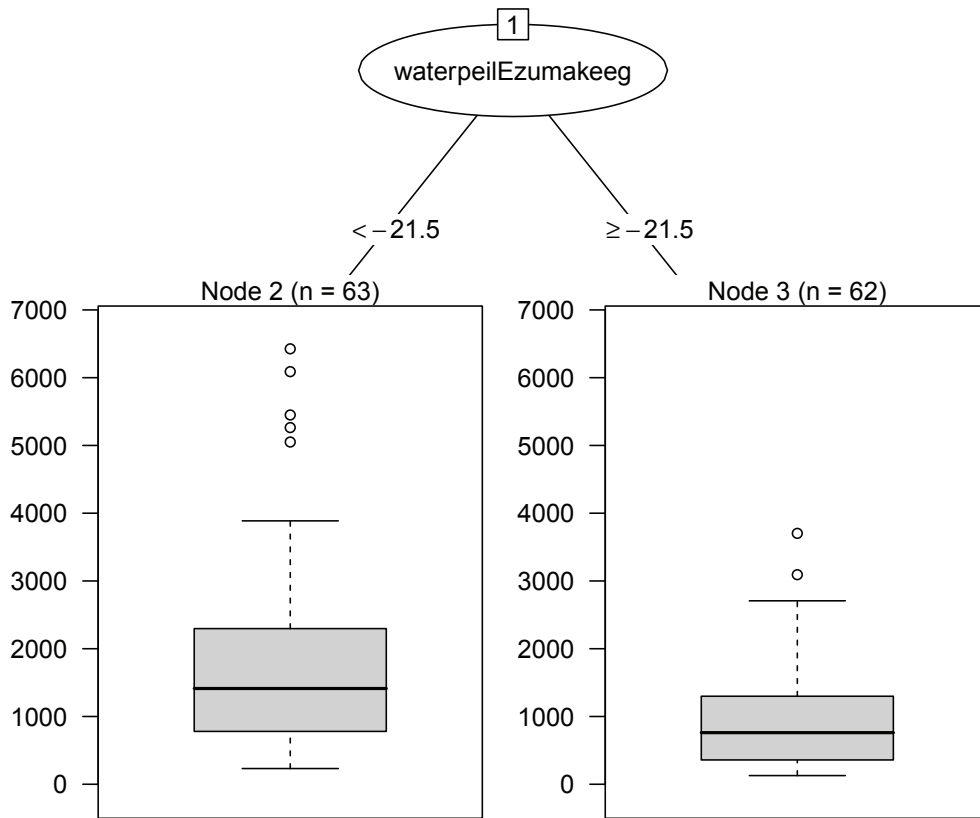
1840 Wintertaling Lauwersmeer



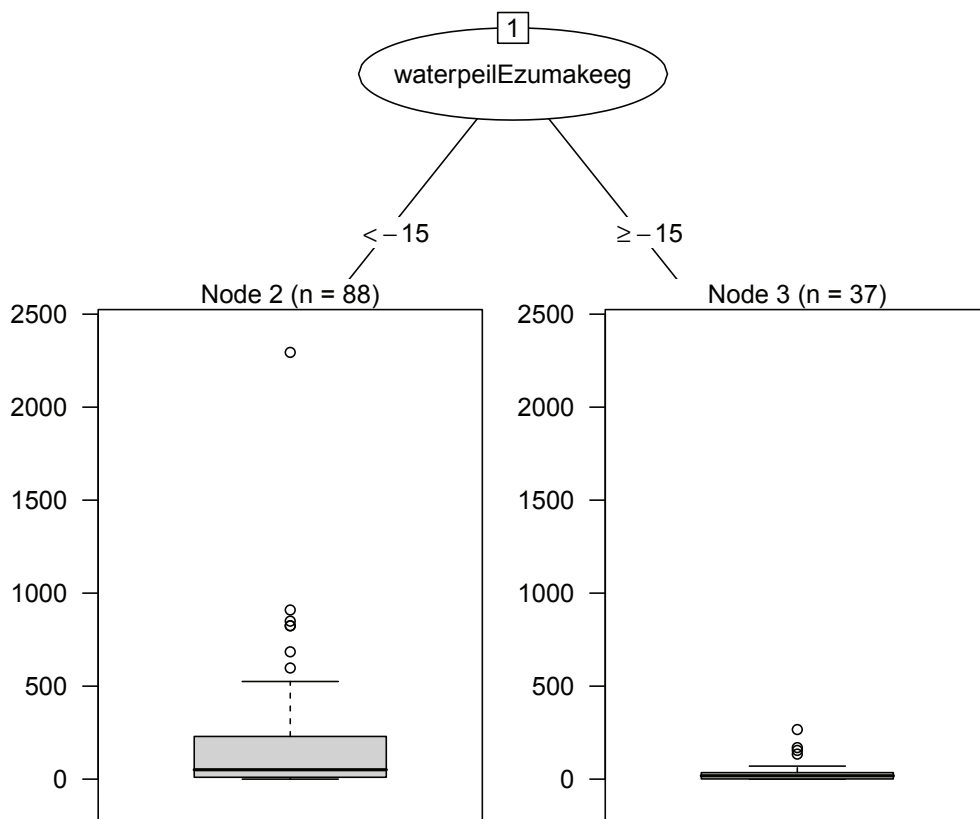
1840 Wintertaling Ezumakeeg



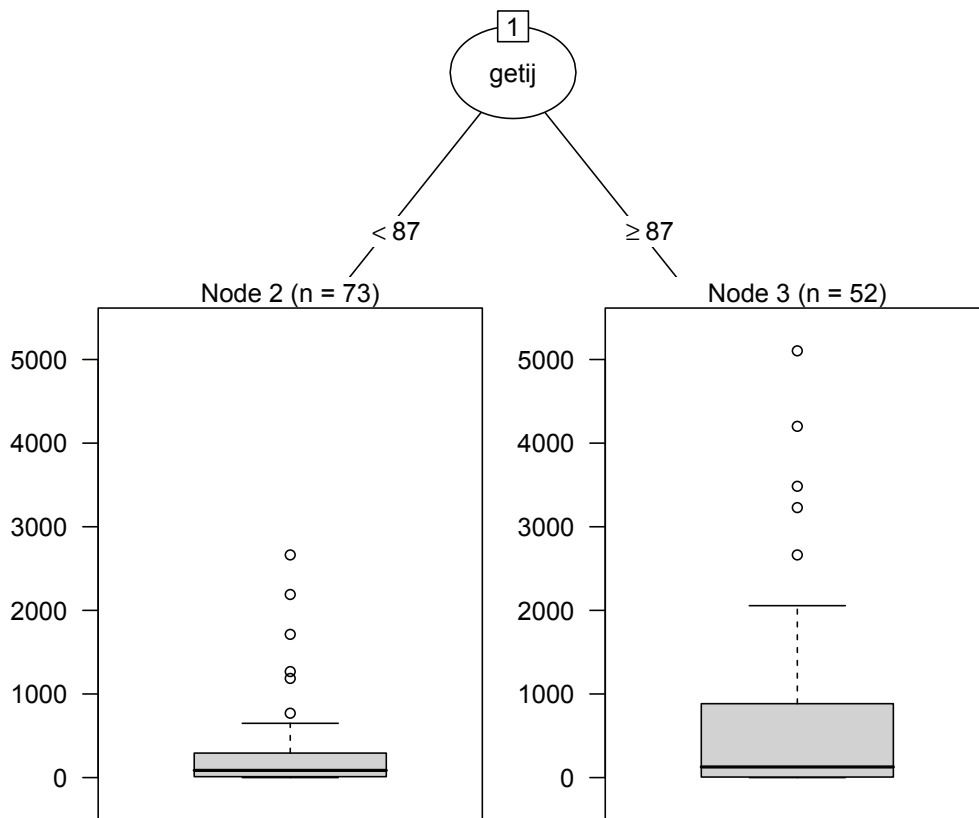
1860 Wilde Eend Lauwersmeer



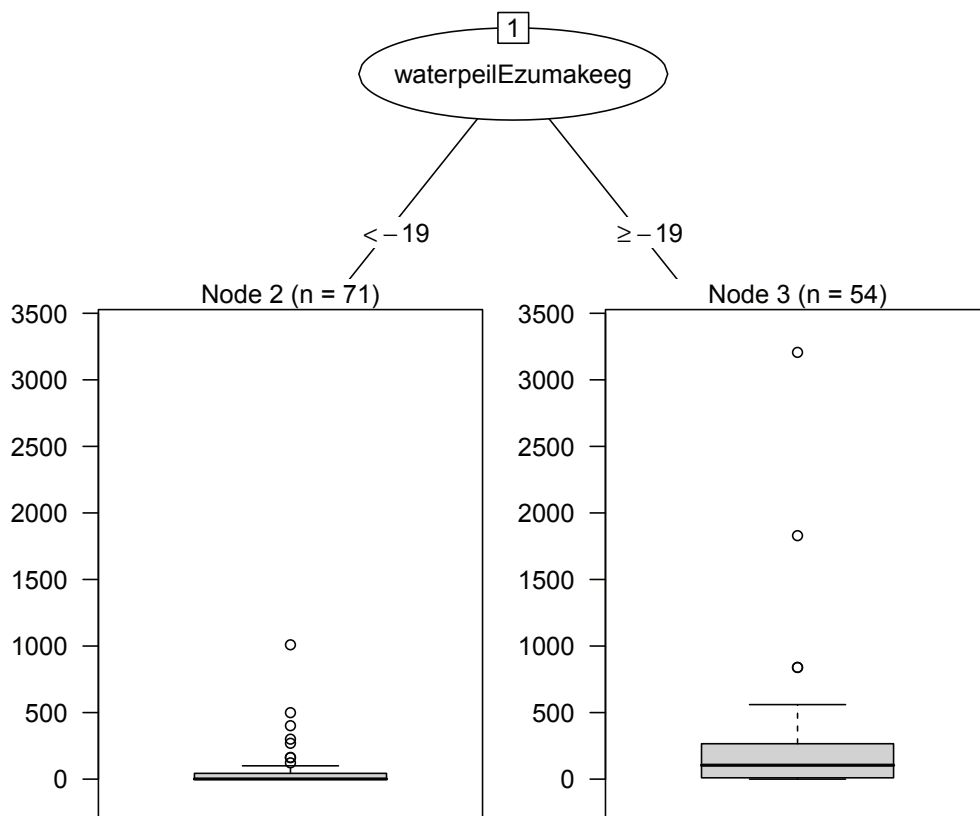
1860 Wilde Eend Ezumakeeg



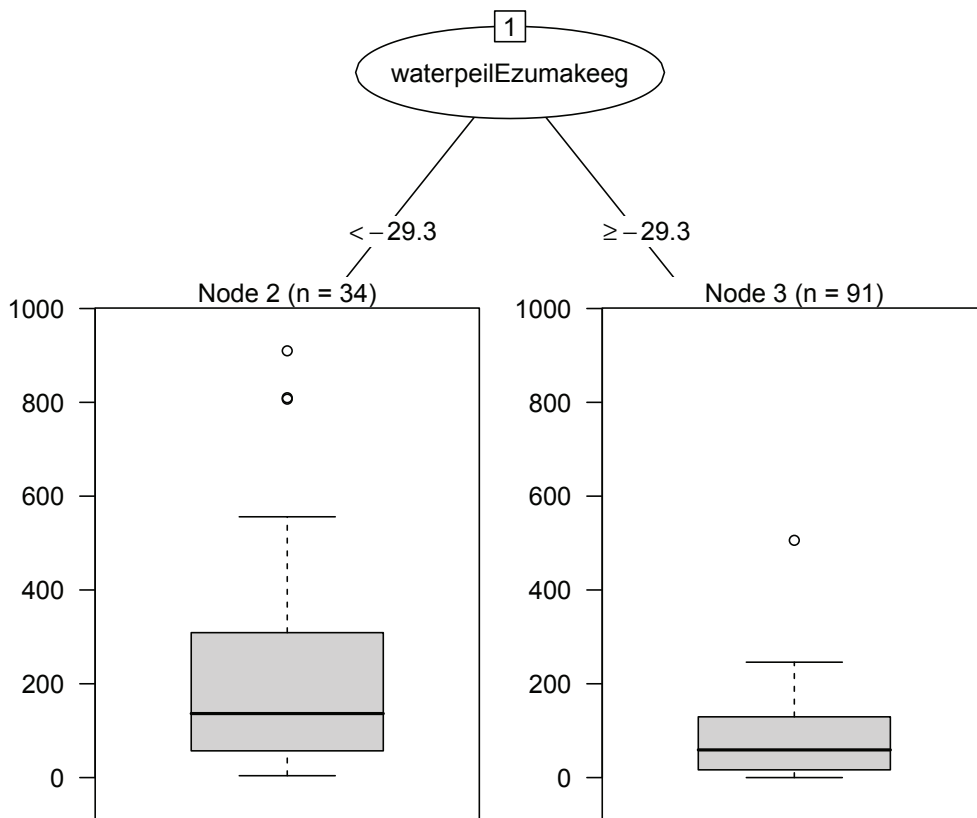
1890 Pijlstaart Lauwersmeer



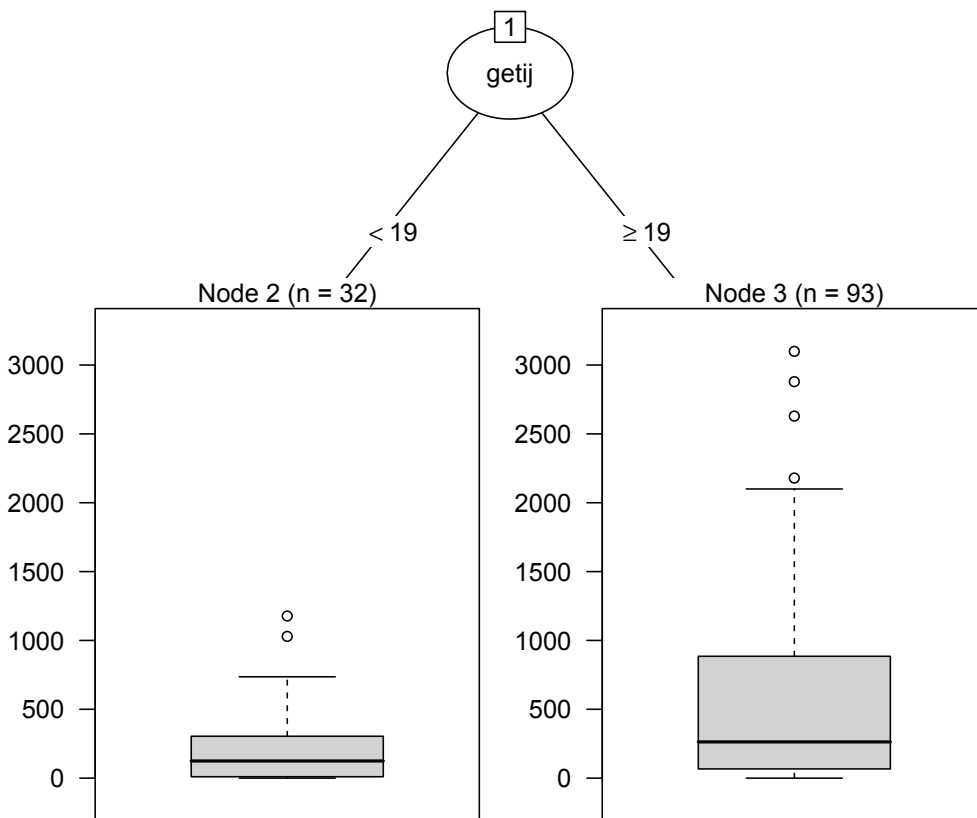
1890 Pijlstaart Ezumakeeg



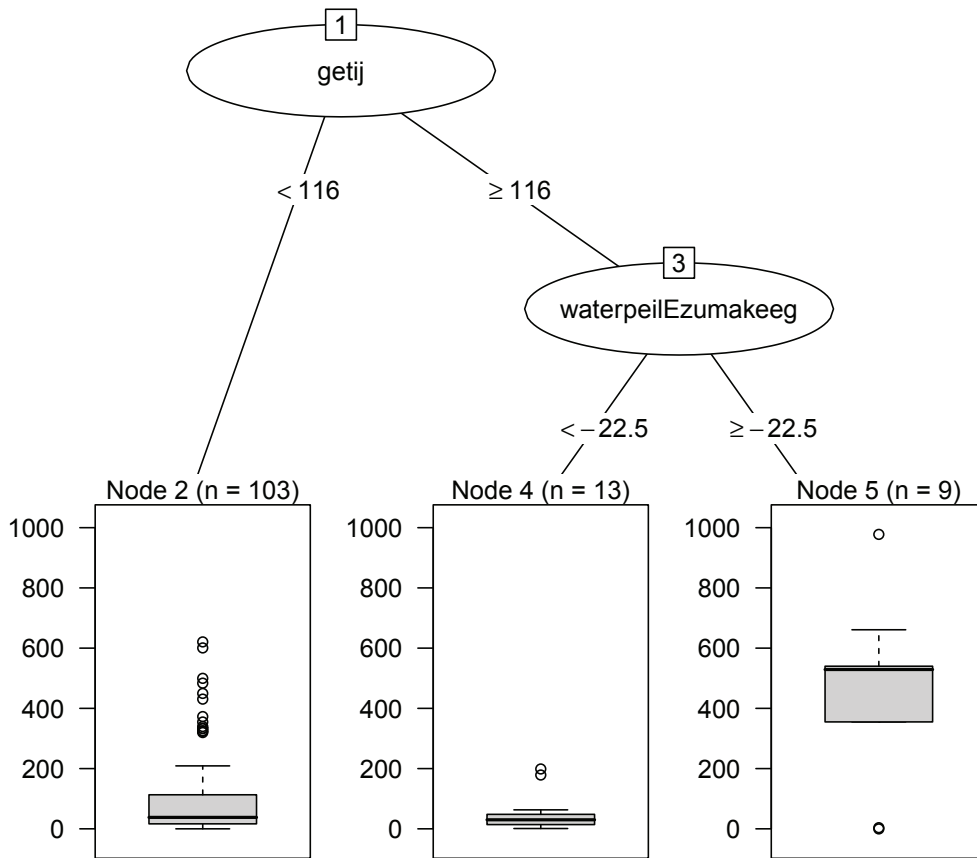
1940 Slobeend Lauwersmeer



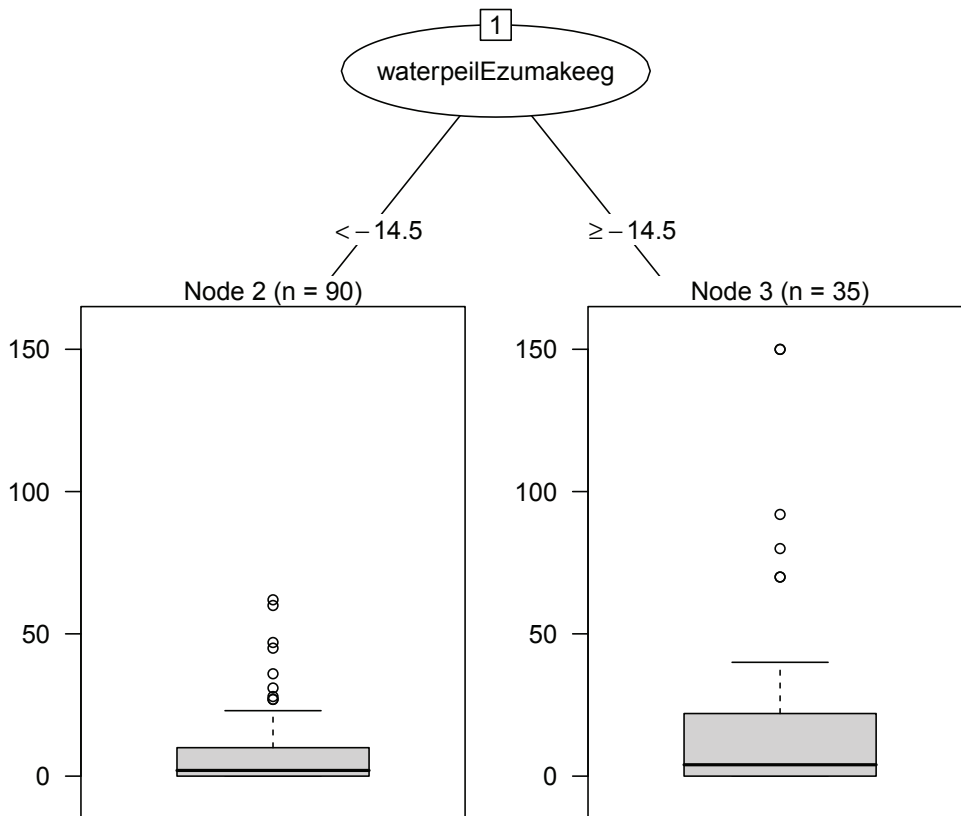
1940 Slobeend Ezumakeeg



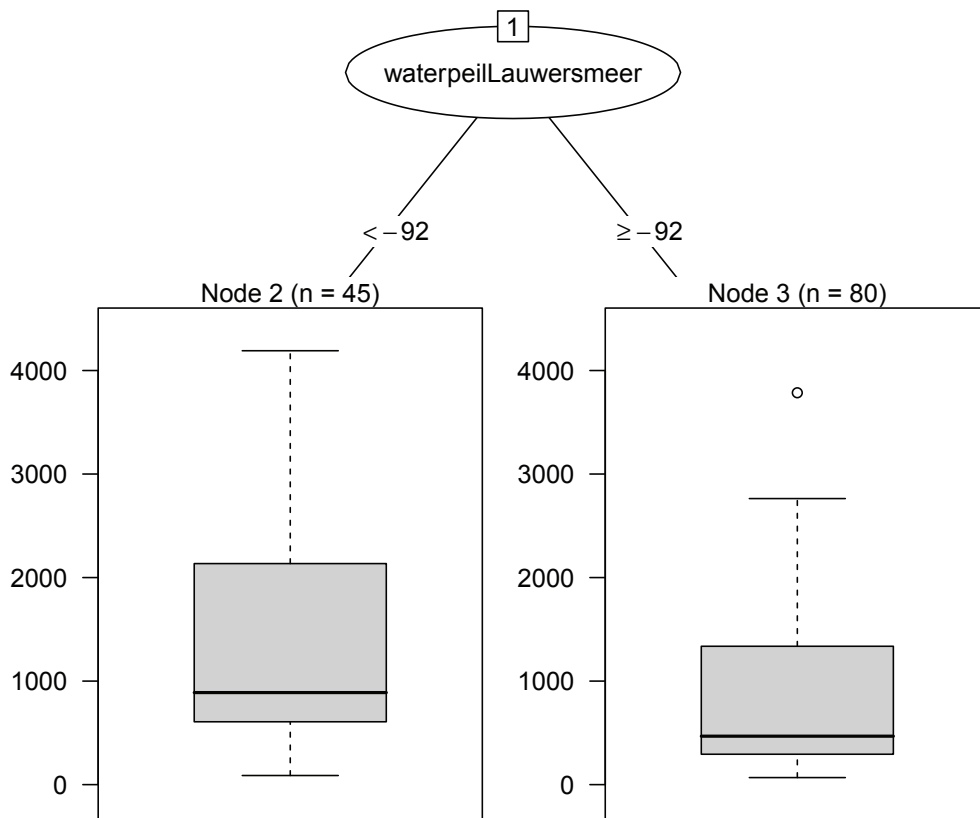
1980 Tafeleend Lauwersmeer



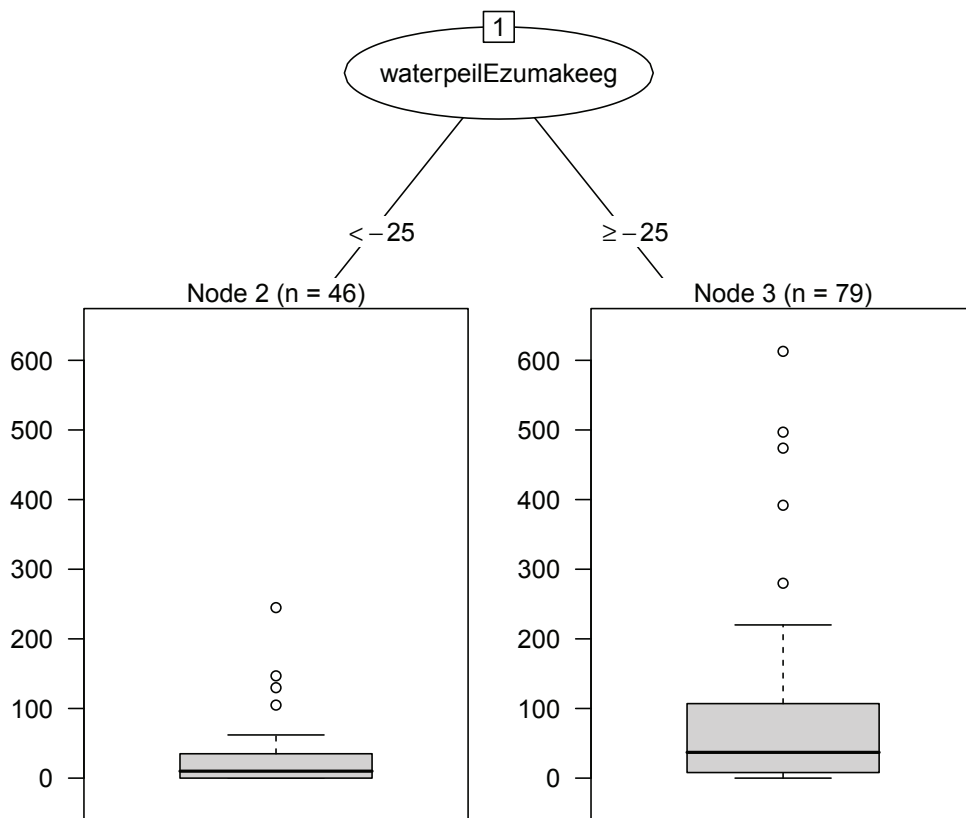
1980 Tafeleend Ezumakeeg



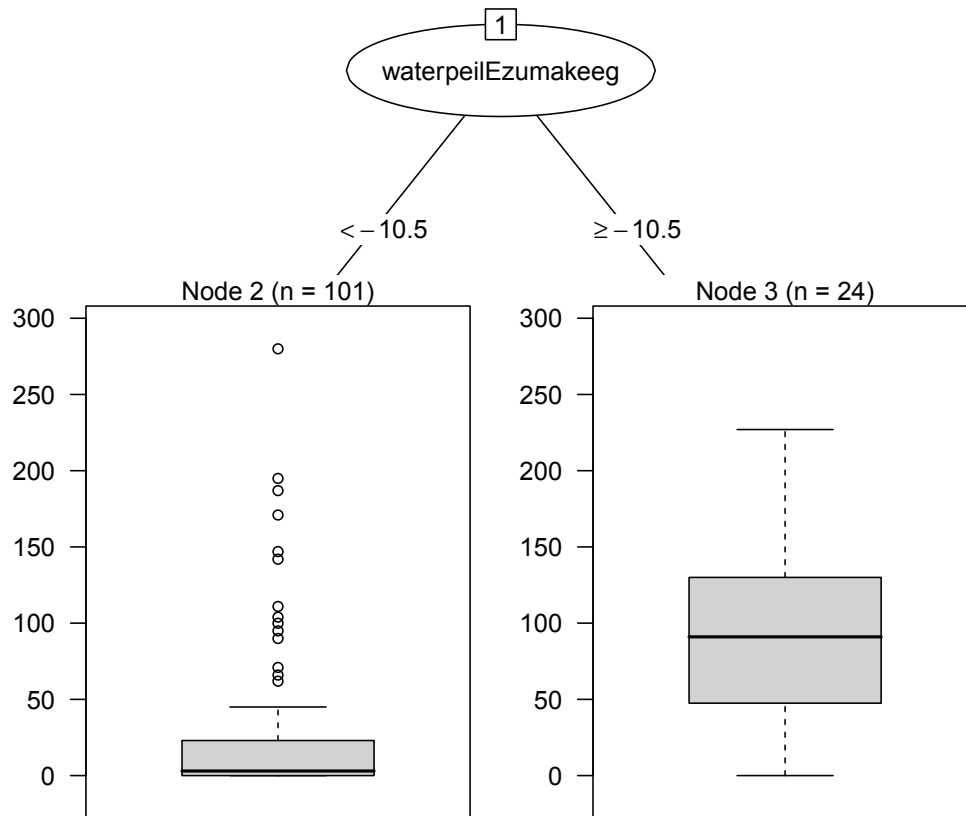
2030 Kuifeend Lauwersmeer



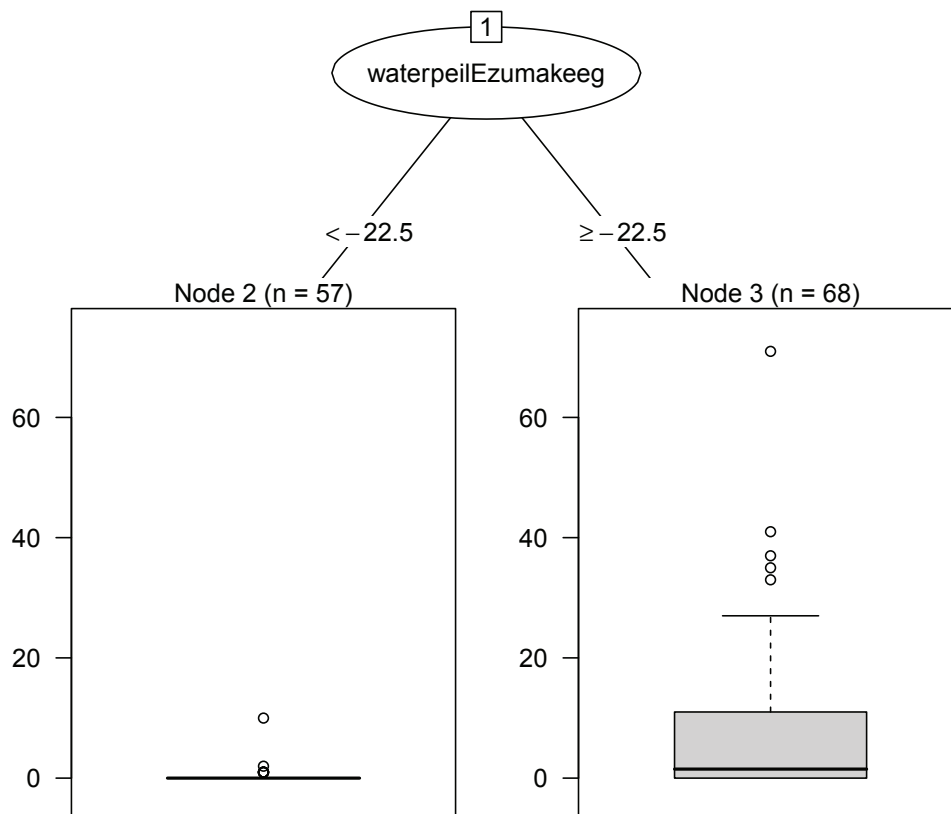
2030 Kuifeend Ezumakeeg



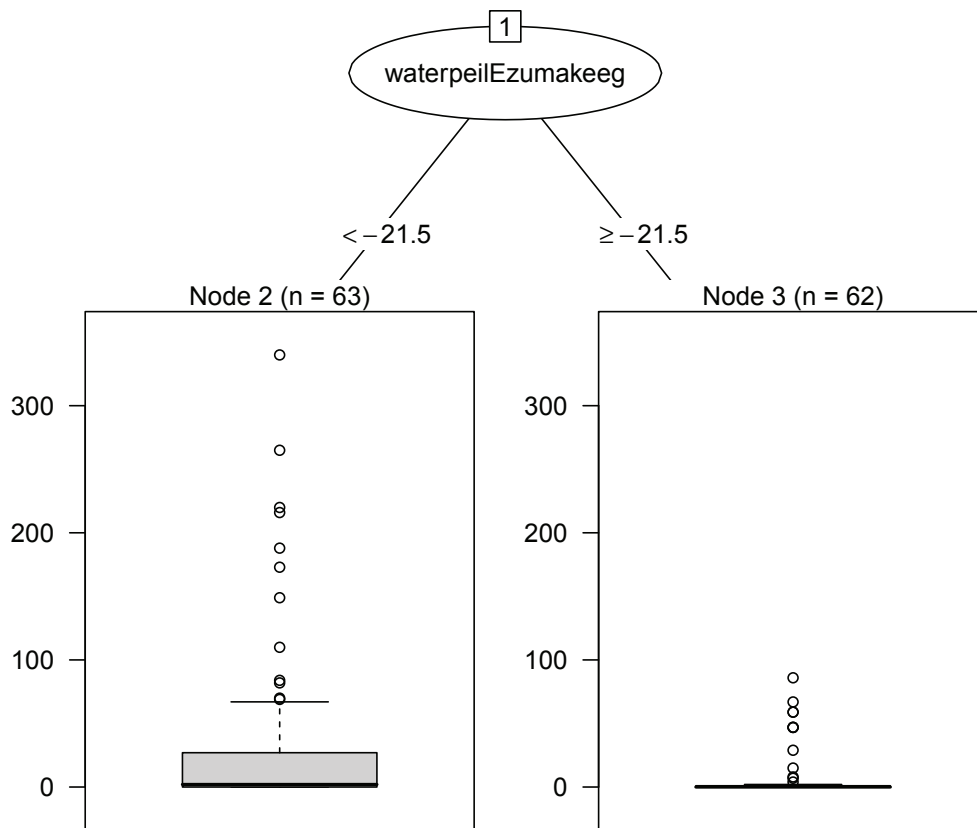
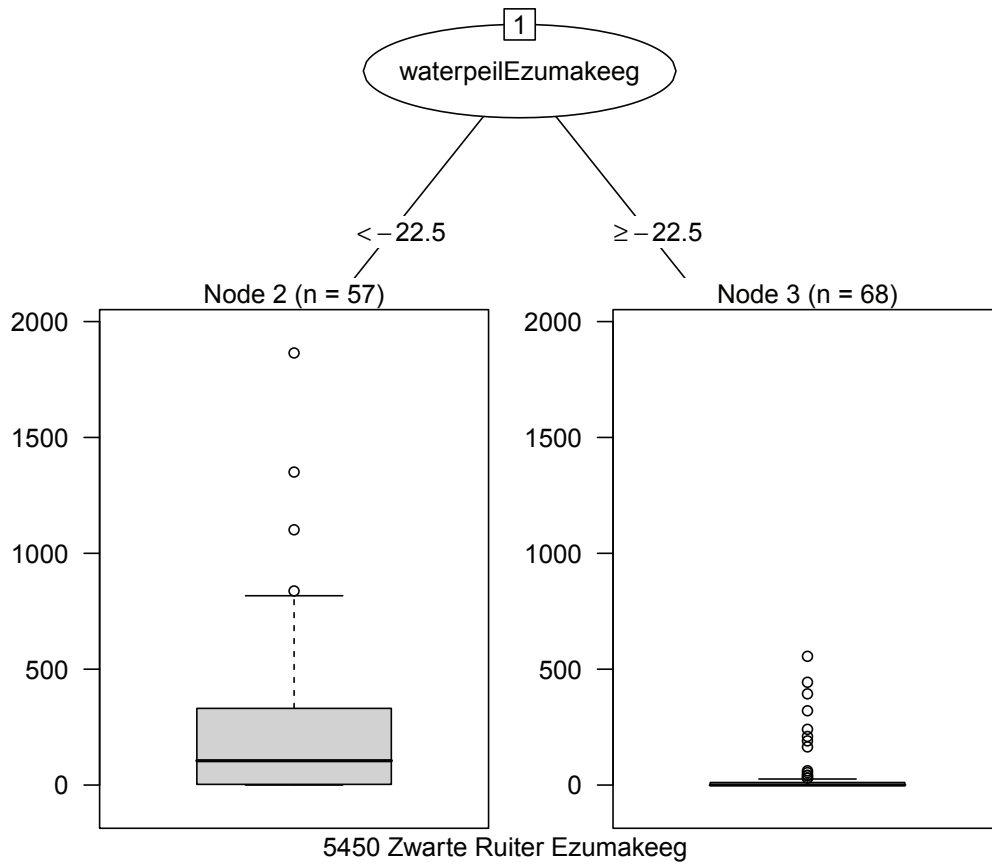
2180 Brilduiker Lauwersmeer



2180 Brilduiker Ezumakeeg

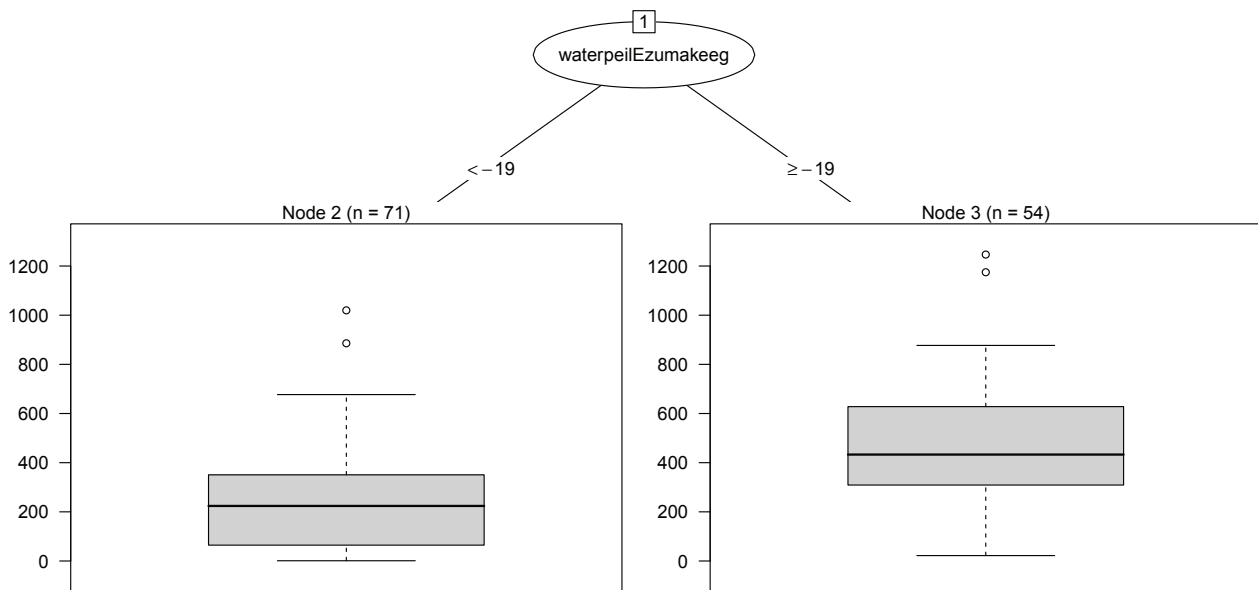


5450 Zwarte Ruiter Lauwersmeer

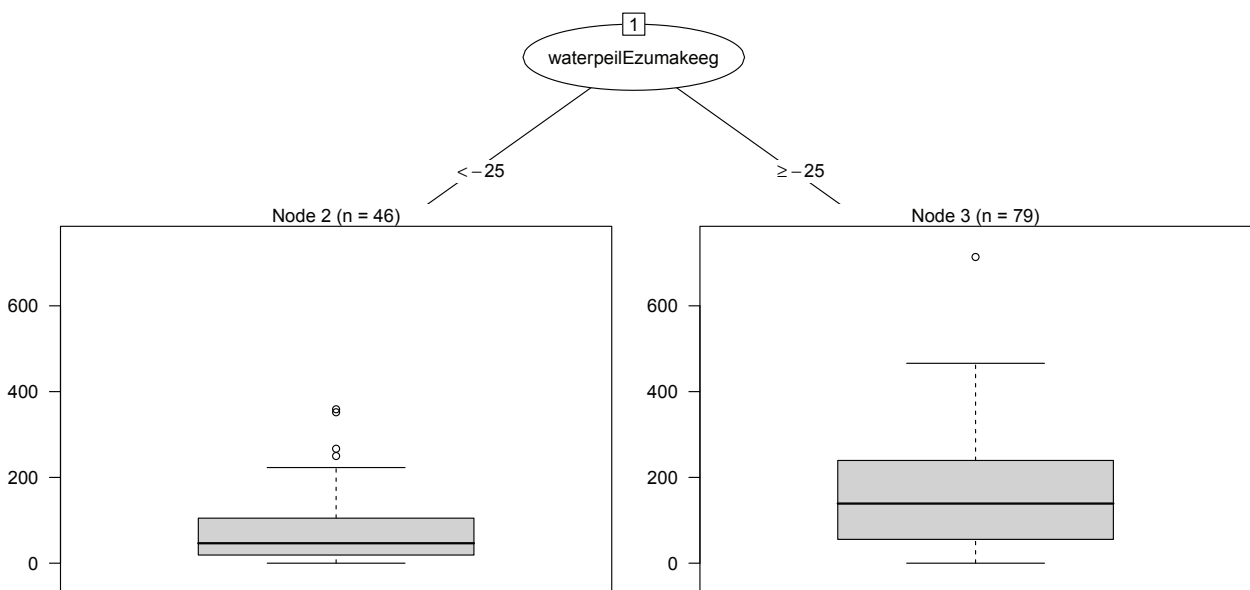


Bijlage 13b. Regressiebomen watervogels met naast waterpeilen ook seizoen en jaar als verklarende variabelen

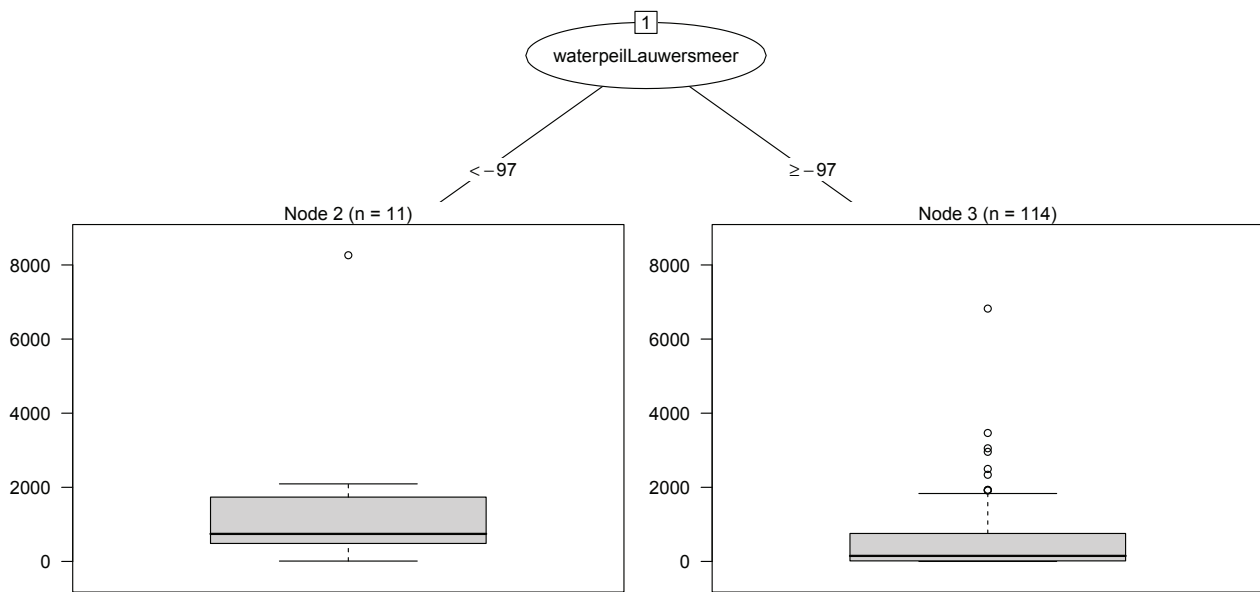
1730 Bergeend Lauwersmeer



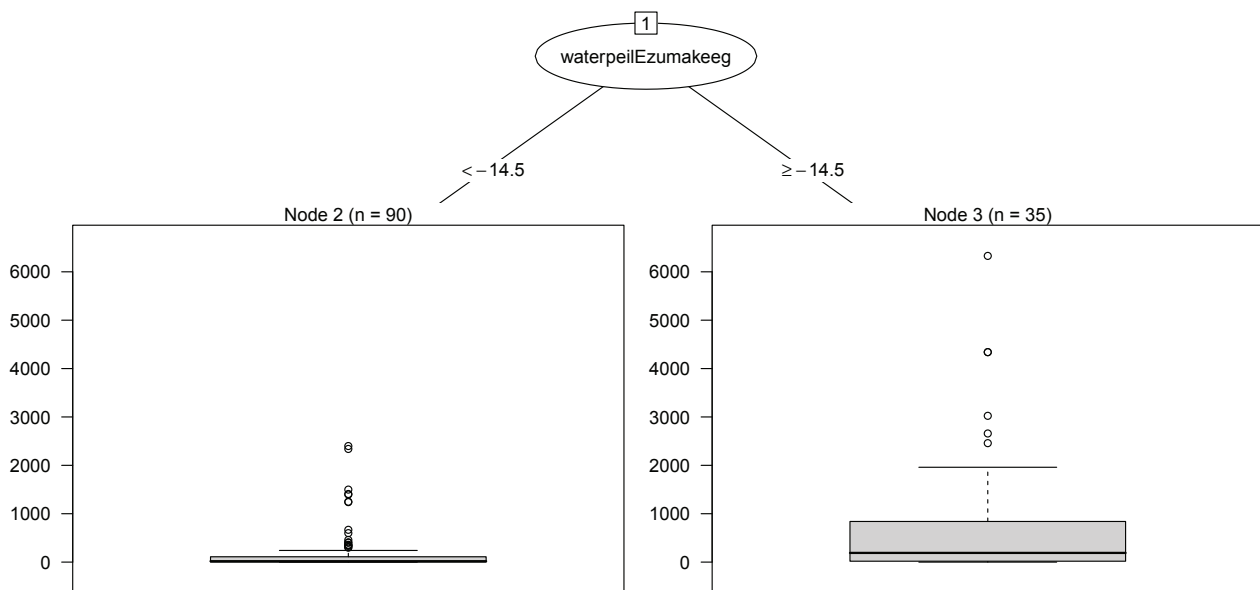
1730 Bergeend Ezumakeeg



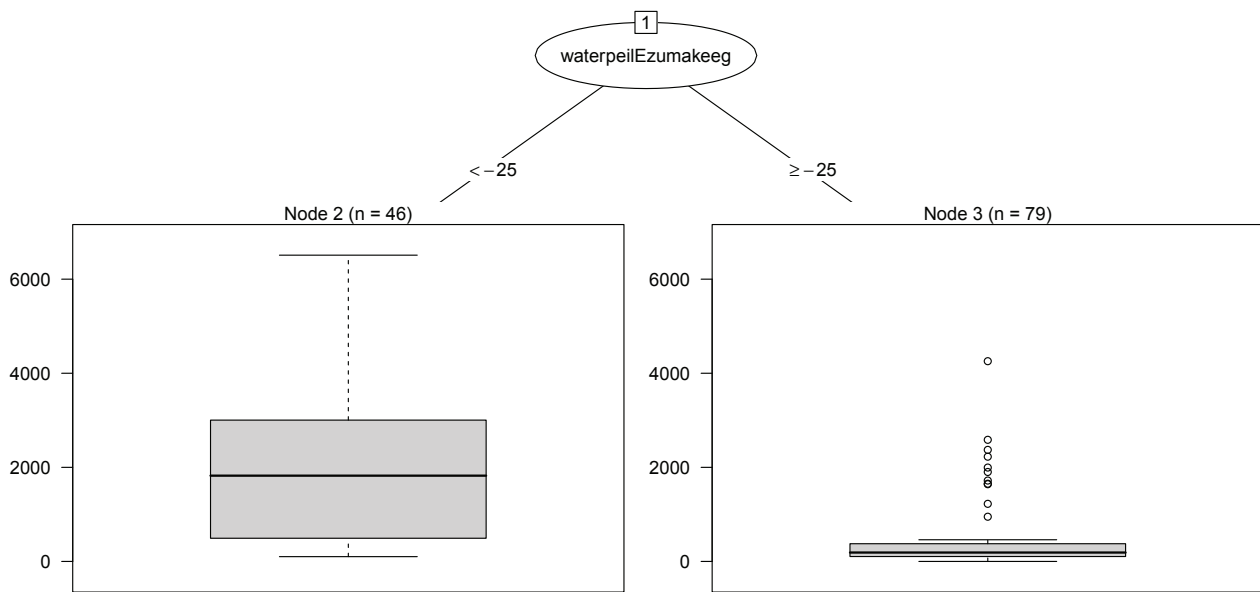
1790 Smient Lauwersmeer



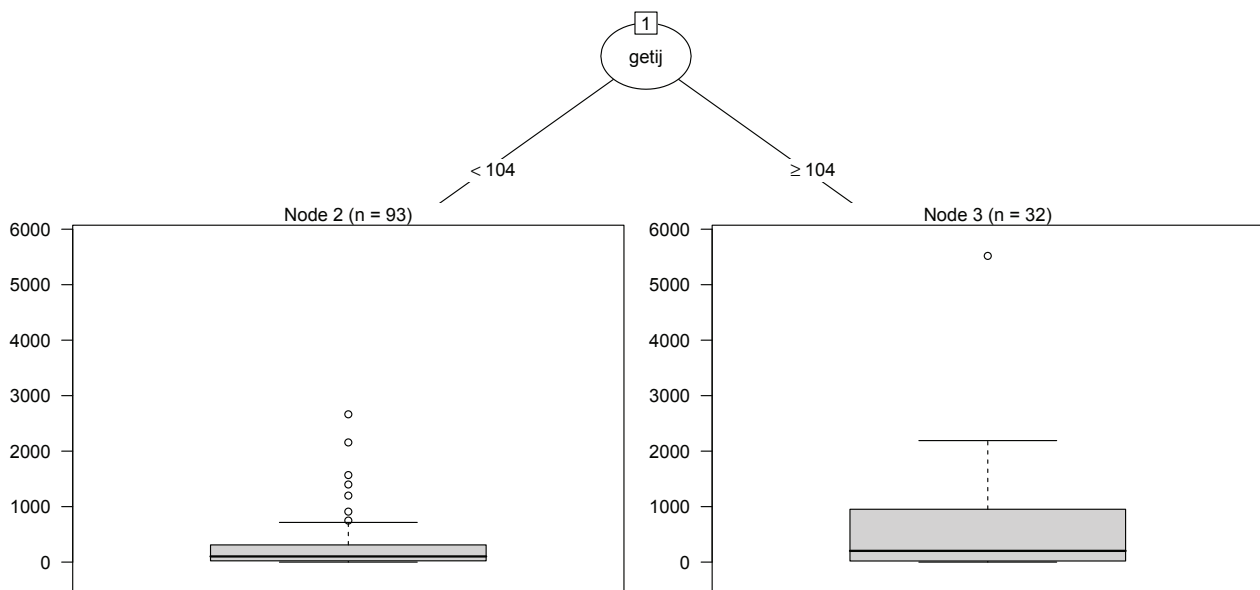
1790 Smient Ezumakeeg



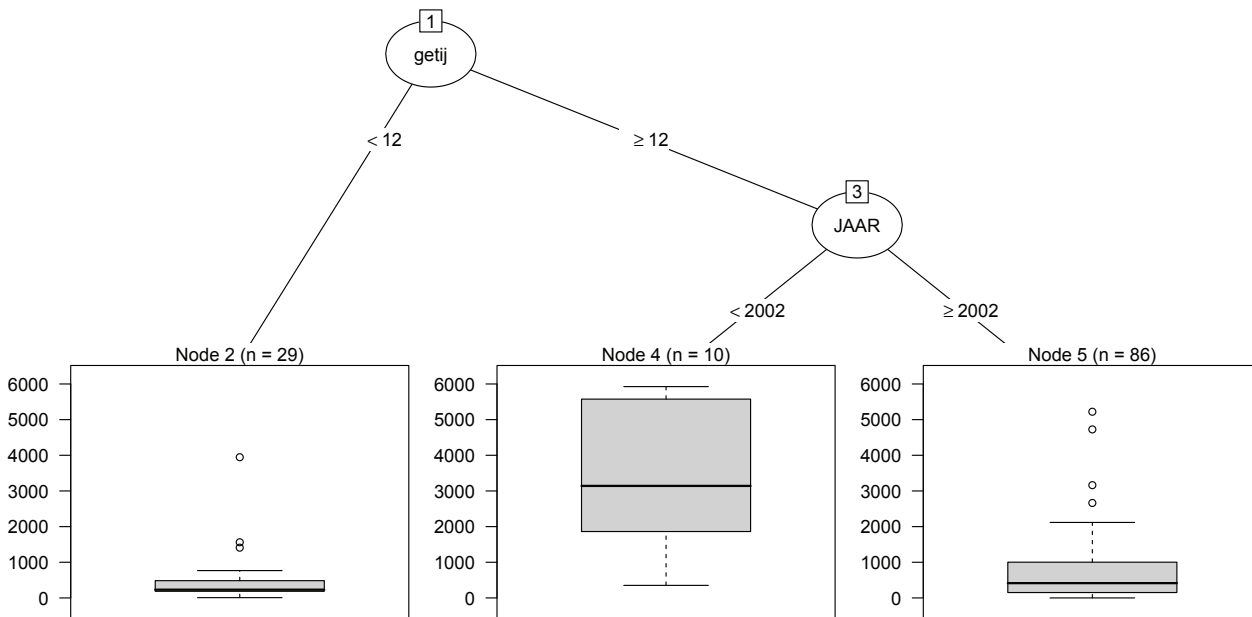
1820 Krakeend Lauwersmeer



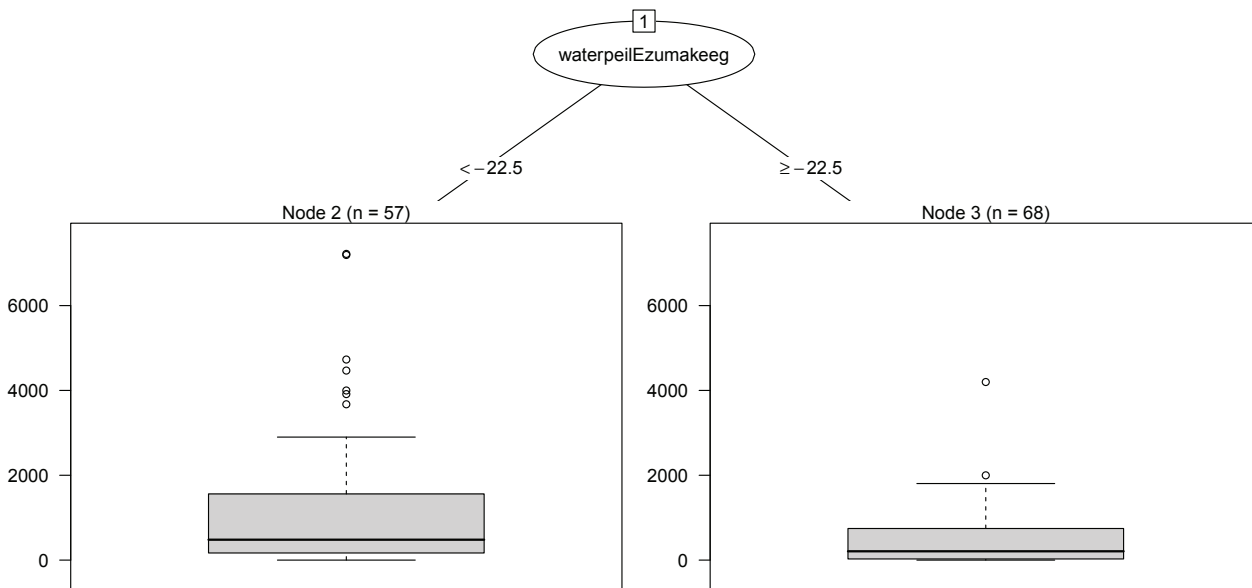
1820 Krakeend Ezumakeeg



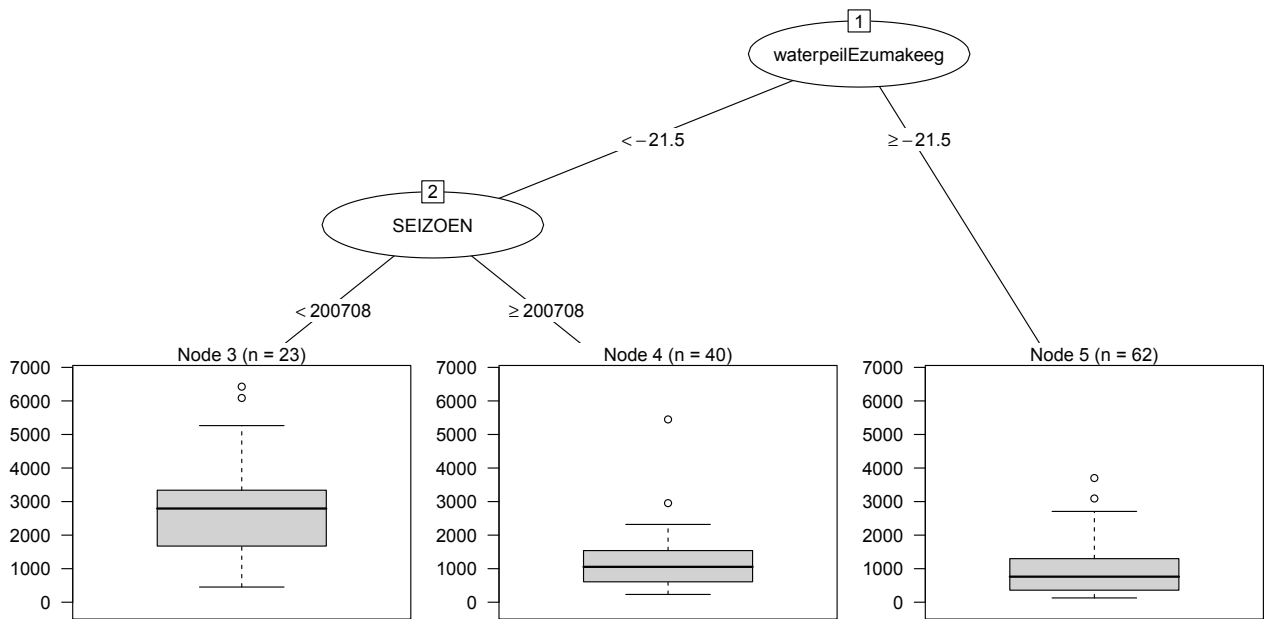
1840 Wintertaling Lauwersmeer



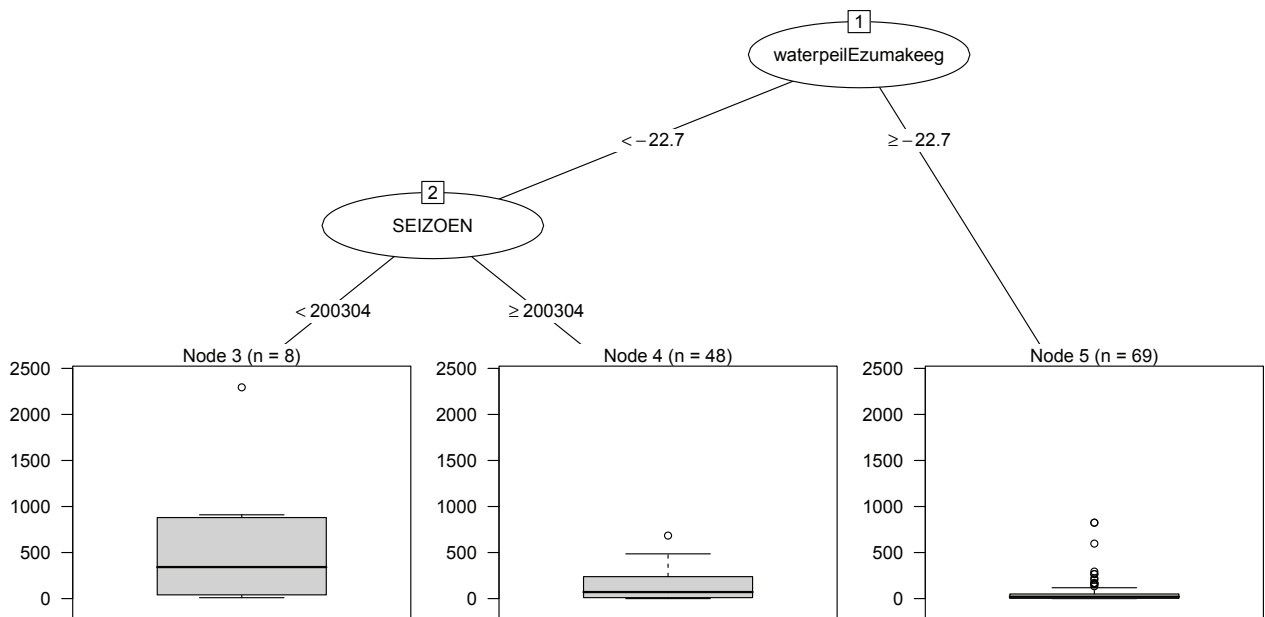
1840 Wintertaling Ezumakeeg



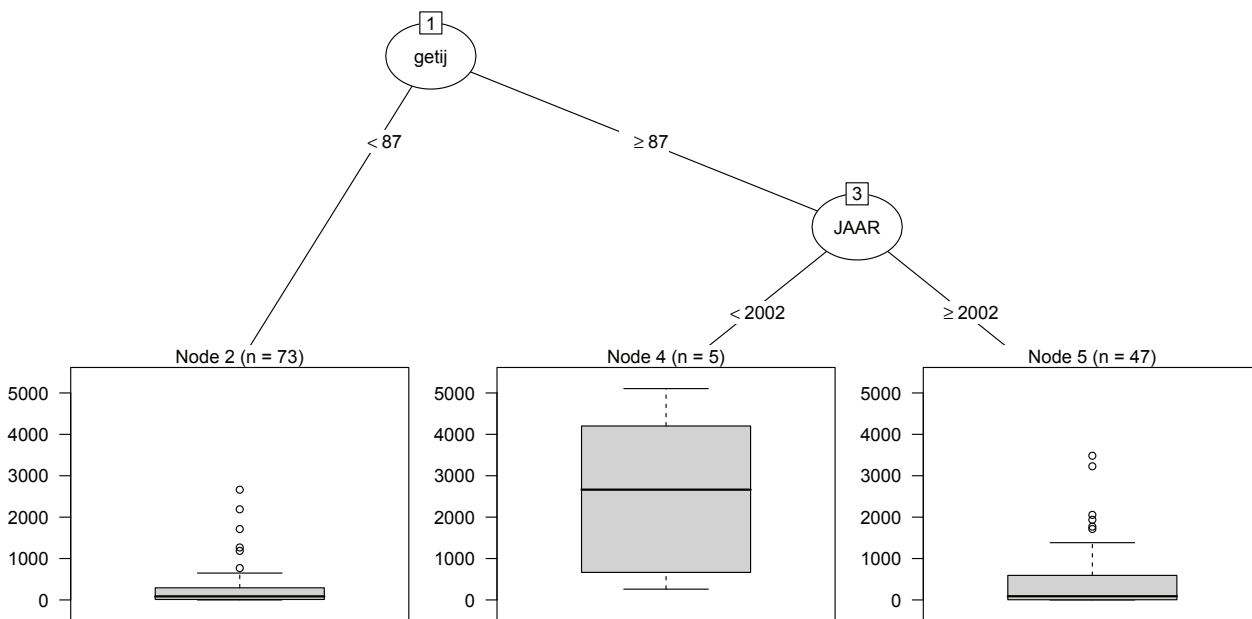
1860 Wilde Eend Lauwersmeer



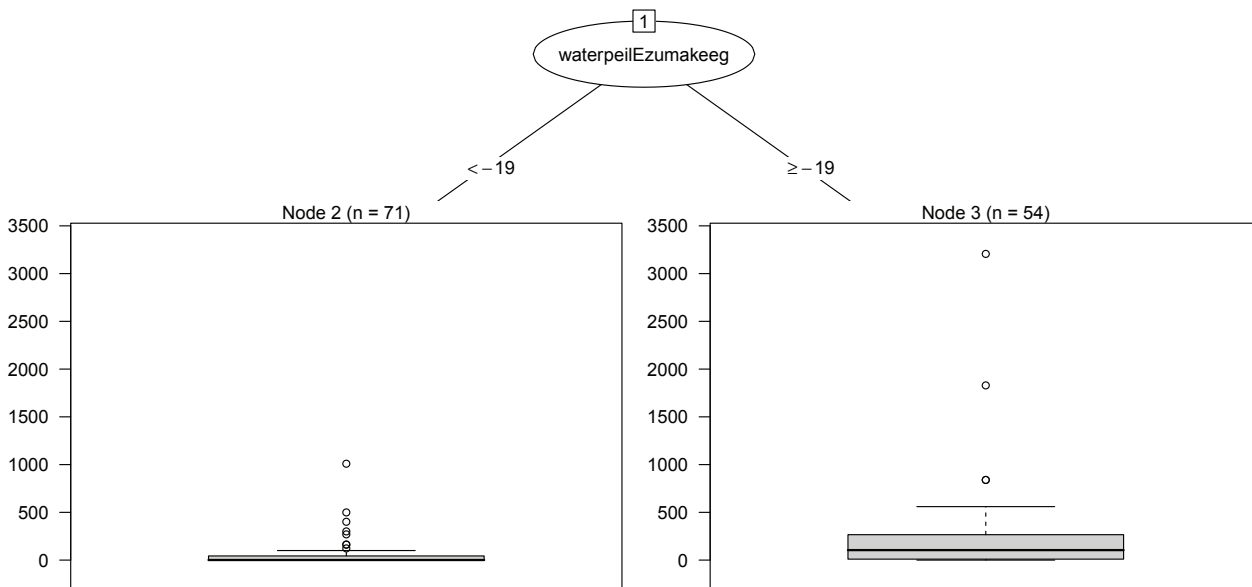
1860 Wilde Eend Ezumakeeg



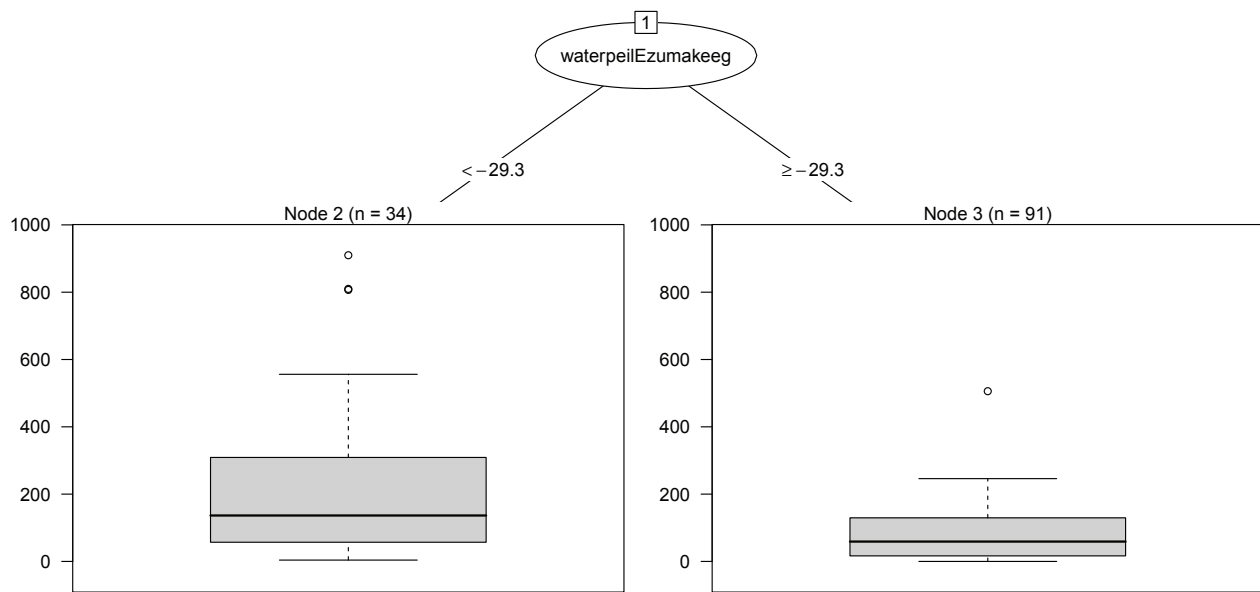
1890 Pijlstaart Lauwersmeer



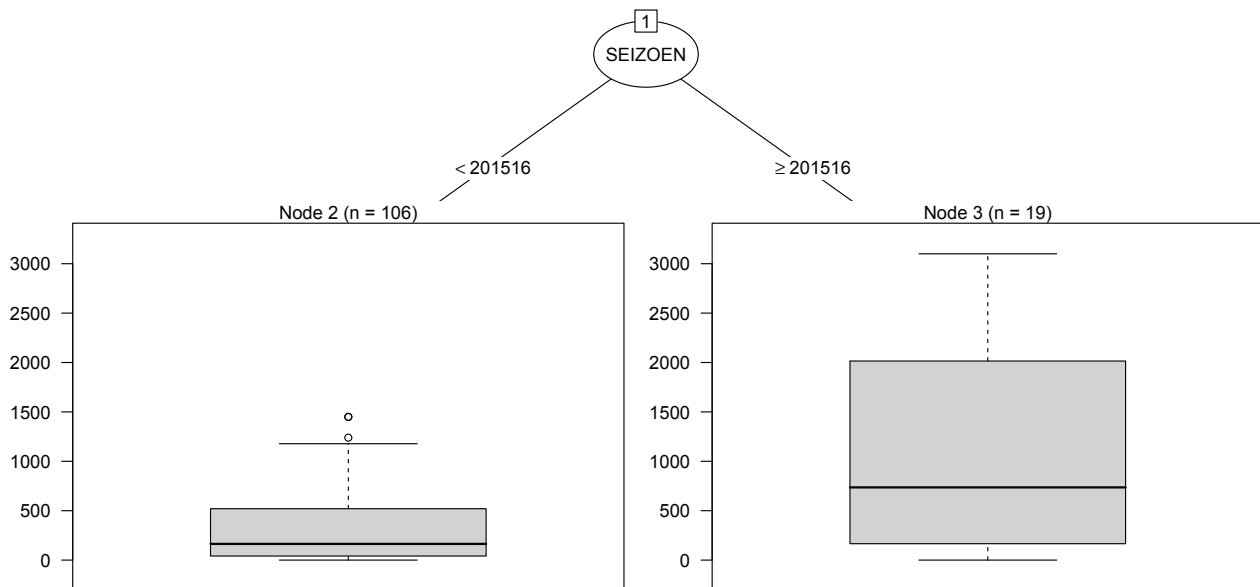
1890 Pijlstaart Ezumakeeg



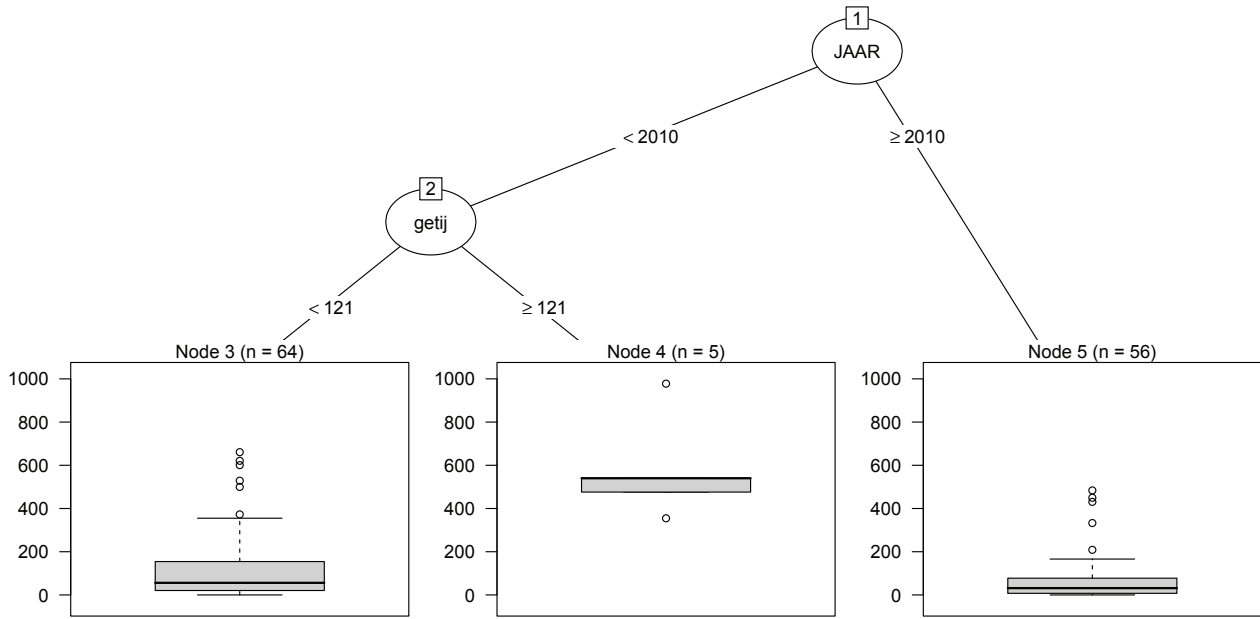
1940 Slobeend Lauwersmeer



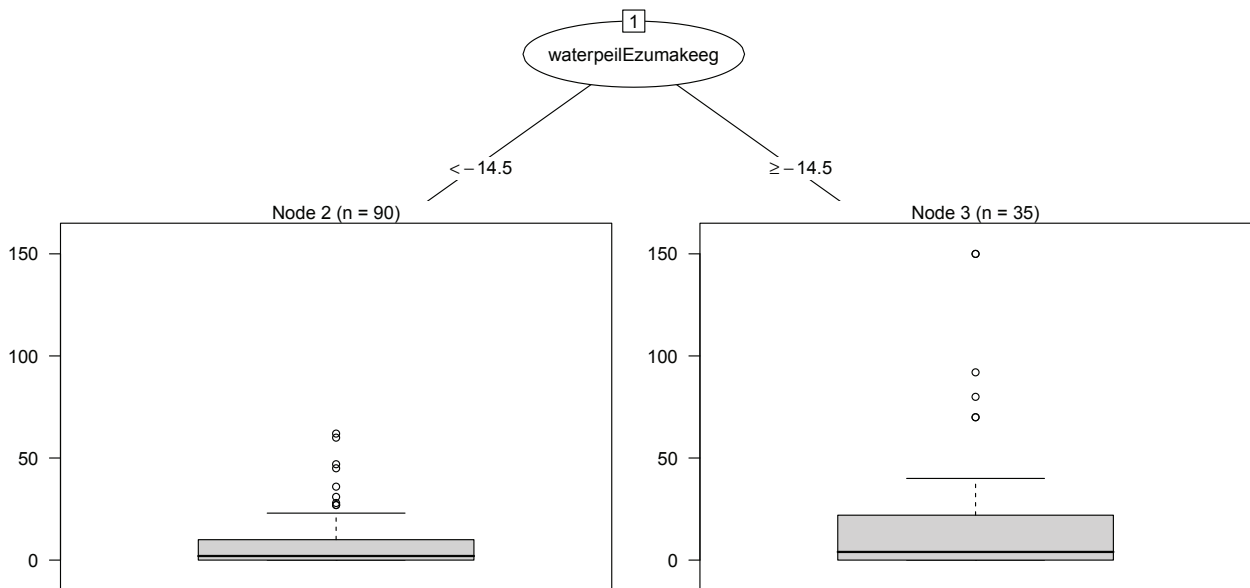
1940 Slobeend Ezumakeeg



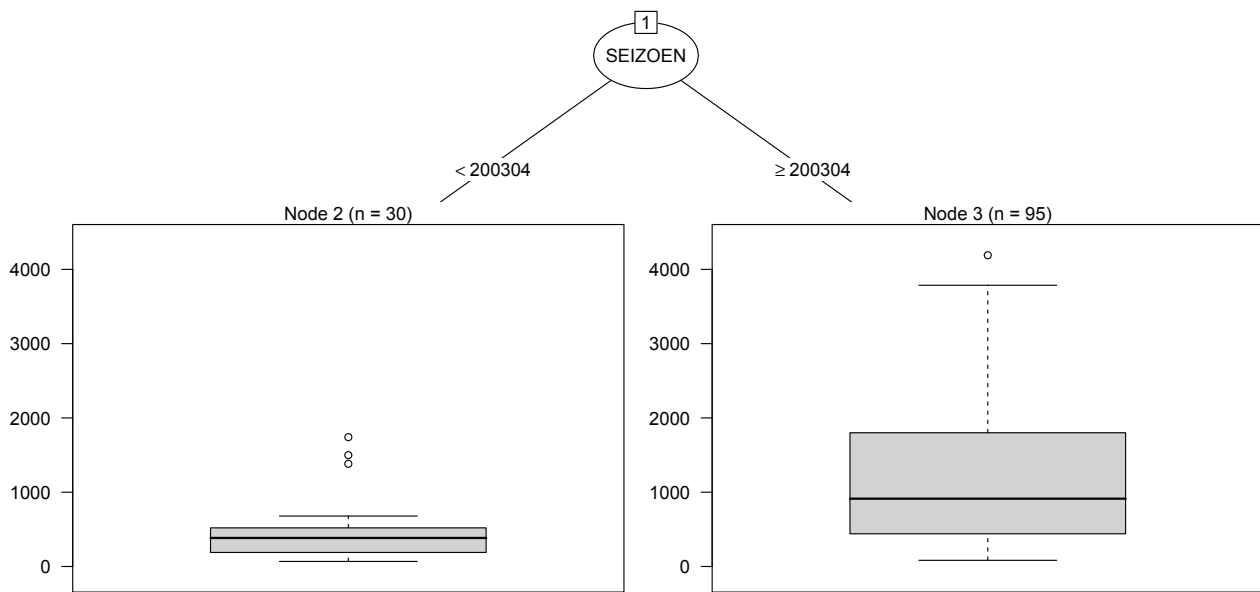
1980 Tafeleend Lauwersmeer



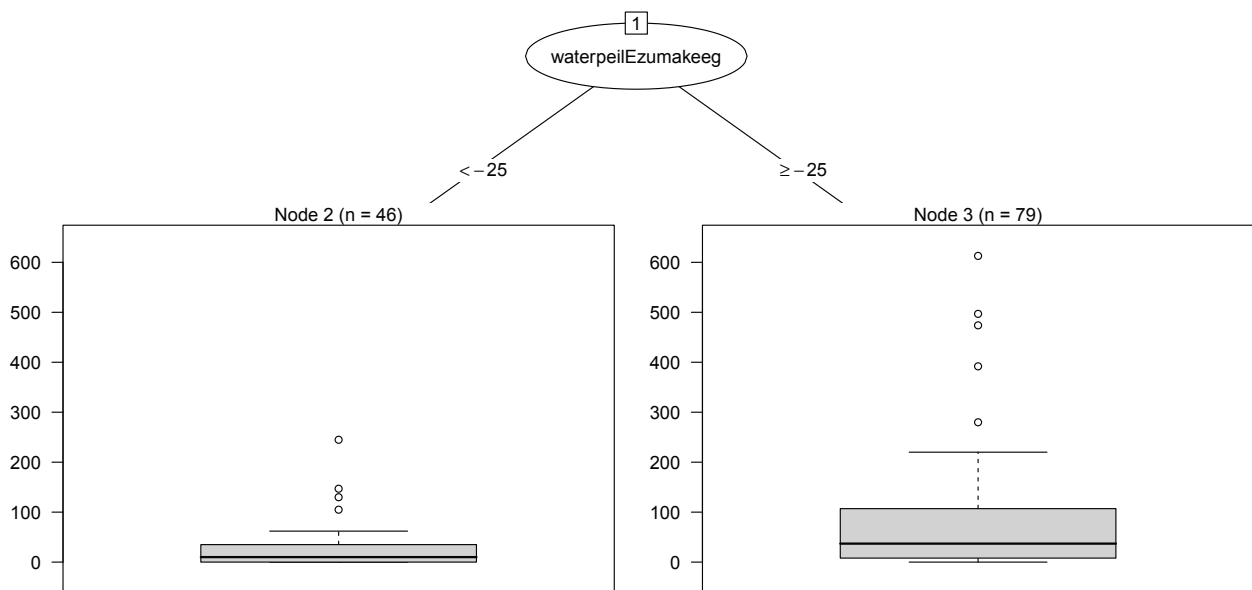
1980 Tafeleend Ezumakeeg



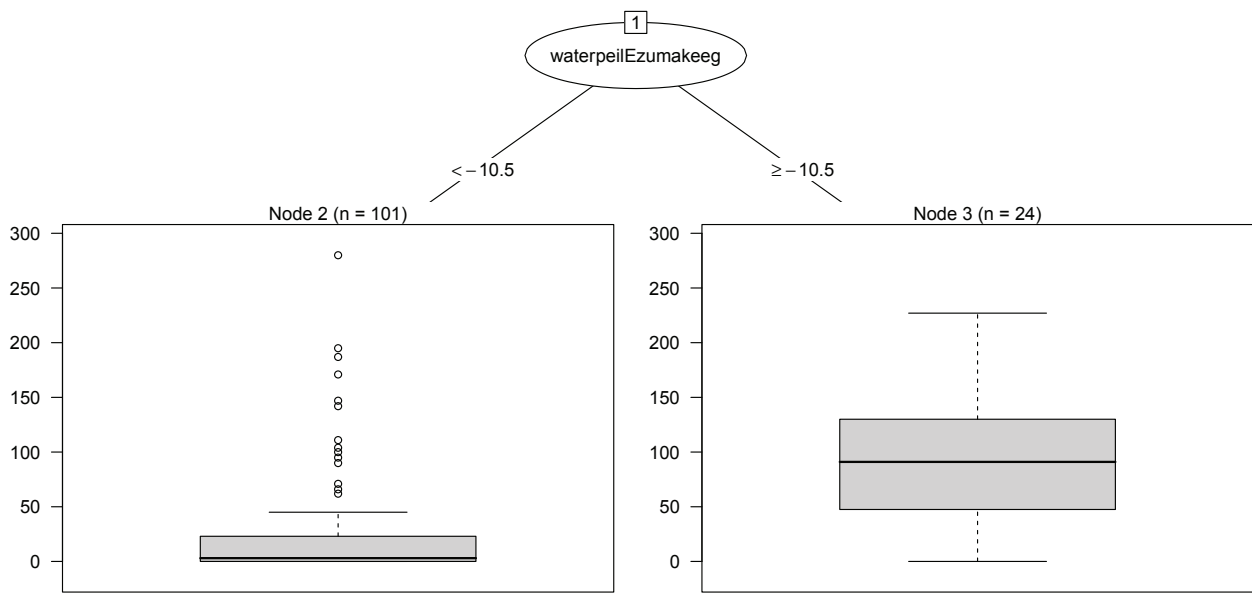
2030 Kuifeend Lauwersmeer



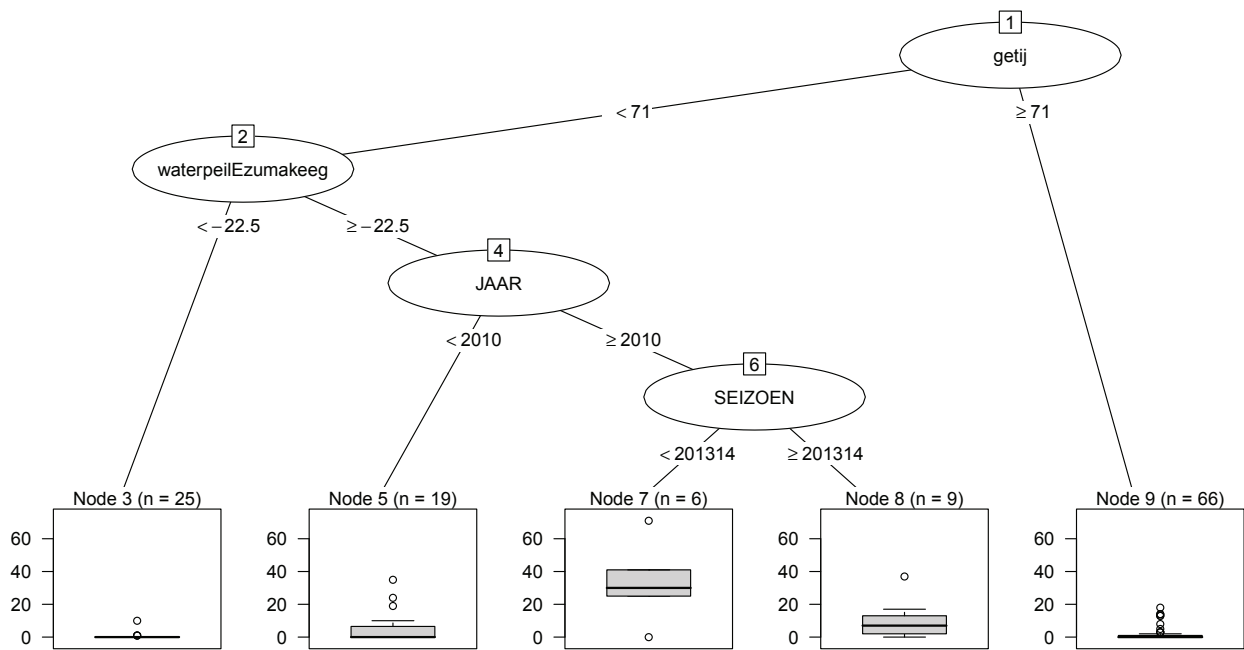
2030 Kuifeend Ezumakeeg



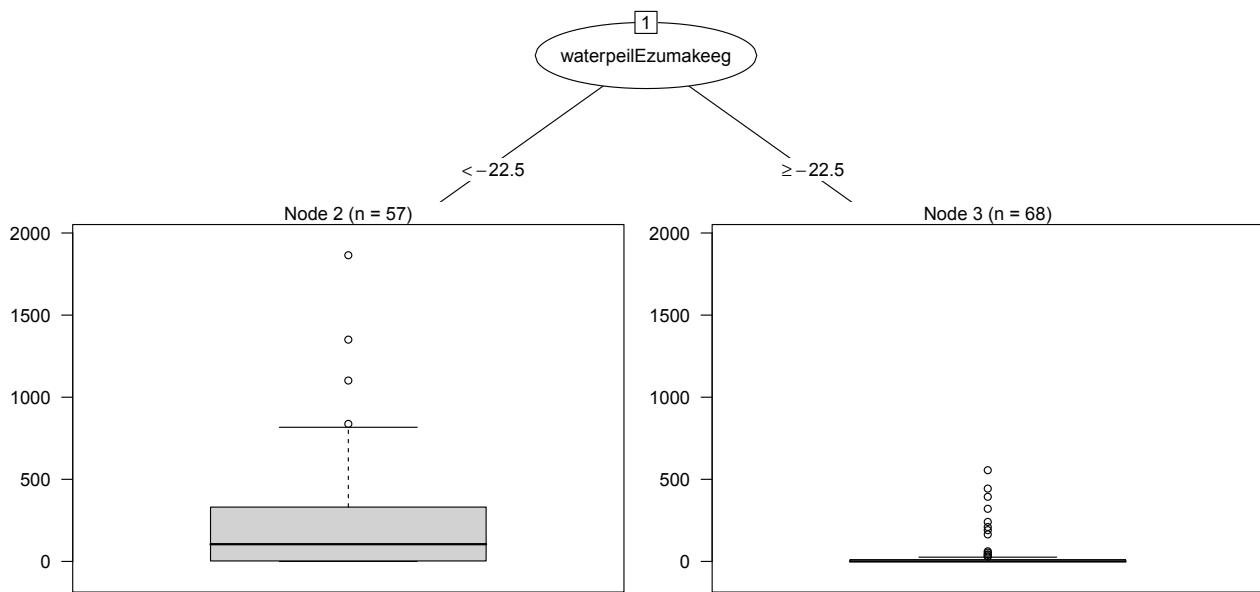
2180 Brilduiker Lauwersmeer



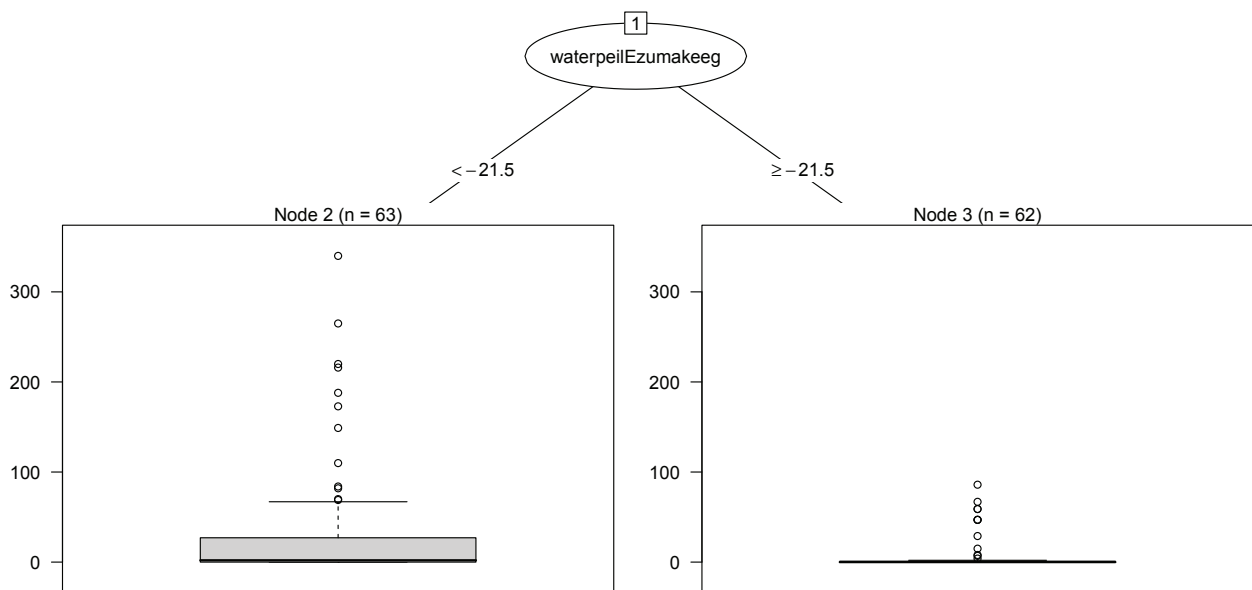
2180 Brilduiker Ezumakeeg



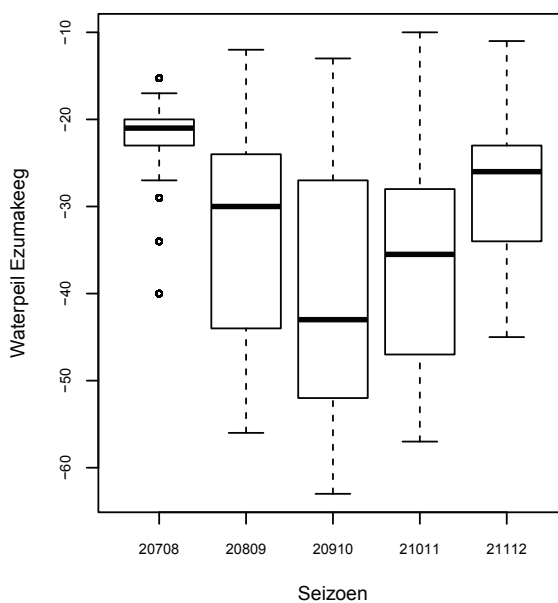
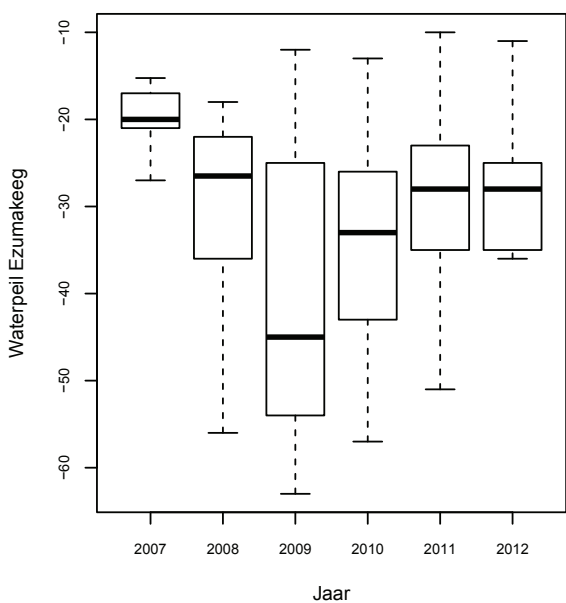
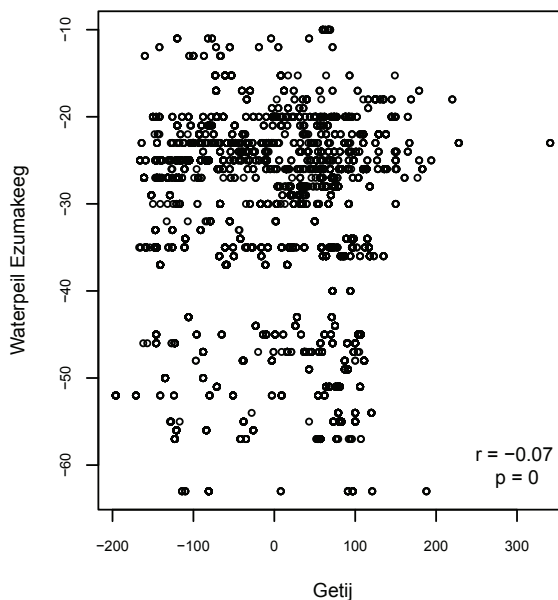
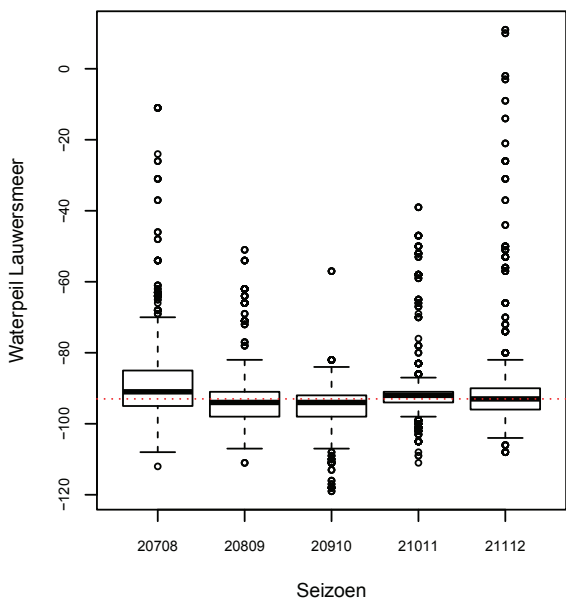
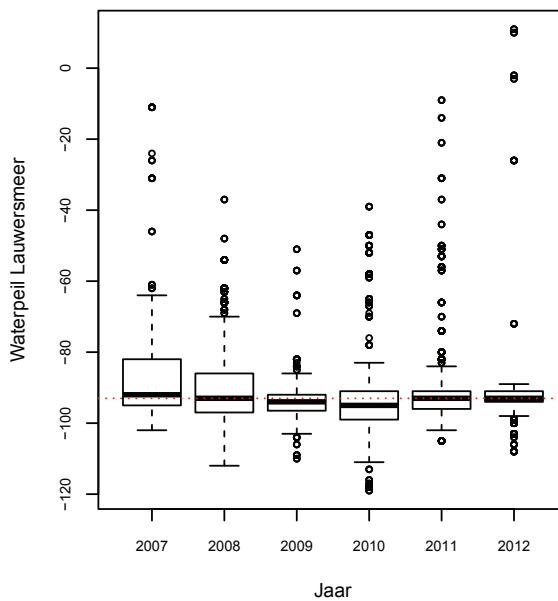
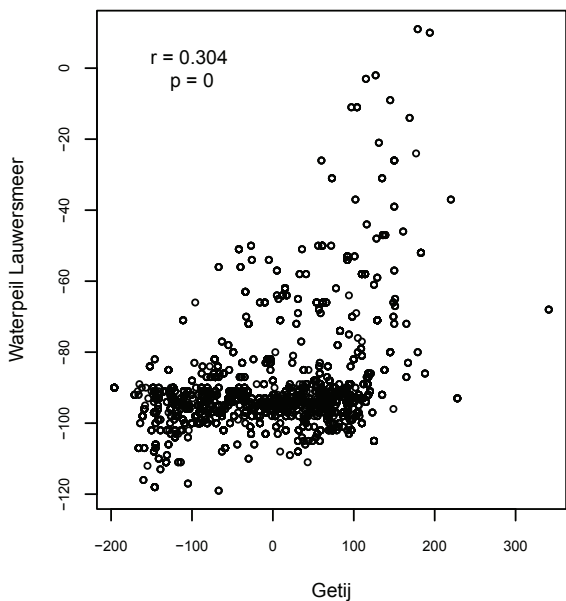
5450 Zwarte Ruiter Lauwersmeer

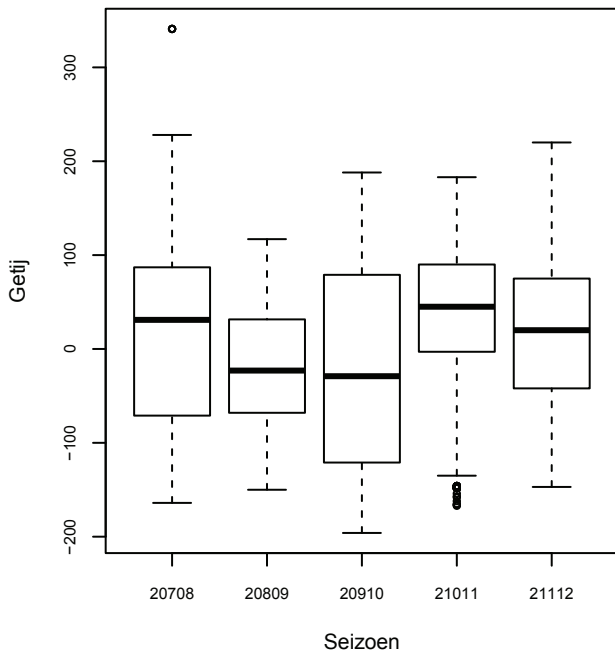
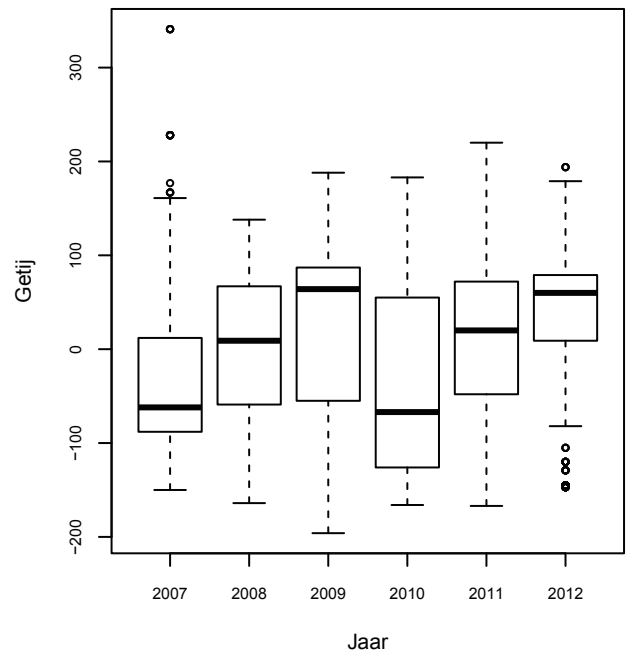
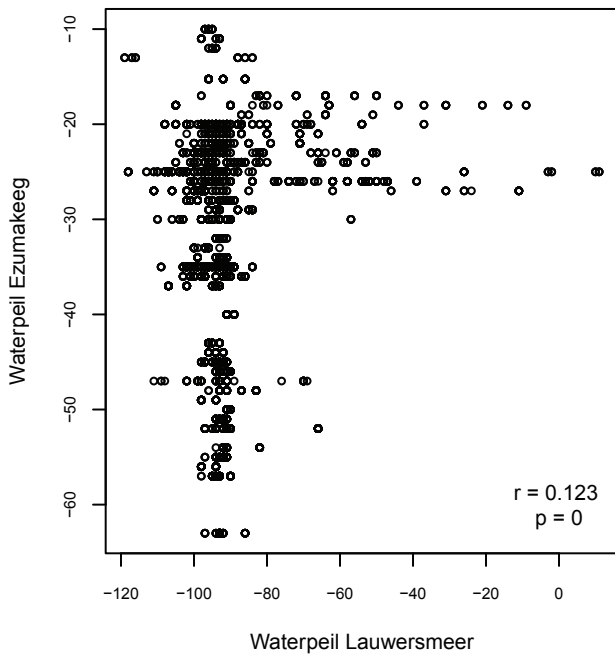


5450 Zwarte Ruiter Ezumakeeg



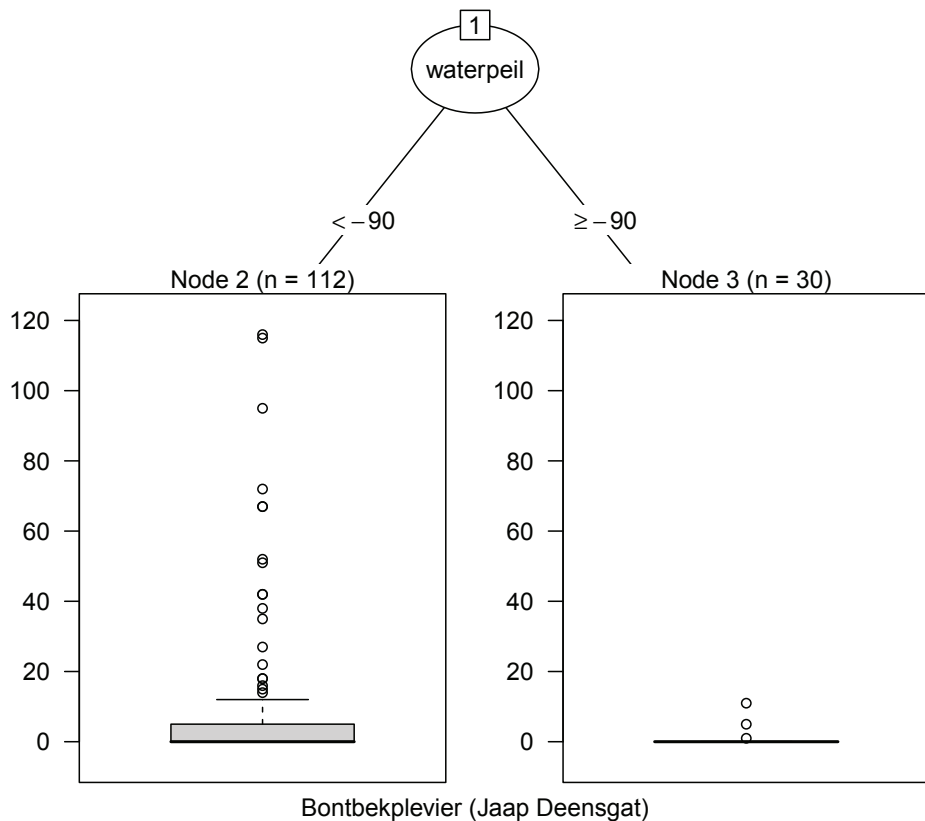
Bijlage 13c. Gegevensverkenning waterstanden t.b.v. analyse slaapplaatsdata



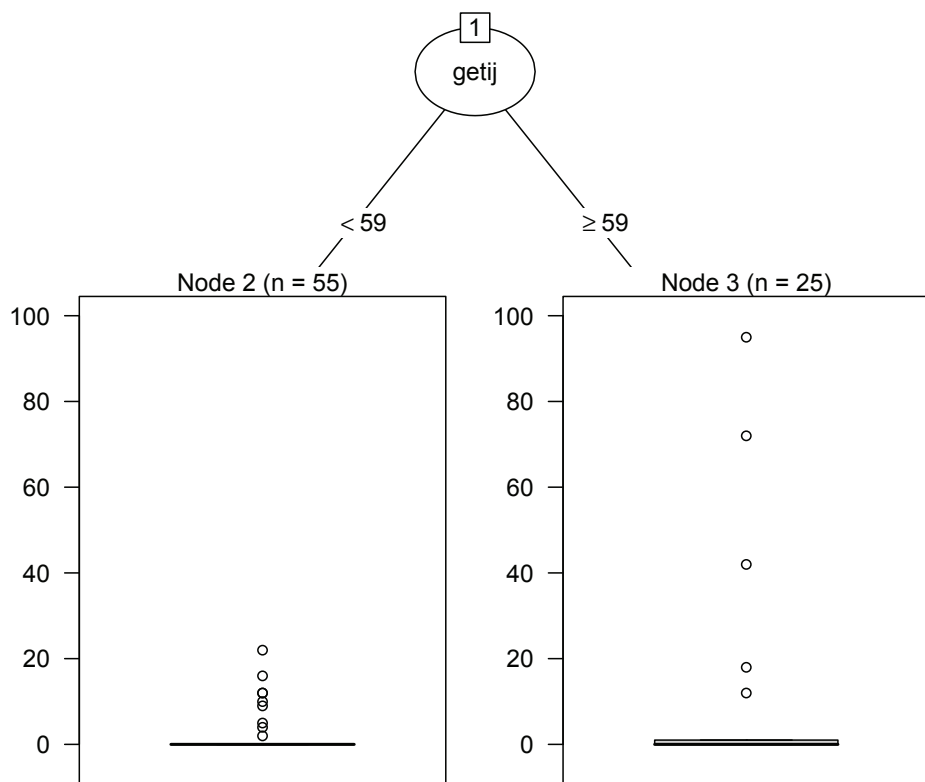


Bijlage 13d. Regressiebomen voor 9 soorten op slaappleatsen met de waterstanden van Lauwersmeer, Ezumakeeg en Waddenzee als verklarende variabelen.

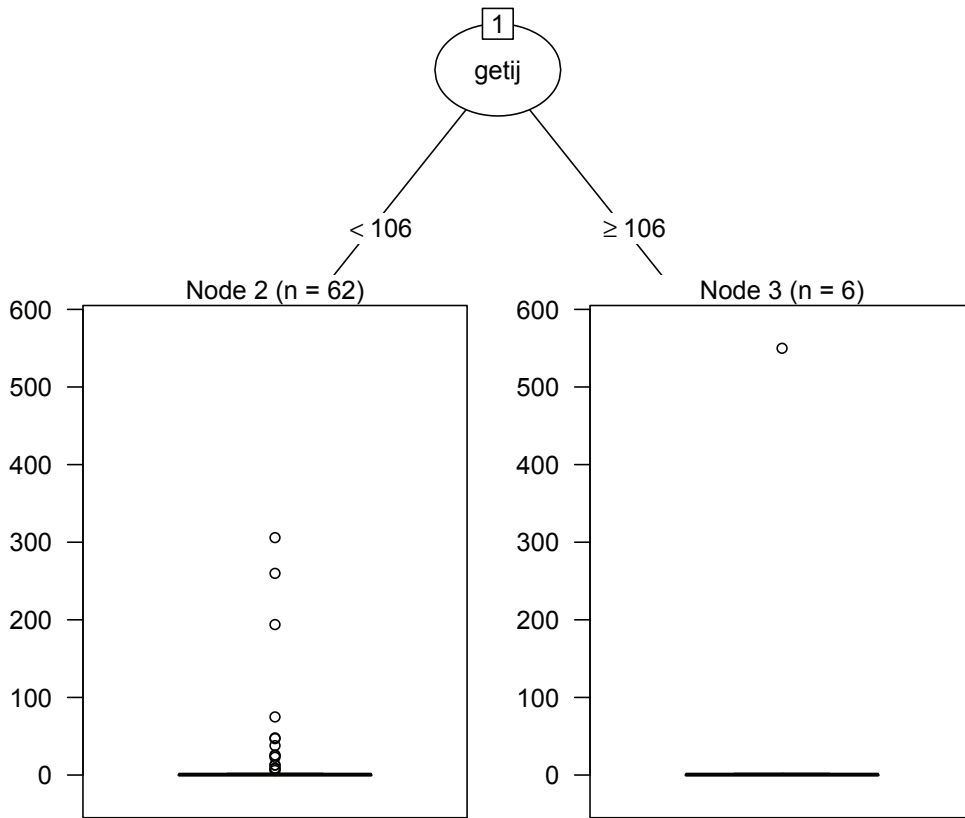
Bontbekplevier (Lauwersmeer)



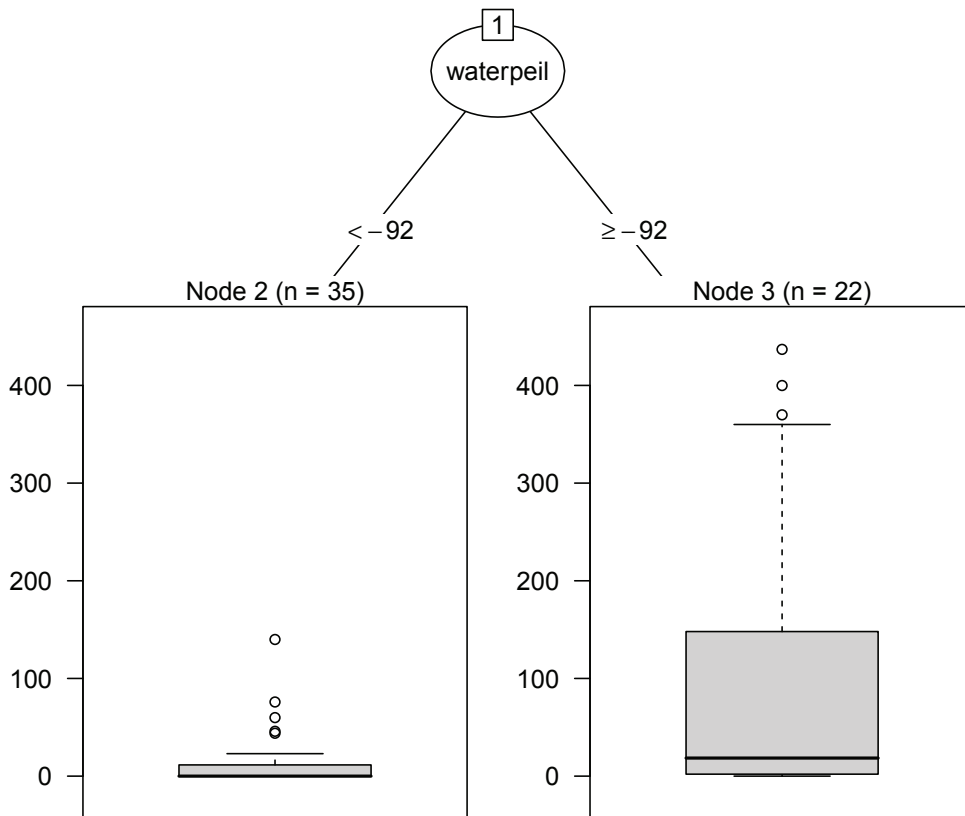
Bontbekplevier (Jaap Deensgat)



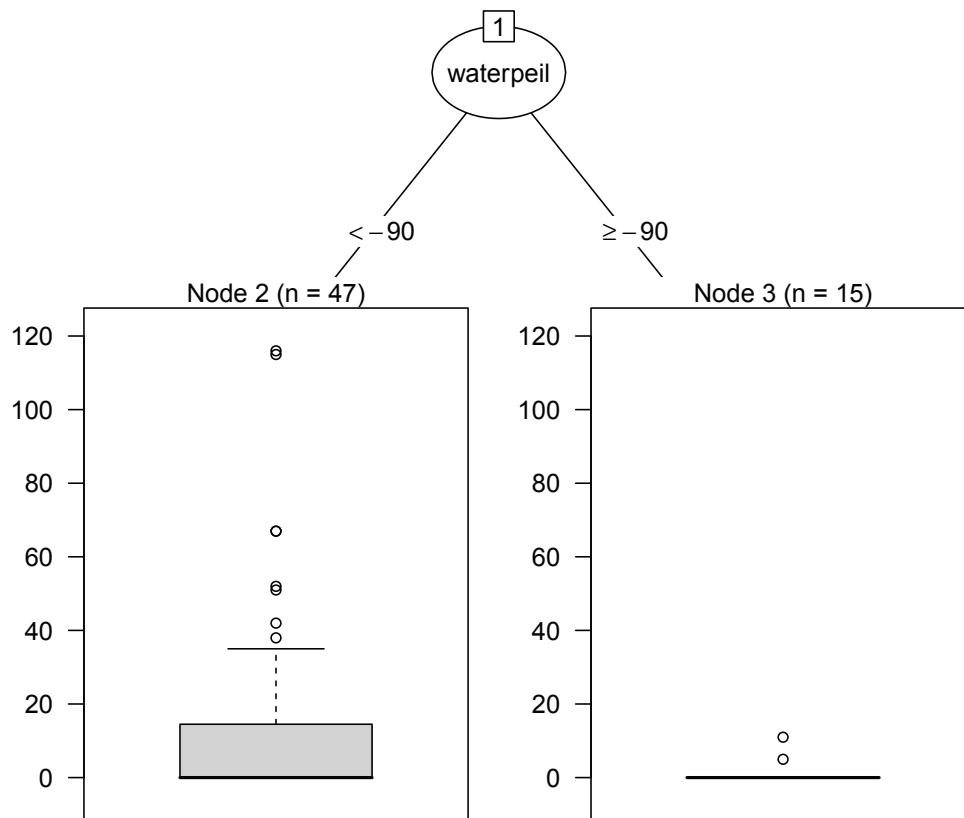
Bontbekplevier (Ezumakeeg Zuid)



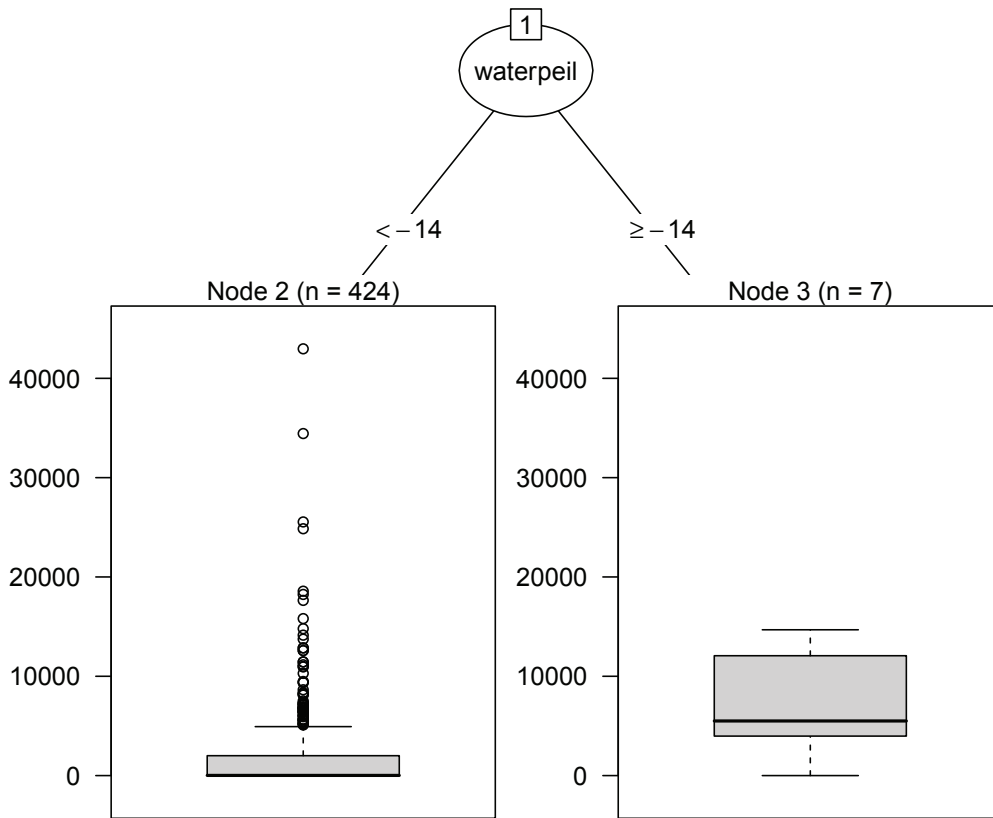
Bontbekplevier (Ezumakeeg Noord)



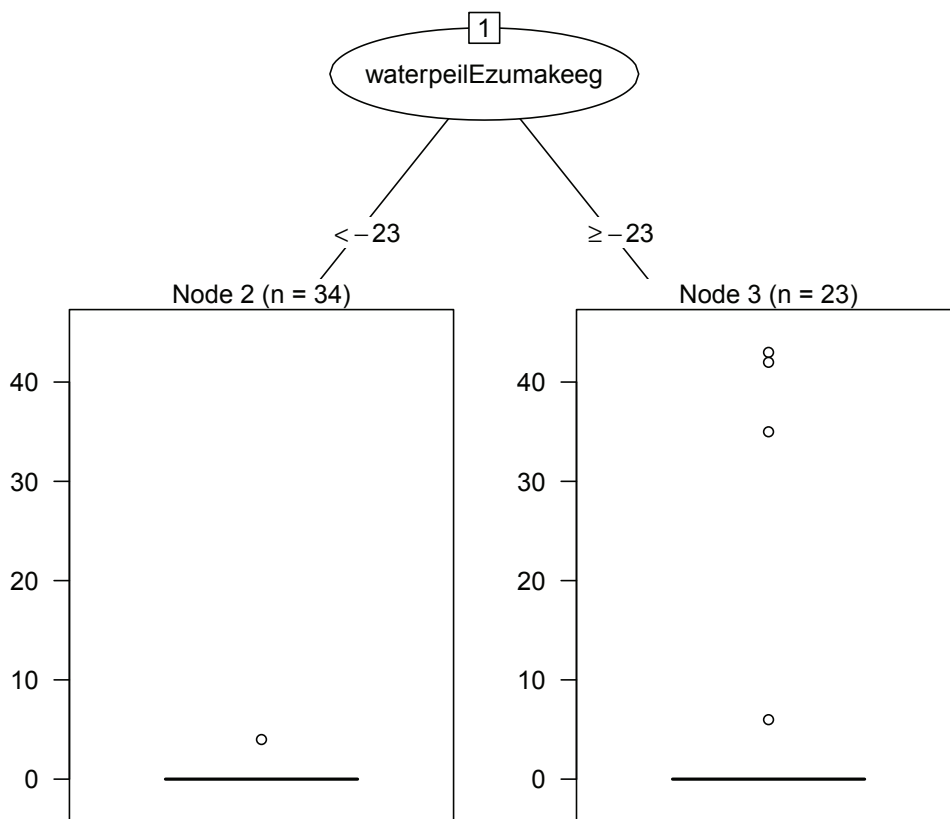
Bontbekplevier (Achter de Zwart)



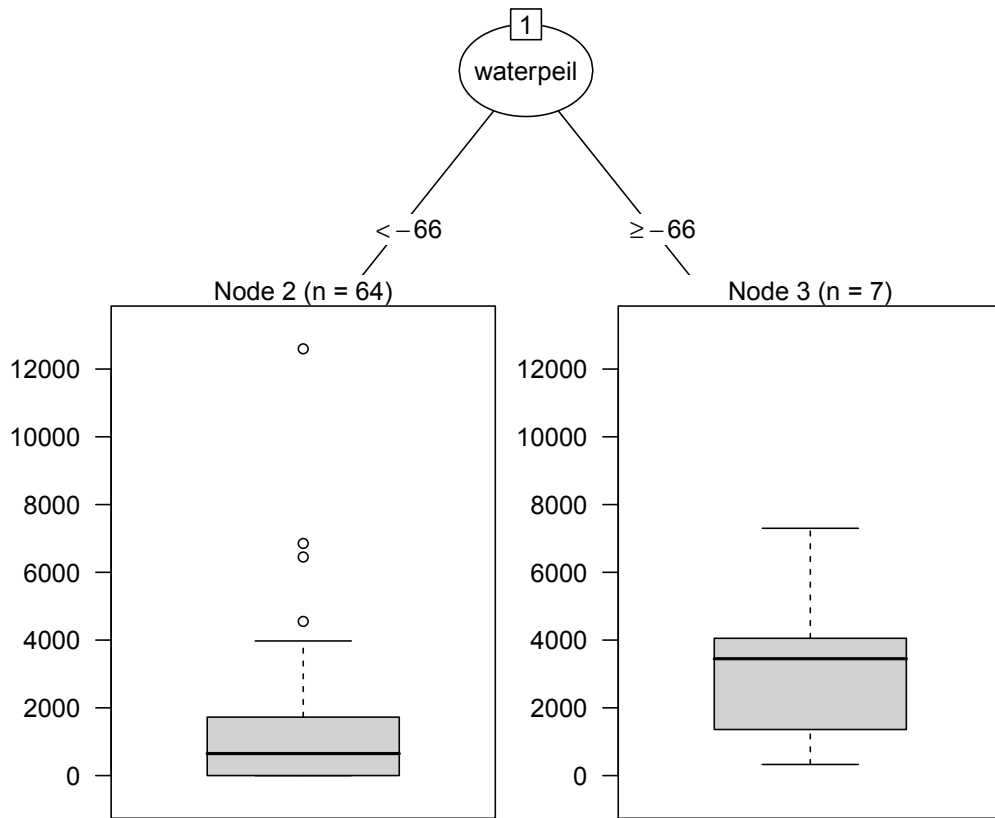
Brandgans (Lauwersmeer)



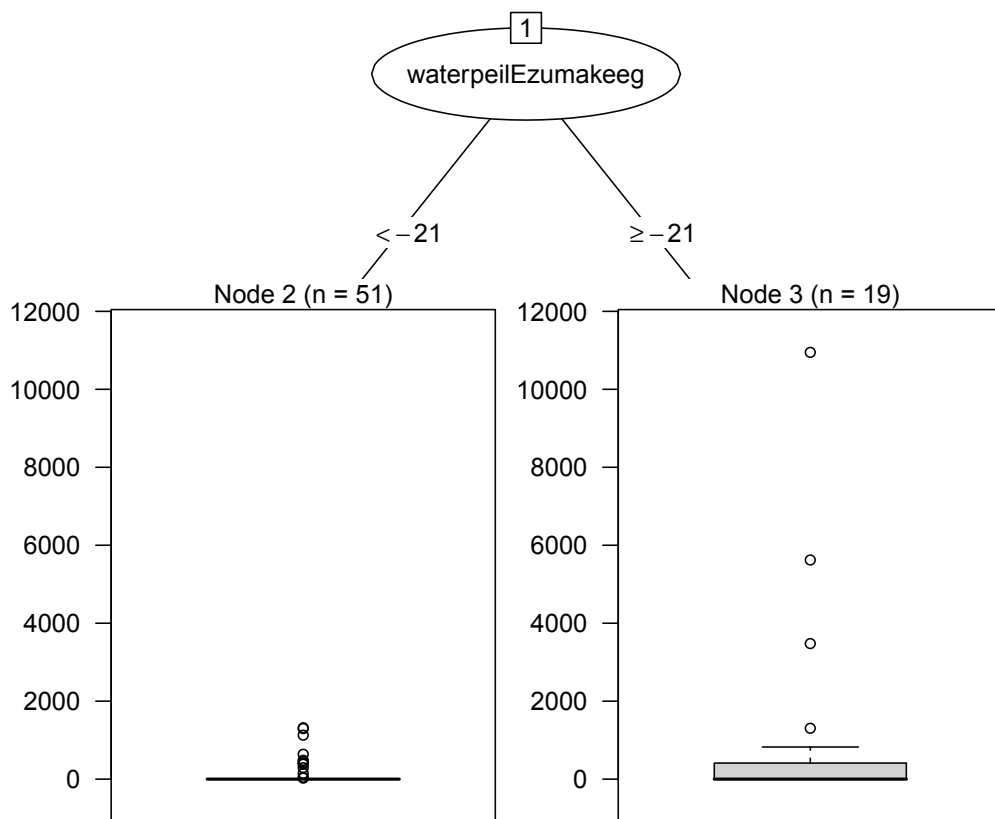
Brandgans (Nieuwe Robbengat)



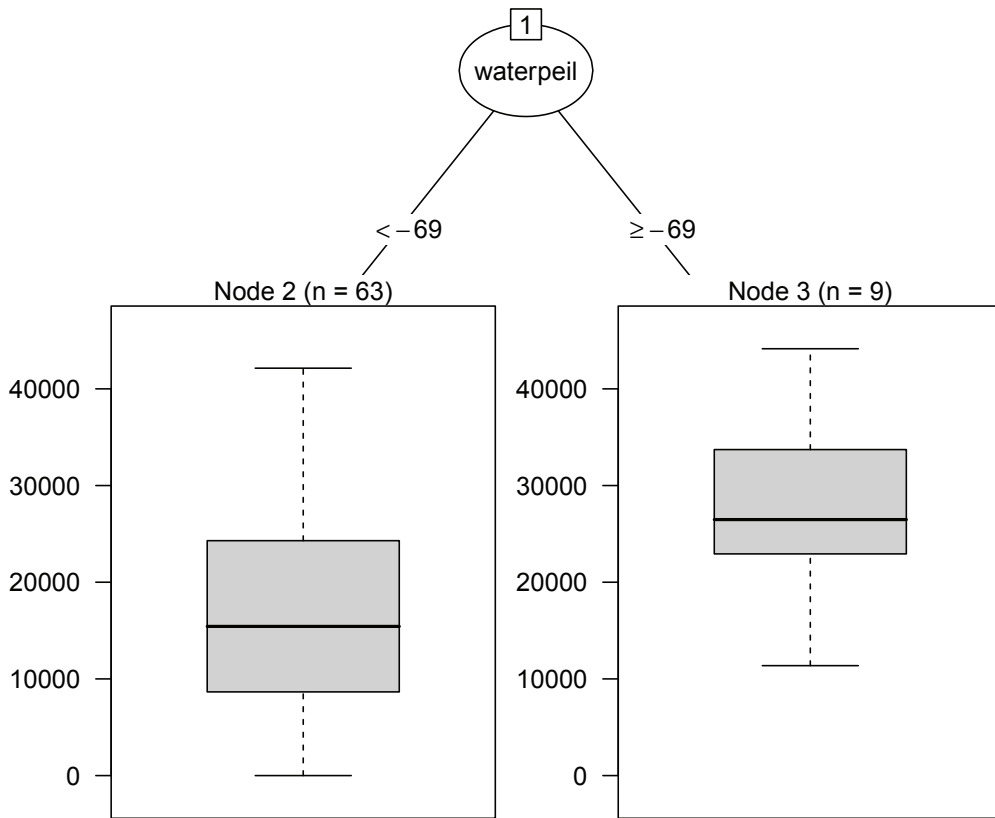
Brandgans (Oude Robbengat)



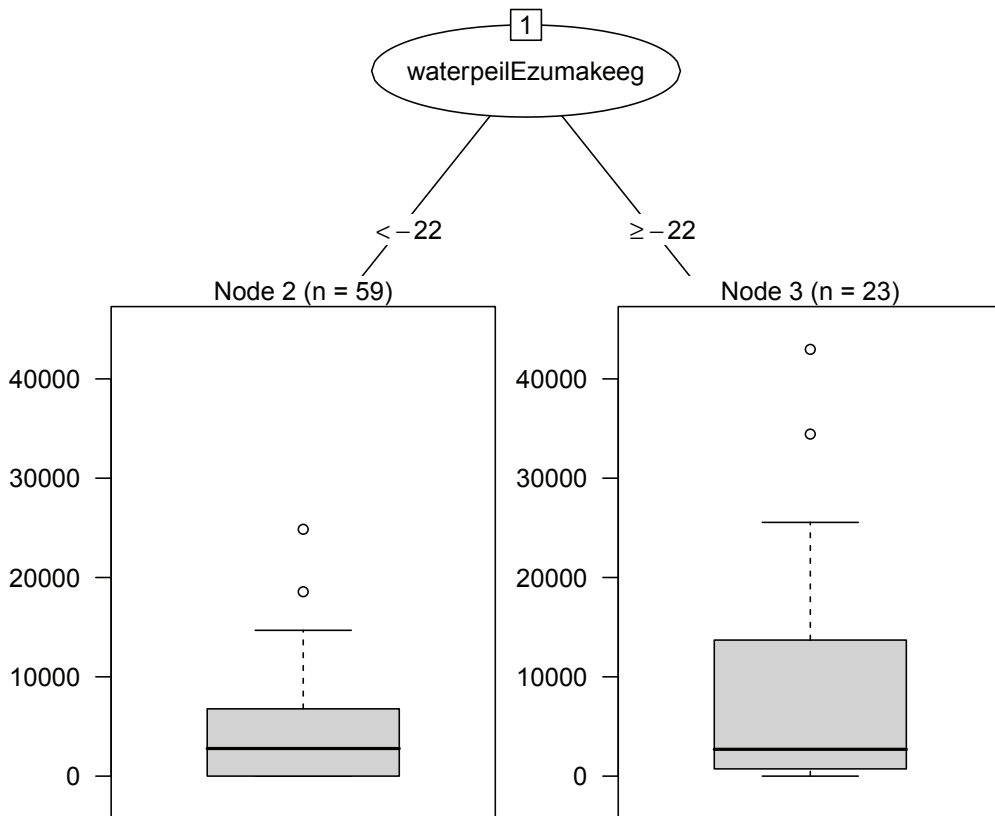
Brandgans (Vlinderbalg)



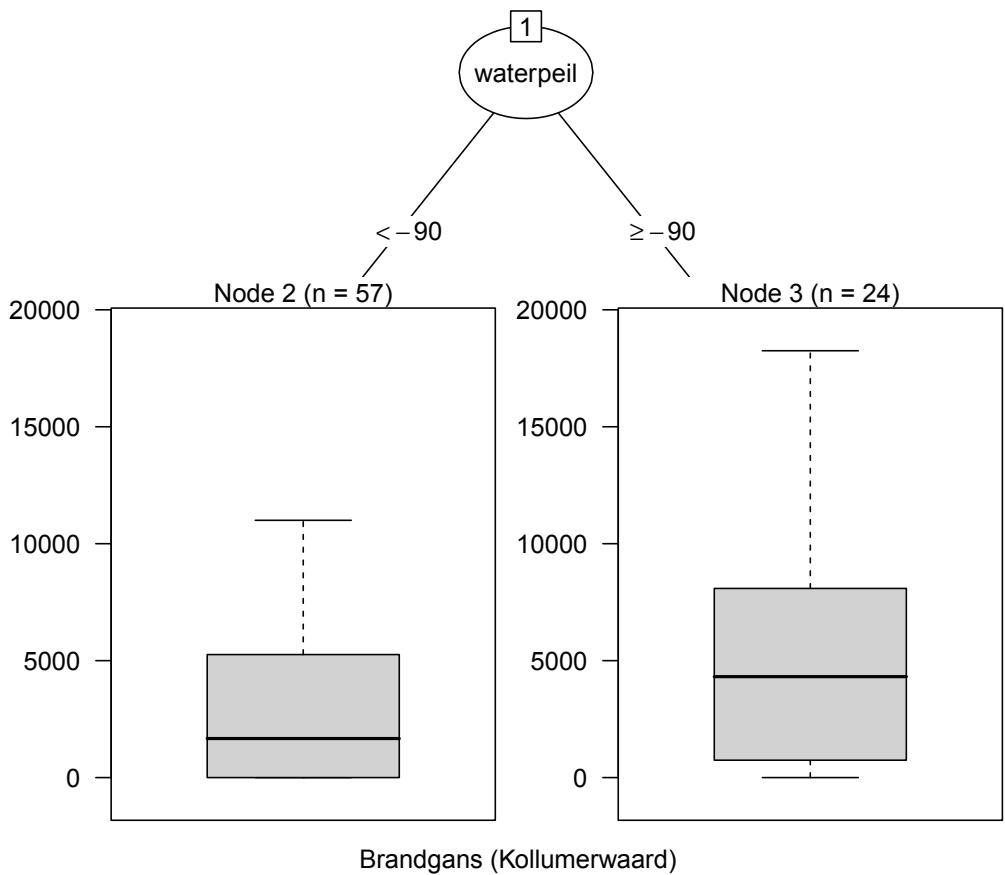
Brandgans (Ezumakeeg)



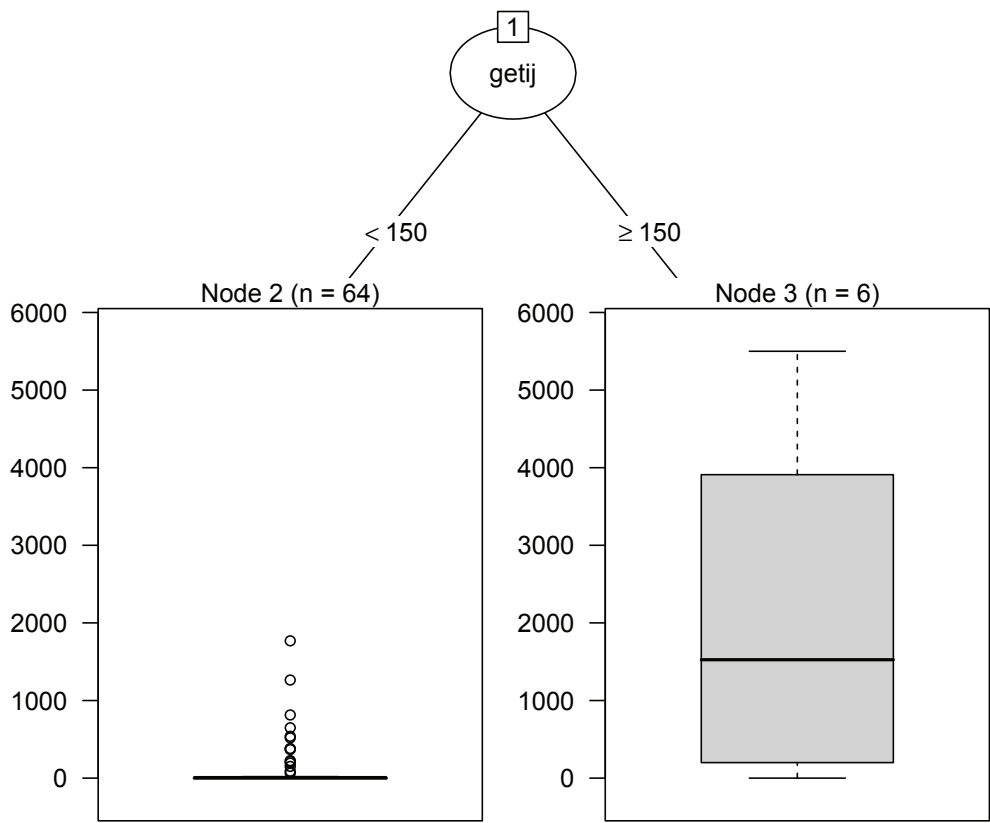
Brandgans (Jaap Deensgat)



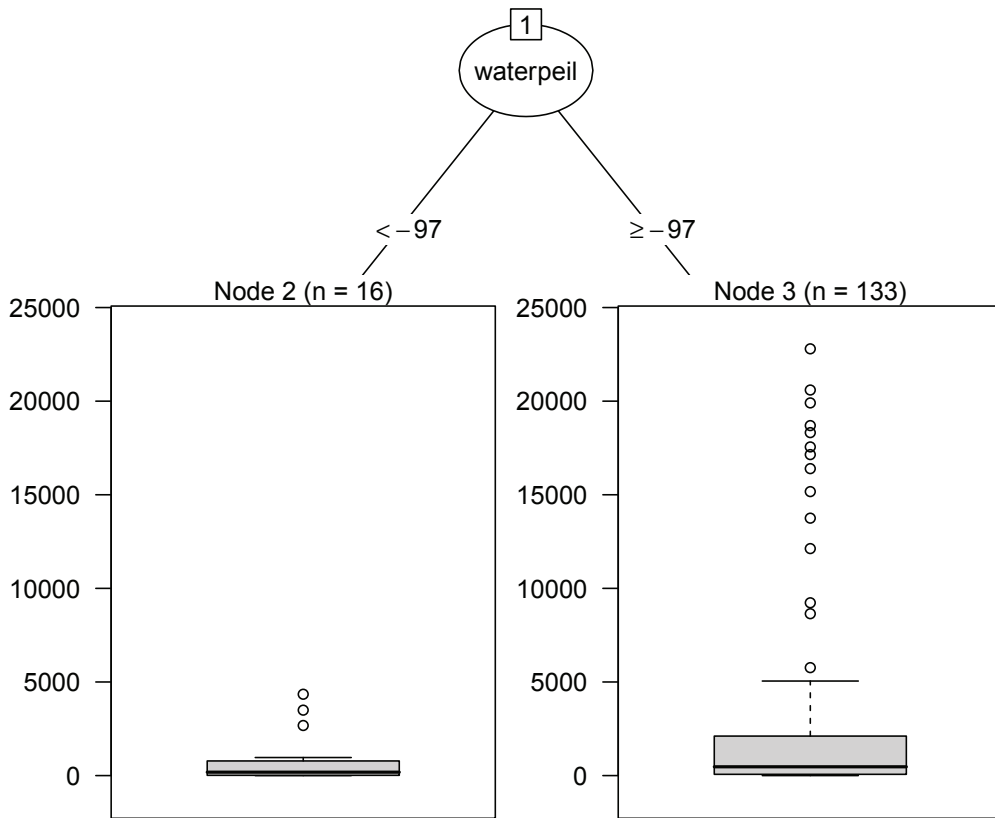
Brandgans (Achter de Zwart)



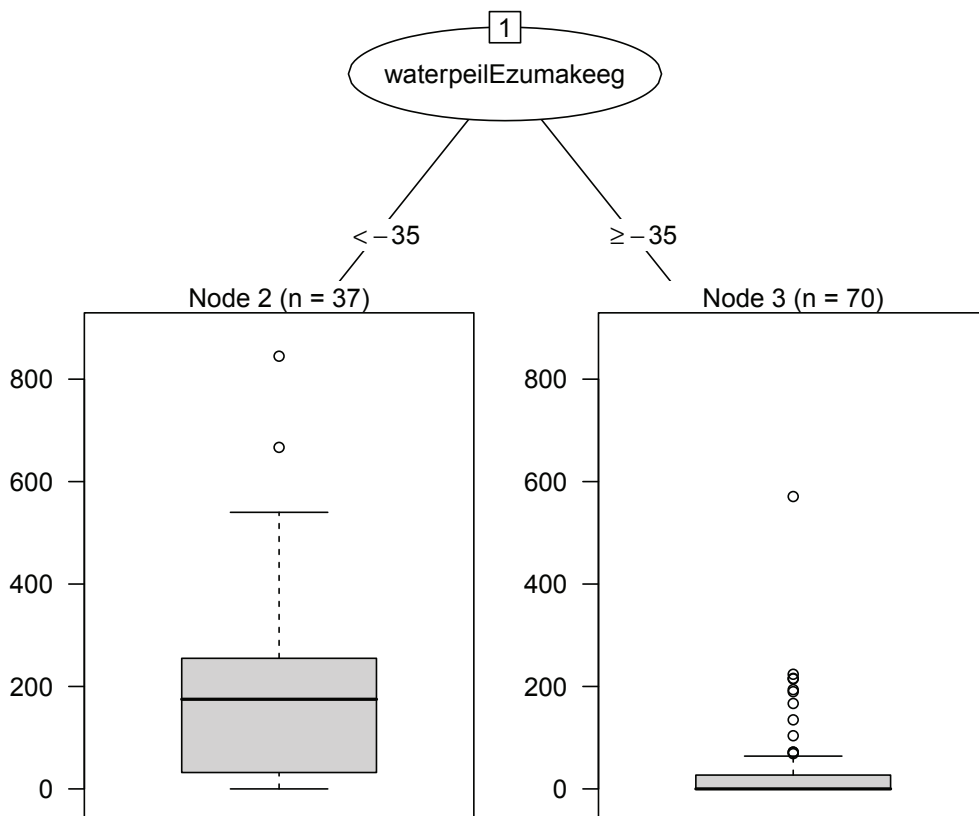
Brandgans (Kollumerwaard)



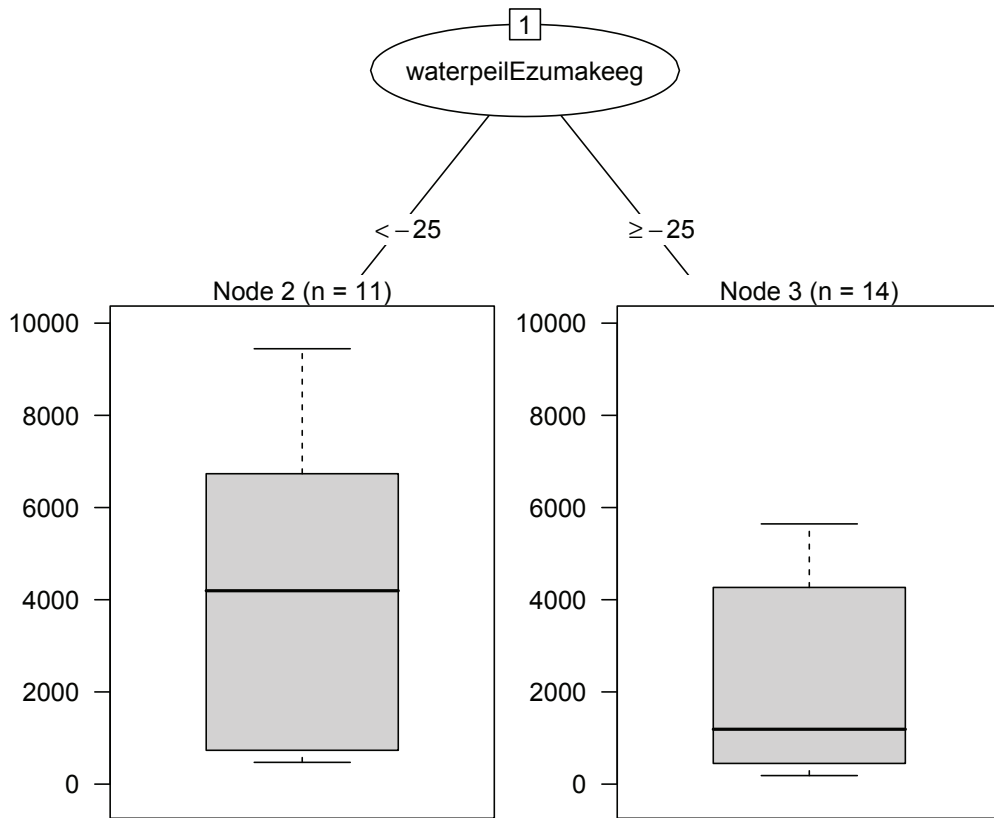
Grauwe_Gans (Lauwersmeer)



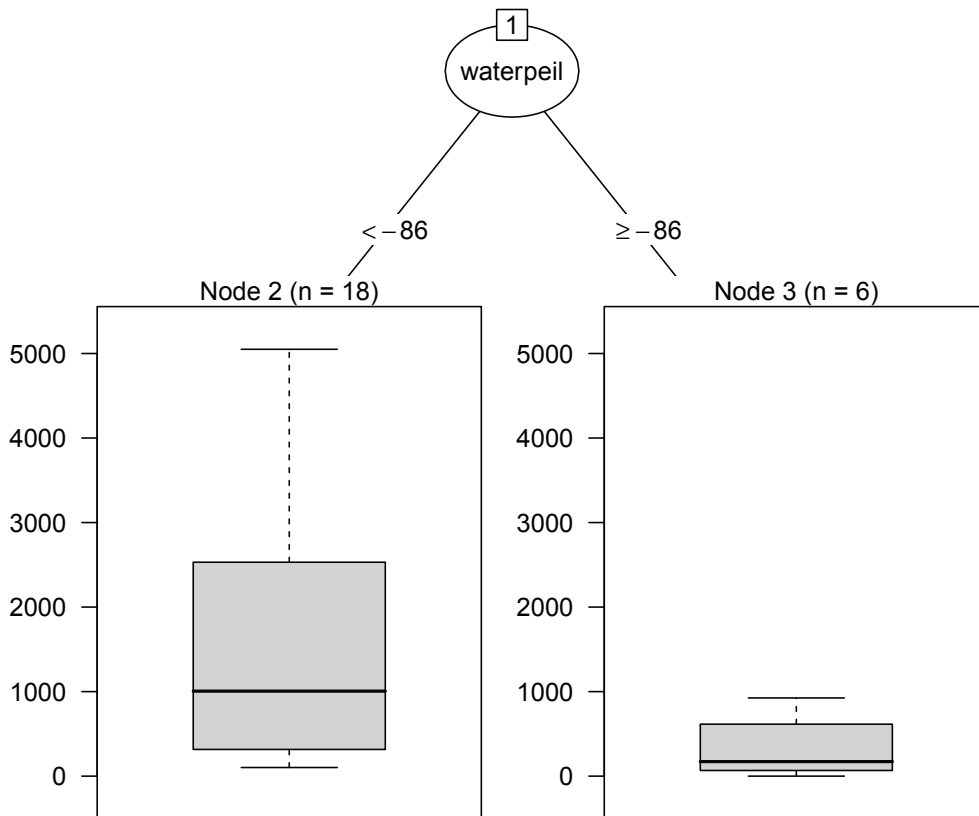
Grutto (Lauwersmeer)



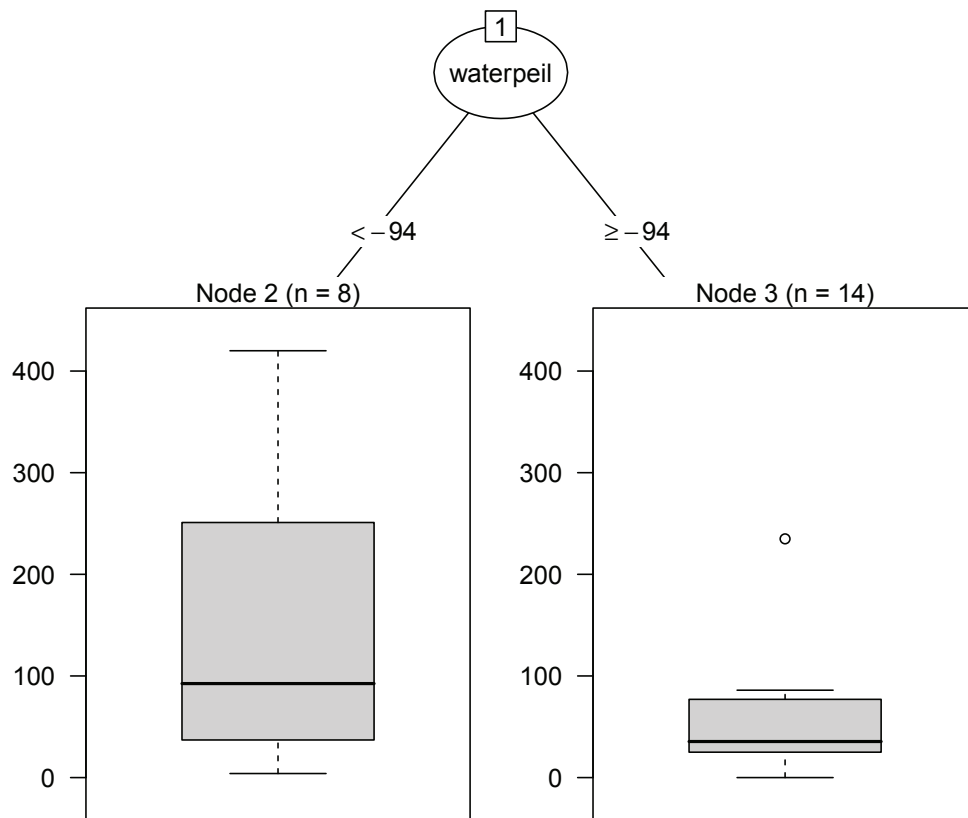
Grauwe_Gans (Ezumakeeg)



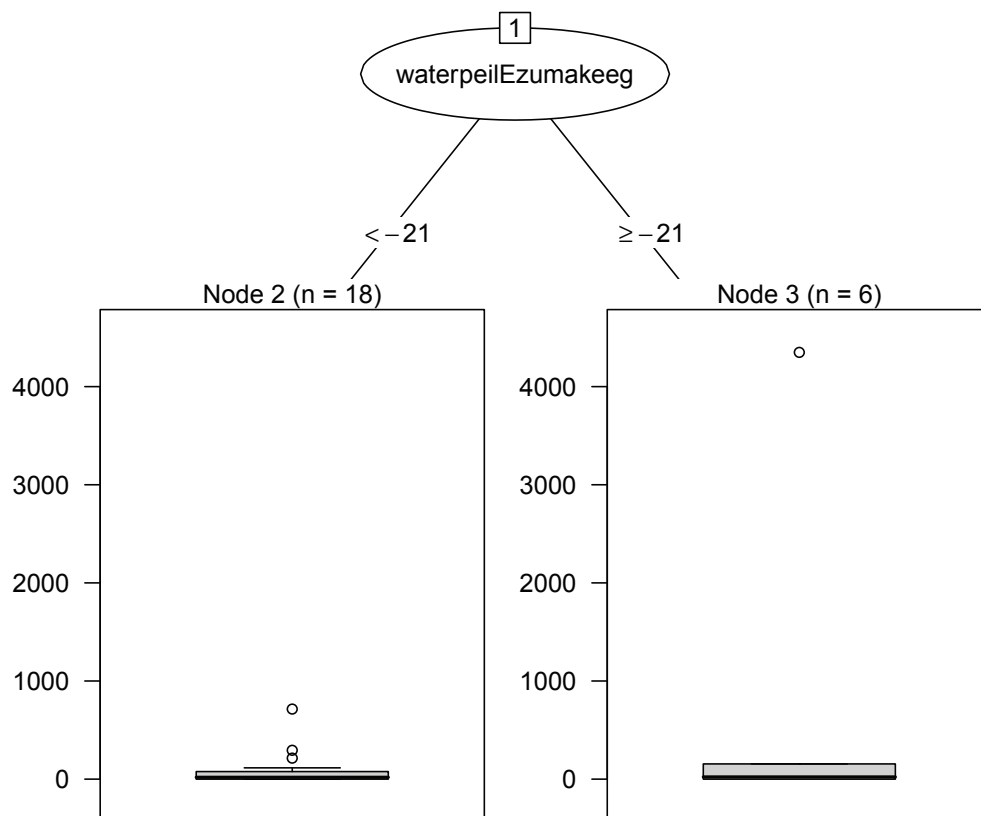
Grauwe_Gans (Oude Robbengat)



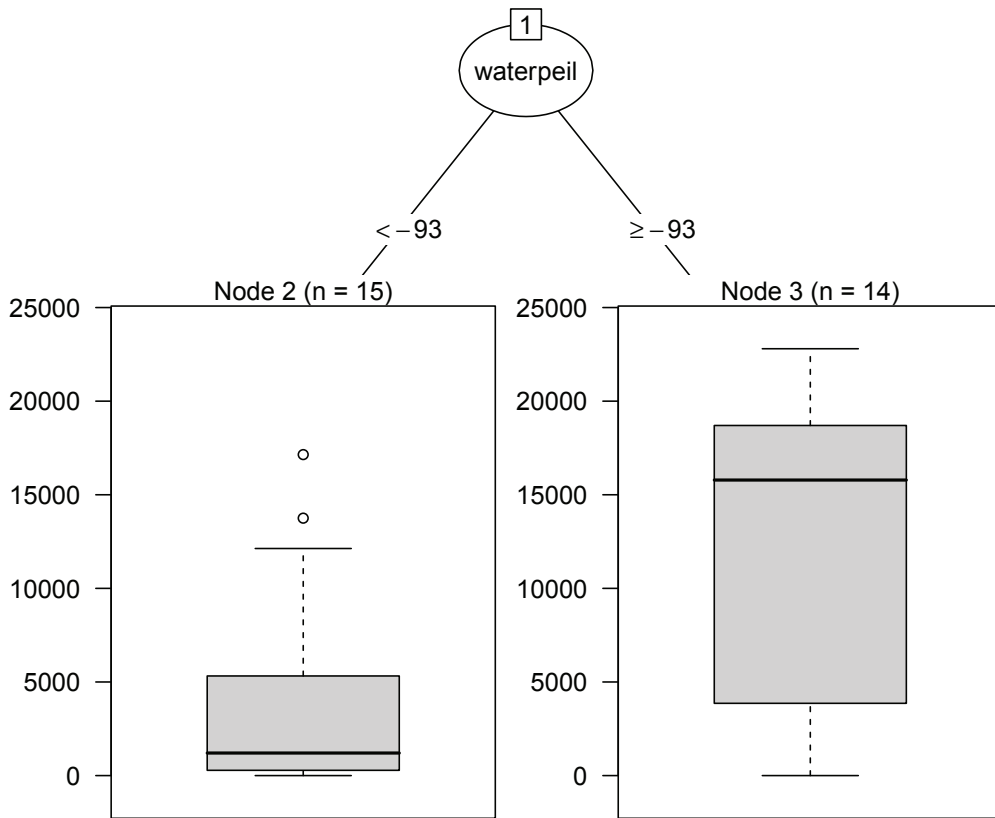
Grauwe_Gans (Nieuwe Robbengat)



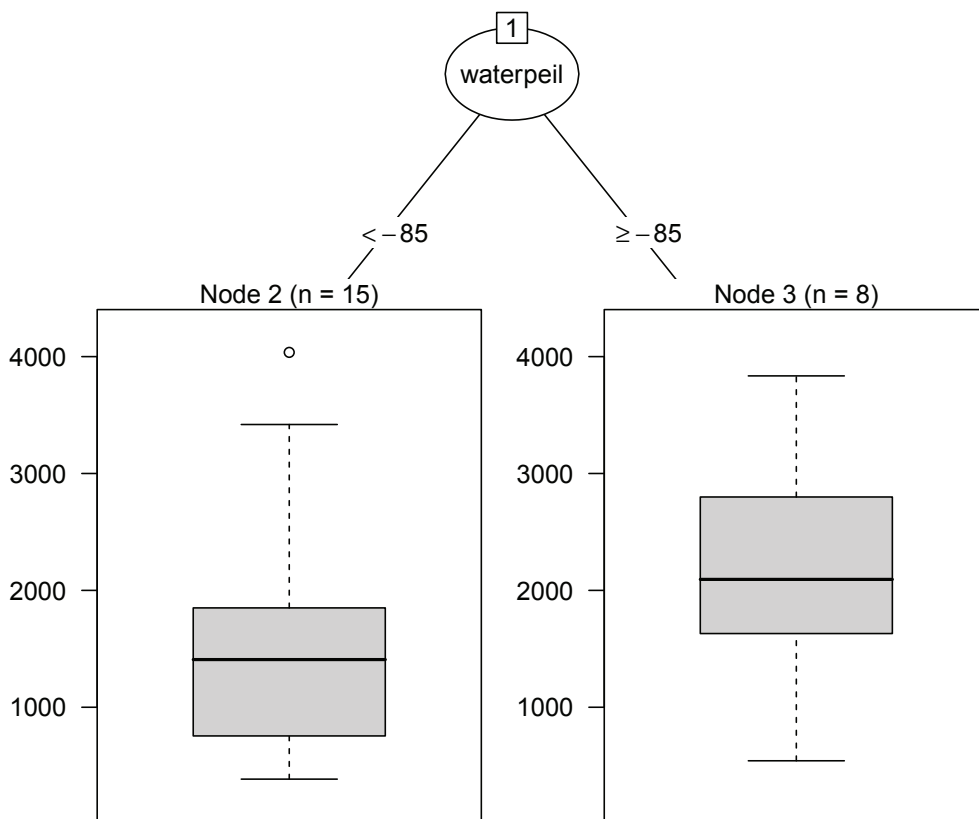
Grauwe_Gans (Vlinderbalg)



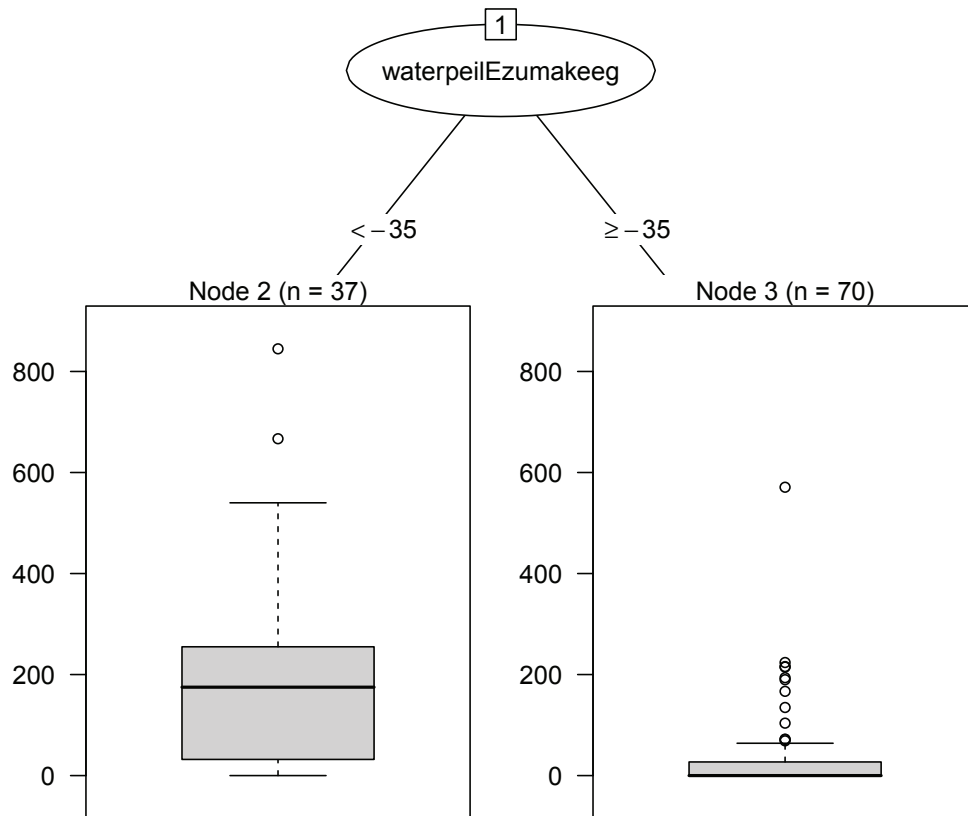
Grauwe_Gans (Jaap Deensgat)



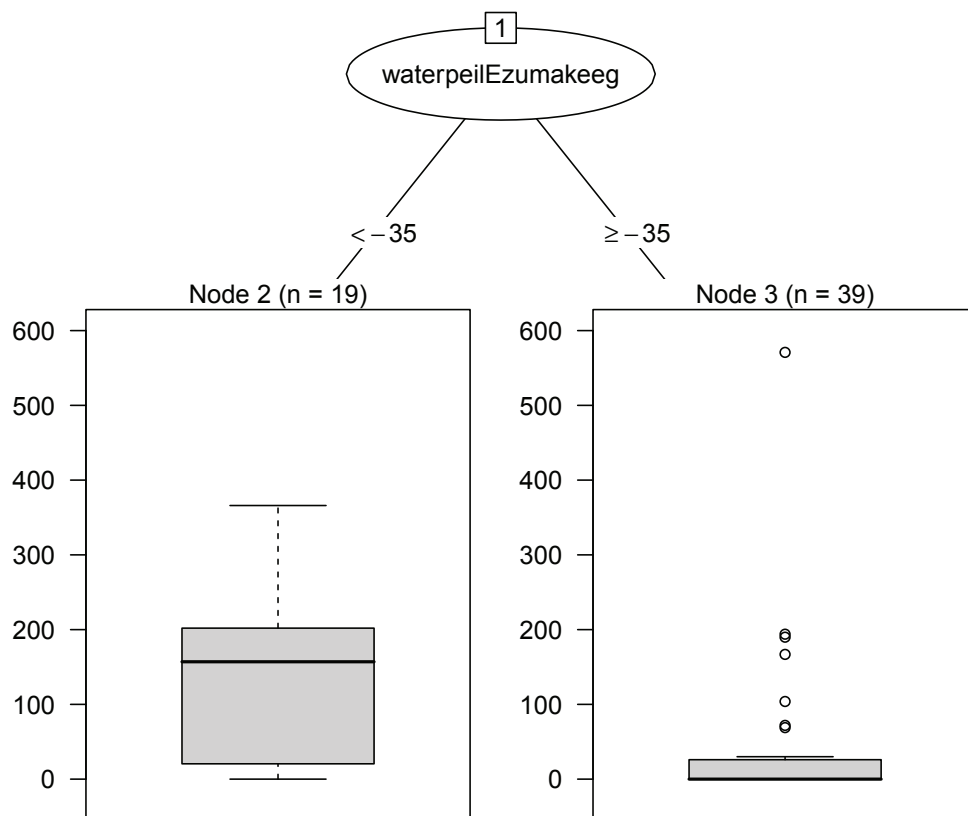
Grauwe_Gans (Kollumerwaard)



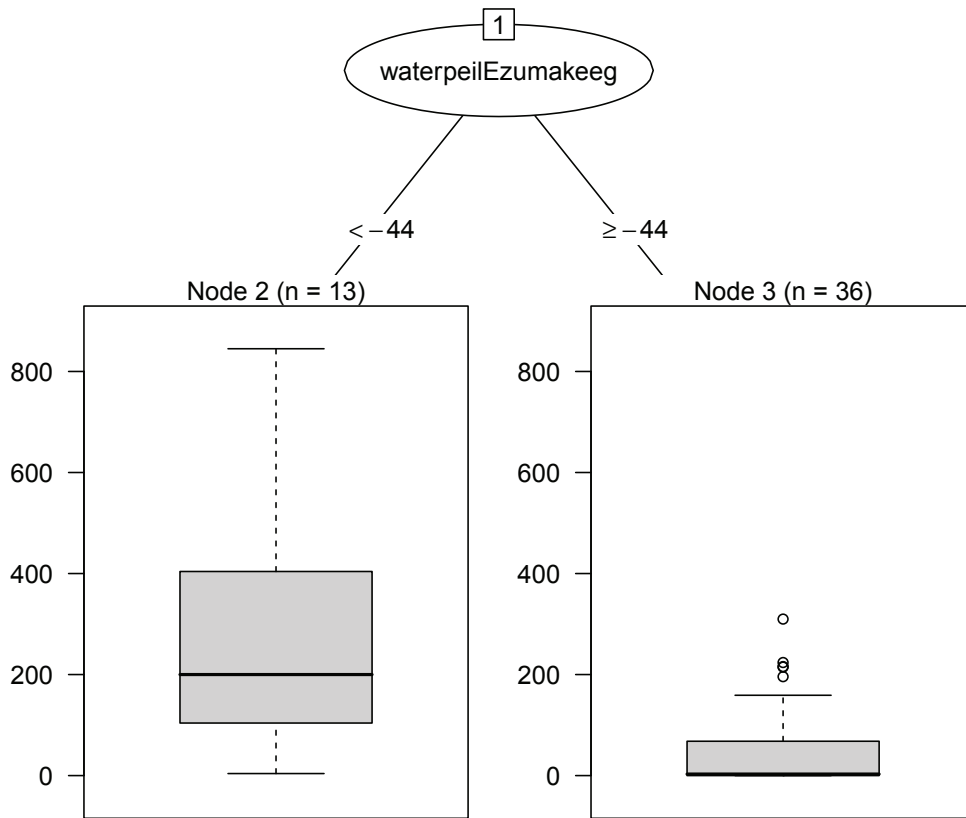
Grutto (Lauwersmeer)



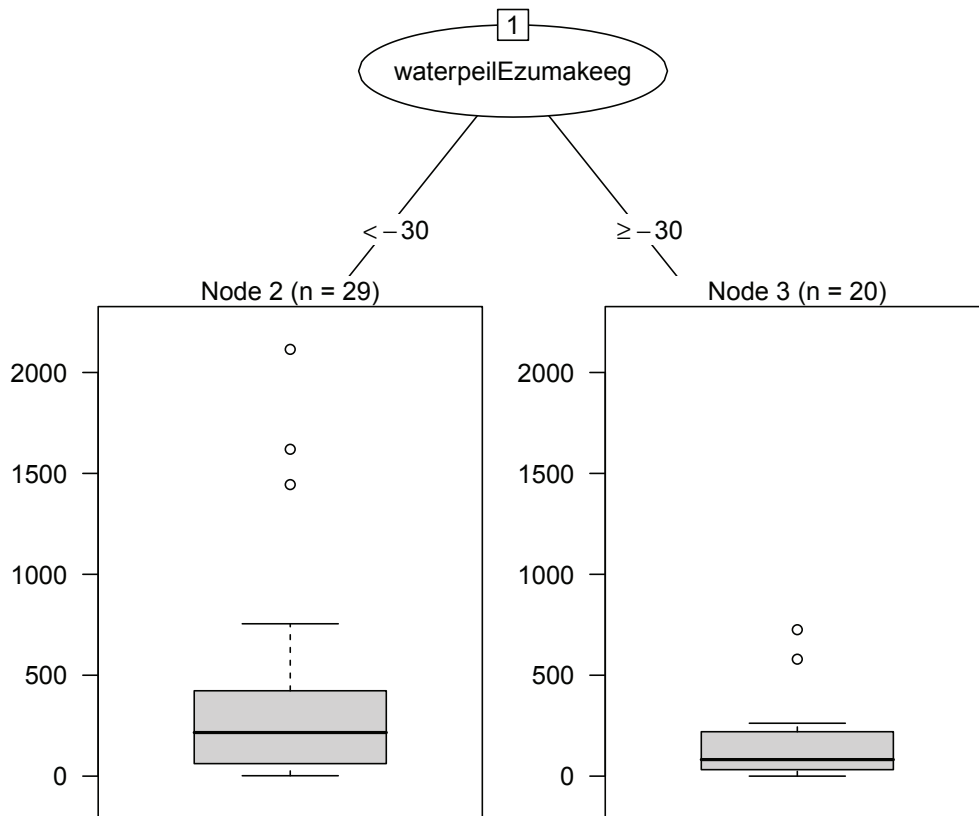
Grutto (Jaap Deensgat)



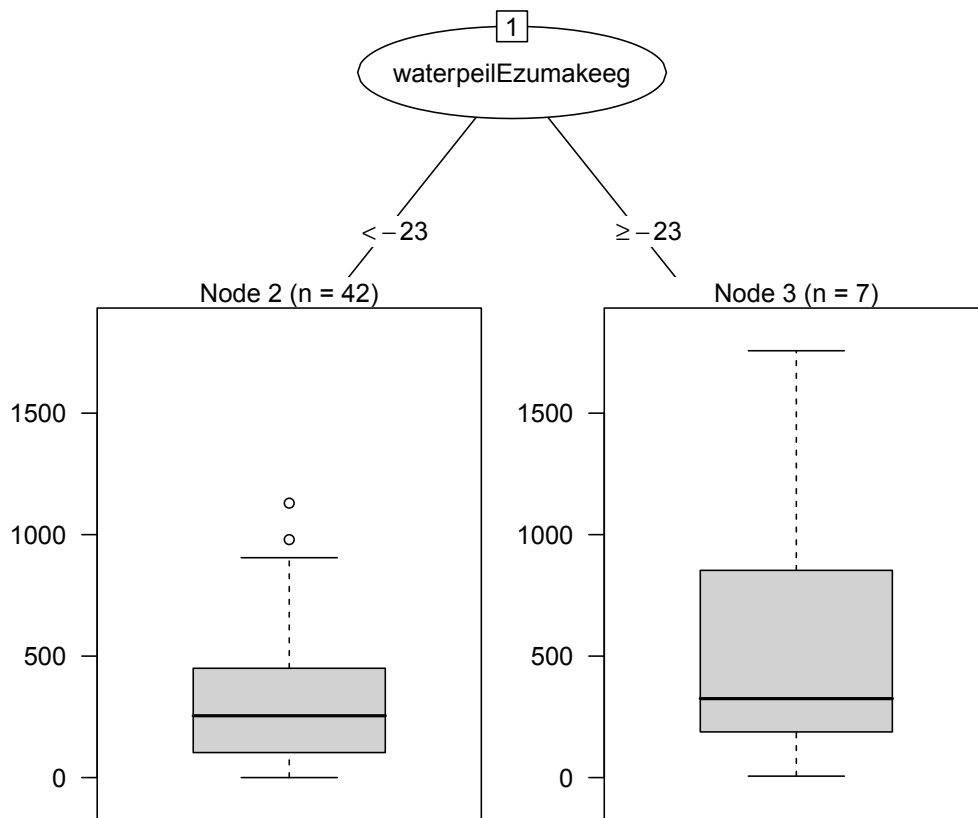
Grutto (Achter de Zwart)



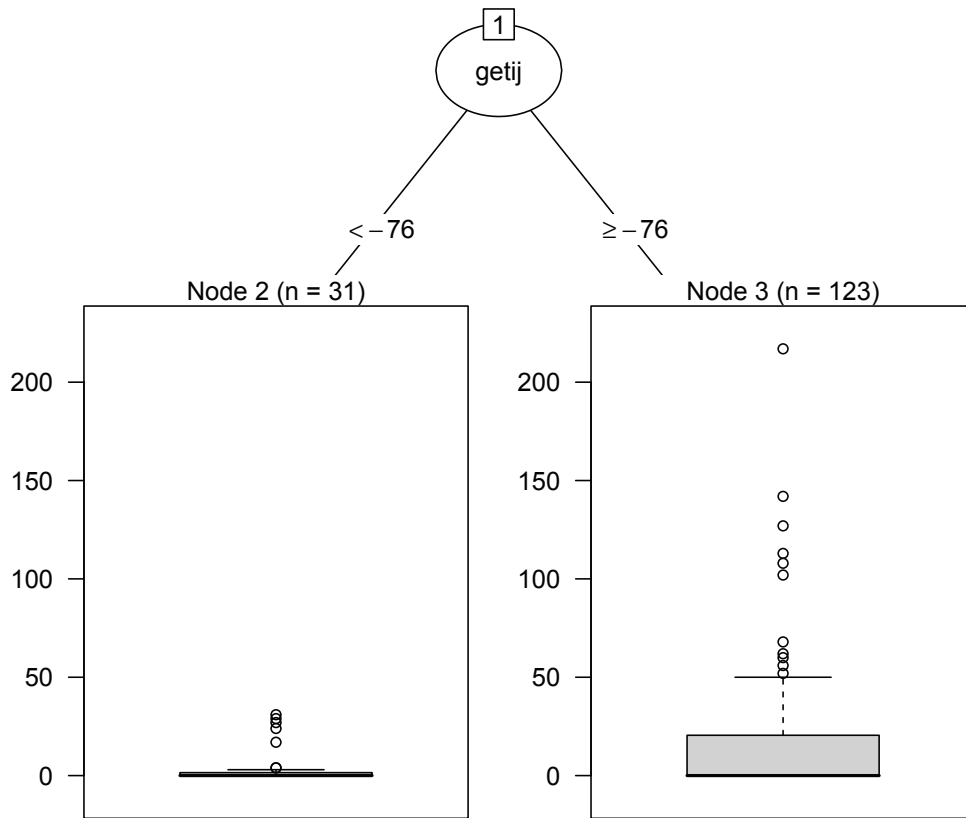
Grutto (Ezumakeeg Noord)



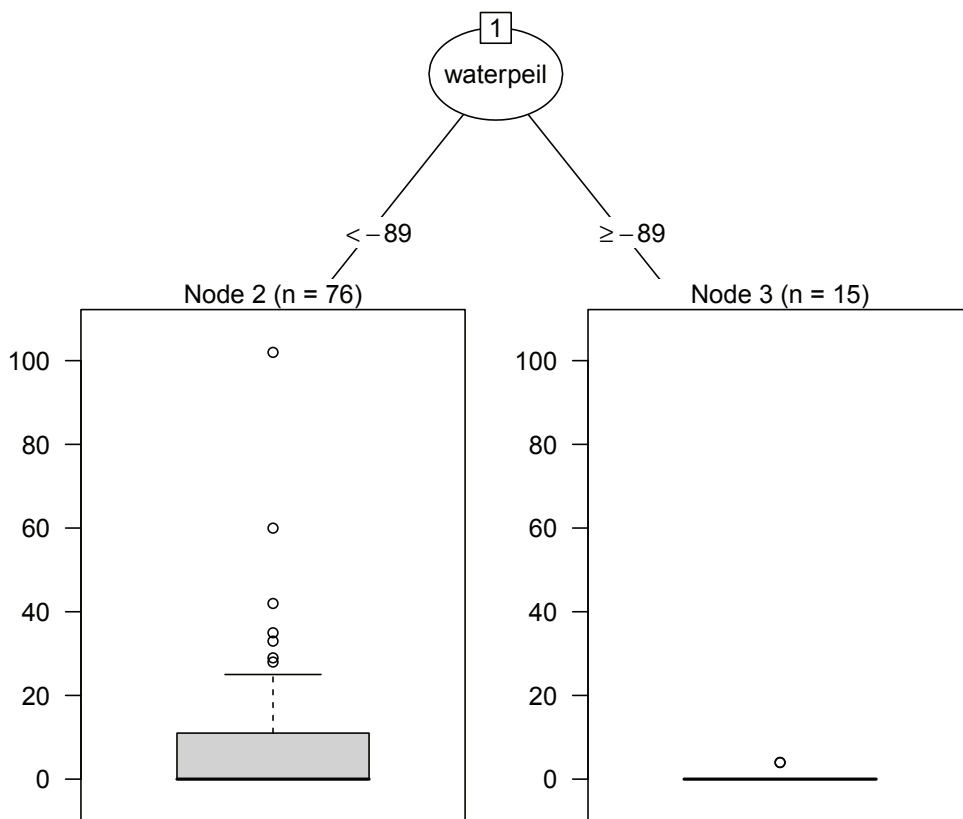
Grutto (Ezumakeeg Zuid)



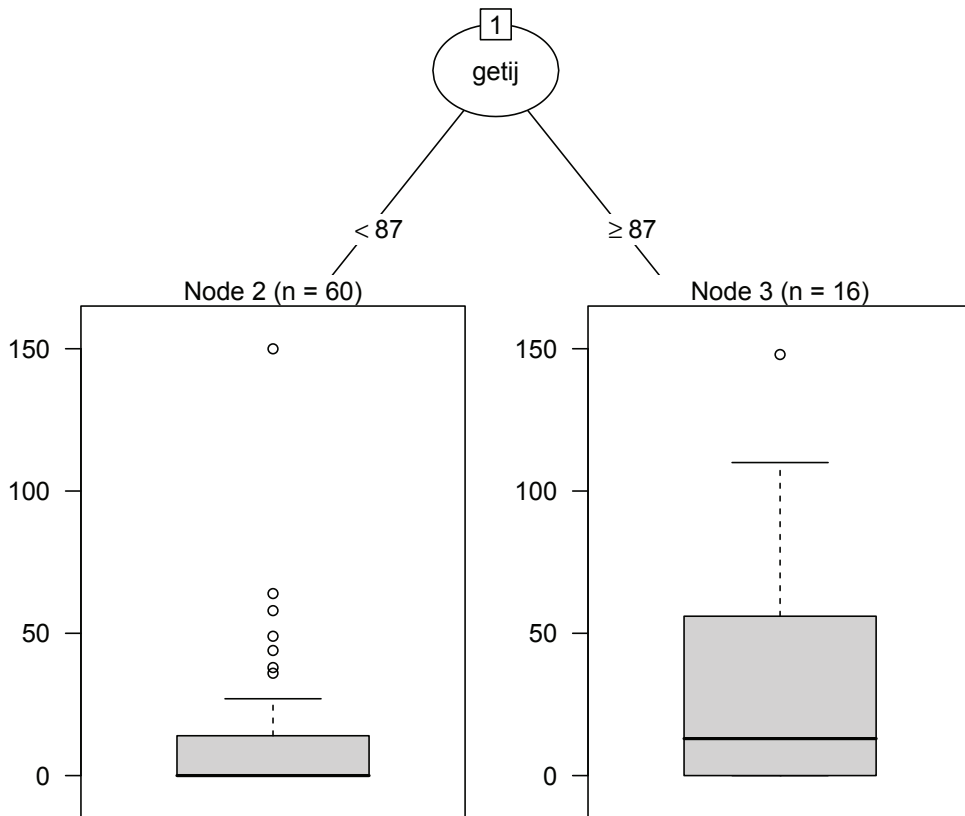
Kluut (Lauwersmeer)



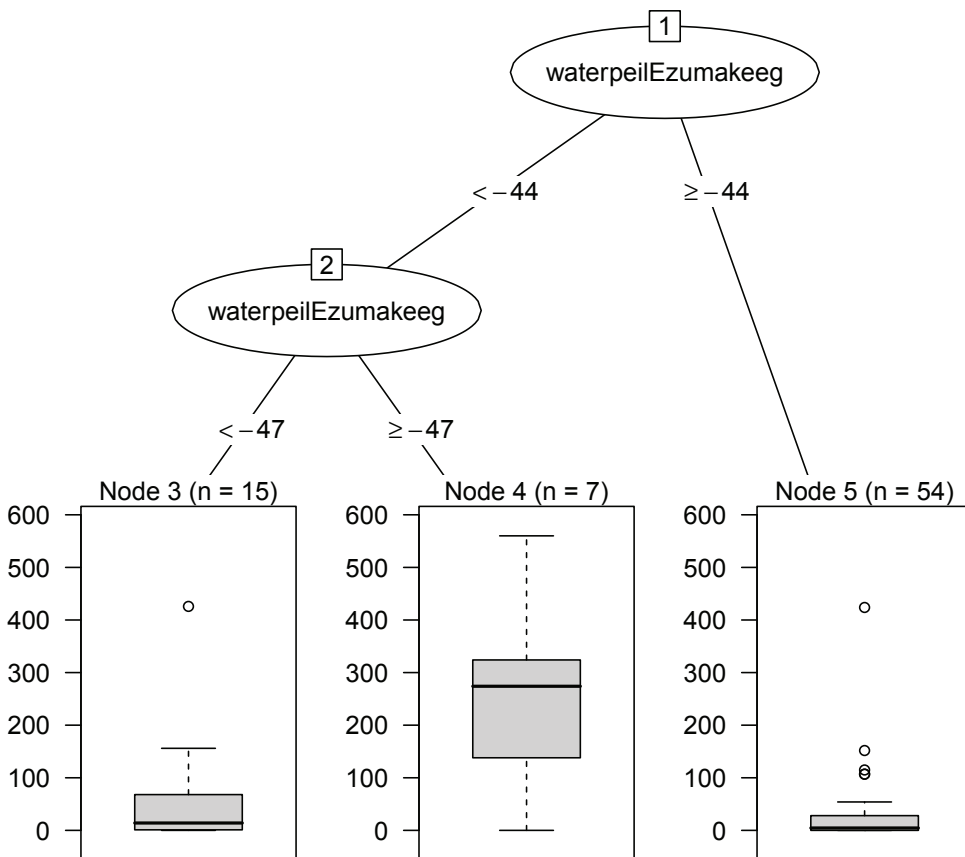
Kluut (Jaap Deensgat)



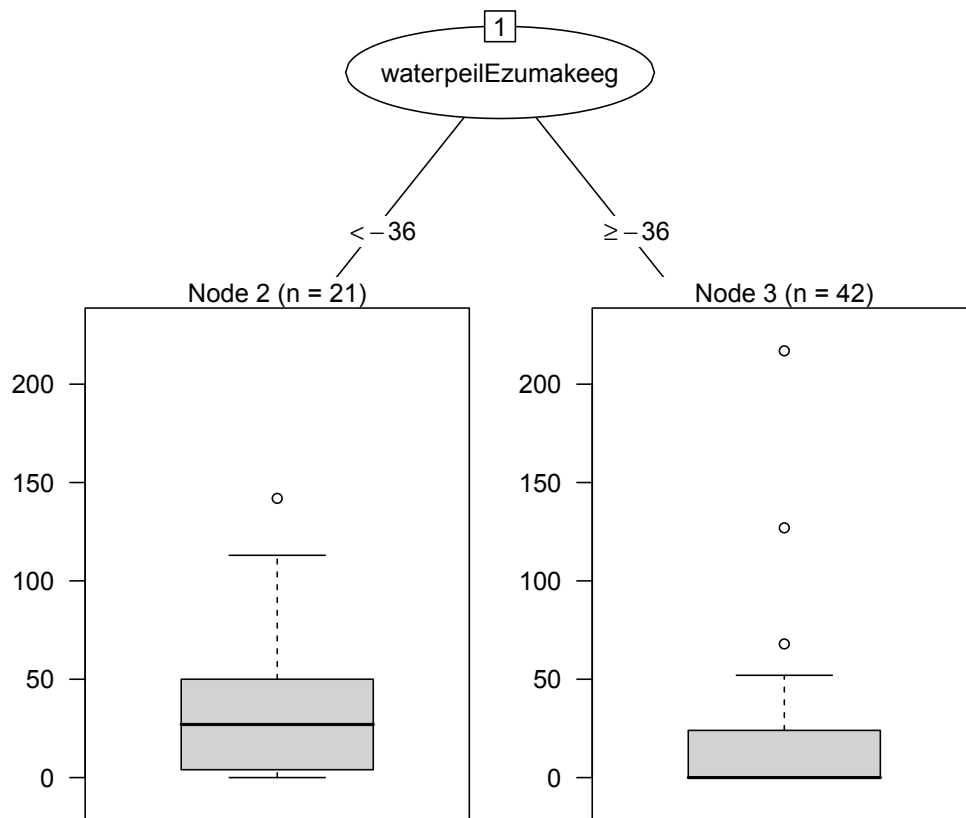
Kluut (Ezumakeeg Zuid)



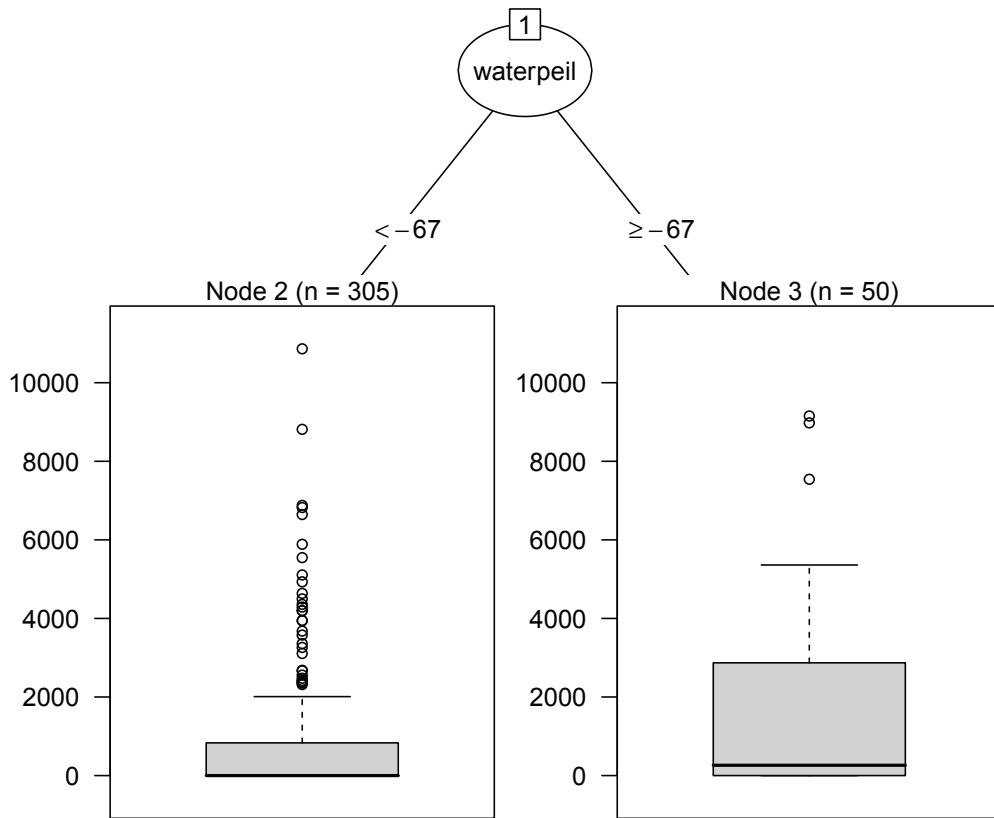
Kluut (Ezumakeeg Noord)



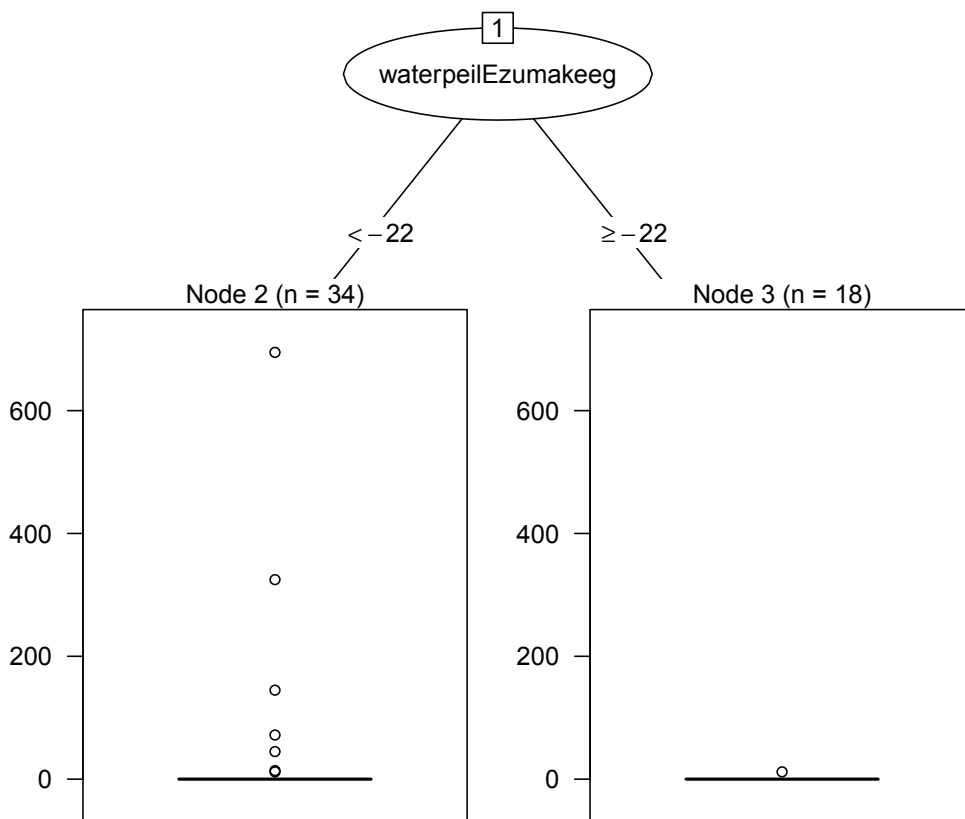
Kluut (Achter de Zwart)



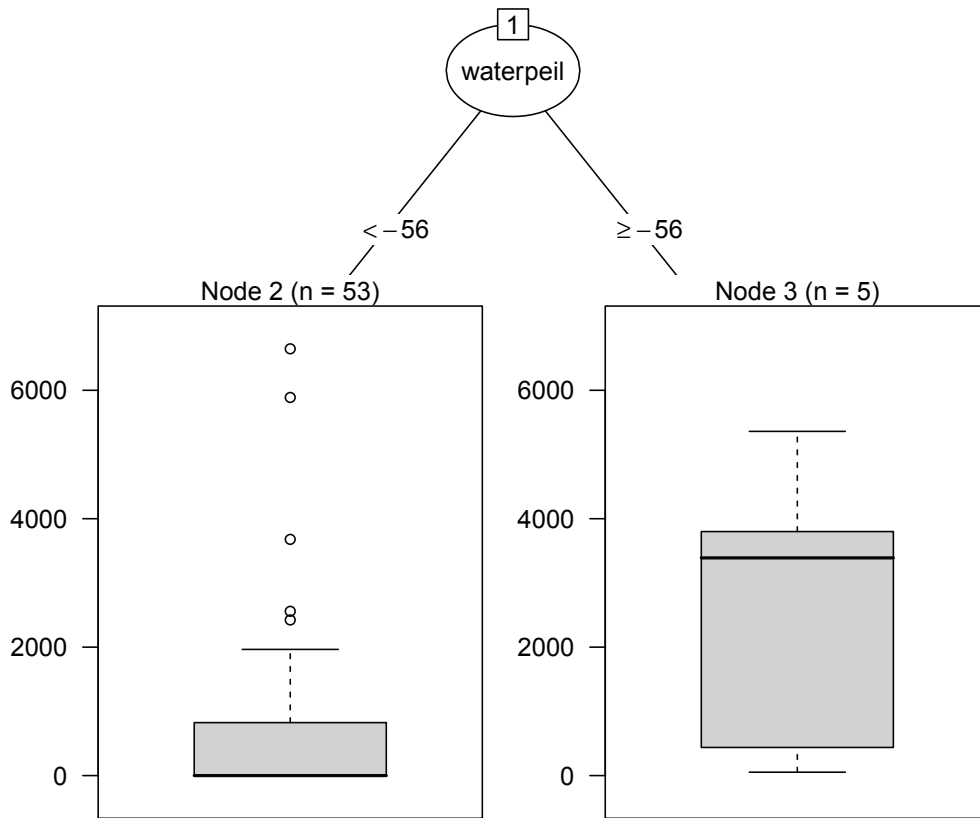
Kolgans (Lauwersmeer)



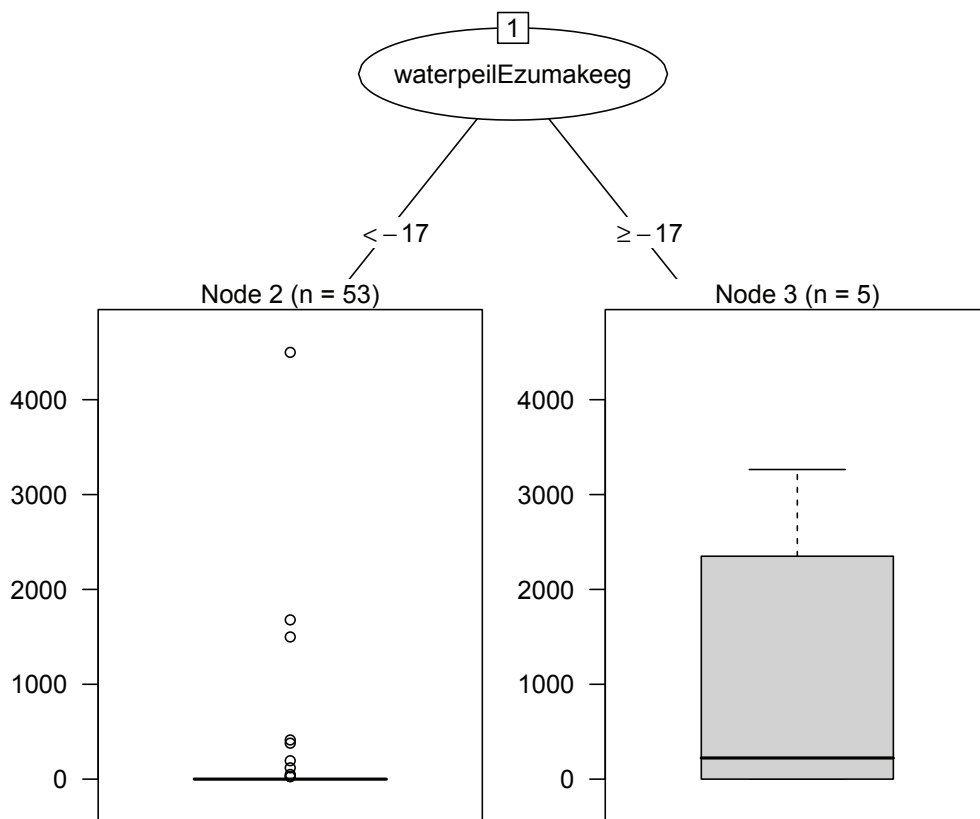
Kolgans (Nieuwe Robbengat)



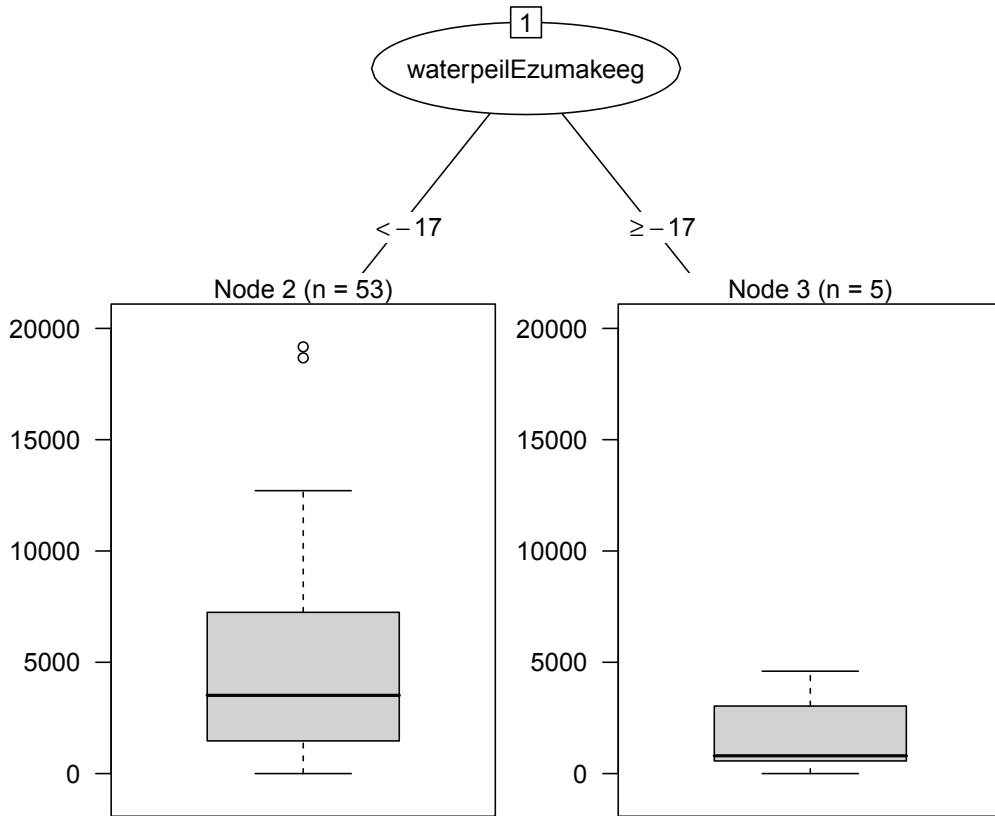
Kolgans (Oude Robbengat)



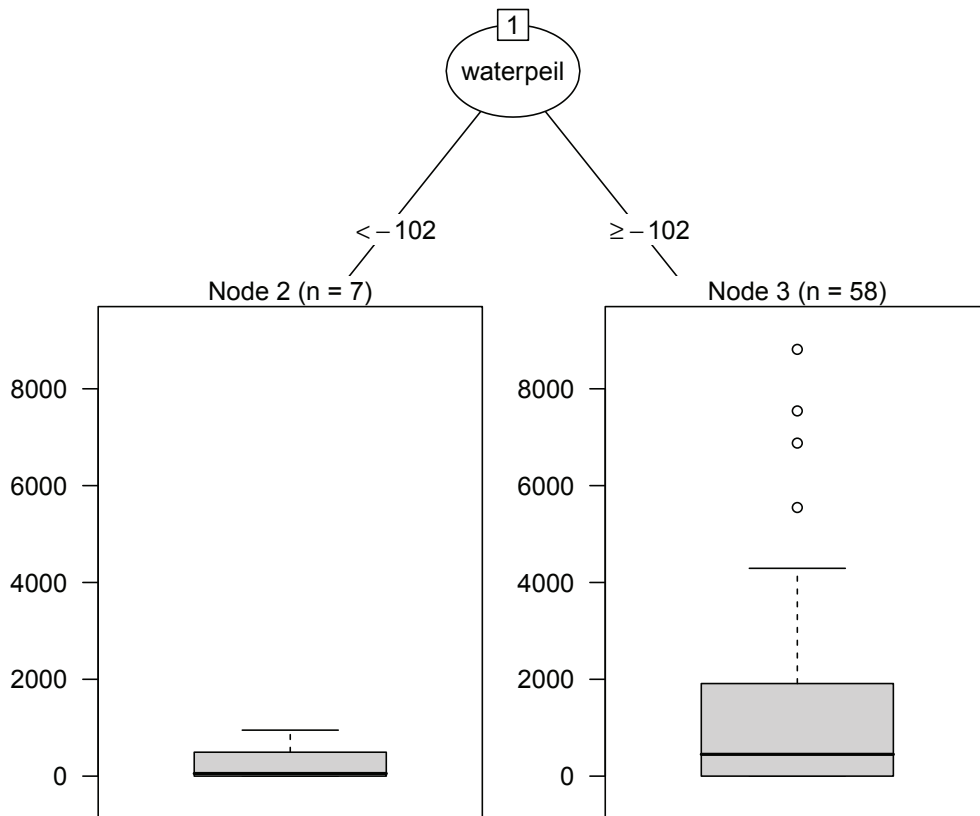
Kolgans (Vlinderbalg)



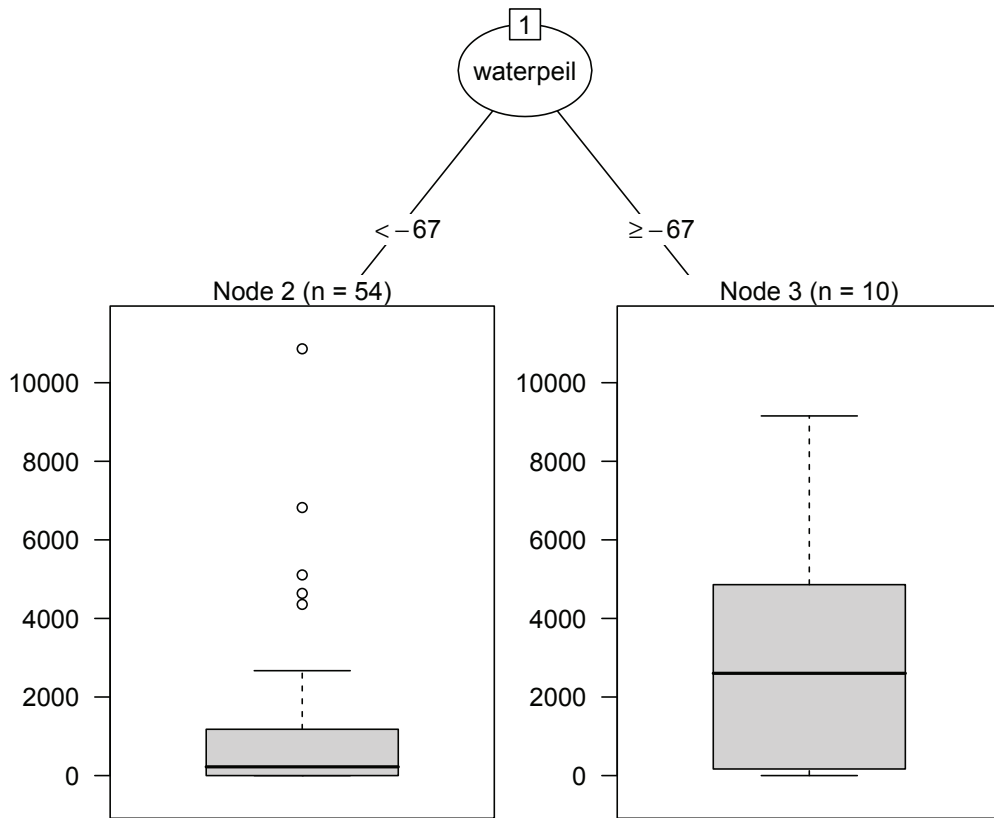
Kolgans (Ezumakeeg)



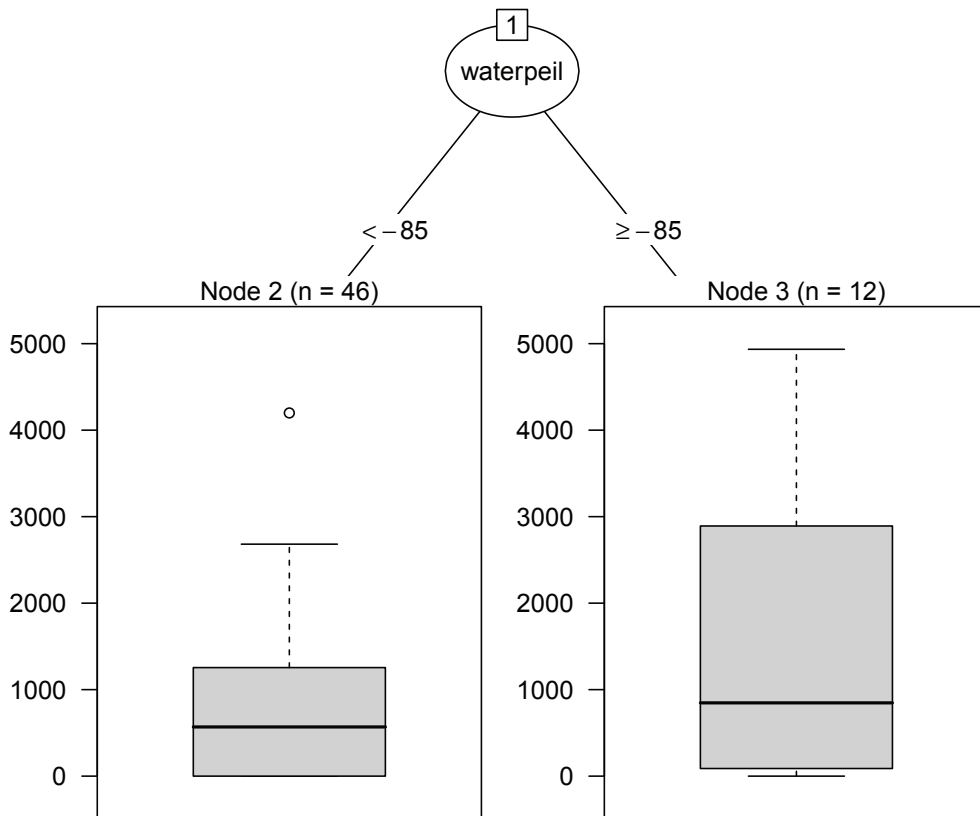
Kolgans (Jaap Deensgat)



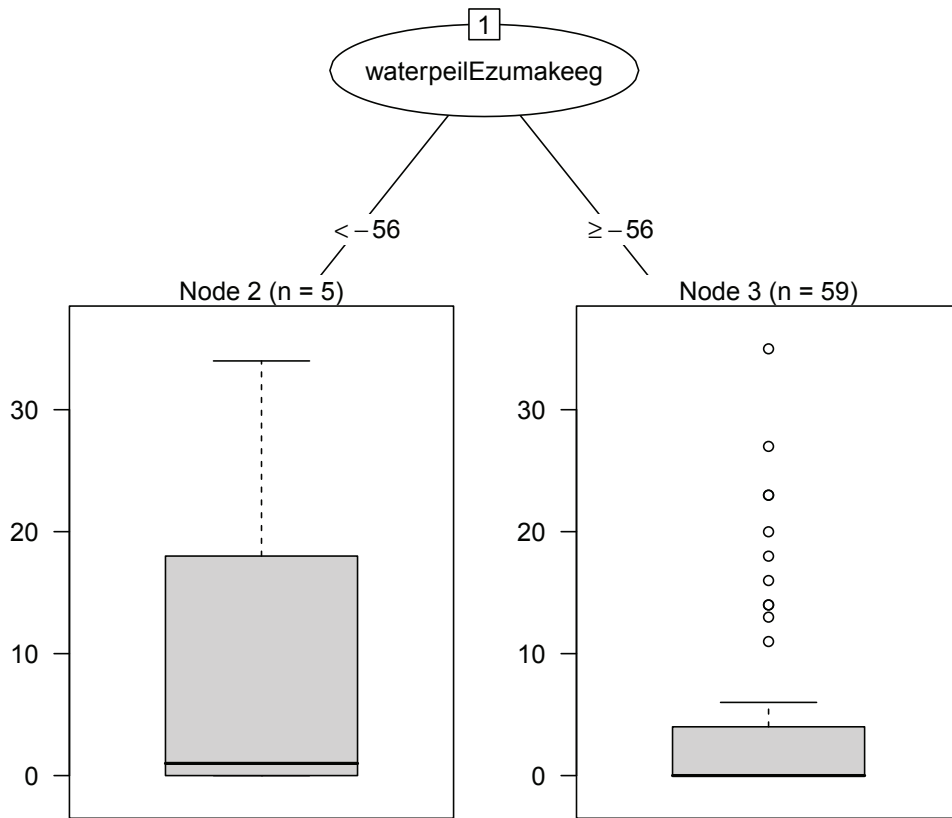
Kolgans (Achter de Zwart)



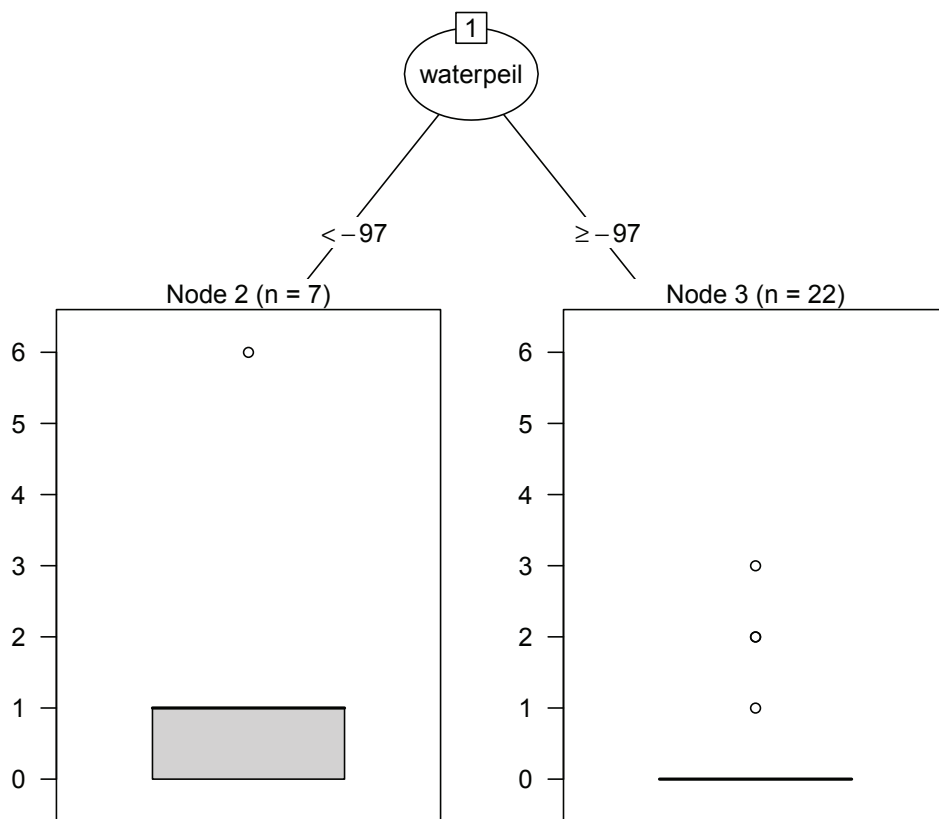
Kolgans (Kollumerwaard)



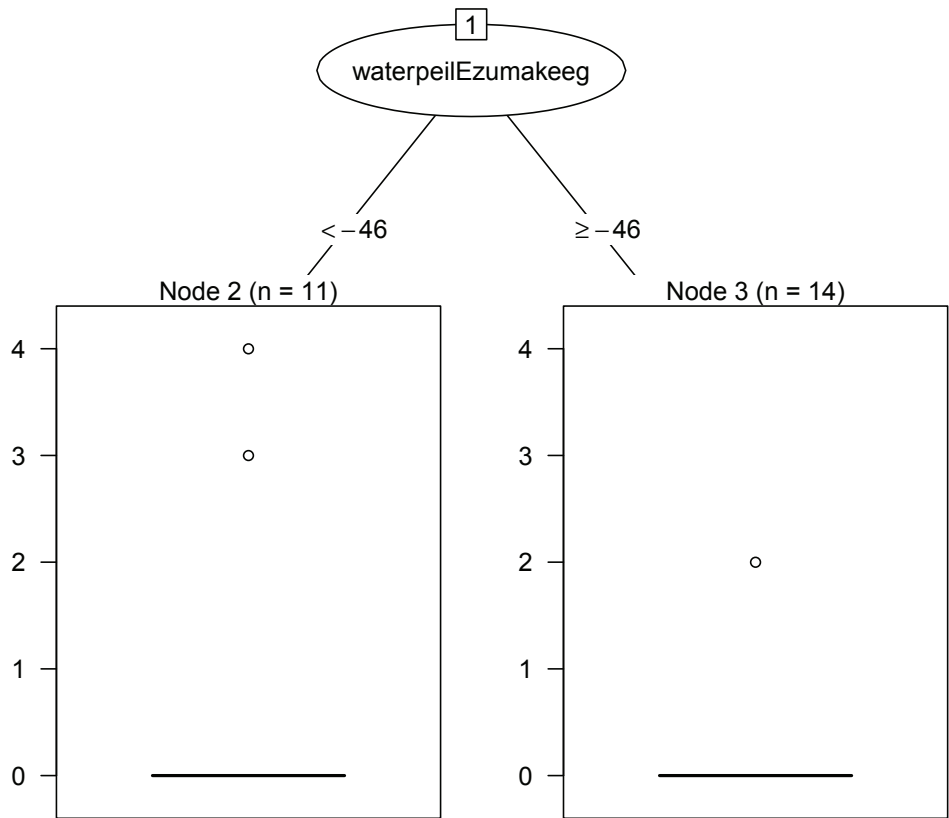
Reuzenster (Lauwersmeer)



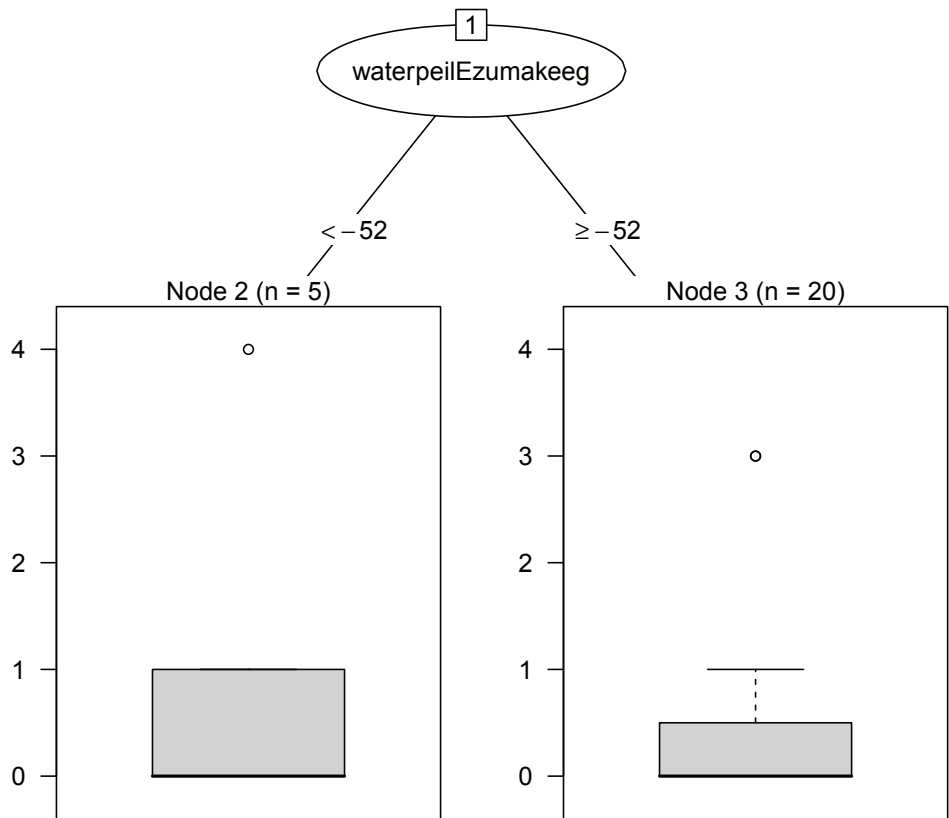
Reuzenster (Jaap Deensgat)



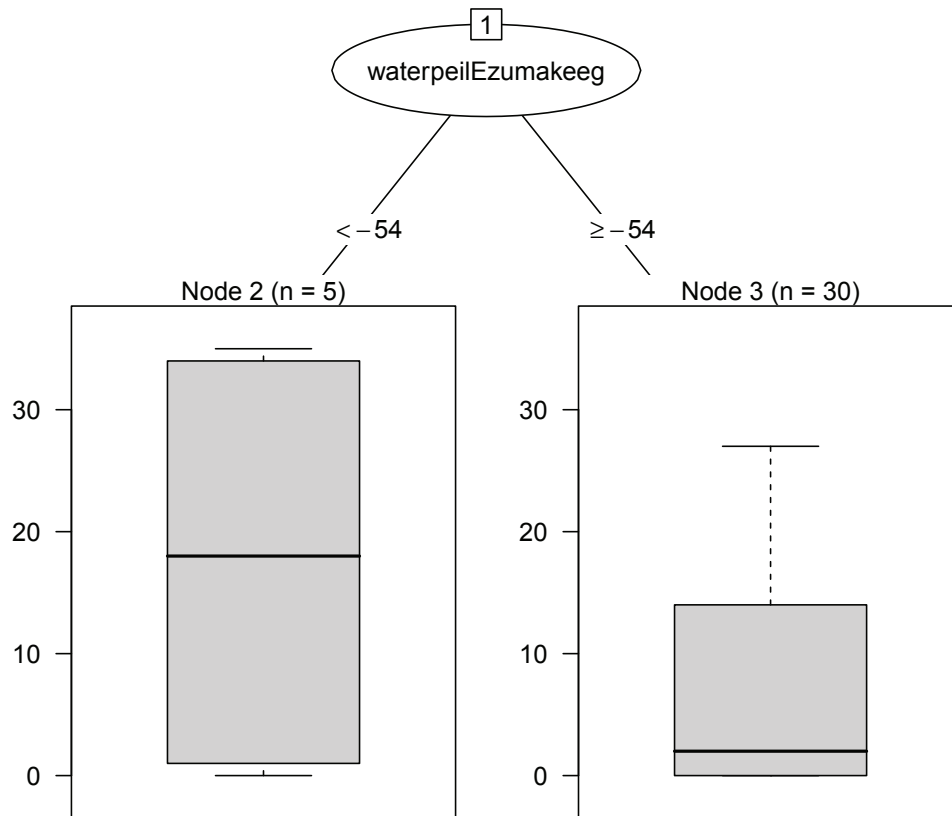
Reuzenster (Ezumakeeg Zuid)



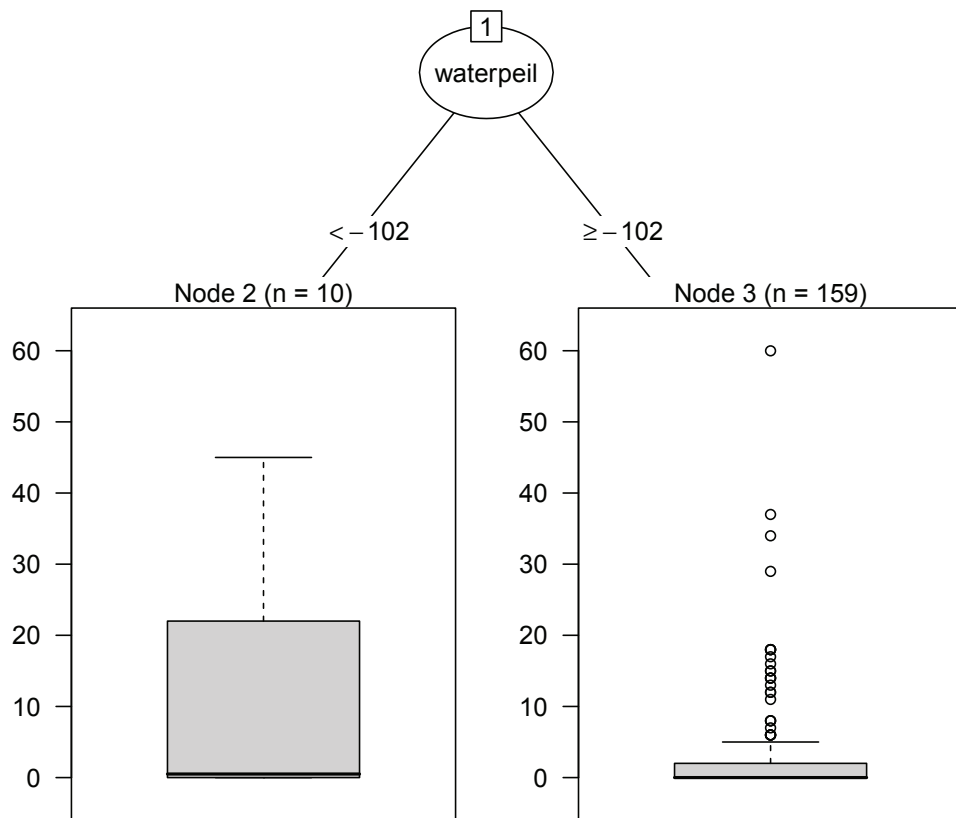
Reuzenster (Ezumakeeg Noord)



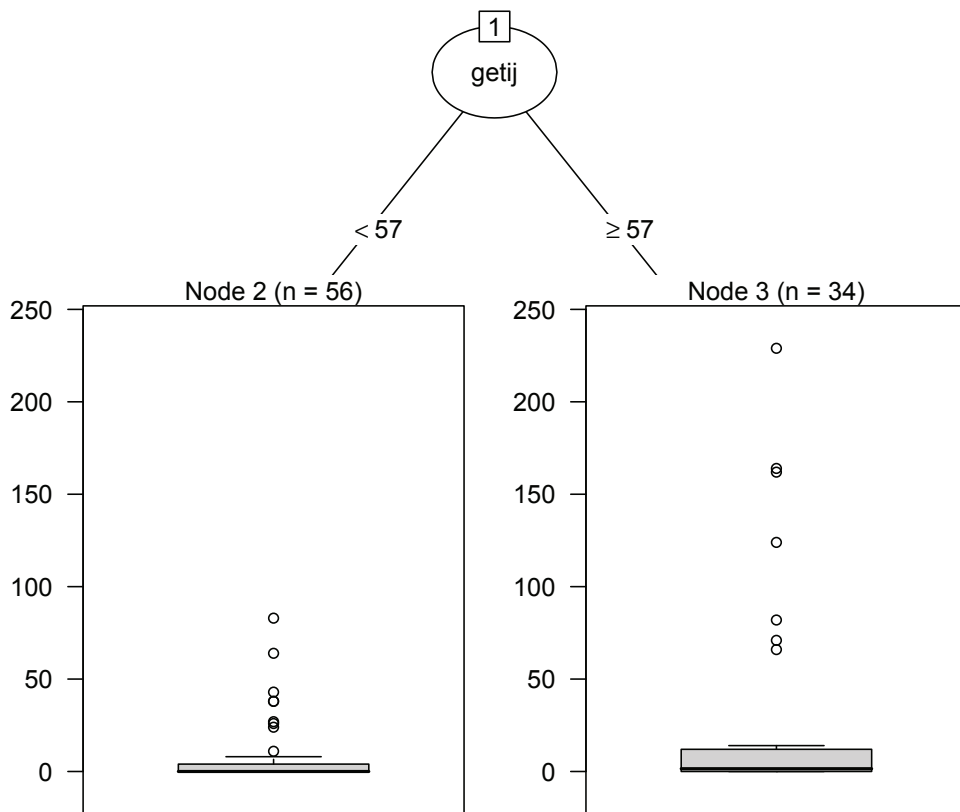
Reuzenster (Achter de Zwart)



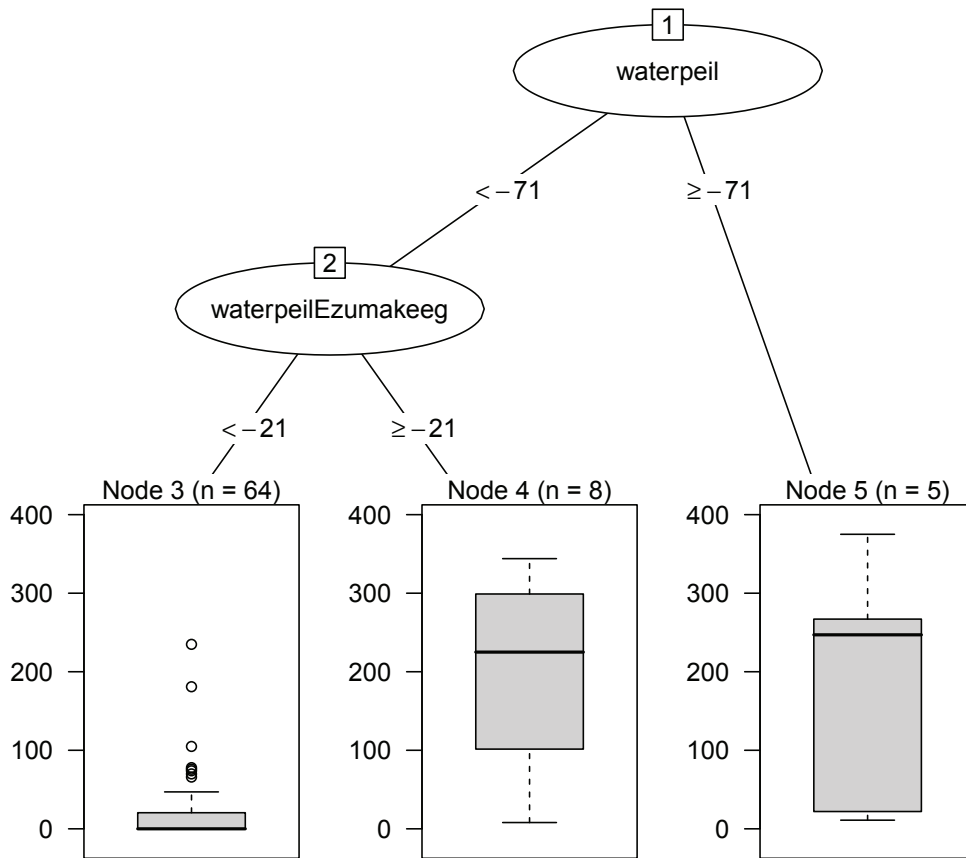
Wulp (Lauwersmeer)



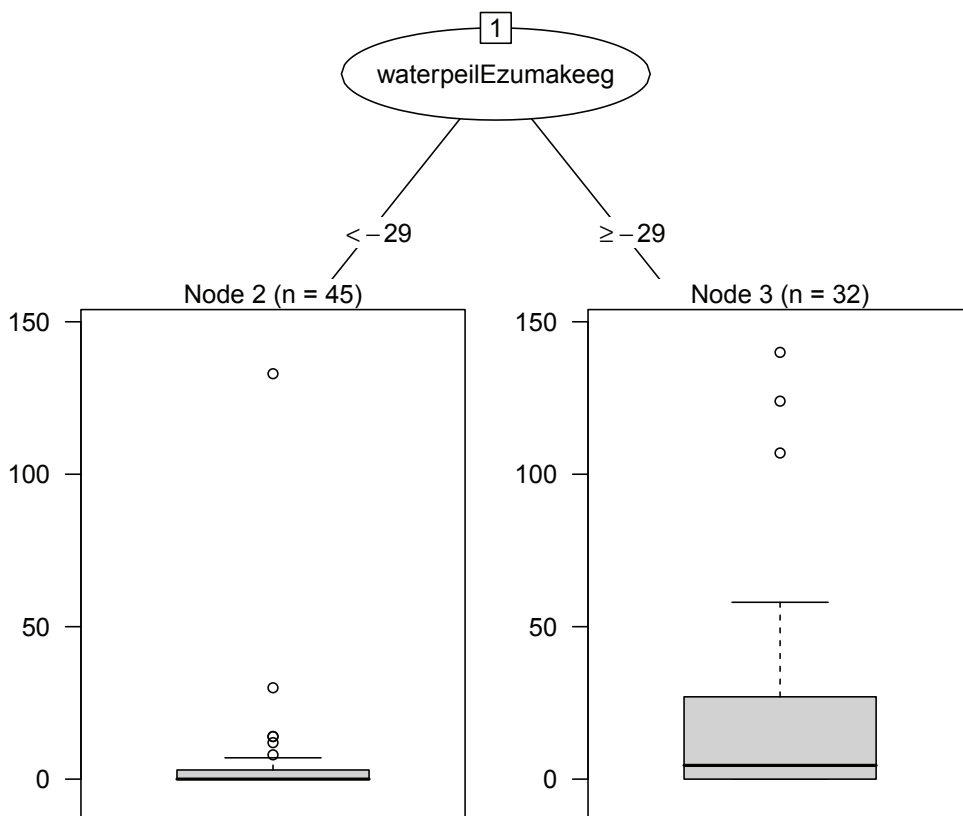
Zwarte_Ruiter (Lauwersmeer)



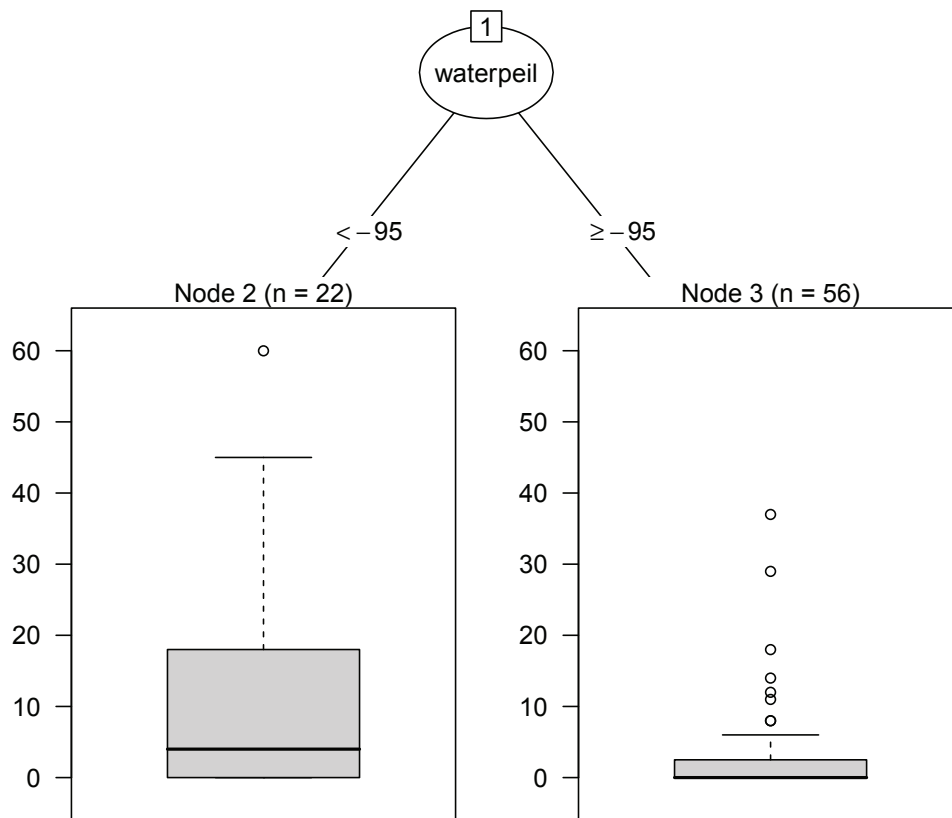
Wulp (Ezumakeeg Zuid)



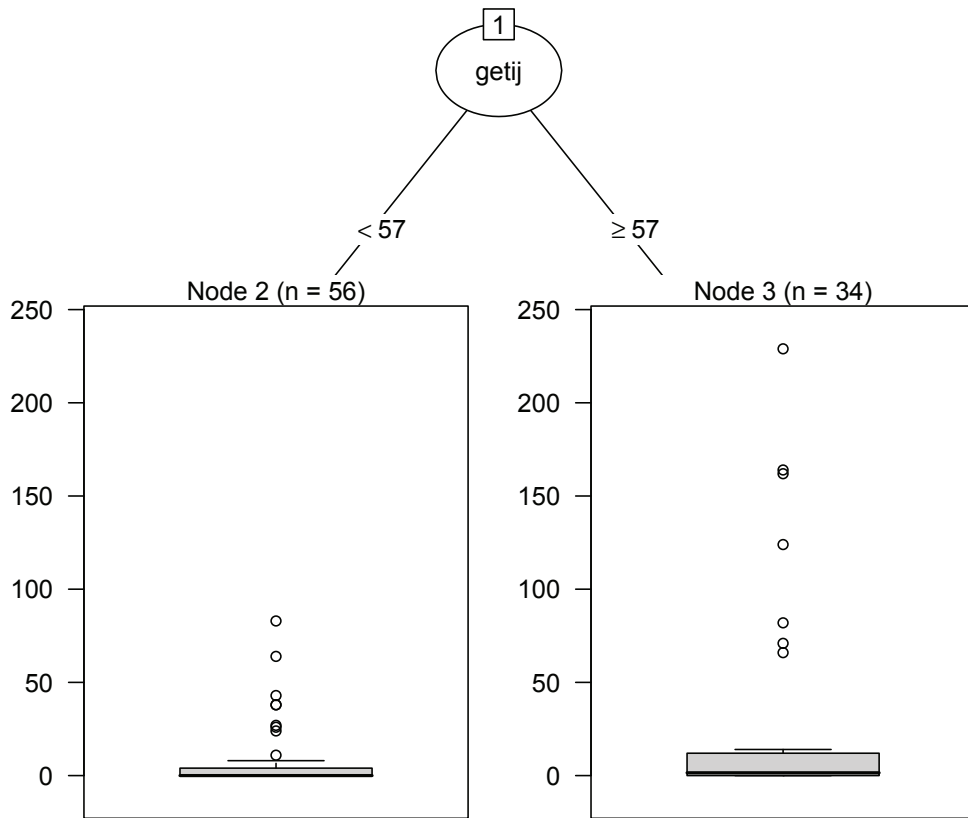
Wulp (Ezumakeeg Noord)



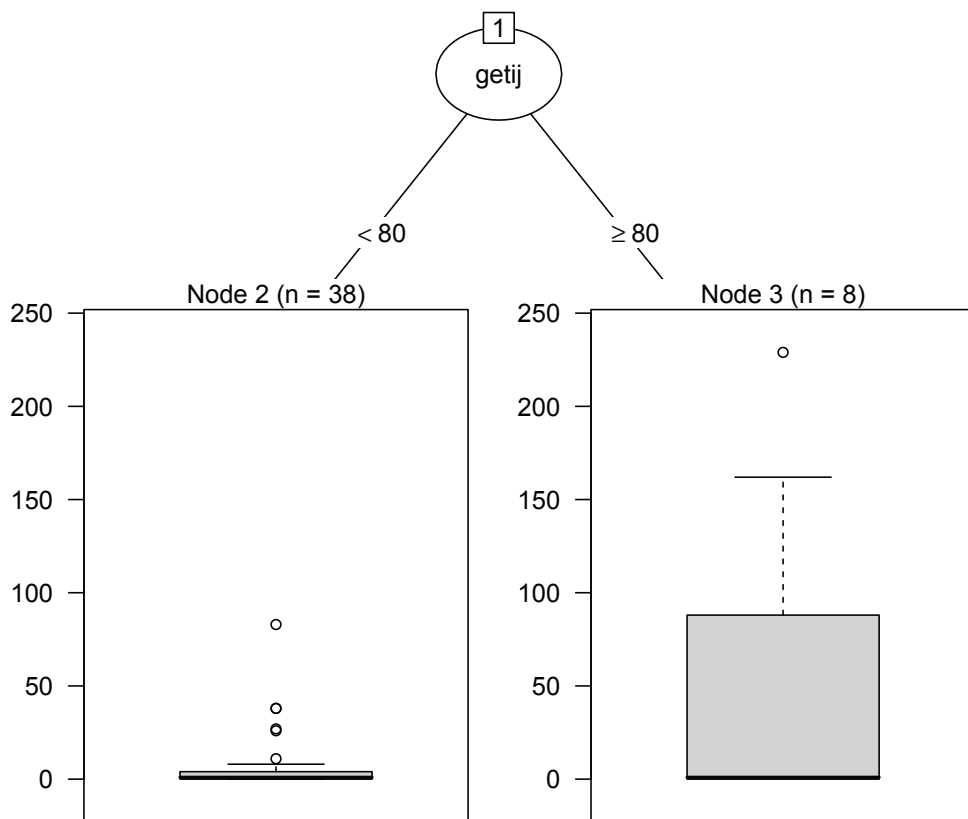
Wulp (Achter de Zwarten)



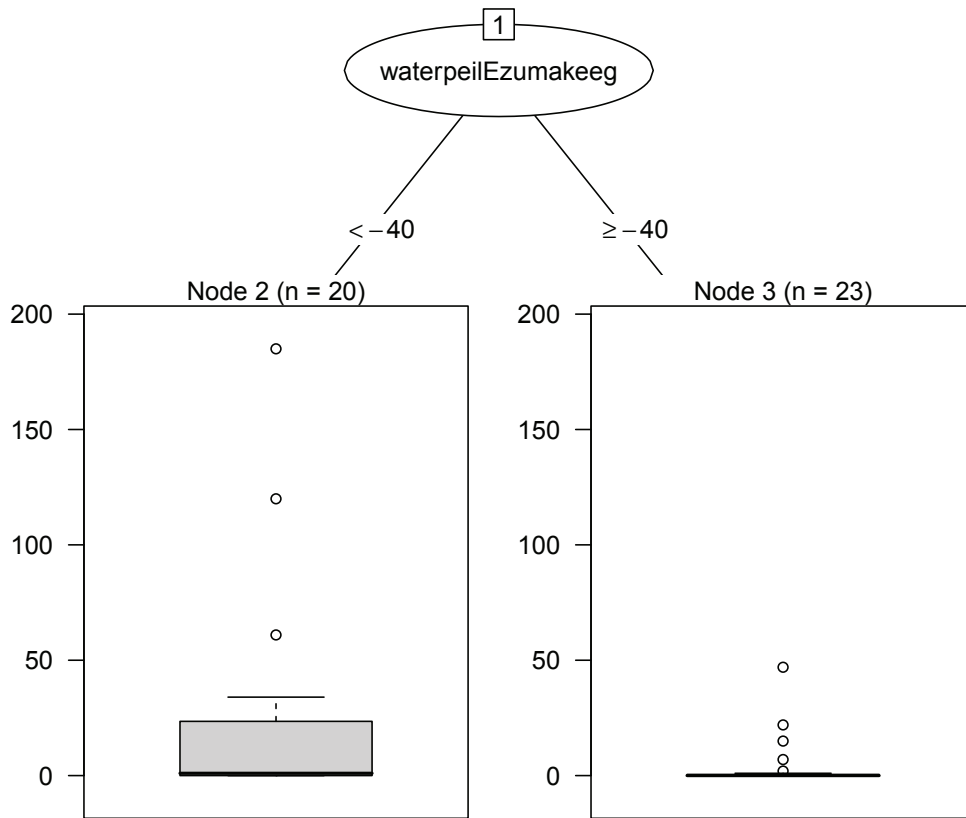
Zwarte_Ruiter (Lauwersmeer)



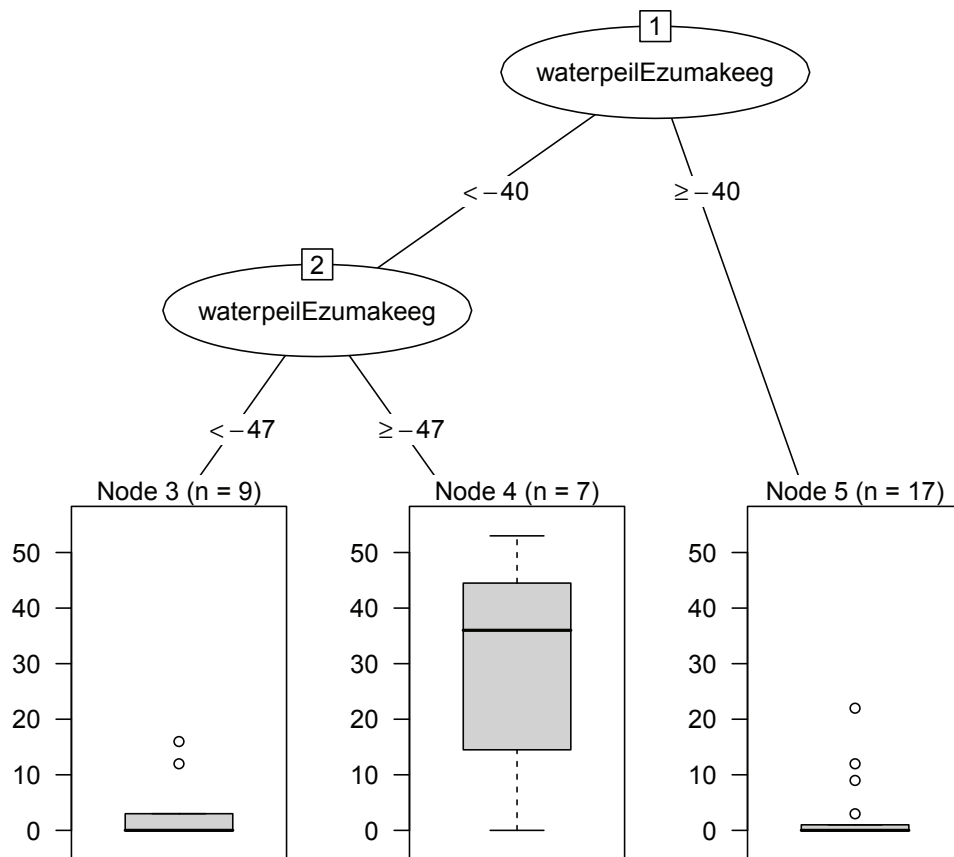
Zwarte_Ruiter (Jaap Deensgat)



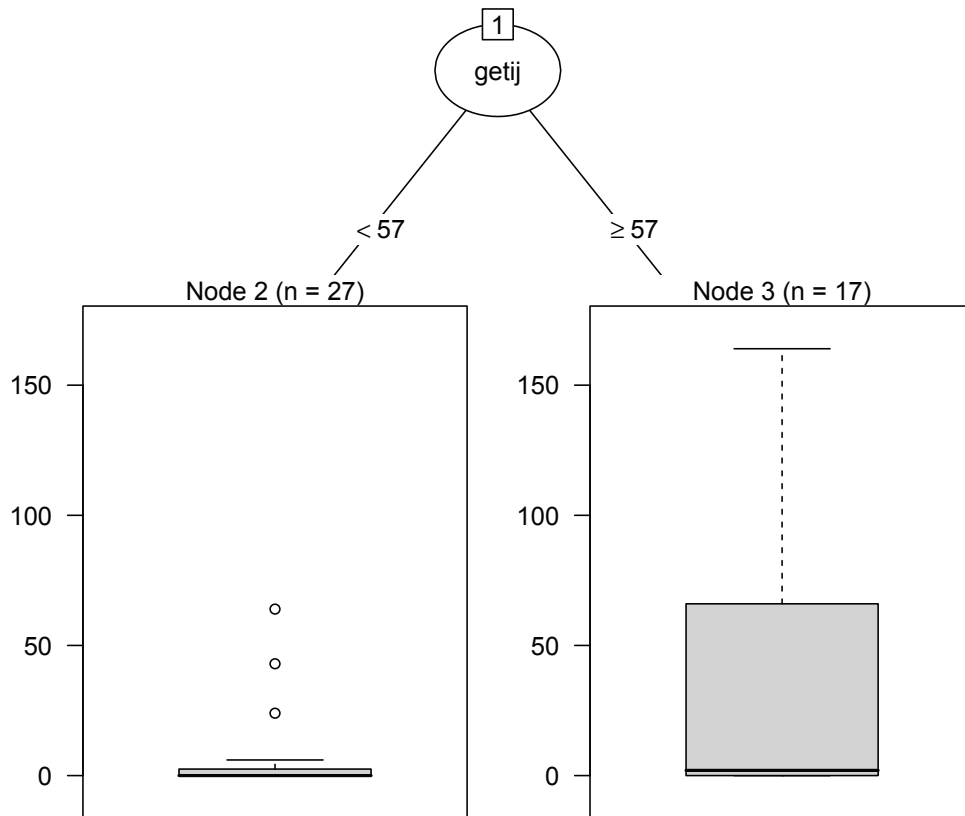
Zwarte_Ruiter (Ezumakeeg Zuid)



Zwarte_Ruiter (Ezumakeeg Noord)

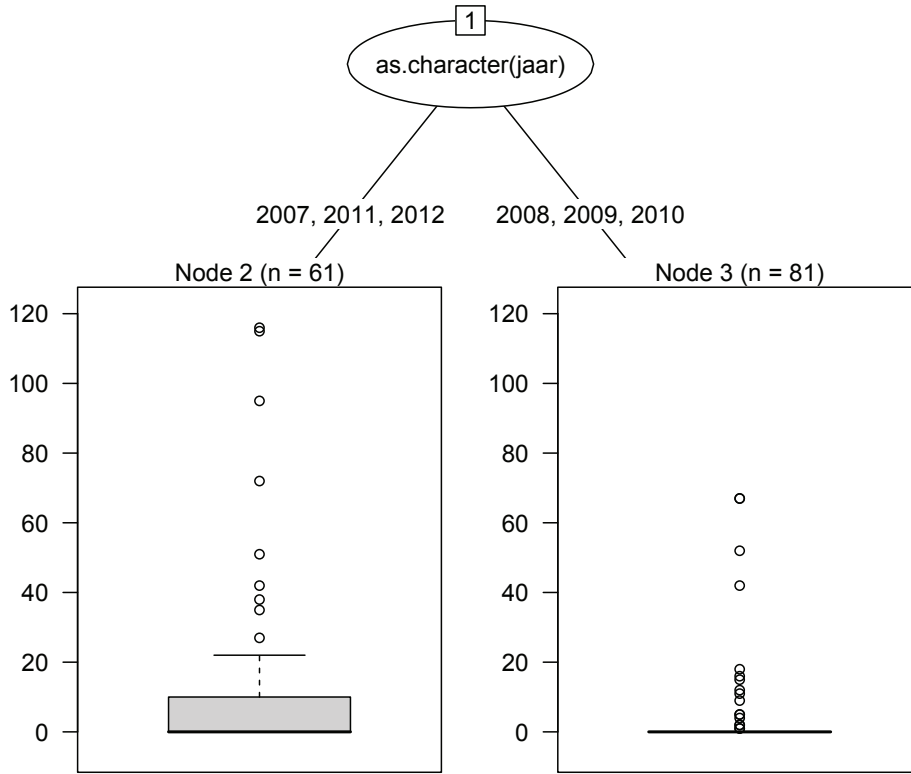


Zwarte_Ruiter (Achter de Zwartten)

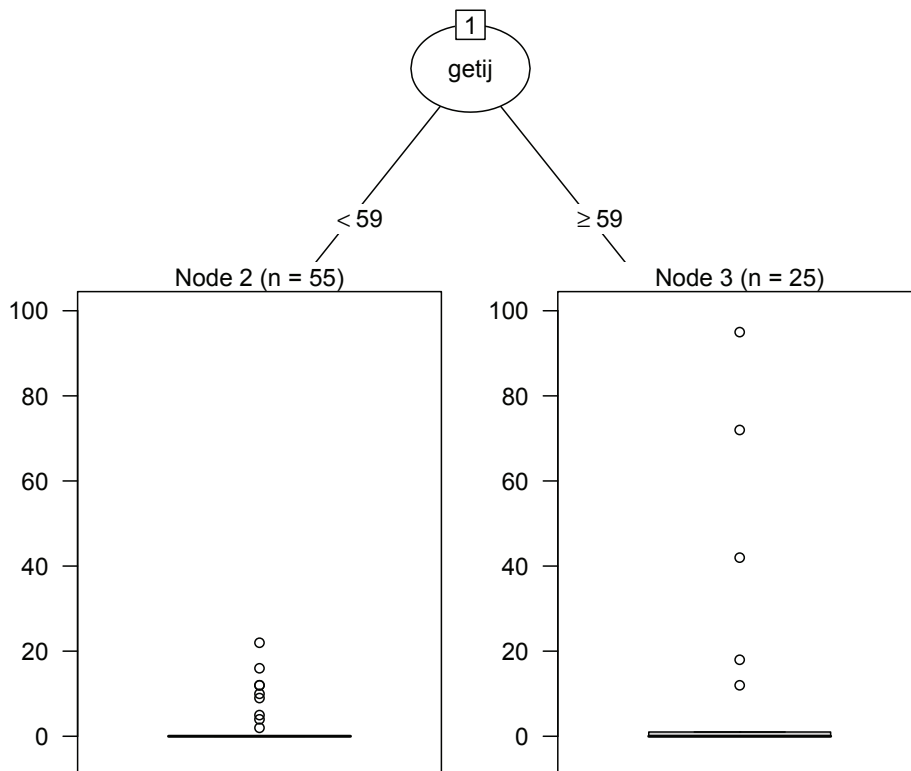


Bijlage 13e. Regressiebomen voor 9 soorten op slaappleatsen met naast de waterstanden van Lauwersmeer, Ezumakeeg en Waddenzee als verklarende variabelen ook jaar (voor steltlopers), seizoen (voor ganzen) en ijsbedekking (voor ganzen) als variabelen.

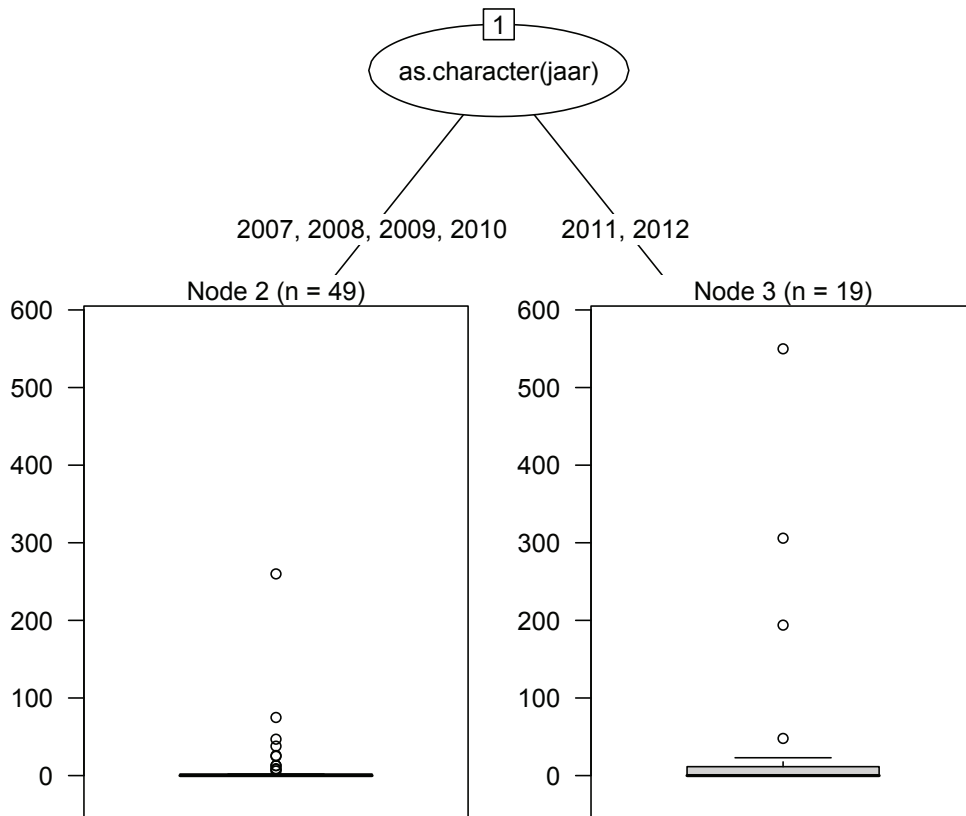
Bontbekplevier (Lauwersmeer)



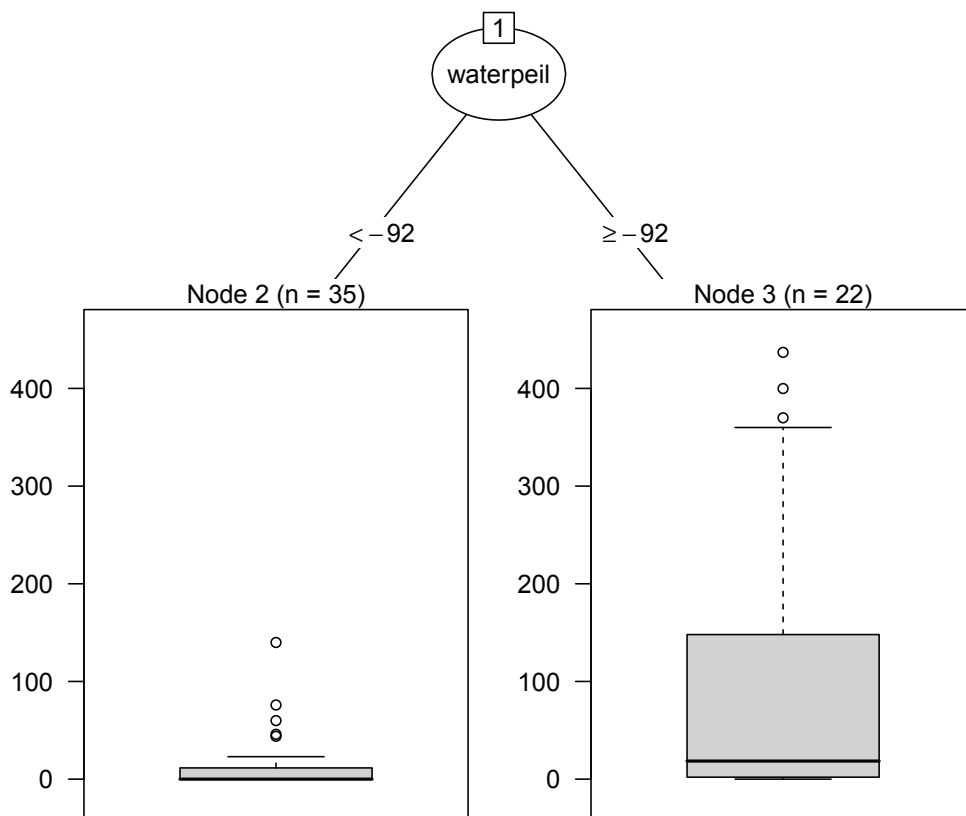
Bontbekplevier (Jaap Deensgat)



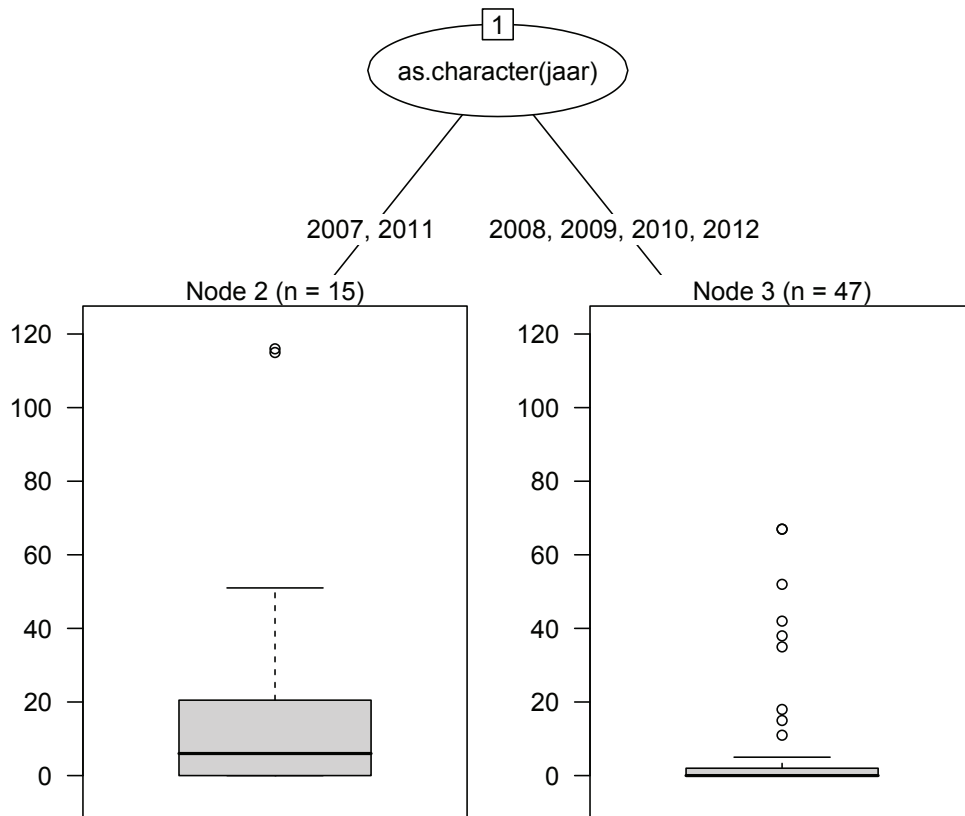
Bontbekplevier (Ezumakeeg Zuid)



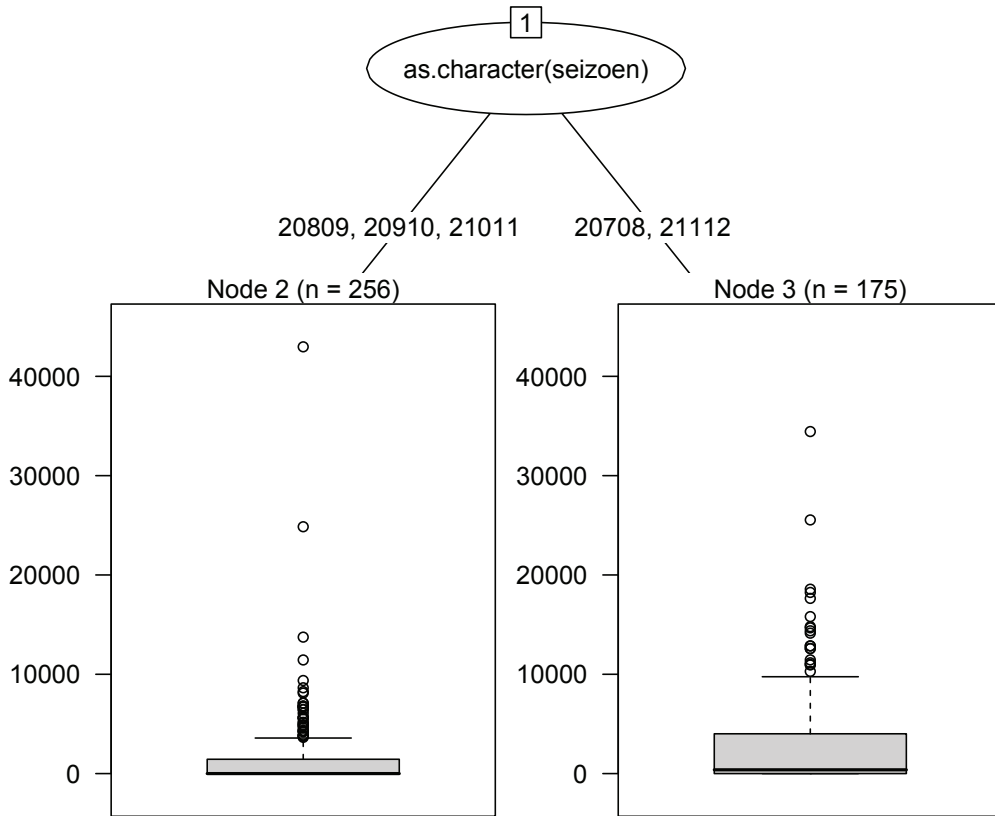
Bontbekplevier (Ezumakeeg Noord)



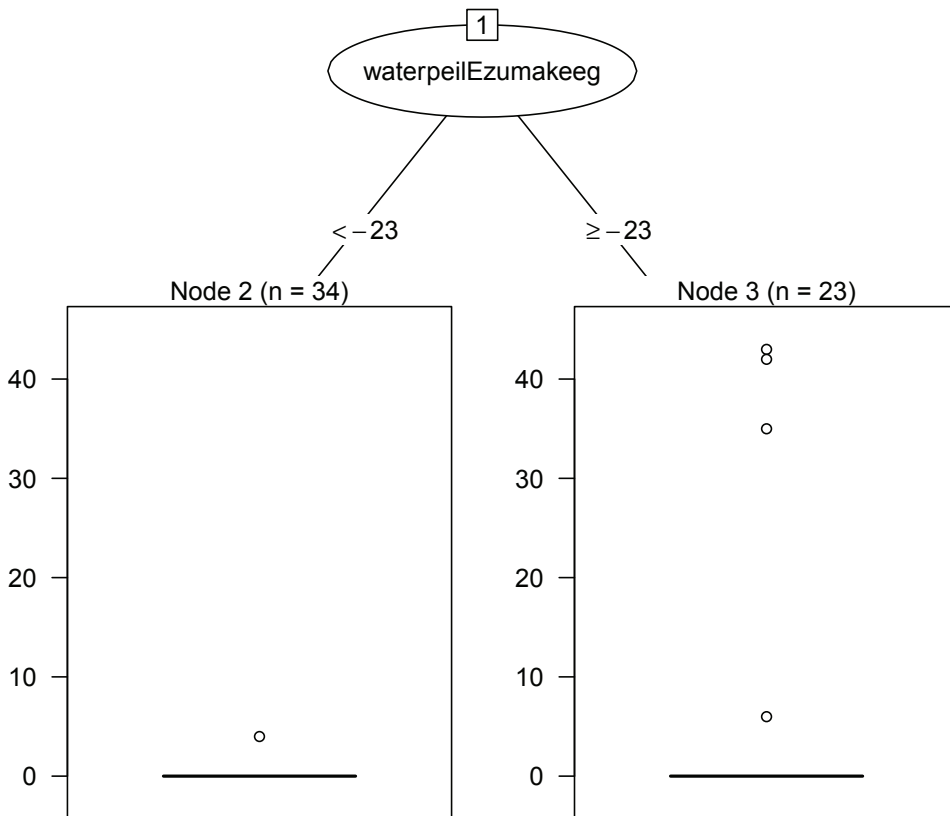
Bontbekplevier (Achter de Zwart)



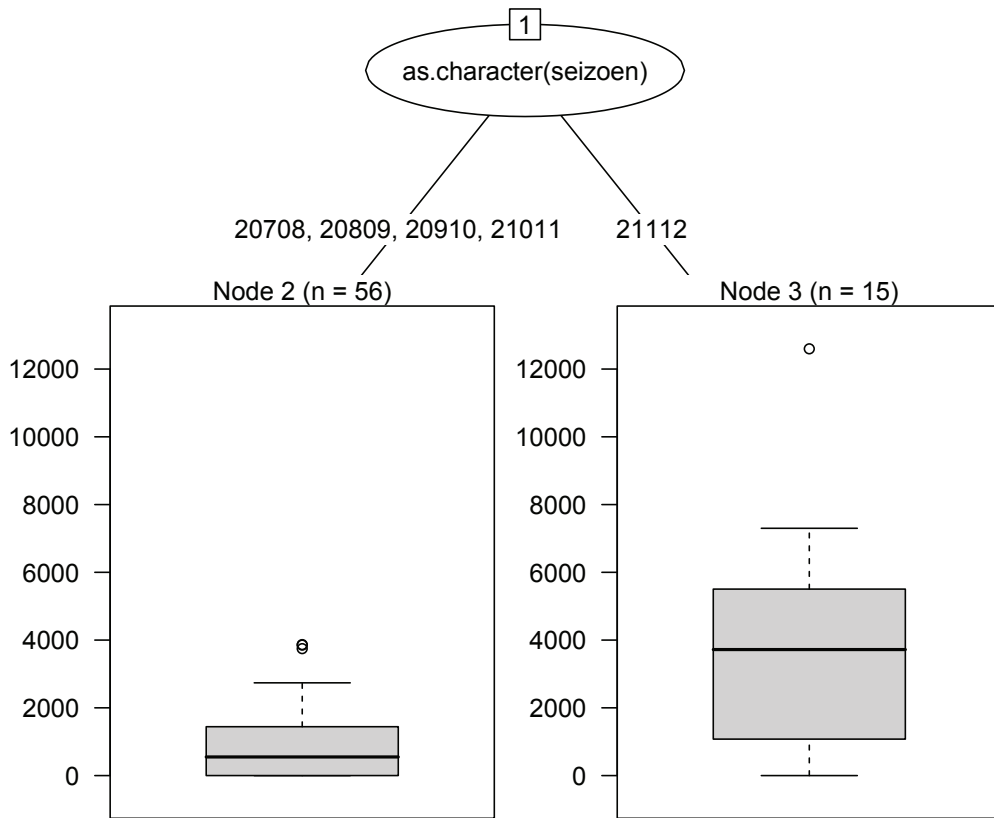
Brandgans (Lauwersmeer)



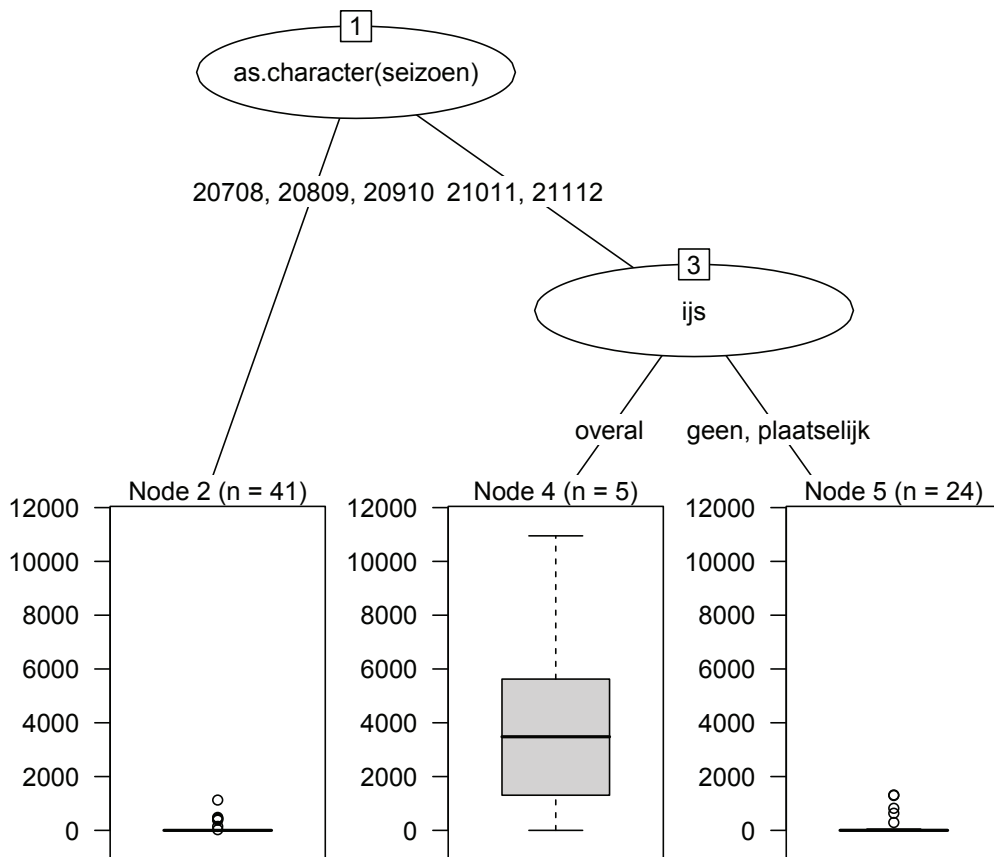
Brandgans (Nieuwe Robbengat)



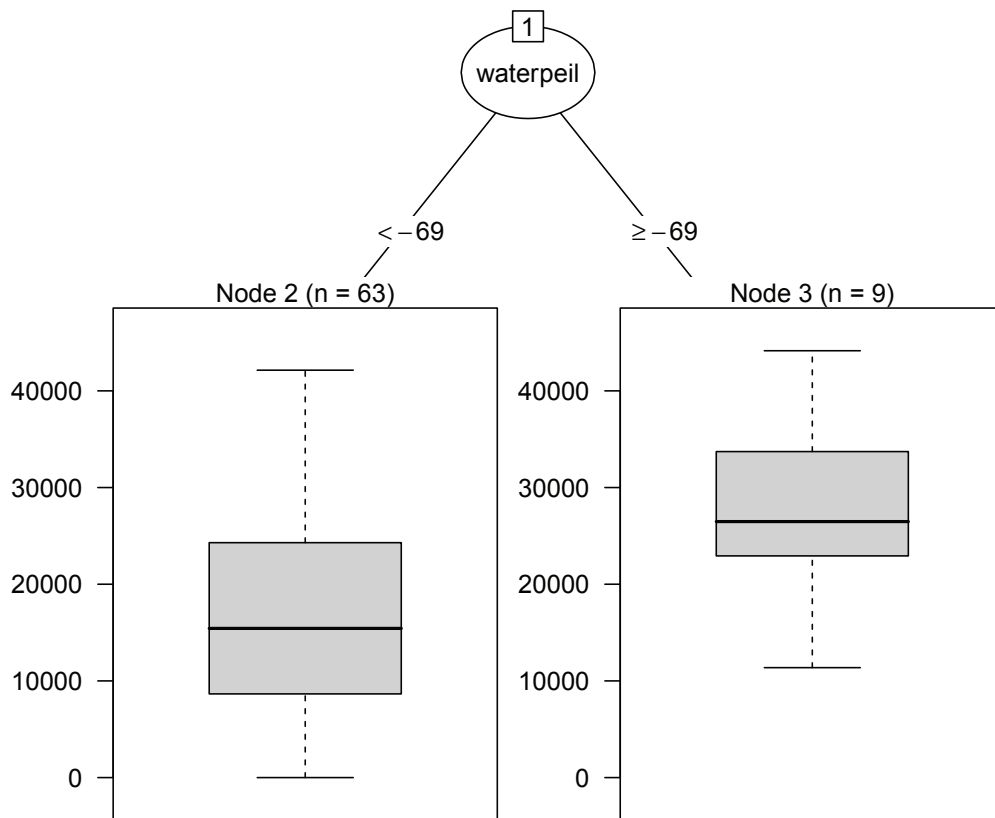
Brandgans (Oude Robbengat)



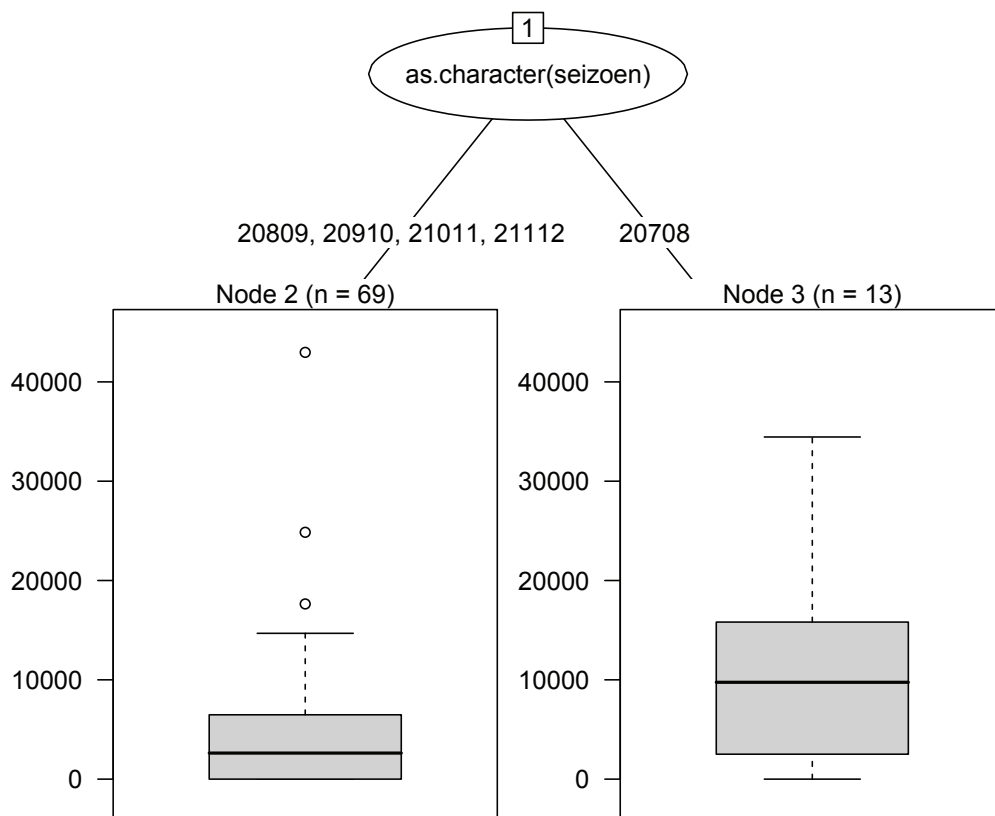
Brandgans (Vlinderbalg)



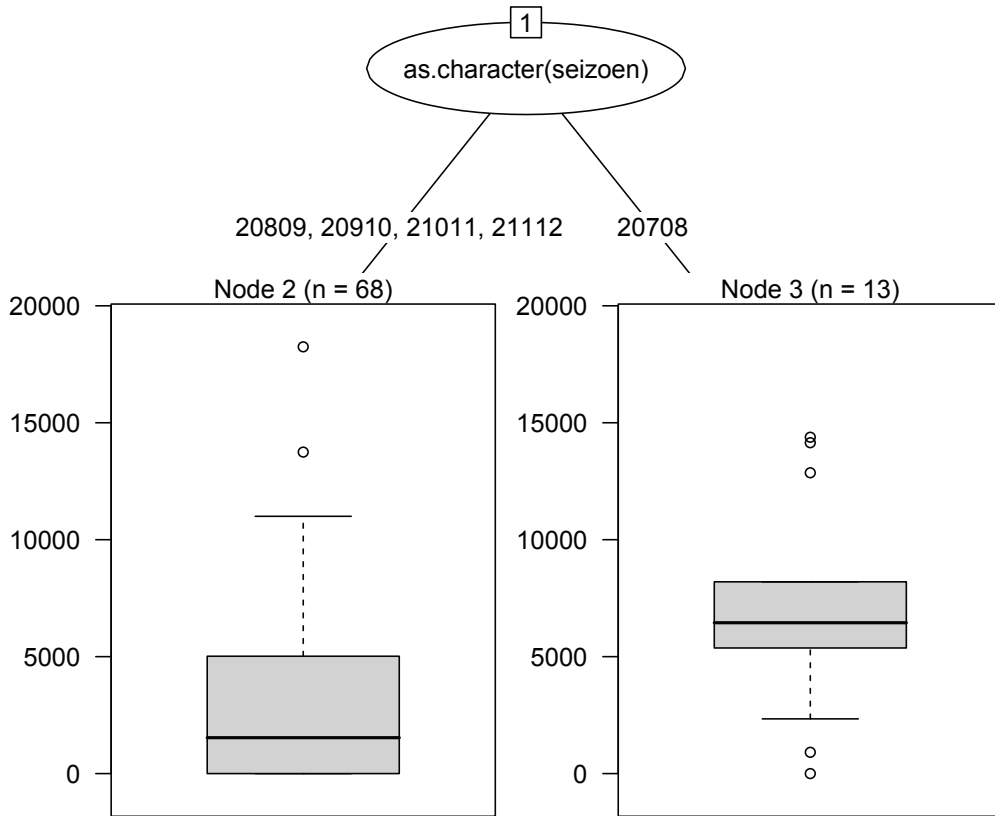
Brandgans (Ezumakeeg)



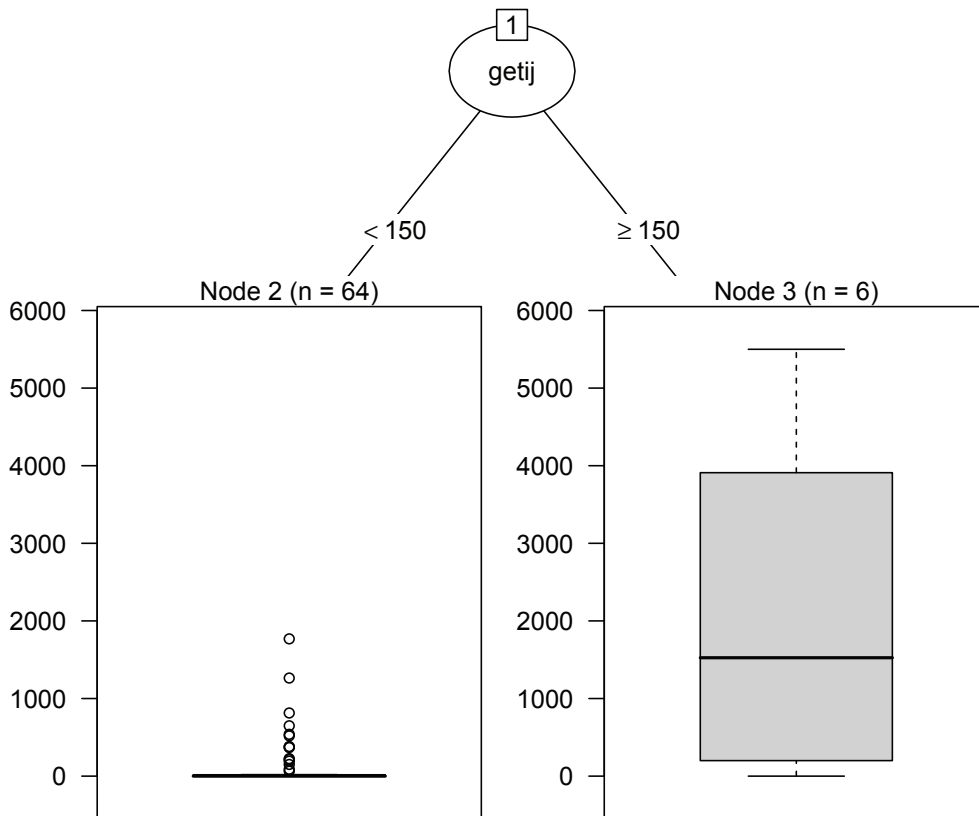
Brandgans (Jaap Deensgat)



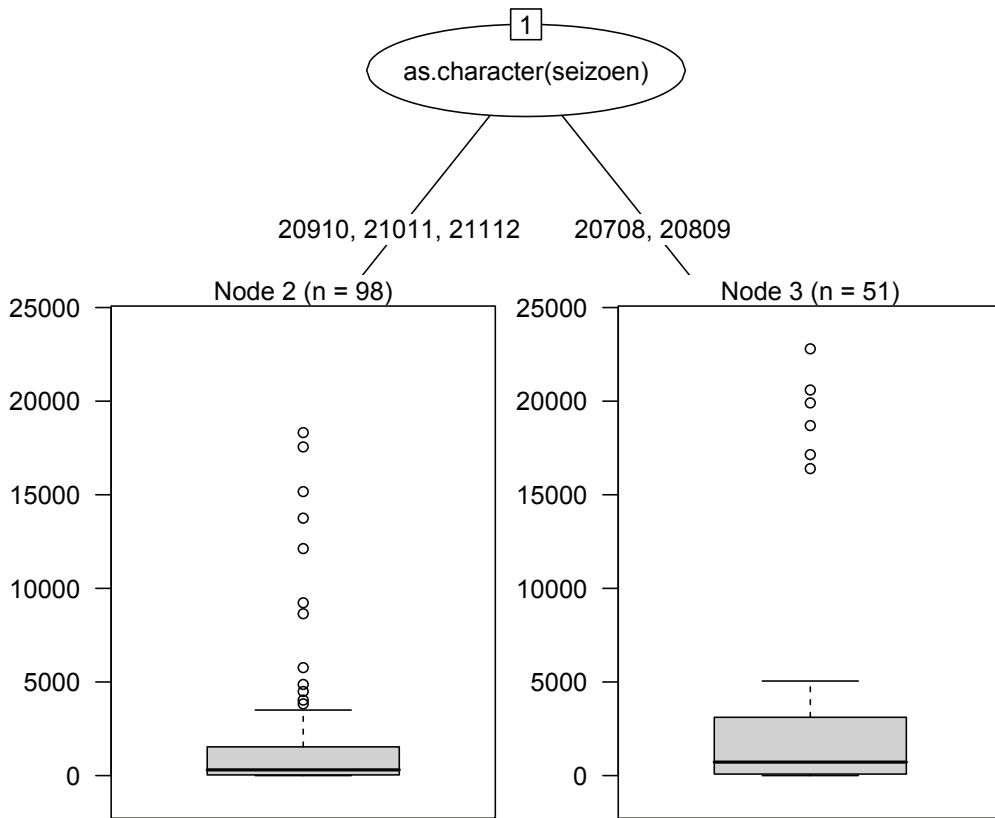
Brandgans (Achter de Zwart)



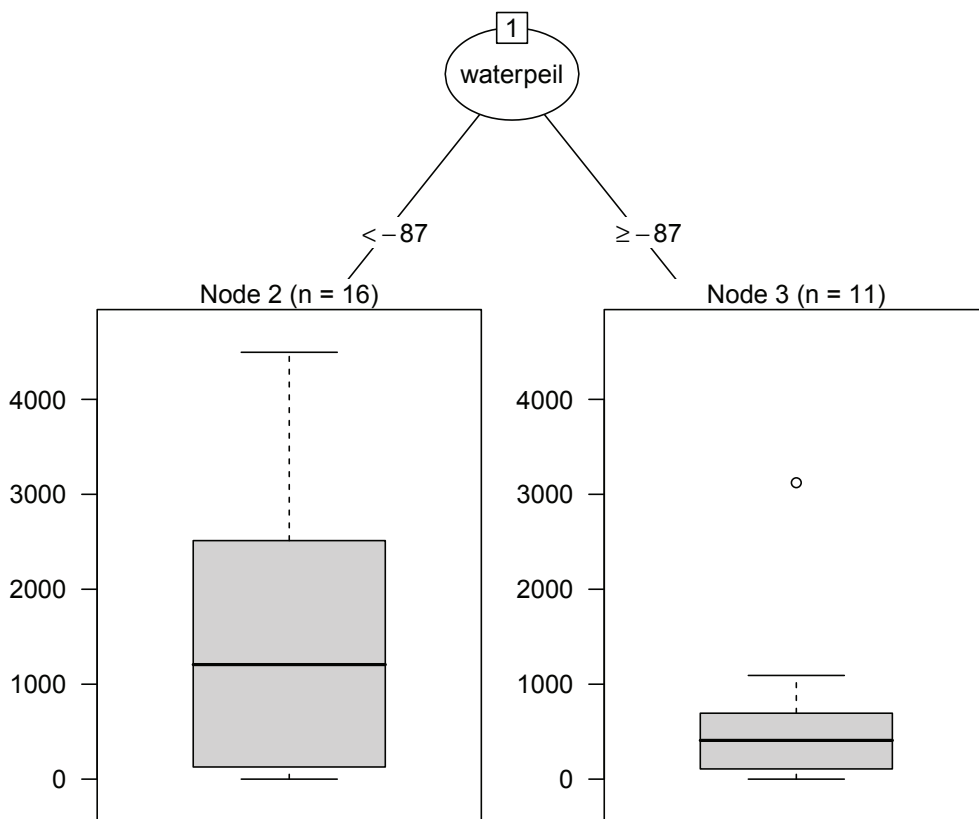
Brandgans (Kollumerwaard)



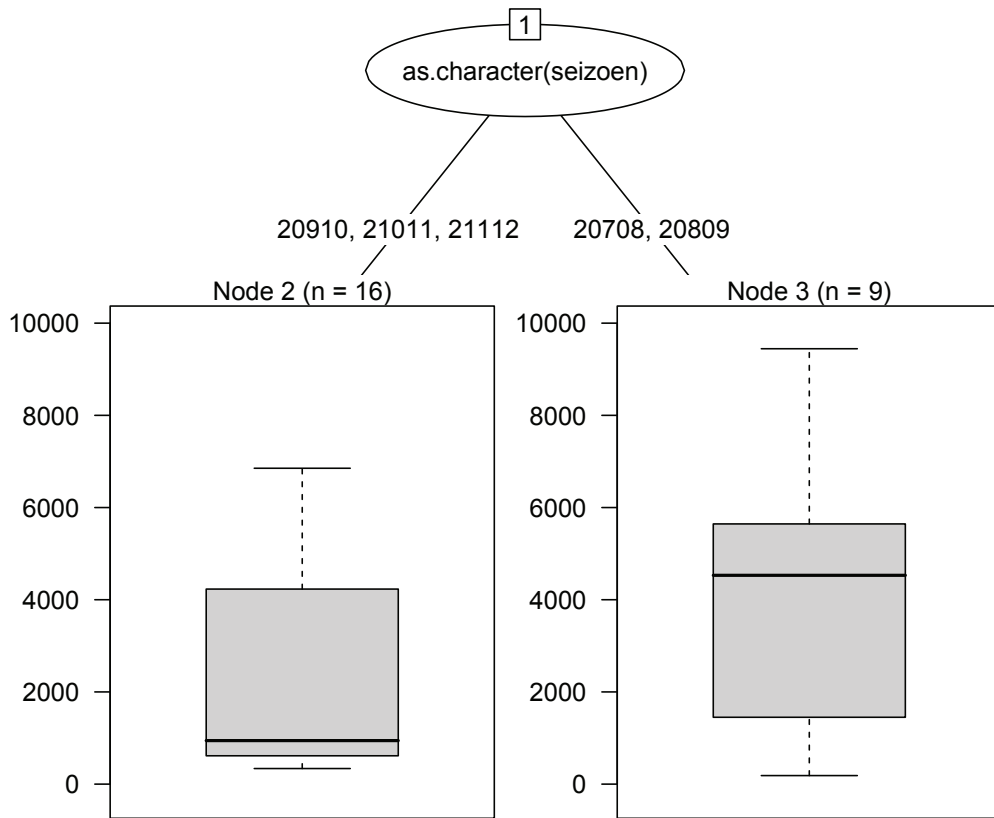
Grauwe_Gans (Lauwersmeer)



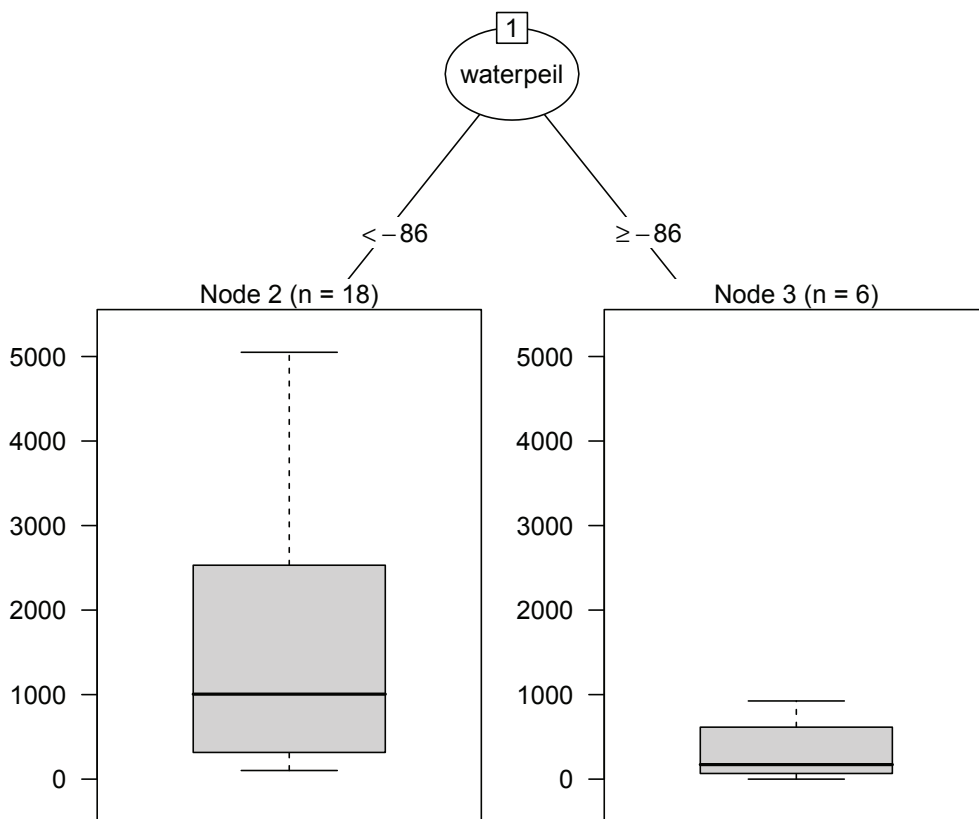
Grauwe_Gans (Achter de Zwart)



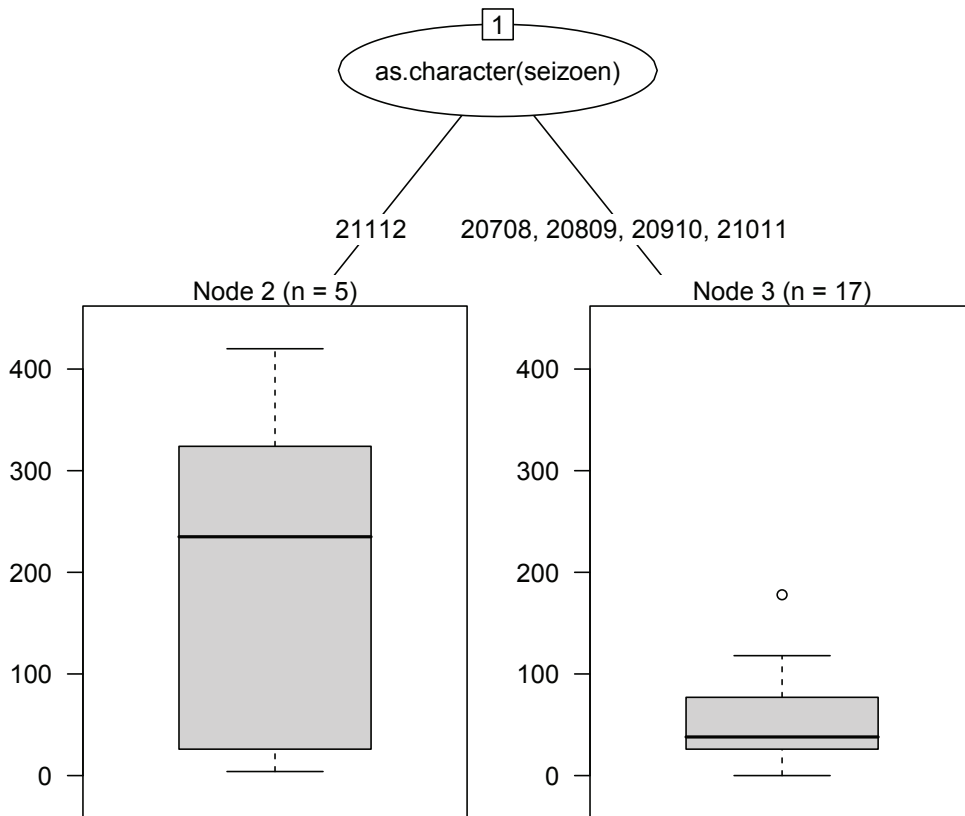
Grauwe_Gans (Ezumakeeg)



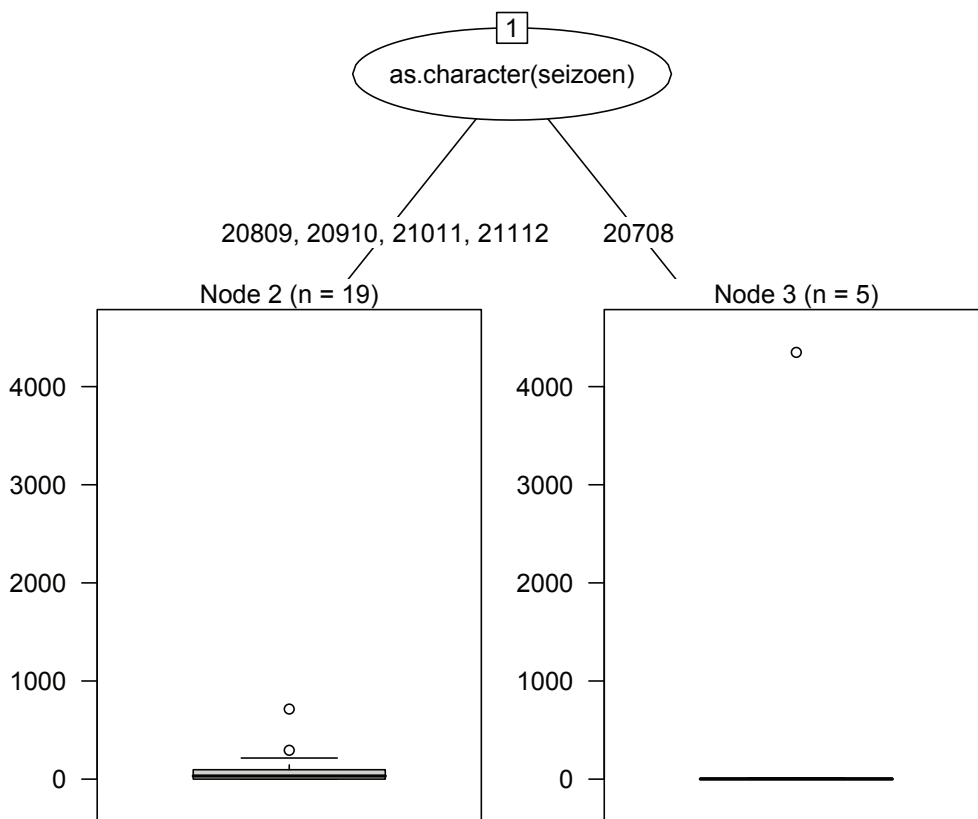
Grauwe_Gans (Oude Robbengat)



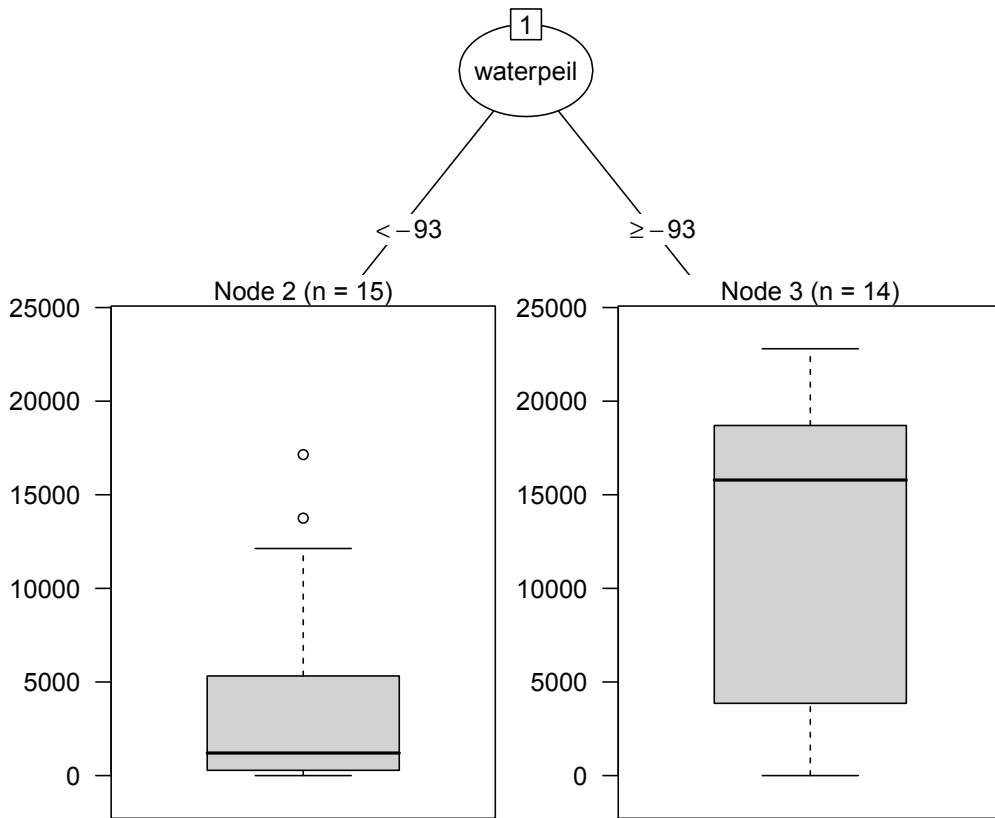
Grauwe_Gans (Nieuwe Robbengat)



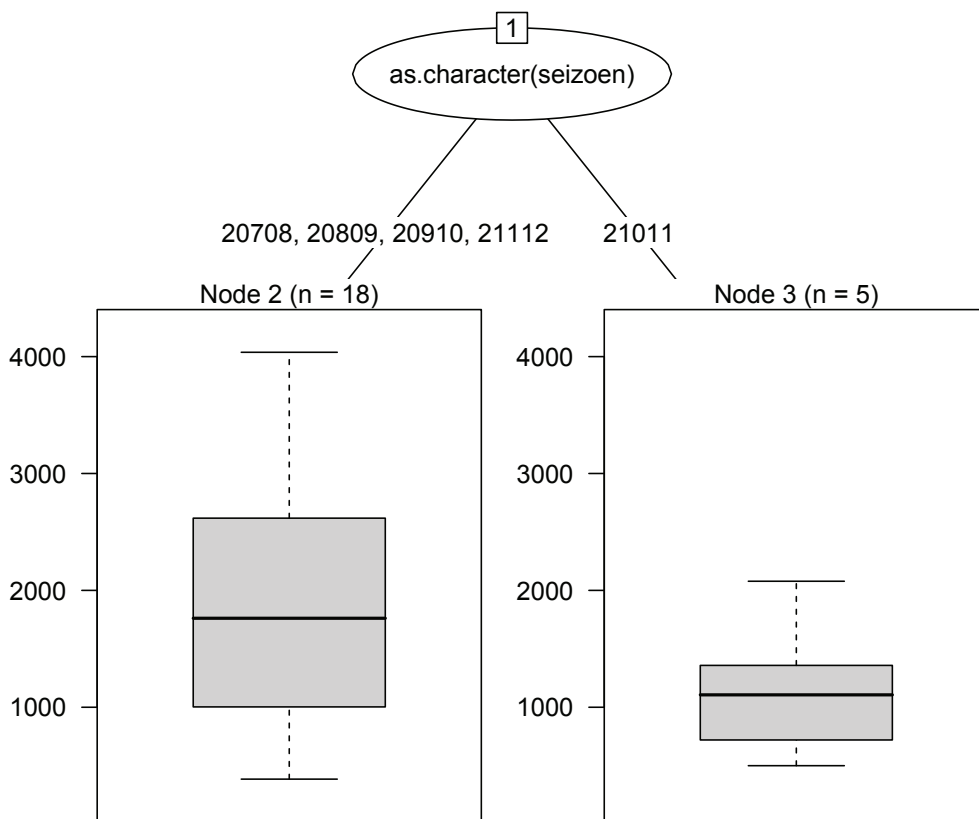
Grauwe_Gans (Vlinderbalg)



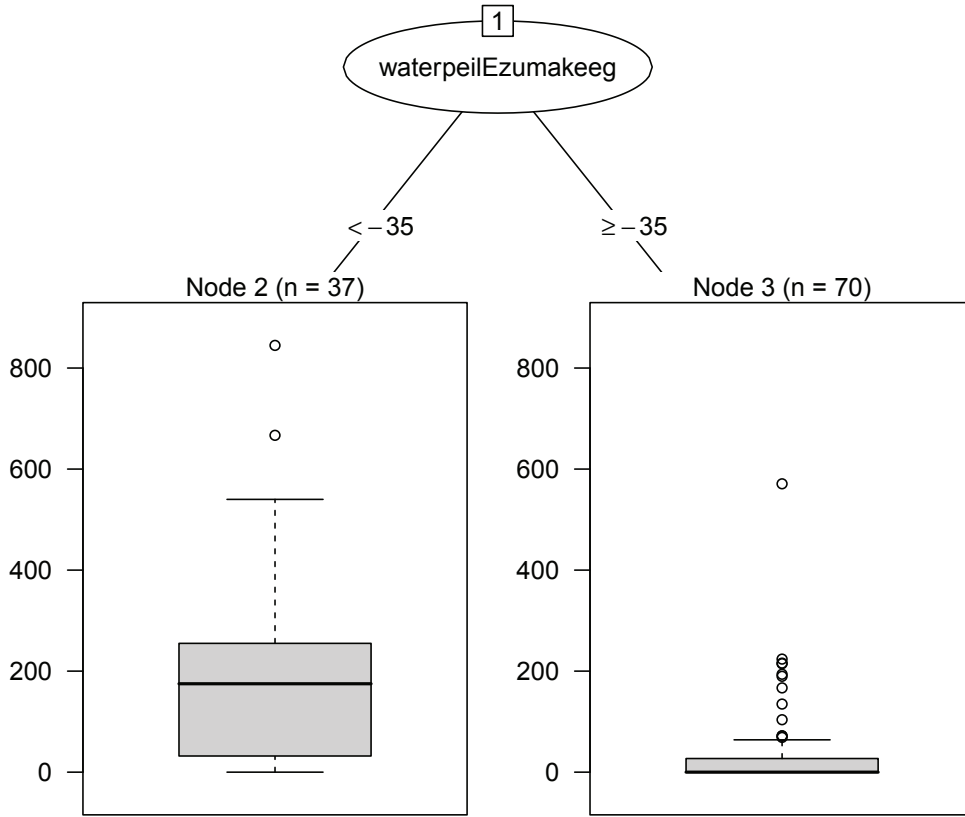
Grauwe_Gans (Jaap Deensgat)



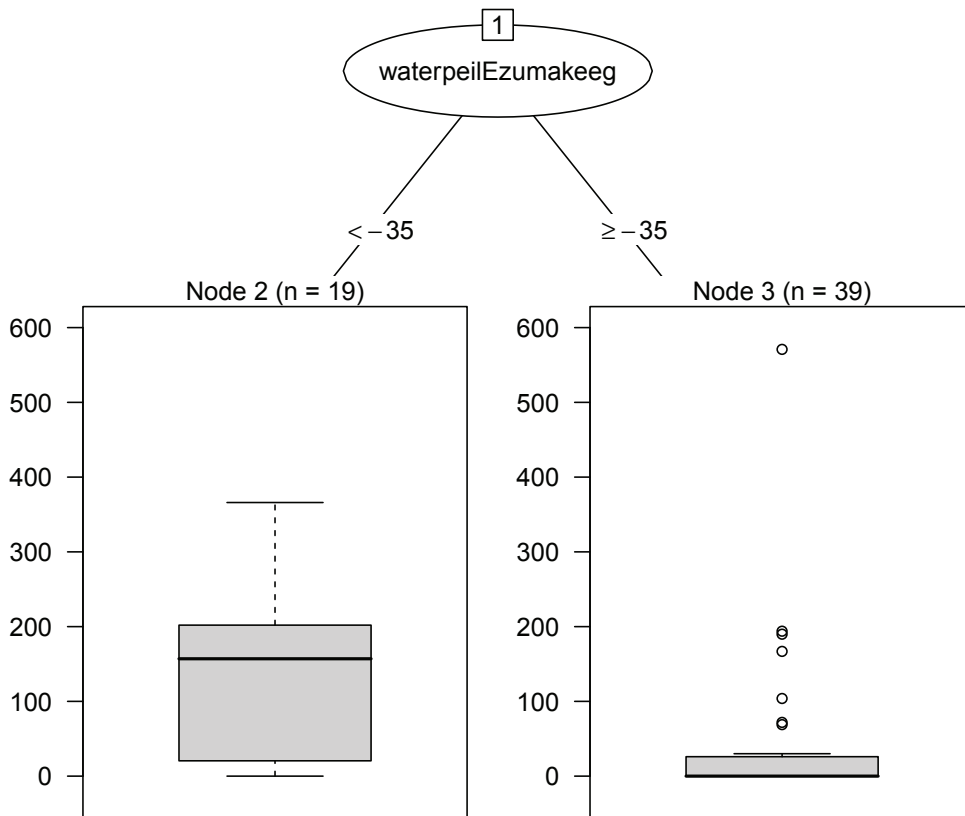
Grauwe_Gans (Kollumerwaard)



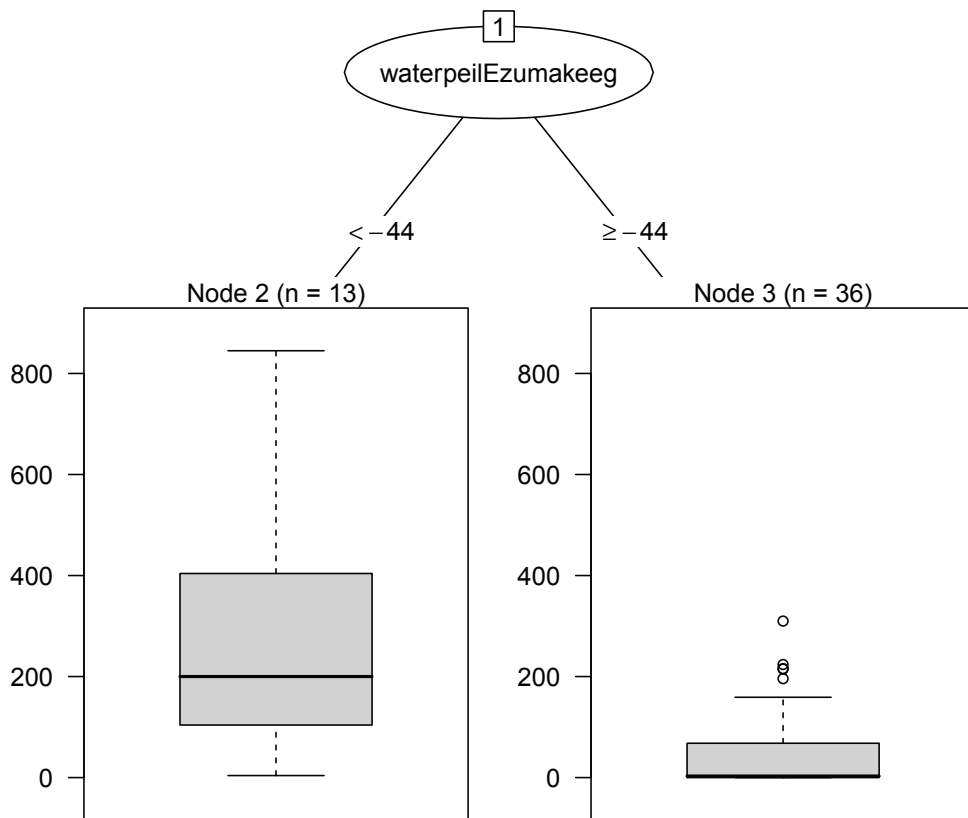
Grutto (Lauwersmeer)



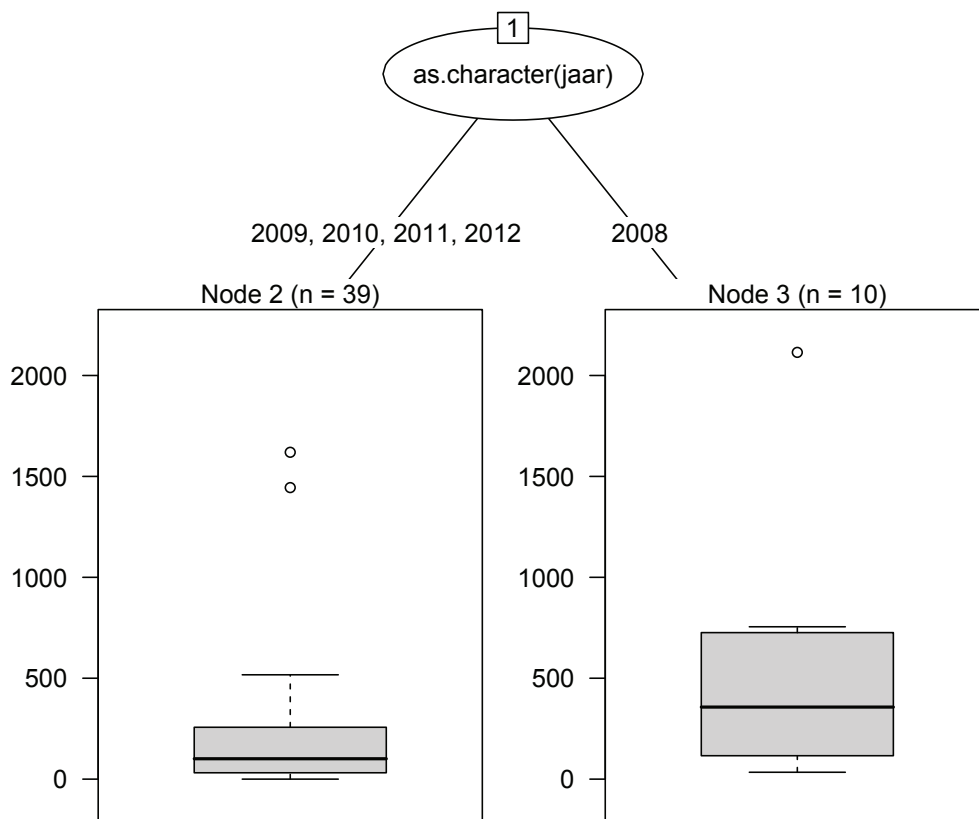
Grutto (Jaap Deensgat)



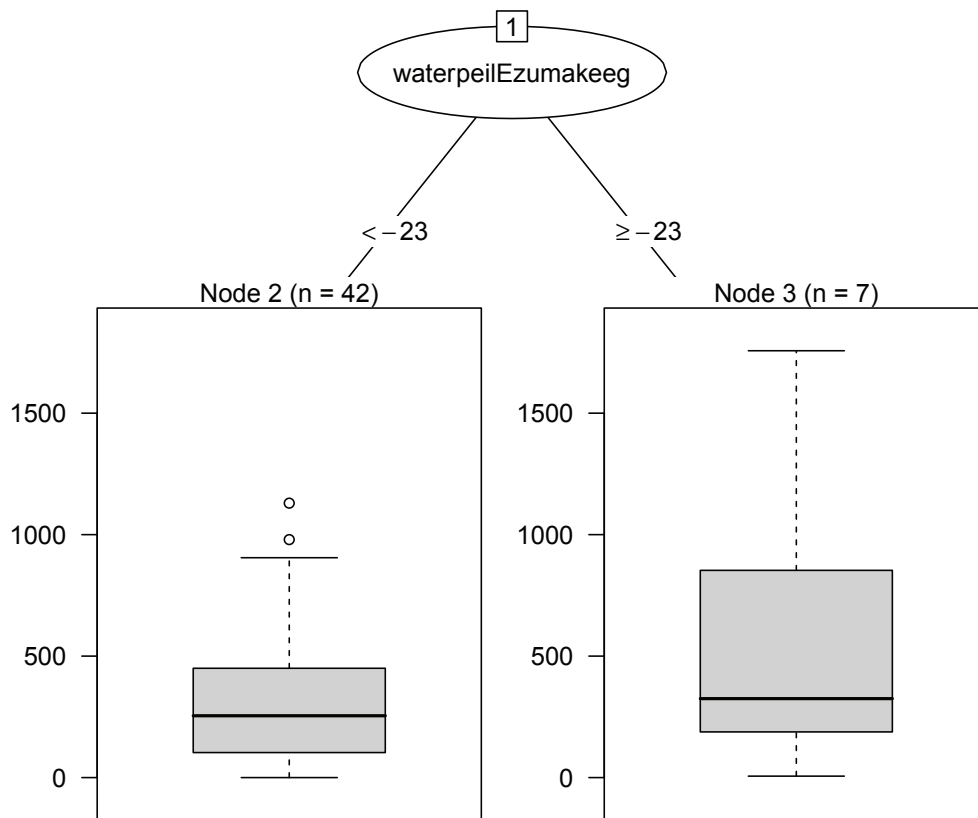
Grutto (Achter de Zwart)



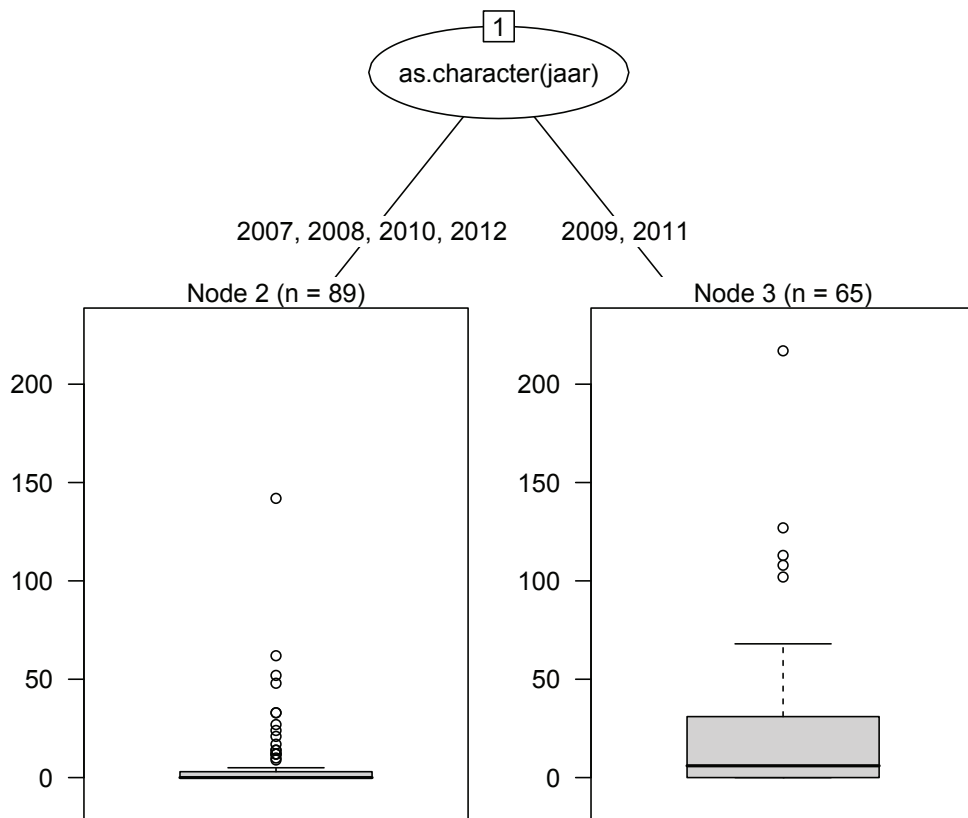
Grutto (Ezumakeeg Noord)



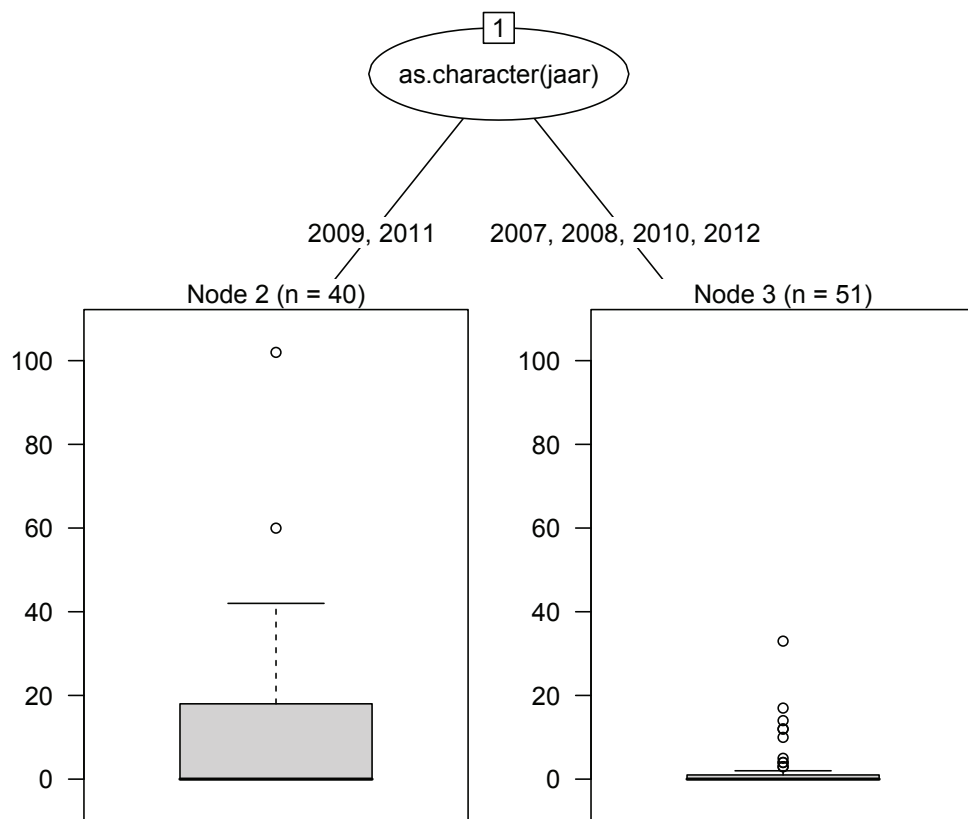
Grutto (Ezumakeeg Zuid)



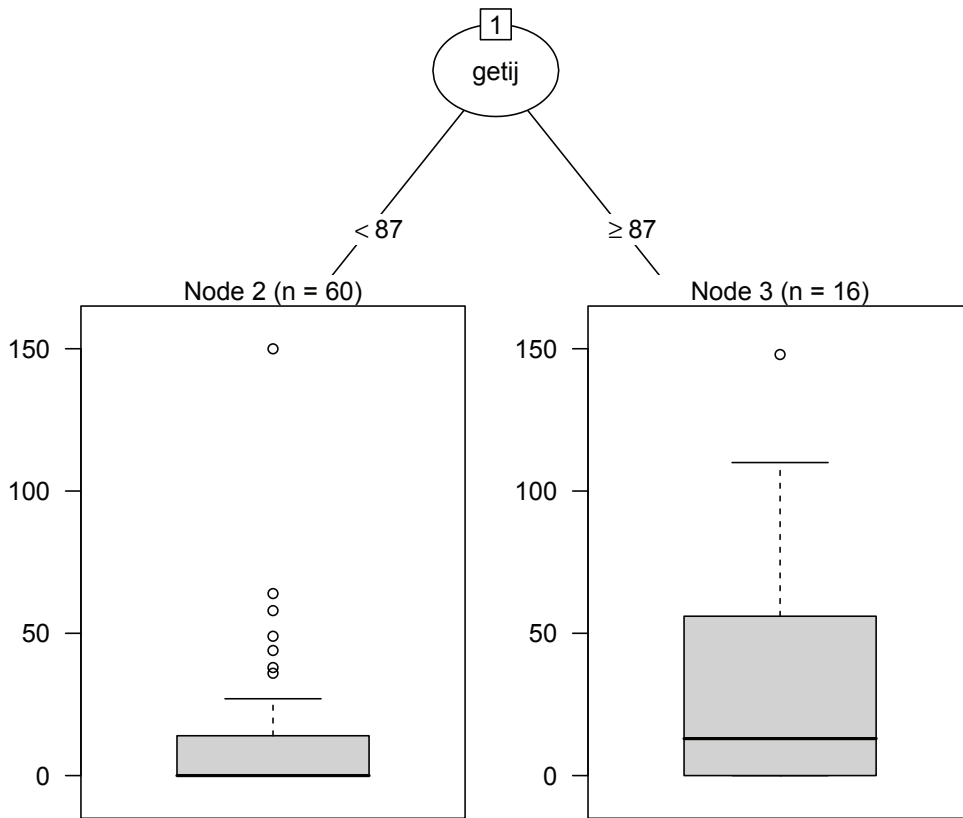
Kluut (Lauwersmeer)



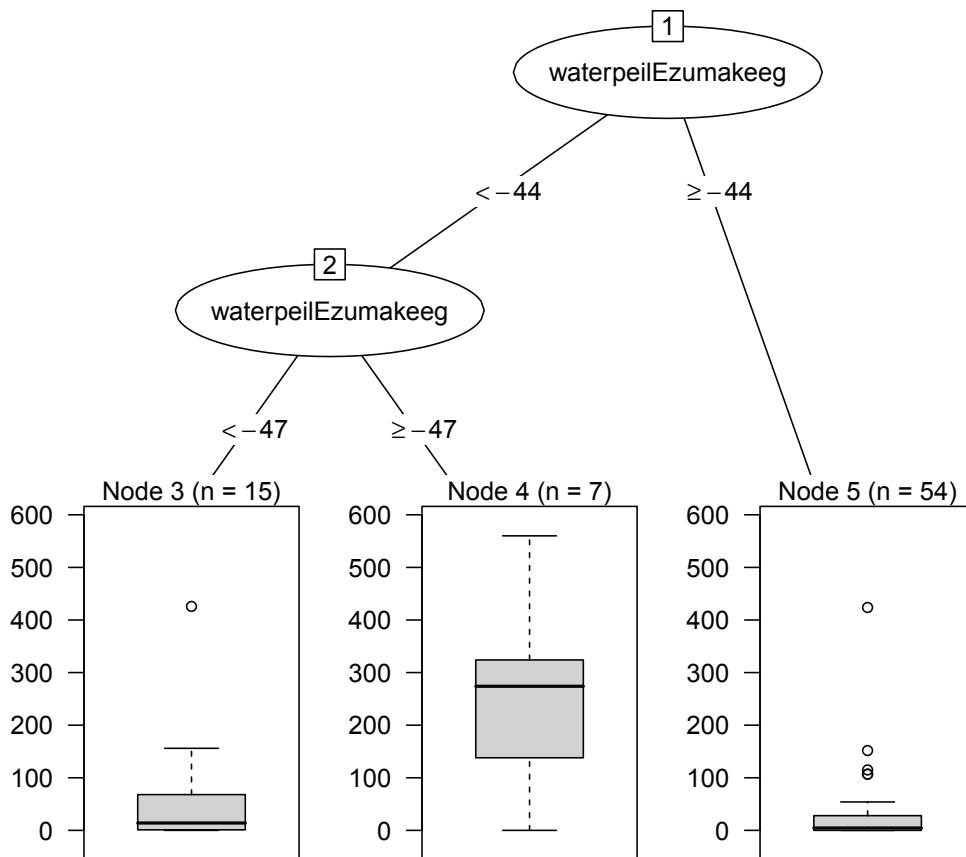
Kluut (Jaap Deensgat)



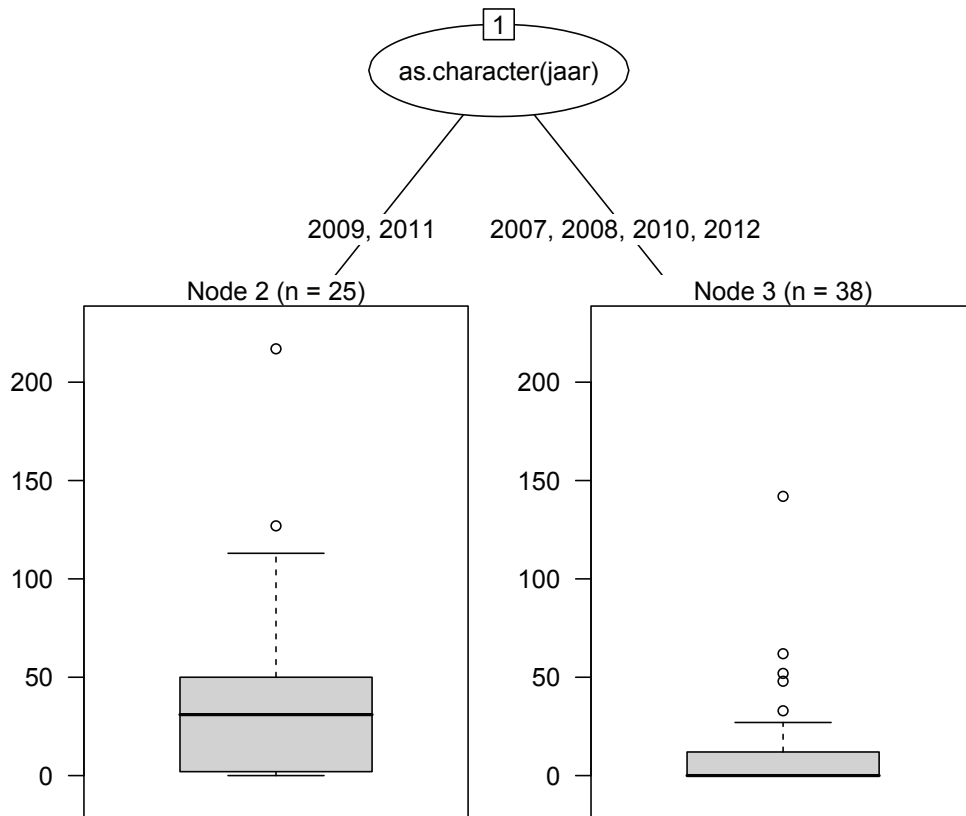
Kluut (Ezumakeeg Zuid)



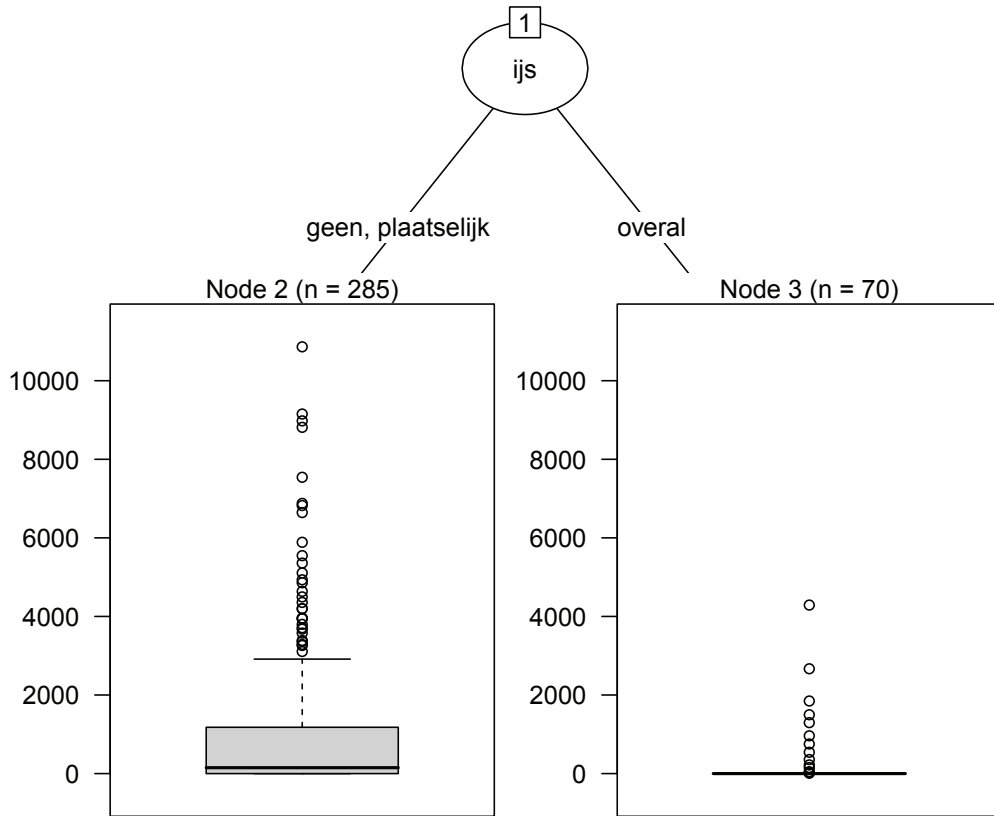
Kluut (Ezumakeeg Noord)



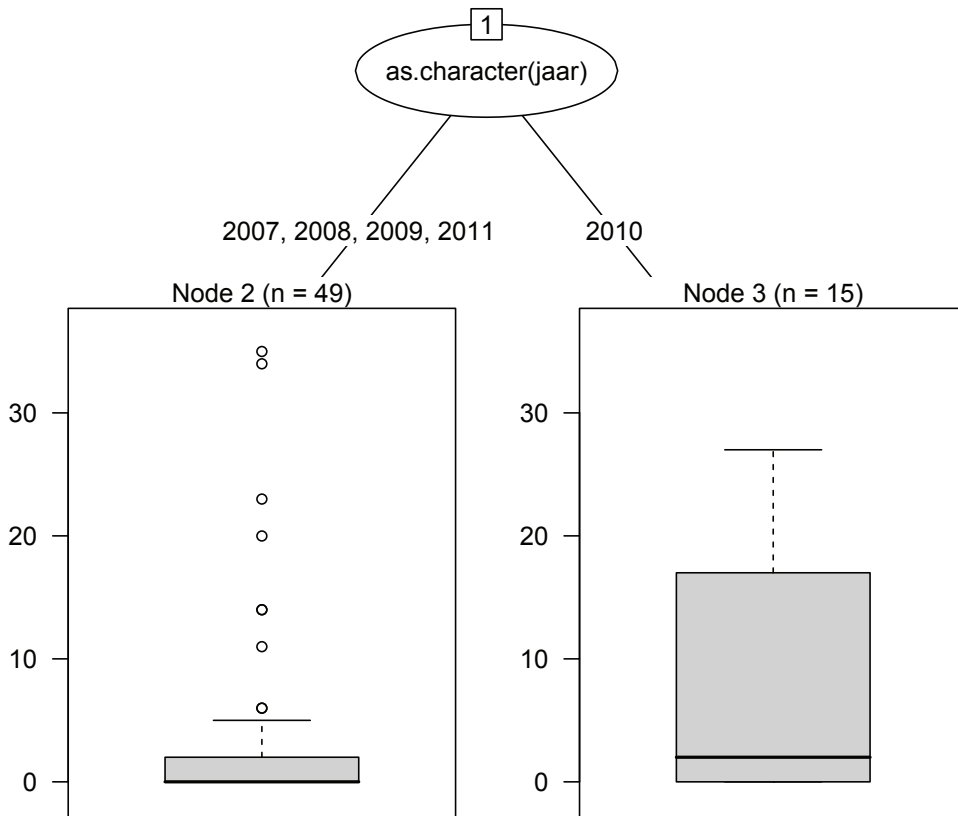
Kluut (Achter de Zwart)



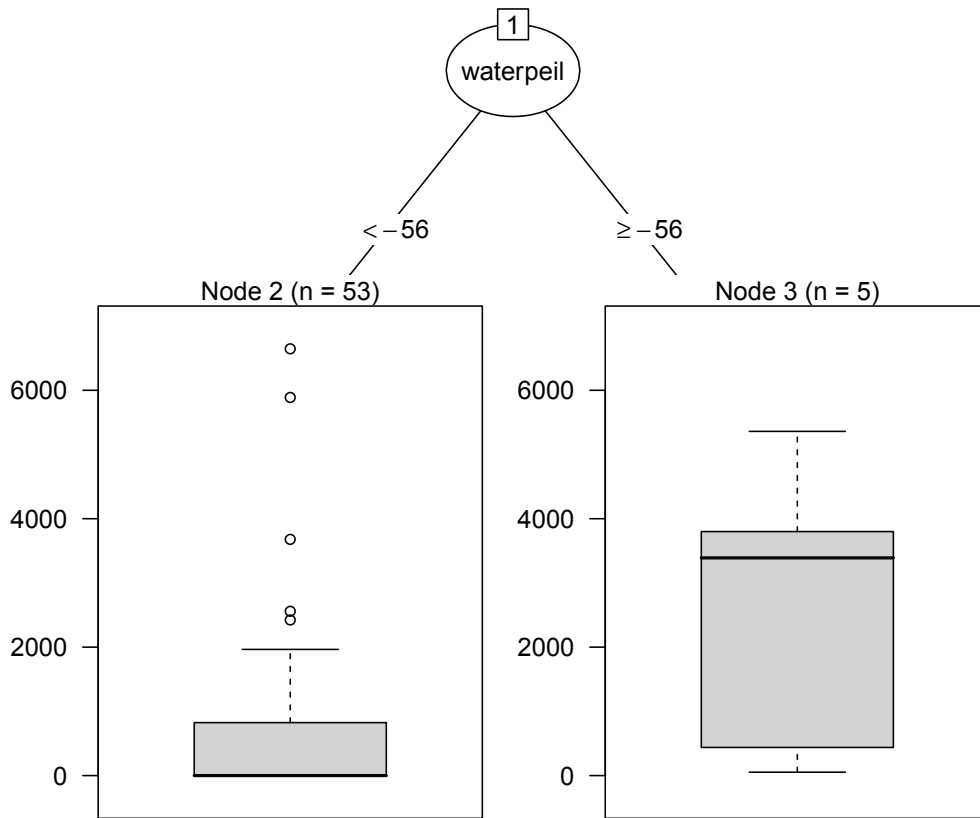
Kolgans (Lauwersmeer)



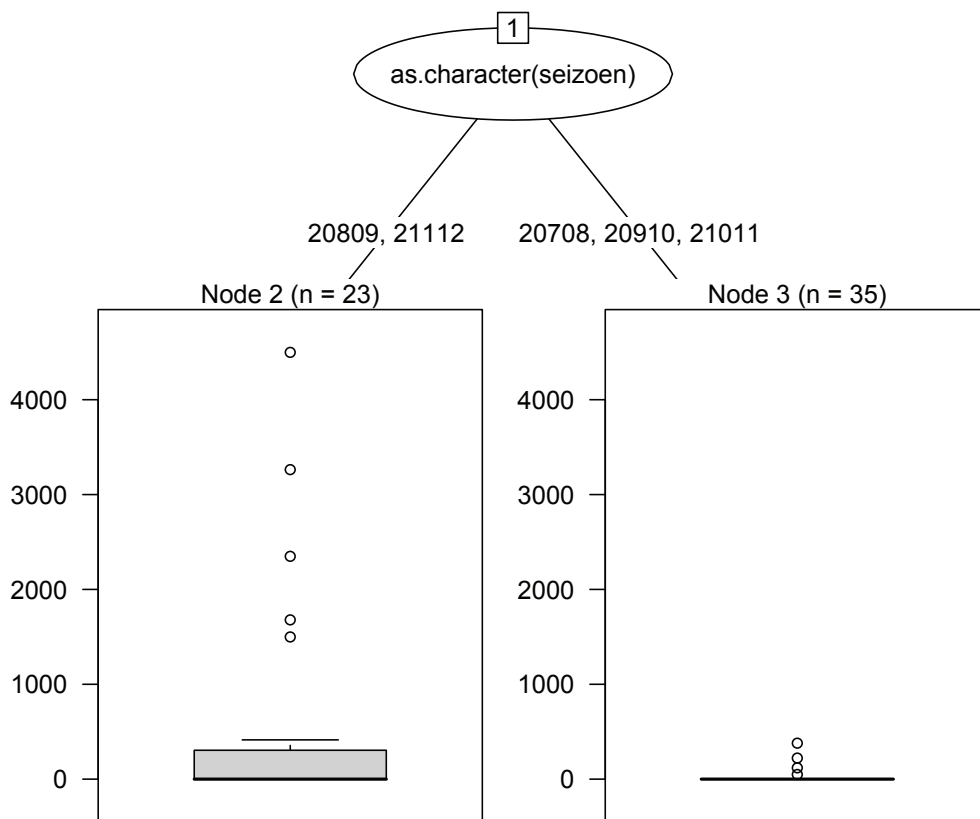
Reuzenster (Lauwersmeer)



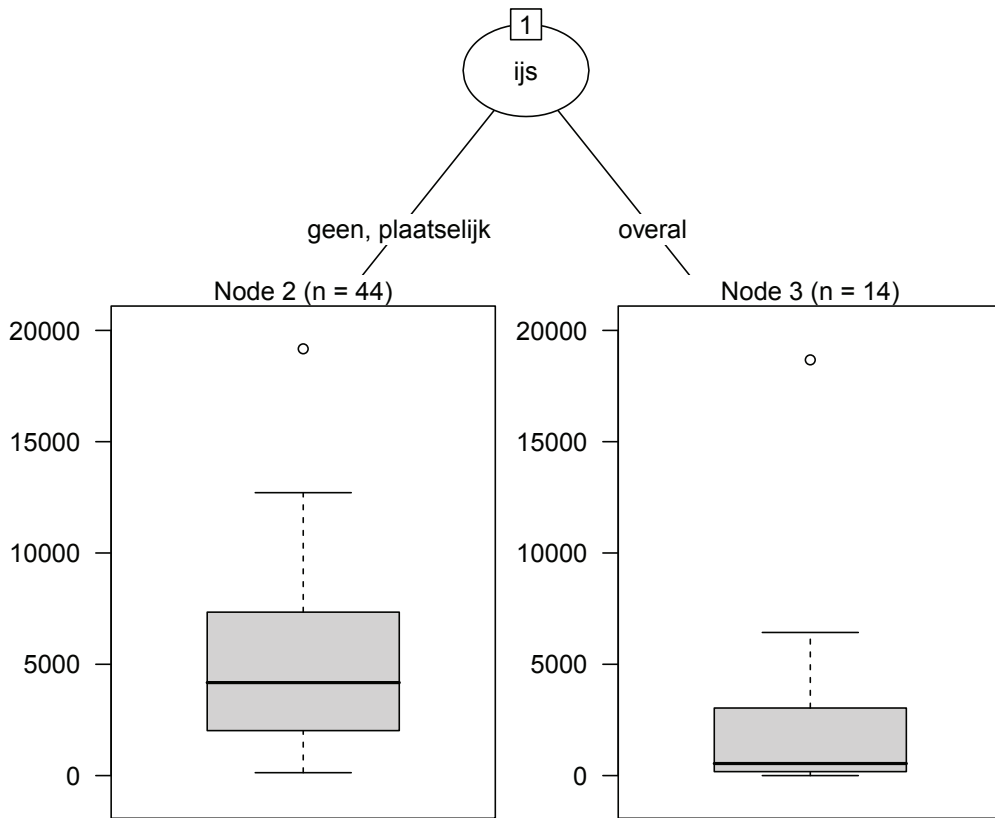
Kolgans (Oude Robbengat)



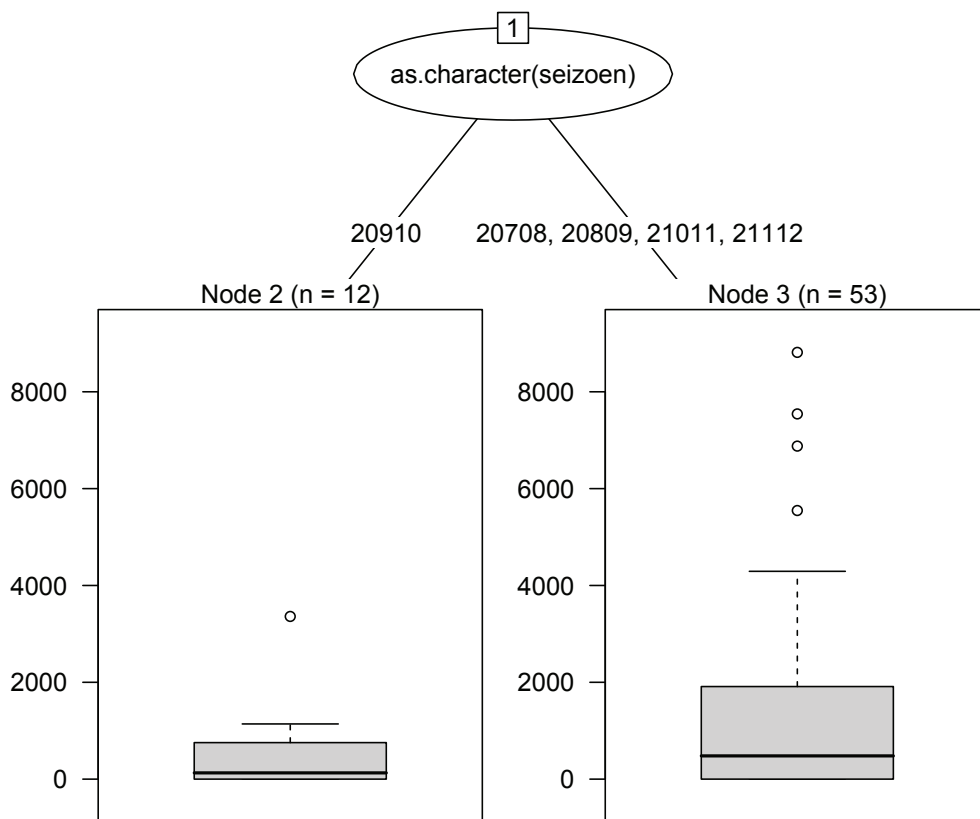
Kolgans (Vlinderbalg)



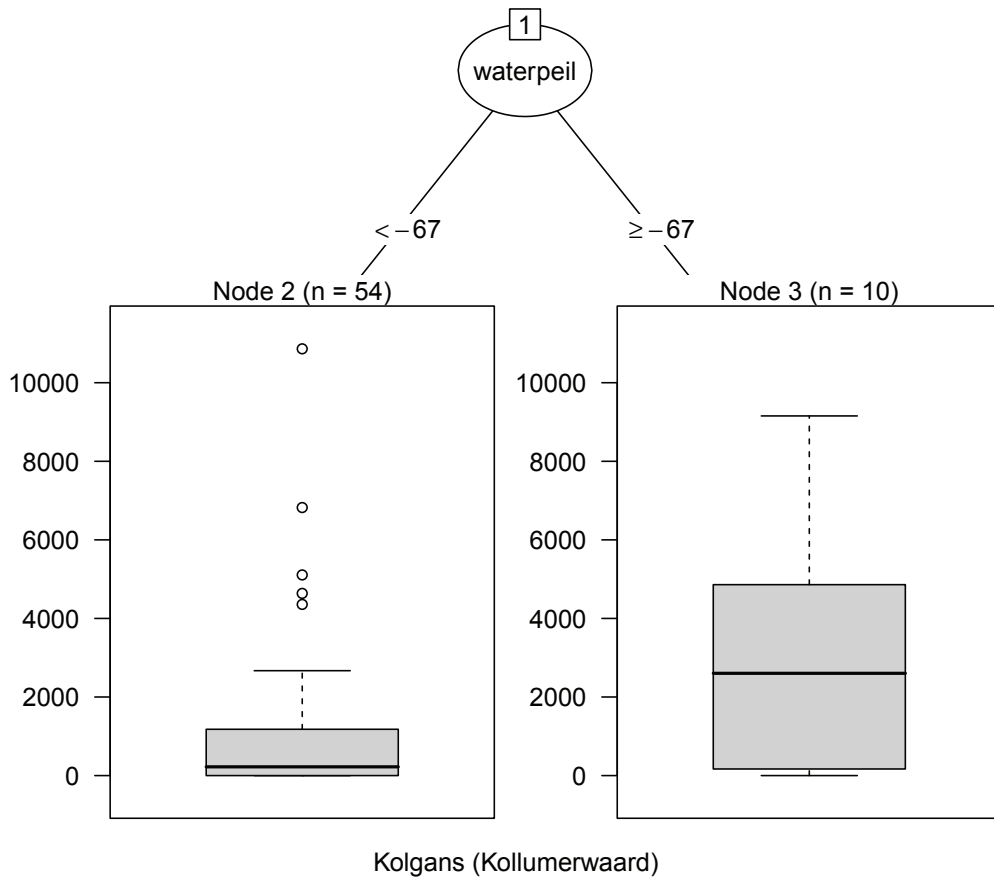
Kolgans (Ezumakeeg)



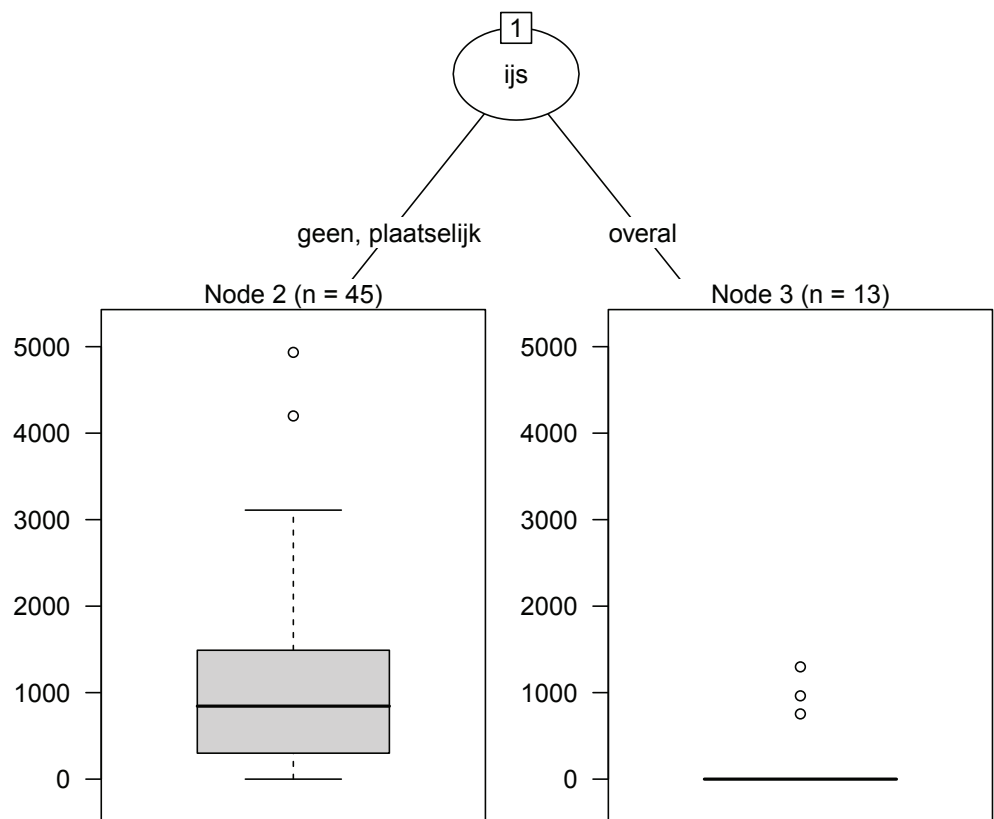
Kolgans (Jaap Deensgat)



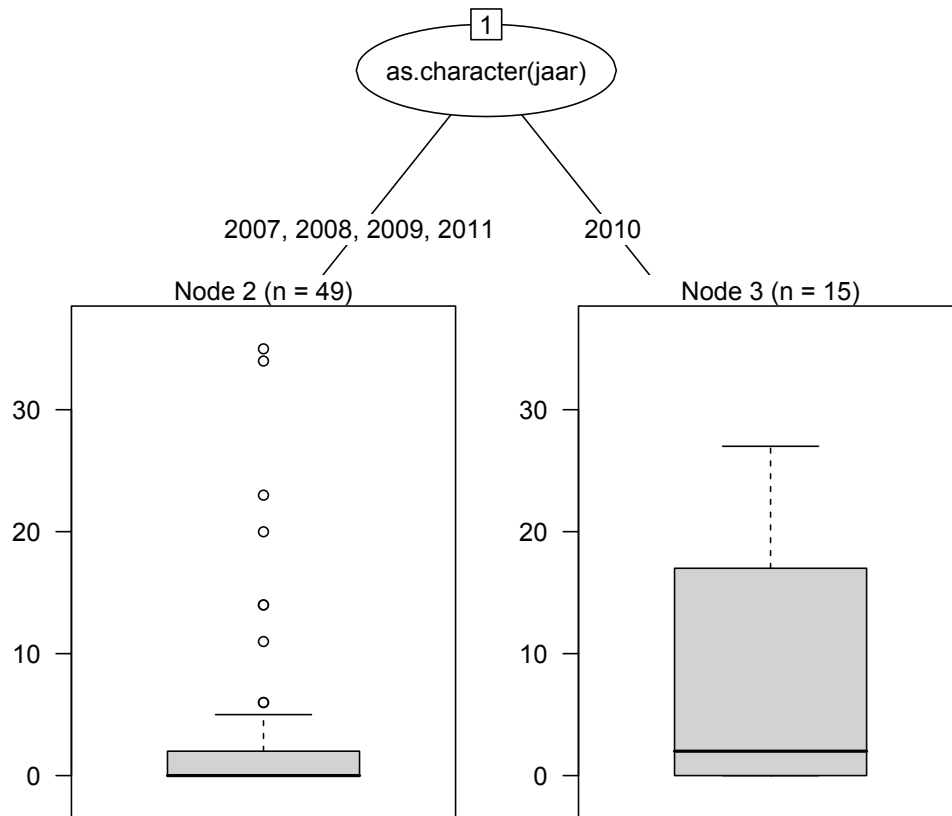
Kolgans (Achter de Zwart)



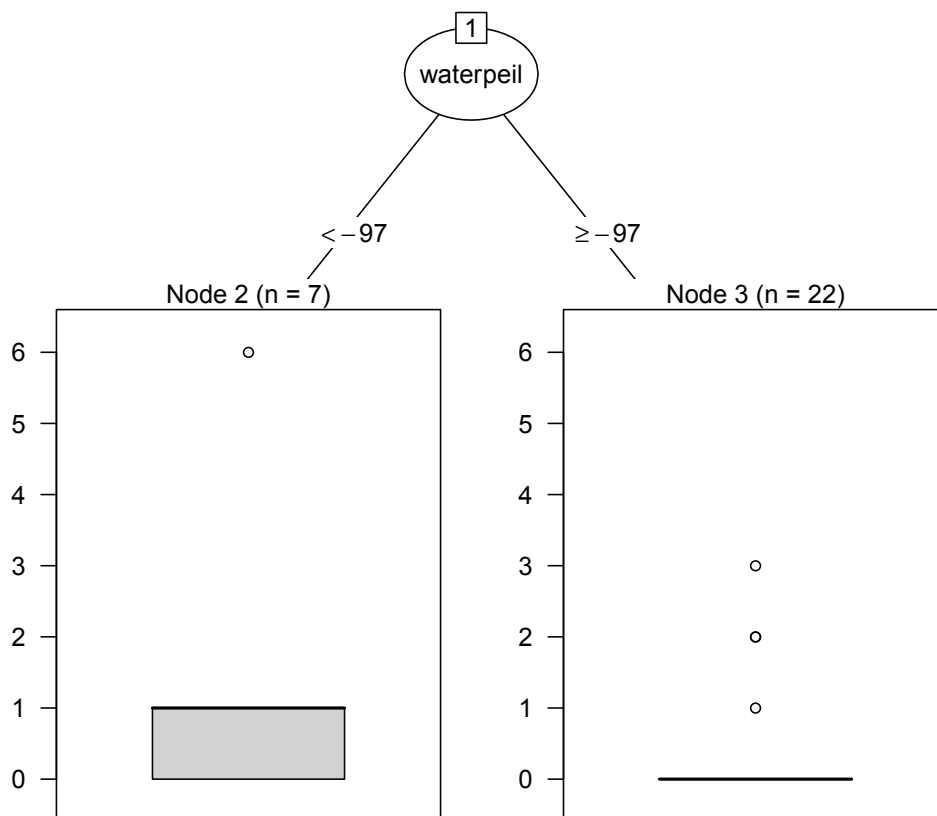
Kolgans (Kollumerwaard)



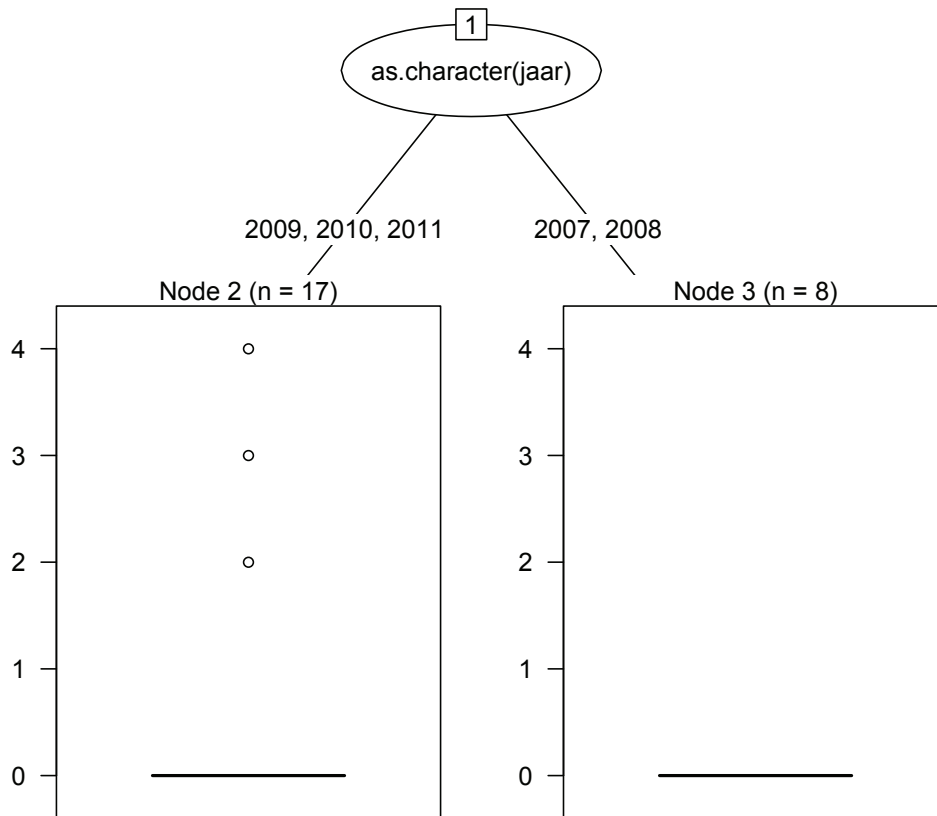
Reuzenster (Lauwersmeer)



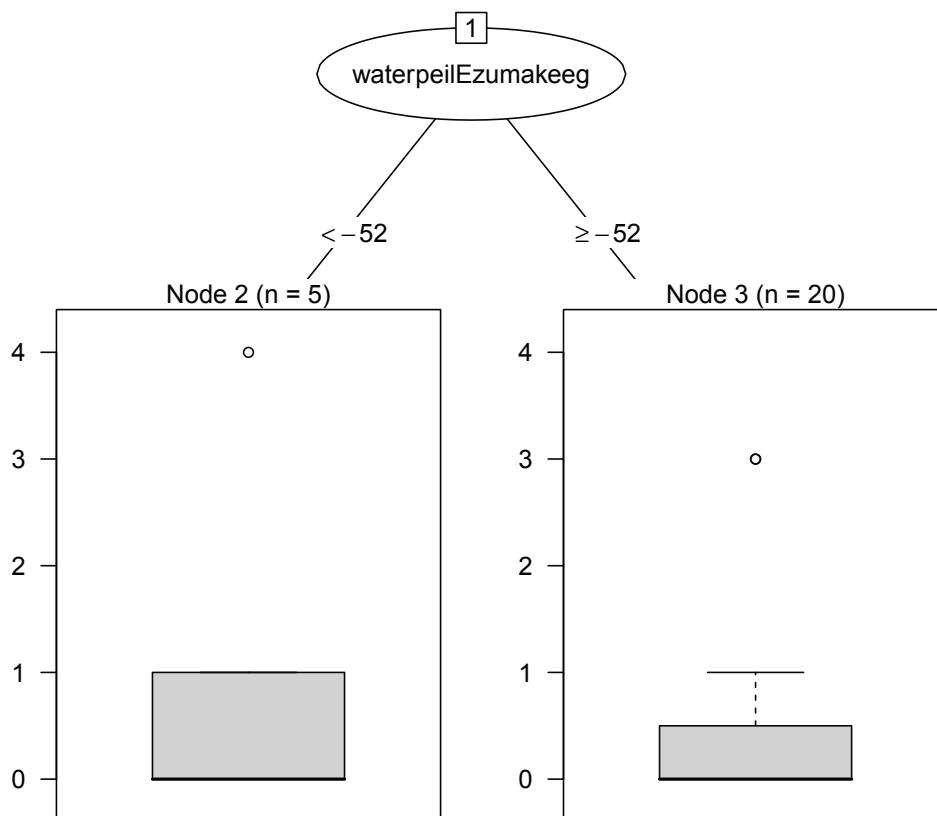
Reuzenster (Jaap Deensgat)



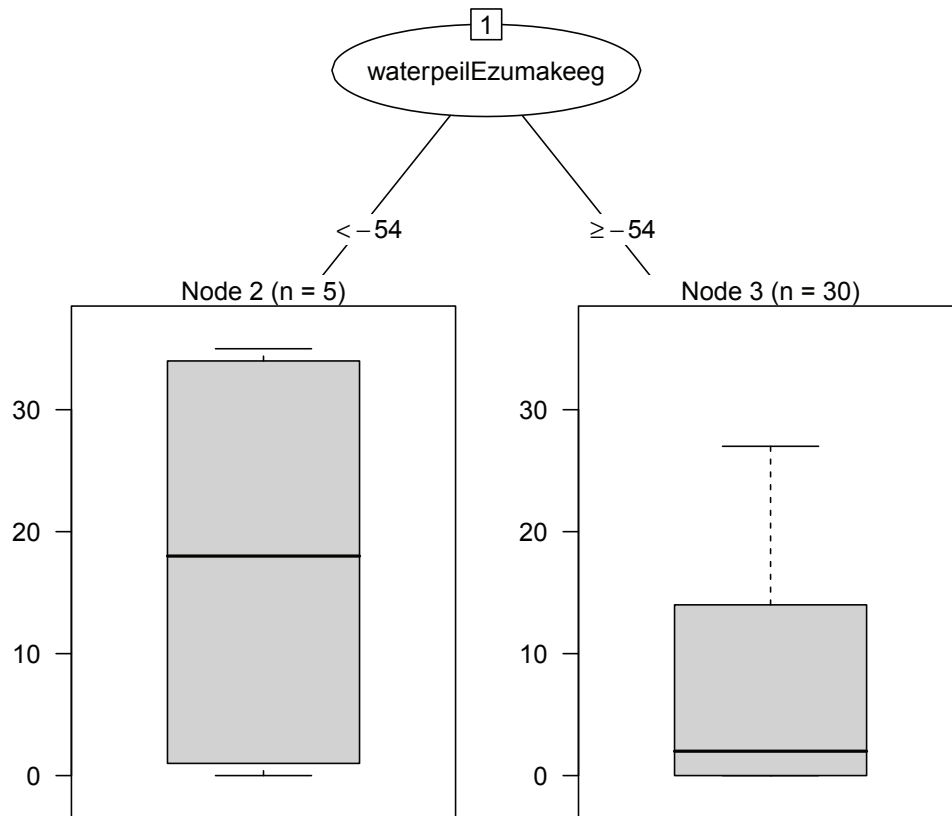
Reuzenster (Ezumakeeg Zuid)



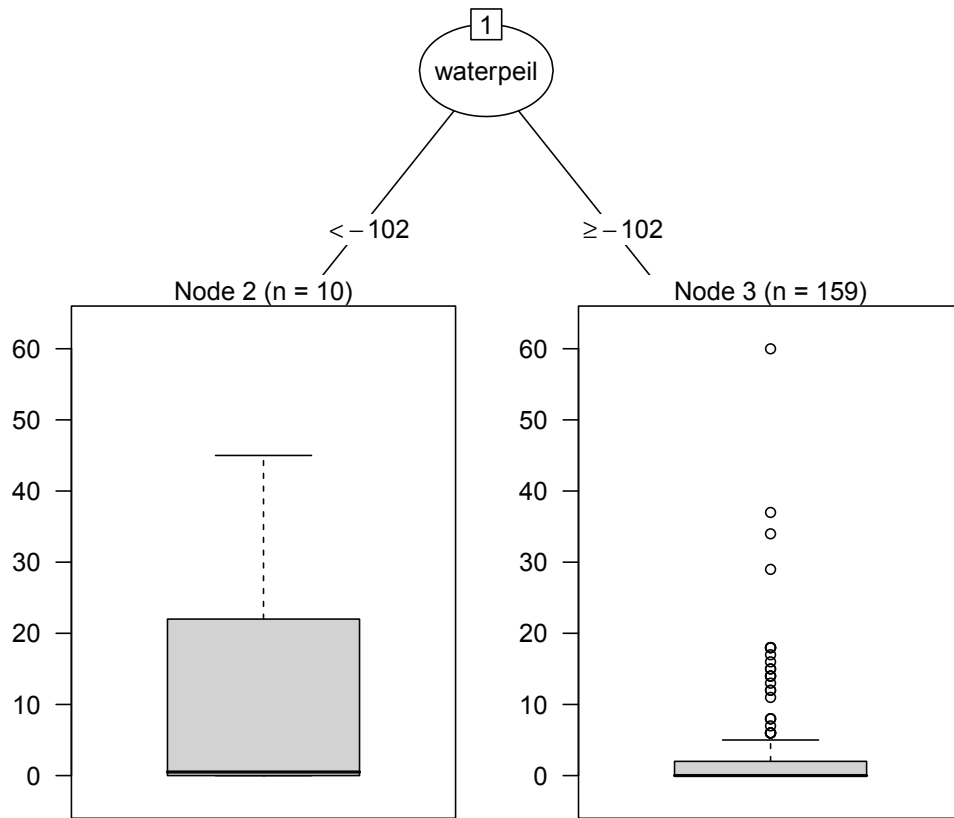
Reuzenster (Ezumakeeg Noord)



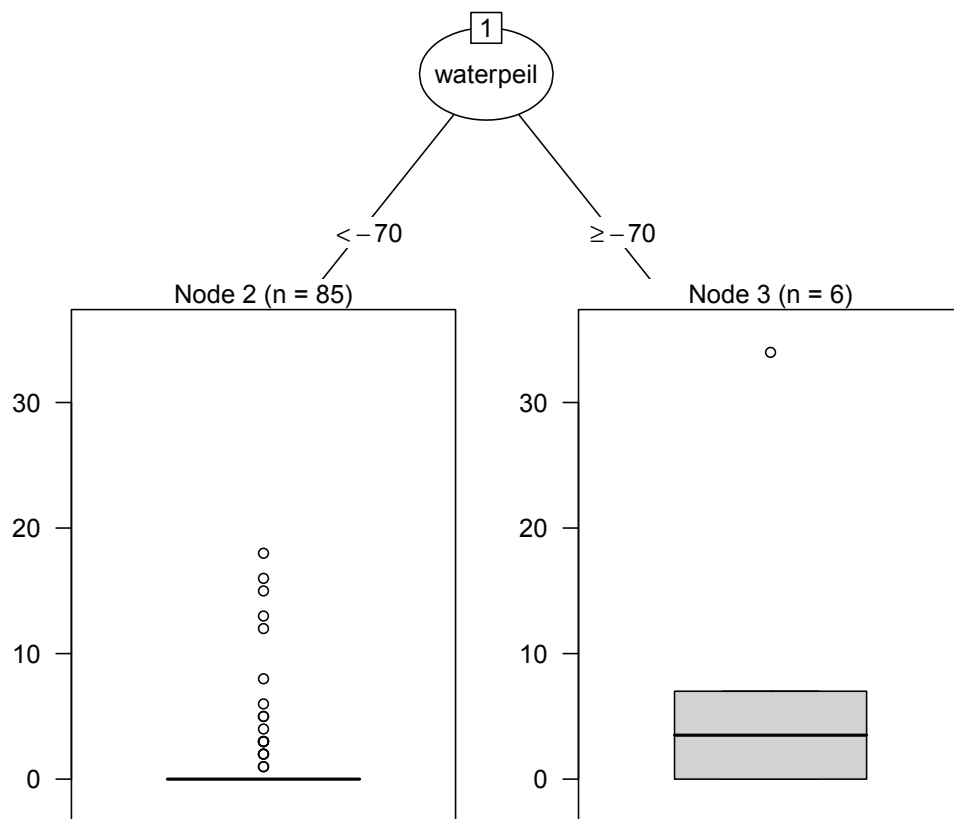
Reuzenster (Achter de Zwart)



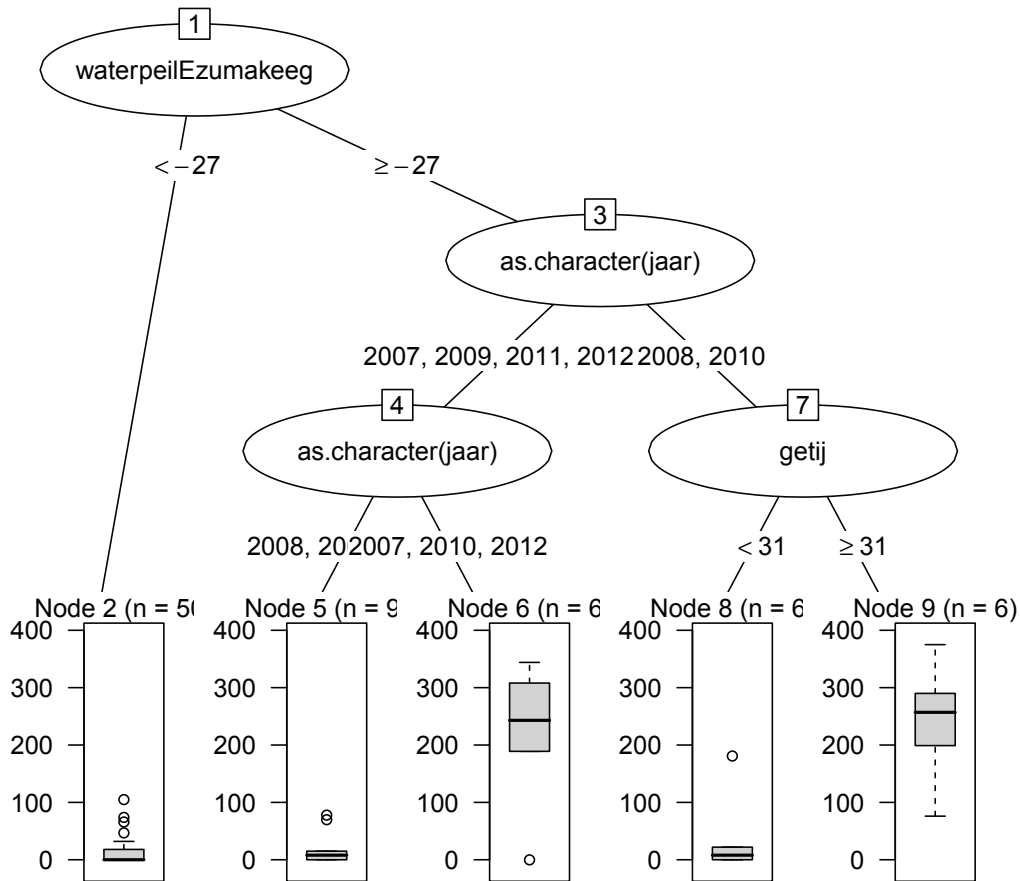
Wulp (Lauwersmeer)



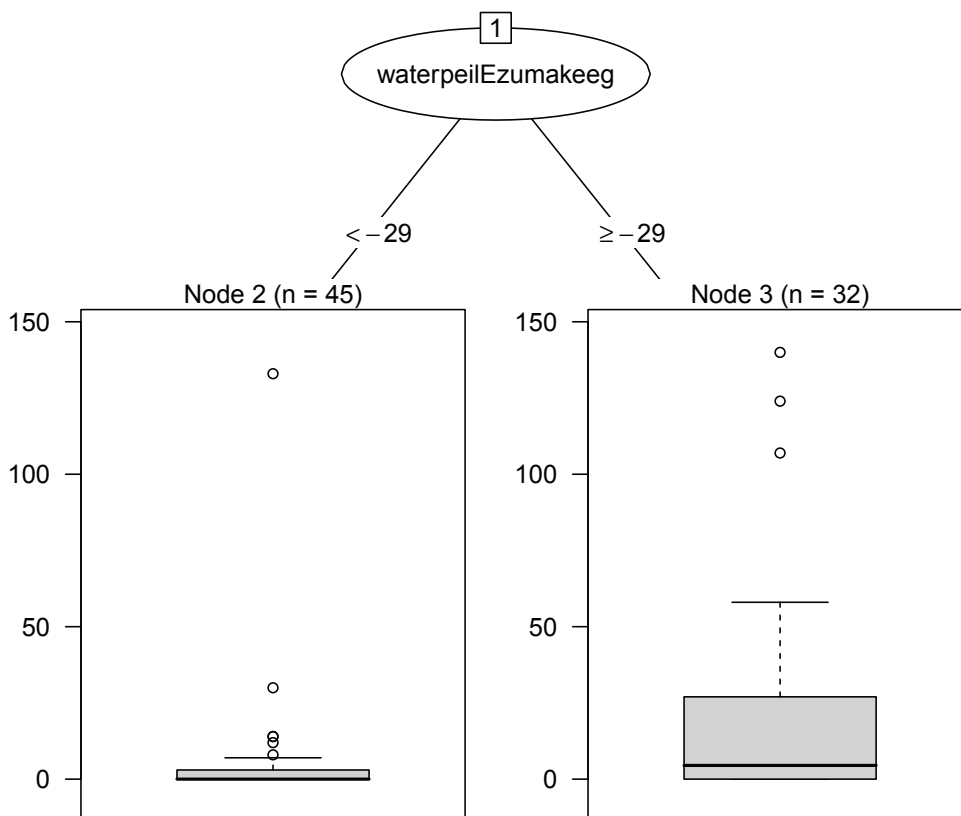
Wulp (Jaap Deensgat)



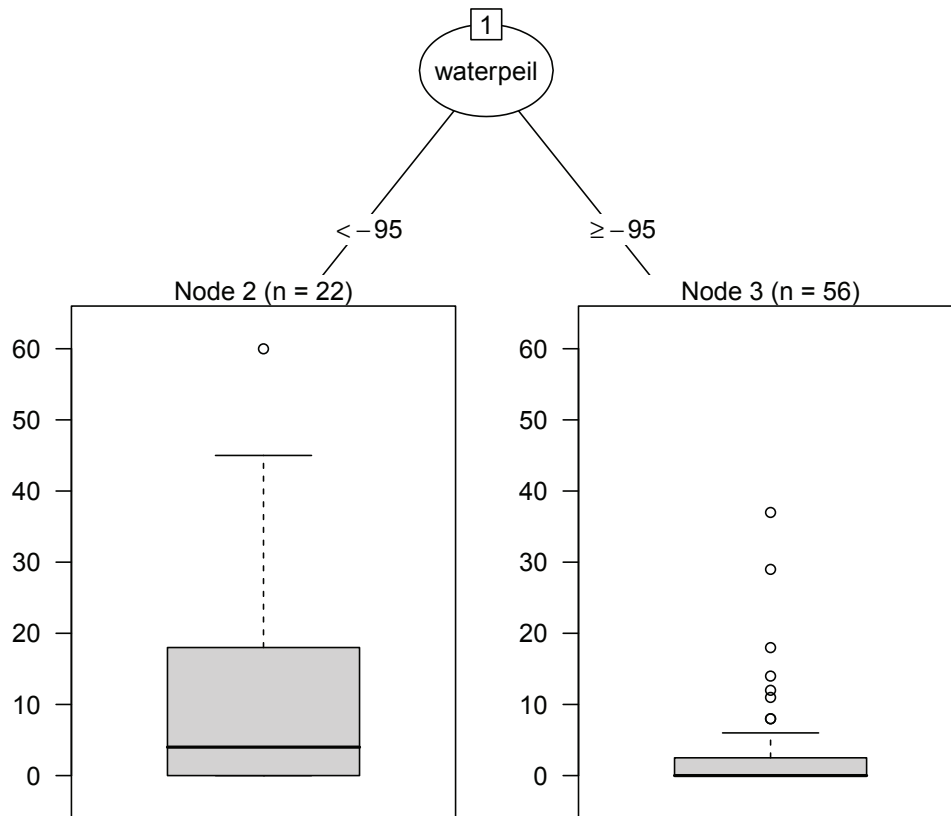
Wulp (Ezumakeeg Zuid)



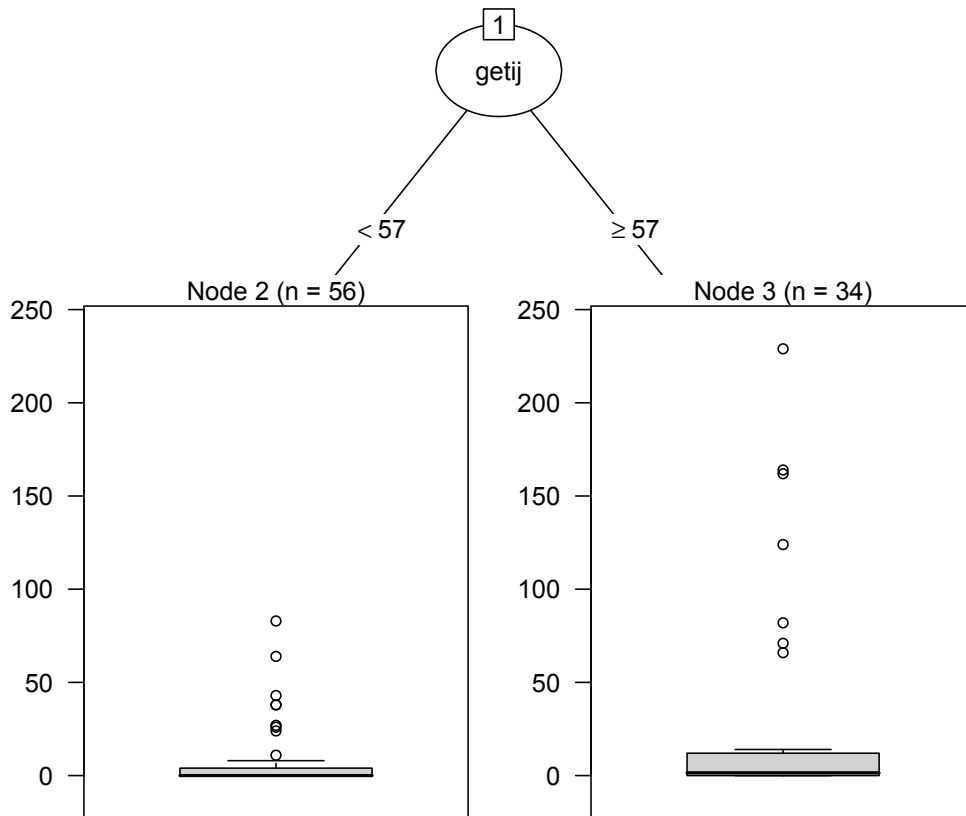
Wulp (Ezumakeeg Noord)



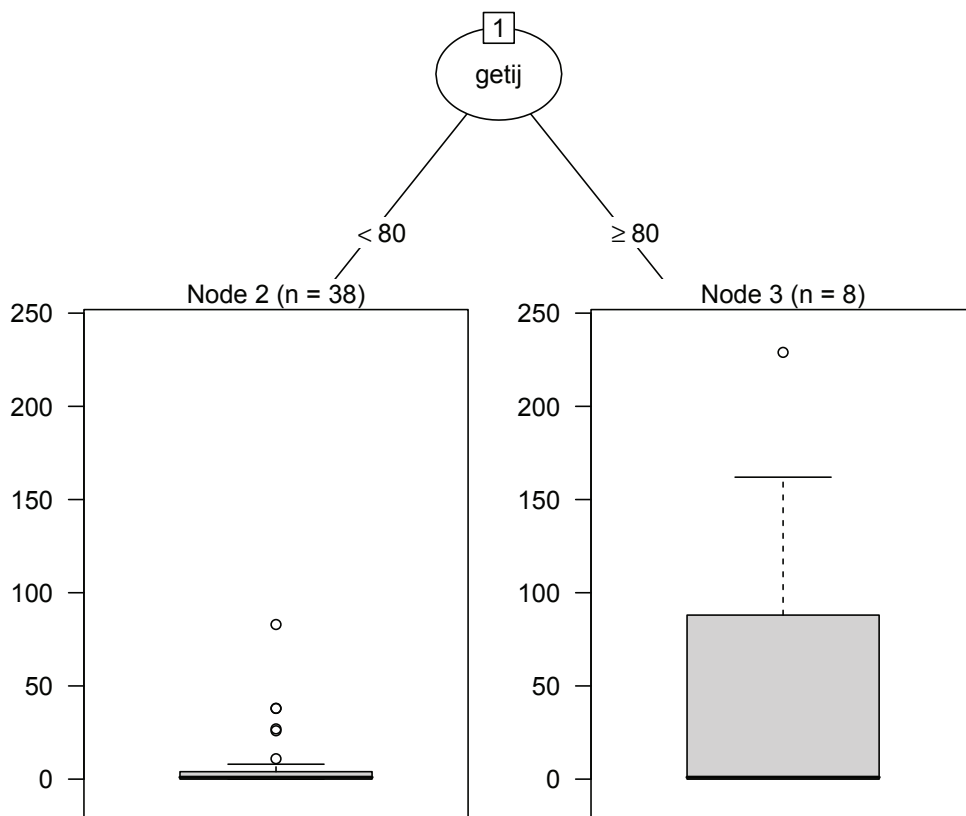
Wulp (Achter de Zwarten)



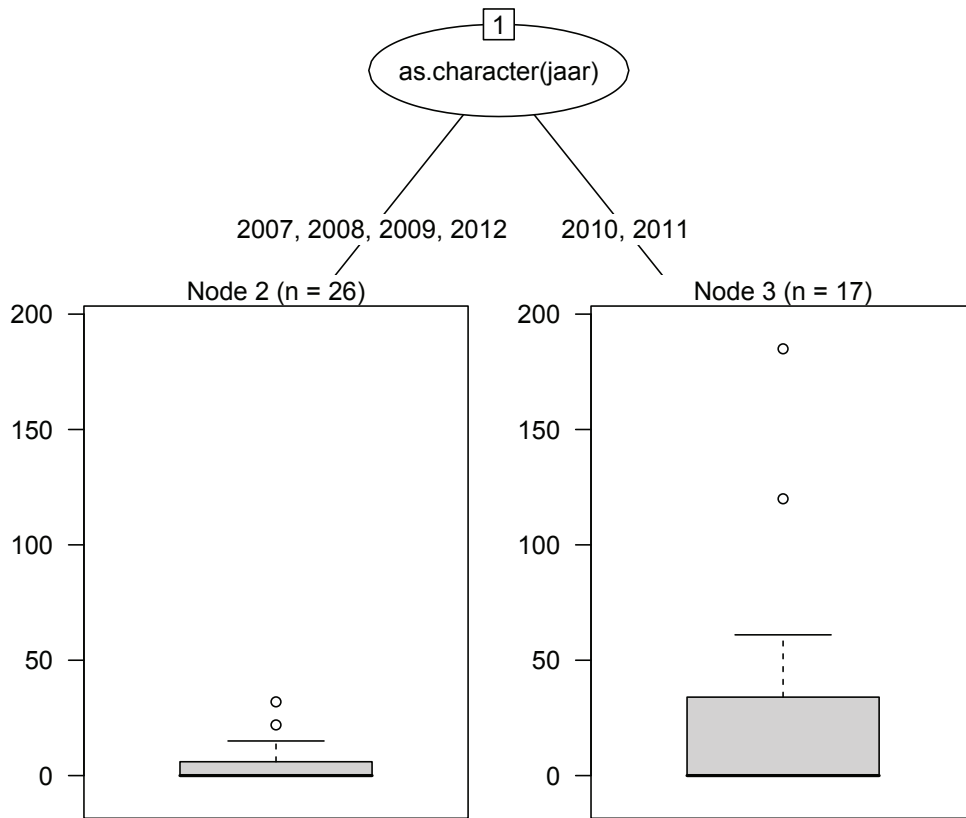
Zwarte_Ruiter (Lauwersmeer)



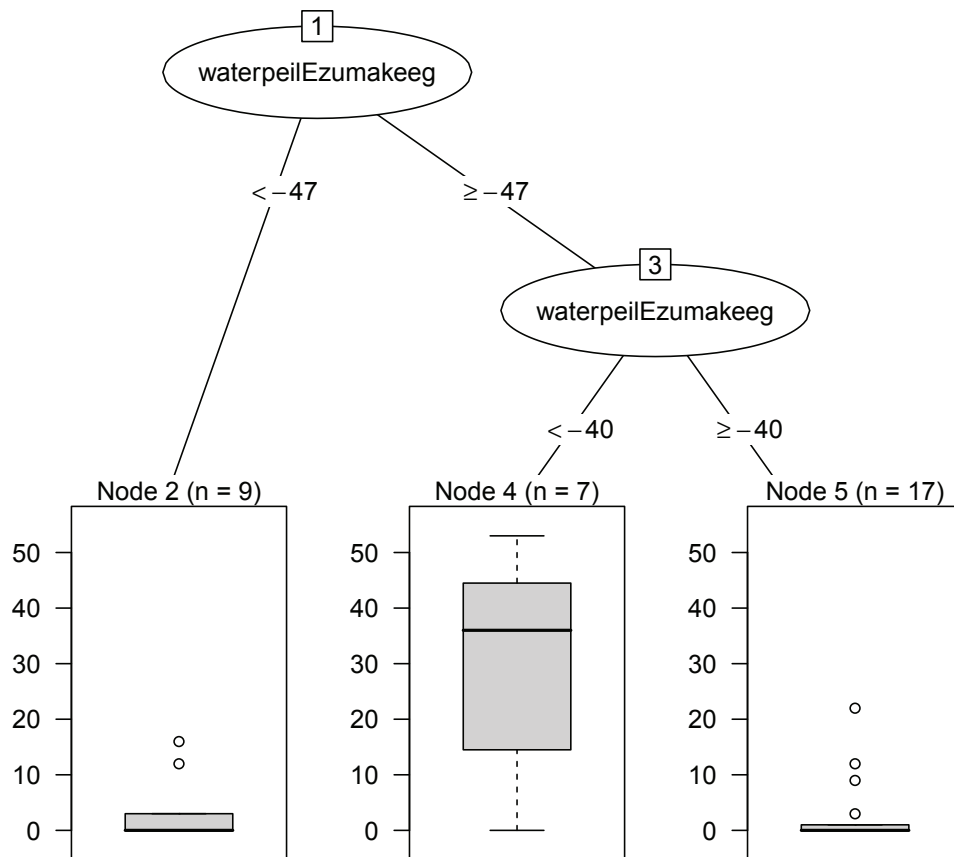
Zwarte_Ruiter (Jaap Deensgat)



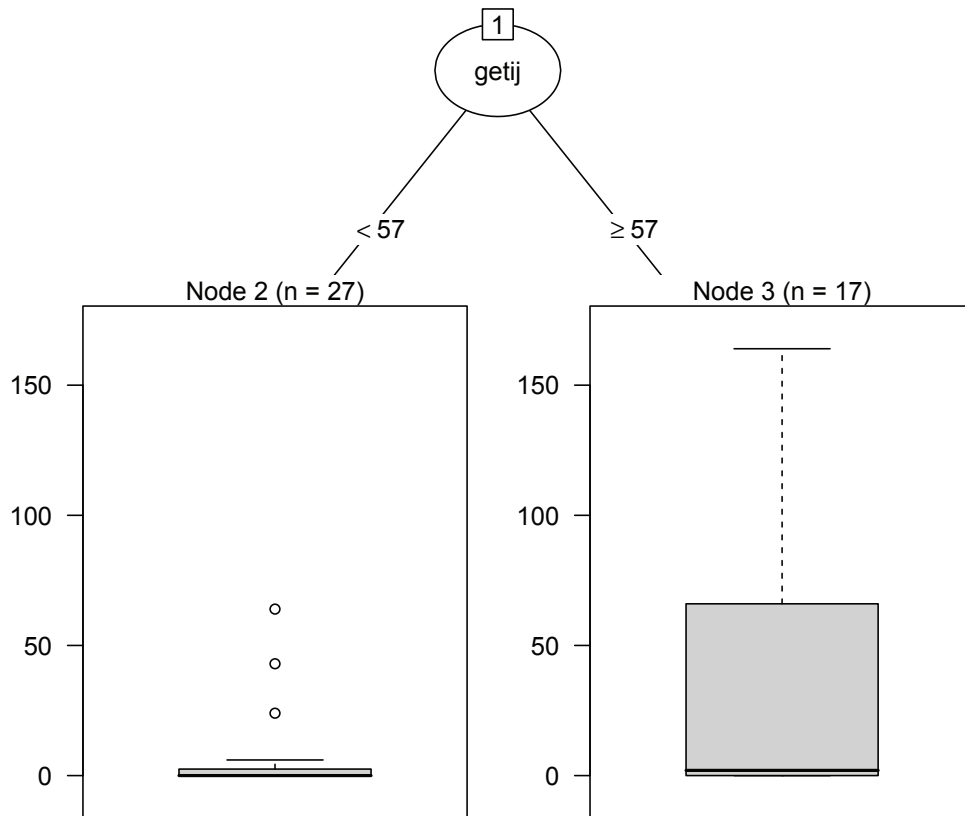
Zwarte_Ruiter (Ezumakeeg Zuid)



Zwarte_Ruiter (Ezumakeeg Noord)



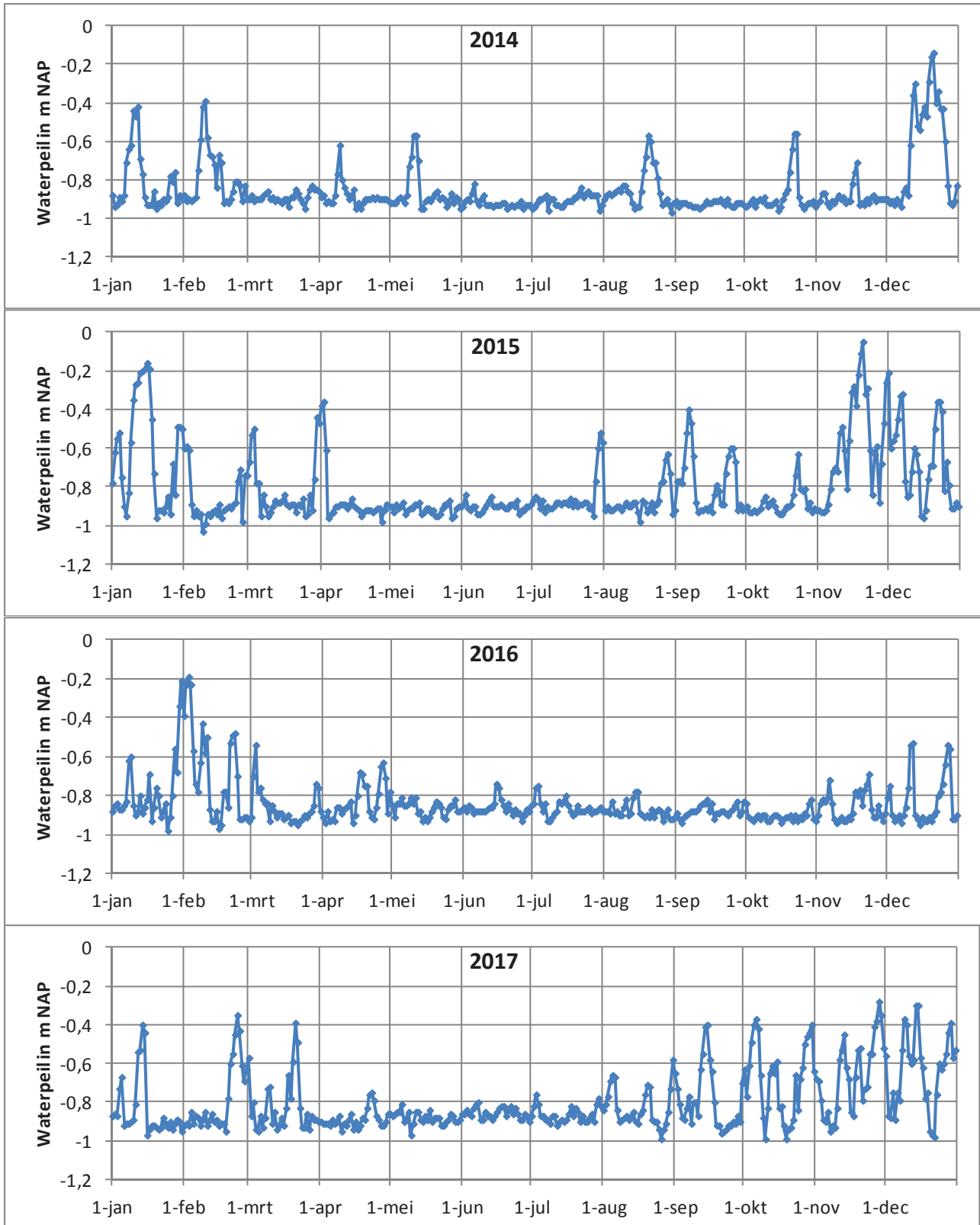
Zwarte_Ruiter (Achter de Zwartten)



Bijlagen hoofdstuk 9

Bijlage 14. Waterpeilverloop Lauwersmeer 2014-2017

Waterpeilverloop in de boezem van het Lauwersmeer in 2014-2017. Locatie: R.J. Cleveringhsluizen Lauwersoog. Weergegeven is het maximum waterpeil per dag, gebaseerd op metingen om het kwartier.



Bijlage 15. Waterpeilen Lauwersmeer op teldagen van roofvogels in 2017

Weergegeven is het waterpeil in het Lauwersmeer op de teldag zelf en het maximum waterpeil in de periode vanaf 1 juli tot aan de teldag. Locatie: R.J. Cleverighsluizen Lauwersoog.

Teldag per maand in 2016	Waterpeil op de teldag (in m NAP)	Maximum waterpeil in periode vanaf 1 juli tot aan de teldag (in m NAP)
16-jan	-0,97	-0,40
20-feb	-0,78	-0,40
20-mrt	-0,59	-0,35
18-apr	-0,92	-0,35
15-mei	-0,90	-0,35
19-jun	-0,82	-0,35
17-jul	-0,86	-0,76
14-aug	-0,85	-0,66
25-sep	-0,92	-0,40
23-okt	-0,66	-0,37
27-nov	-0,38	-0,37
24-dec	-0,60	-0,28

Bijlage 16. Resultaten muizencensus 2017

Overzicht van het totaal aantal gevangen muizen per soort per muizenraai in het Lauwersmeer in oktober 2017. Voor de ligging van de muizenaaien zie figuur 9.3.

Muizenraai	Vangsten totaal 2017							Totaal
	Veld- muis	Aard- muis	Bosspits- muis	Waterspits- -muis	Dwergspits- muis	Bos- muis	Dwerg- muis	
Pampusplaat 1	0	0	0	0	0	0	0	4
Pampusplaat 2	4	0	0	0	0	0	0	0
Schildhoek 1	0	16	6	0	2	0	1	25
Schildhoek 2	1	33	0	0	0	0	0	34
Z.Ballastplaat 1	11	0	1	0	0	0	0	12
Z. Ballastplaat 2	19	0	0	0	0	0	0	19
Zuidelijke lob 1	12	0	8	0	0	0	2	22
Zuidelijke lob 2	29	0	0	0	0	0	0	29
Rug 1	2	0	1	0	0	0	4	7
Rug 2	4	0	1	0	0	0	7	12
Totaal	82	49	17	0	2	0	14	164

Overzicht van het aantal individuele vangsten van woelmuizen (Veldmuis, Aardmuis, totaal) en de muizenindex (Veldmuis, Aardmuis, totaal) per muizenraai in het Lauwersmeer in oktober 2016. Voor de ligging van de muizenaaien zie figuur 9.3.

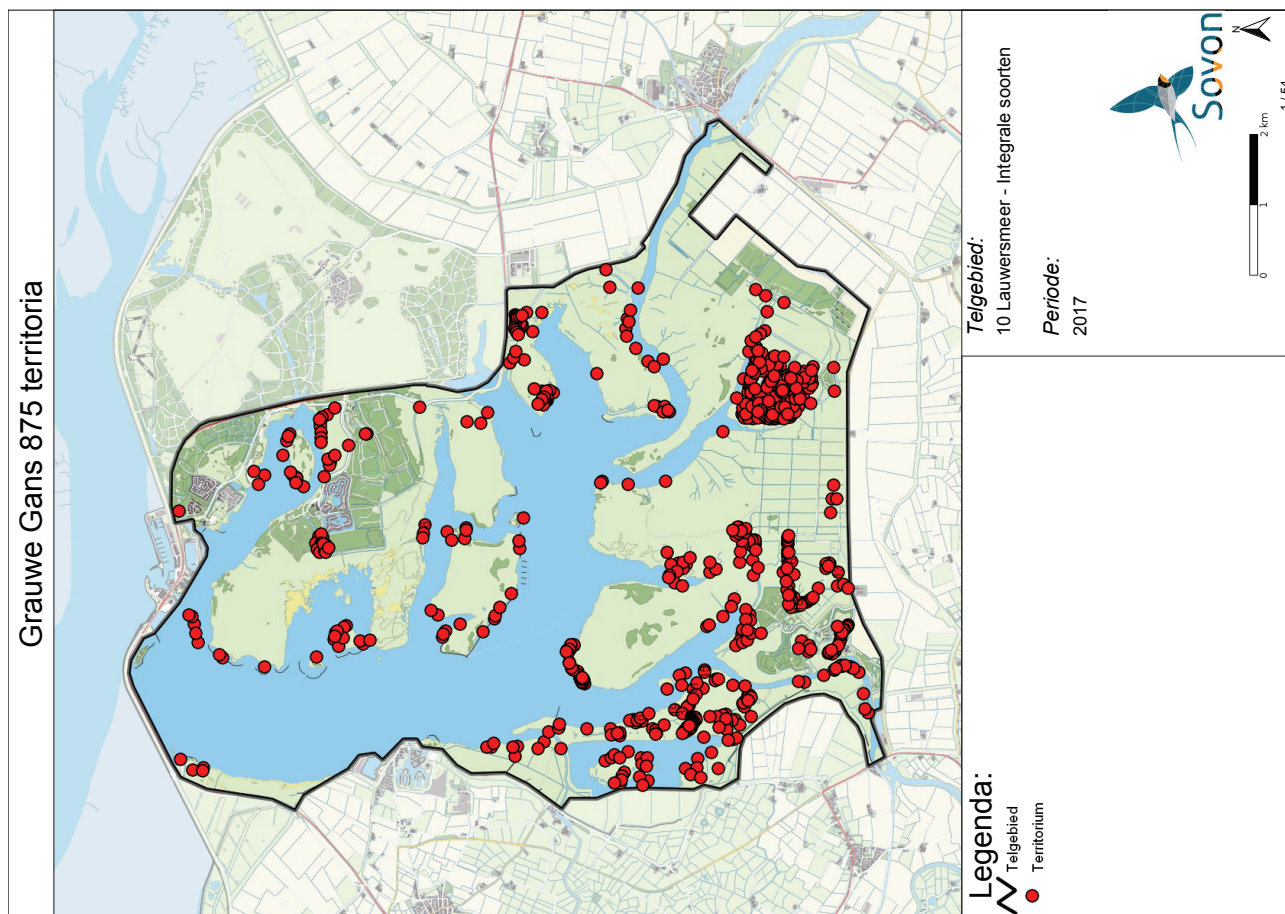
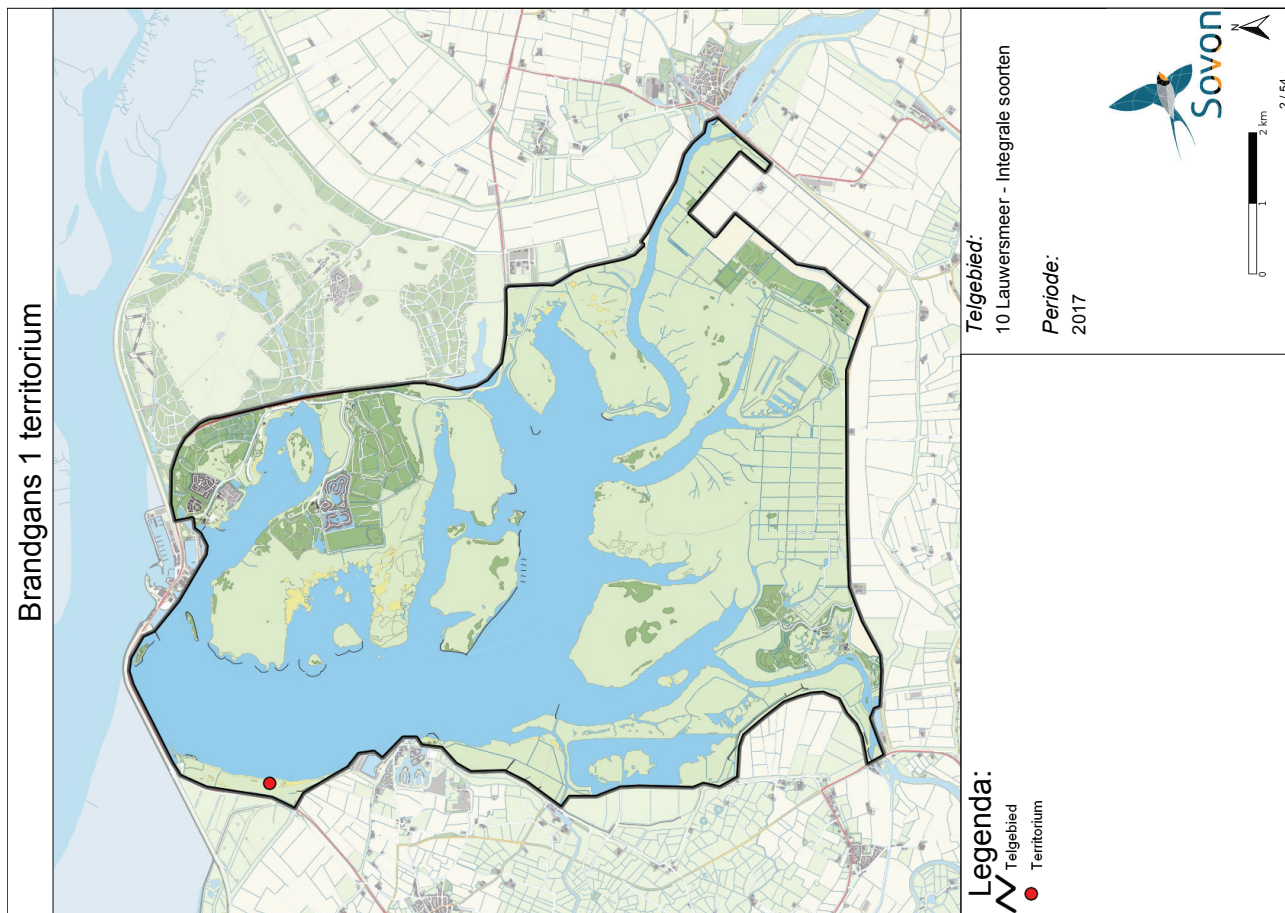
Muizenraai	Individuele vangsten totaal 2017			Muizenindex		
	Veldmuis	Aardmuis	Woelmuis totaal	Veldmuis	Aardmuis	Woelmuis totaal
Pampusplaat 1	0	0	0	0,0	0,0	0,0
Pampusplaat 2	2	0	2	3,3	0,0	3,3
Schildhoek 1	0	13	13	0,0	21,7	21,7
Schildhoek 2	1	27	28	1,7	45,0	46,7
Z.Ballastplaat 1	8	0	8	13,3	0,0	13,3
Z. Ballastplaat 2	8	0	8	13,3	0,0	13,3
Zuidelijke lob 1	8	0	8	13,3	0,0	13,3
Zuidelijke lob 2	16	0	16	26,7	0,0	26,7
Rug 1	2	0	2	3,3	0,0	3,3
Rug 2	4	0	4	6,7	0,0	6,7
Totaal	49	40	89	8,2	6,7	14,8

Bijlage 17. Maaiveldhoogte volgens AHN2 en vegetatie in muizenraaien in 2017

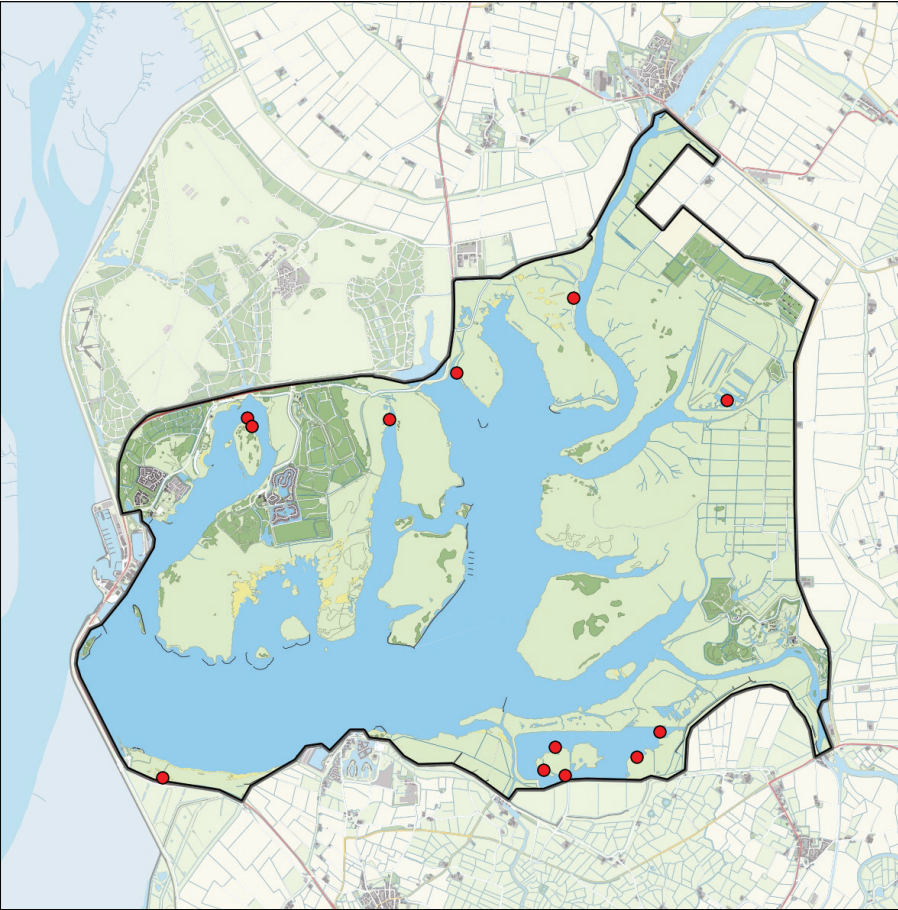
Samenvatting van vegetatiemetingen (gemiddeldes) in de muizenraaien in oktober 2016.


Locatie	hoogte op plaat (m NAP)	vegetatiehoogte (cm)	vegetatiebedekking (%)	bedekking houtigen (%)	riethoogte (cm)
Ppl. 1	-0,37	44	86	0	101
Ppl. 2	-0,40	12	85	0	63
SH 1	0,04	42	82	2	140
SH 2	-0,10	70	83	3	149
ZBP 1	0,02	47	70	63	39
ZBP 2	0,05	26	62	37	34
Zlob 1	-0,35	33	93	55	54
Zlob 2	-0,39	35	89	55	52
Rug 1	0,40	19	42	7	38
Rug 2	0,40	26	43	7	56

Bijlage 18. Stippenkaarten integrale soorten 2017



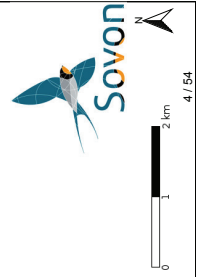
Slobeend 12 territoria



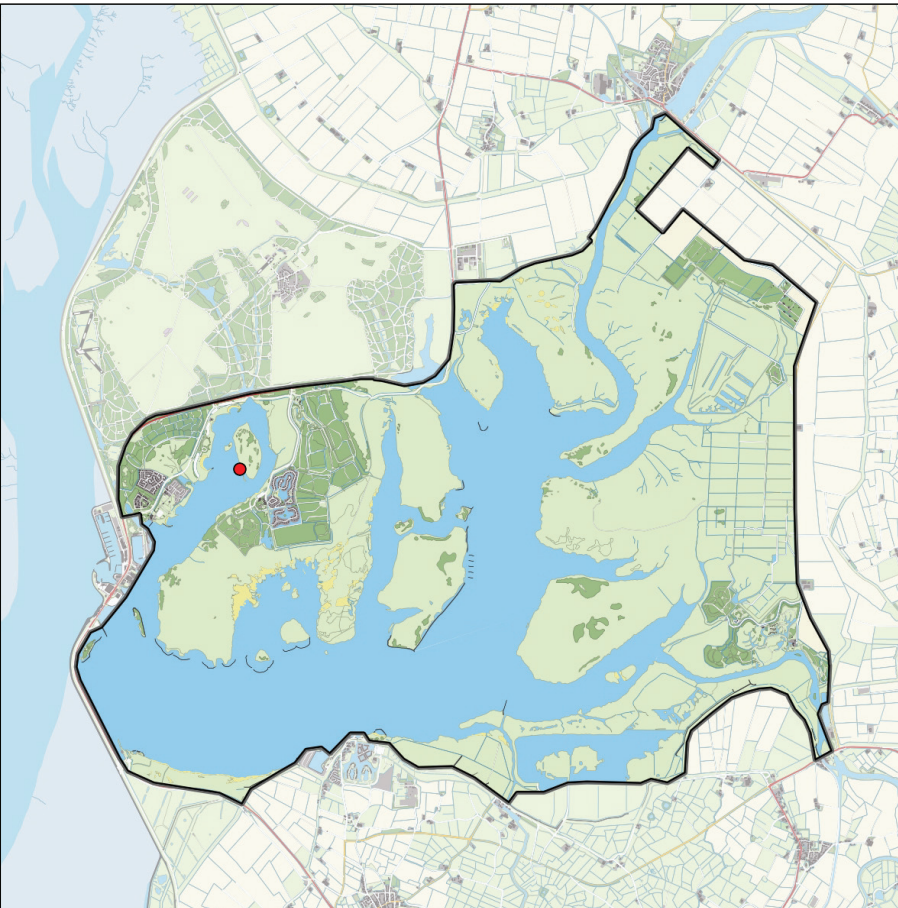
Legenda:
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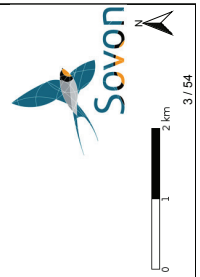
Nijgans 1 territorium

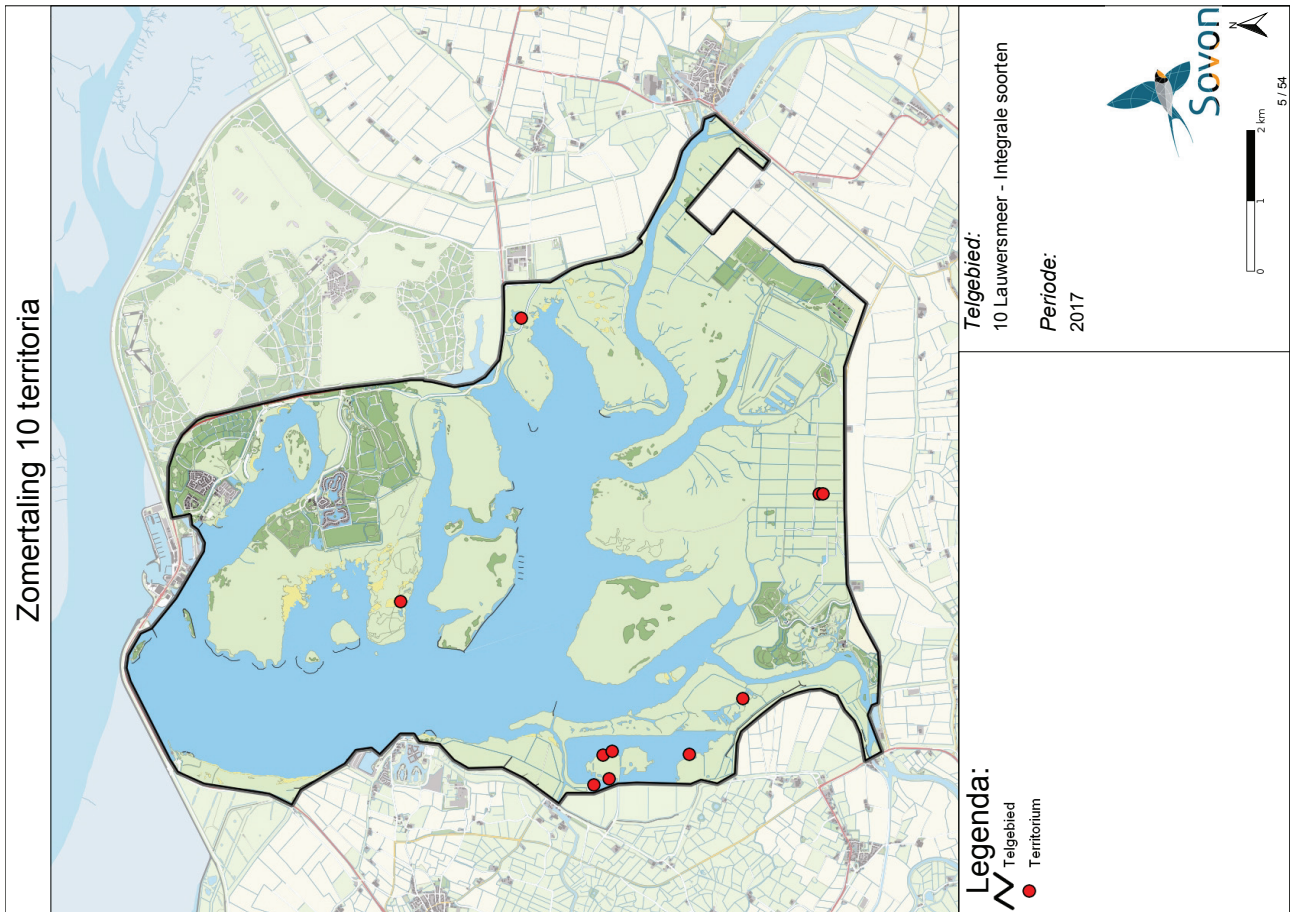
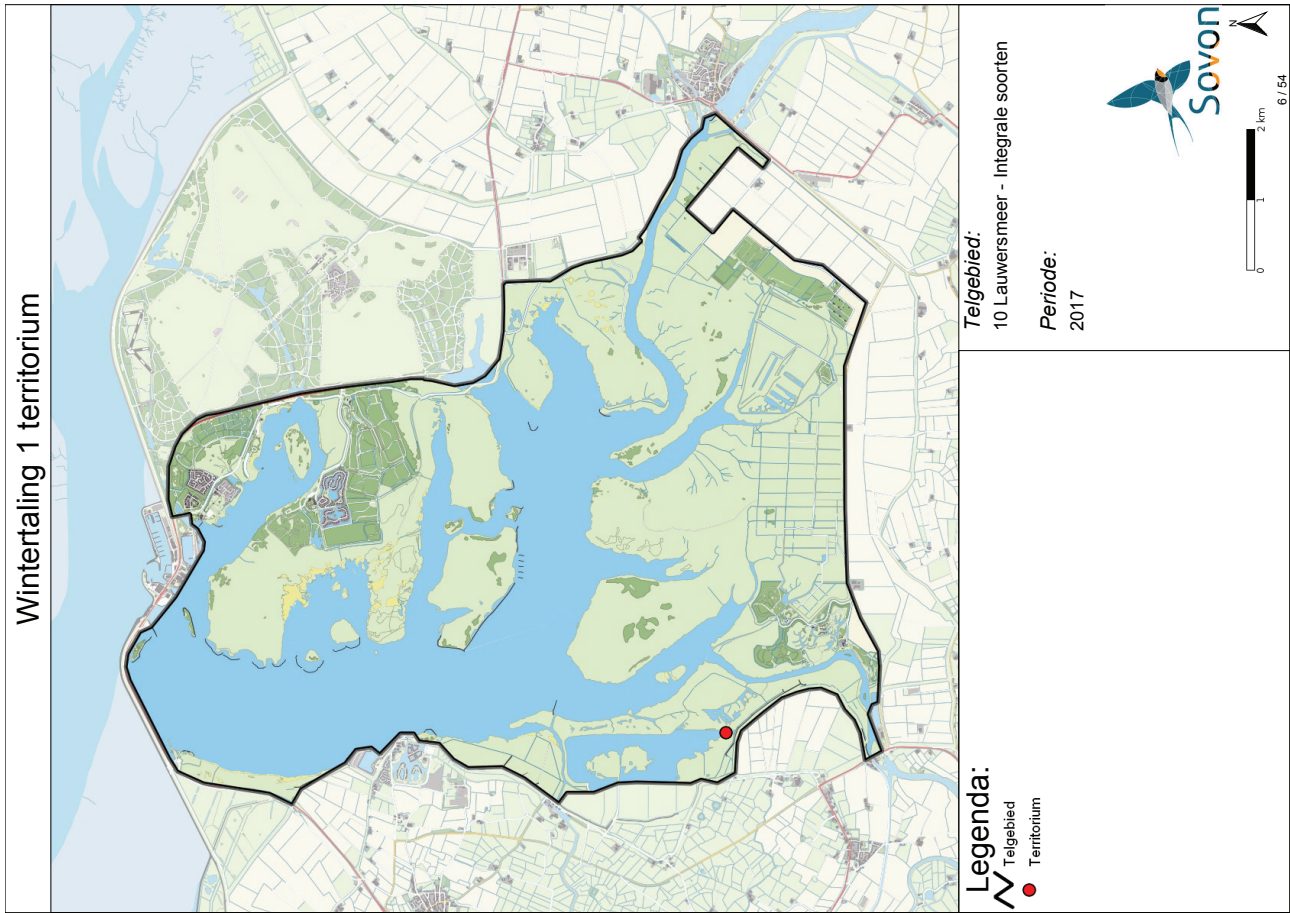


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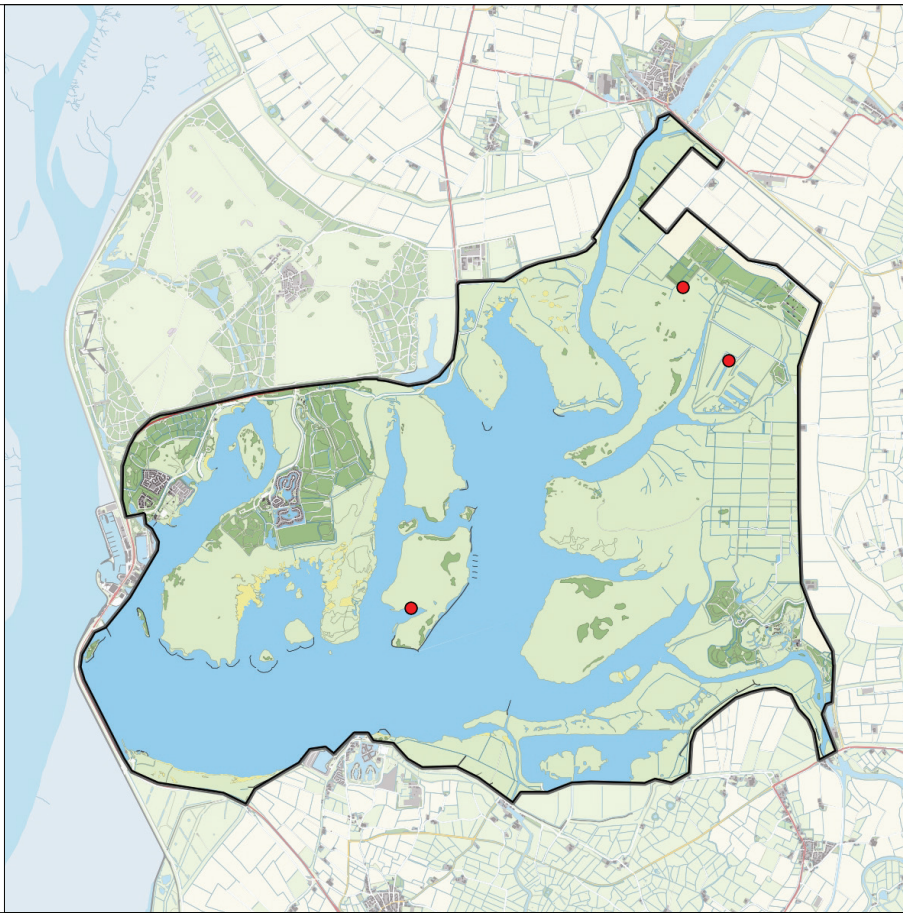
Telgebied:
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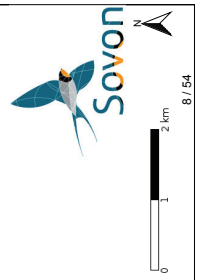
Dodaars 3 territoria



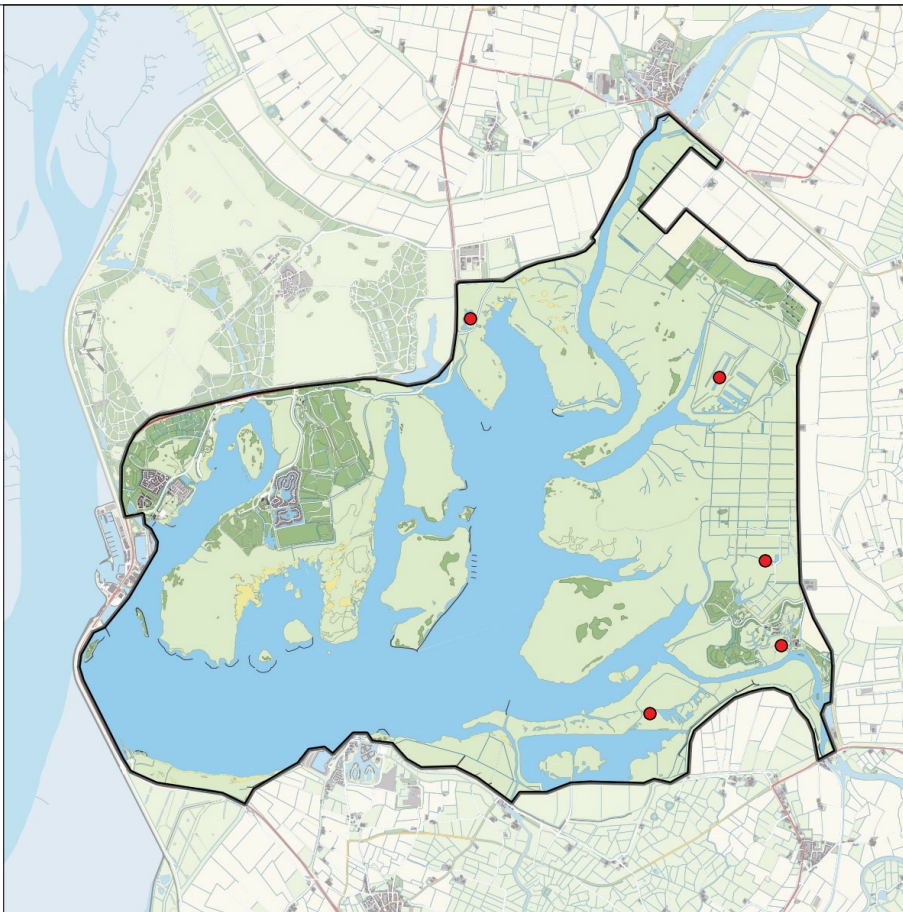
Legenda:
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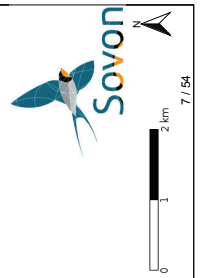
Roerdomp 5 territoria

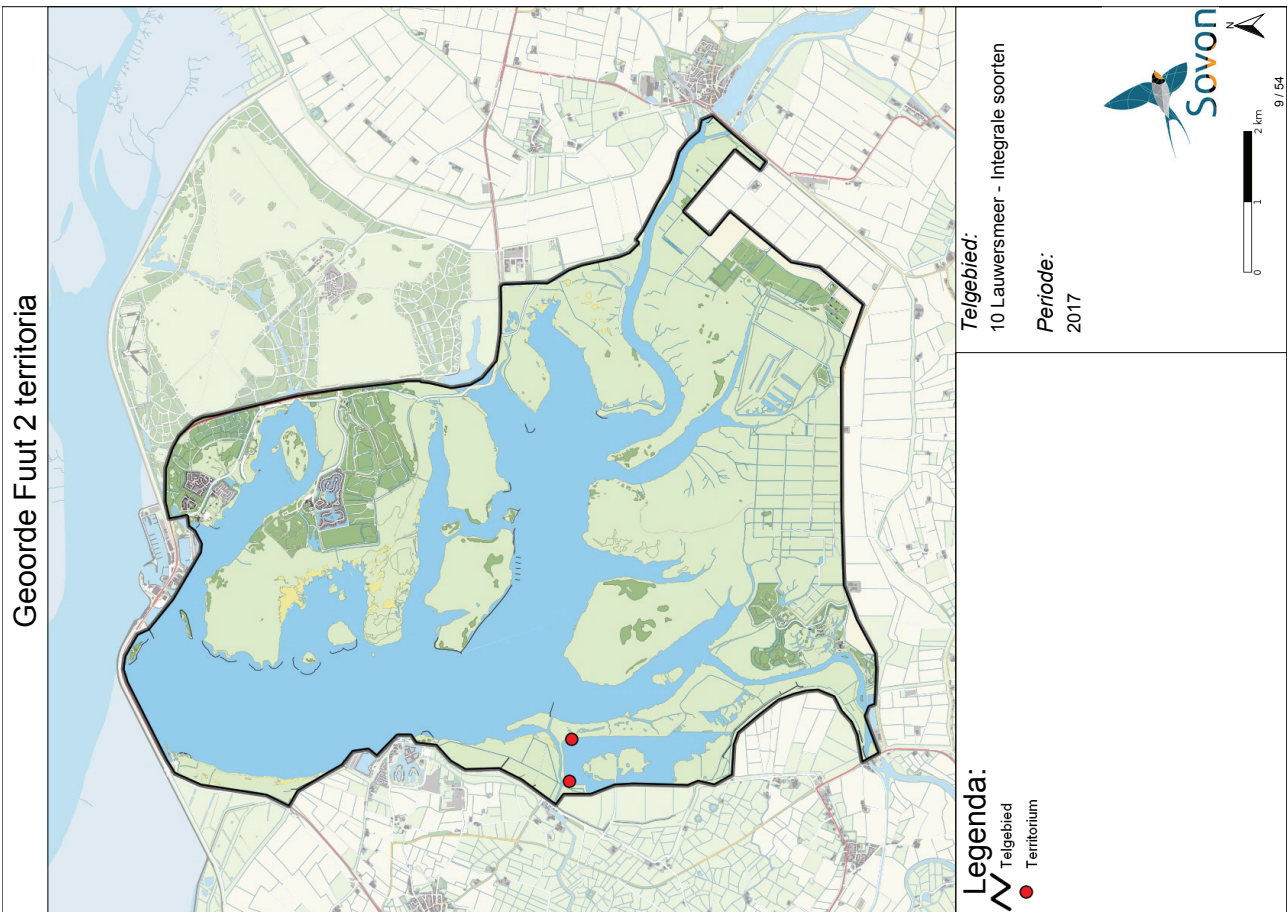
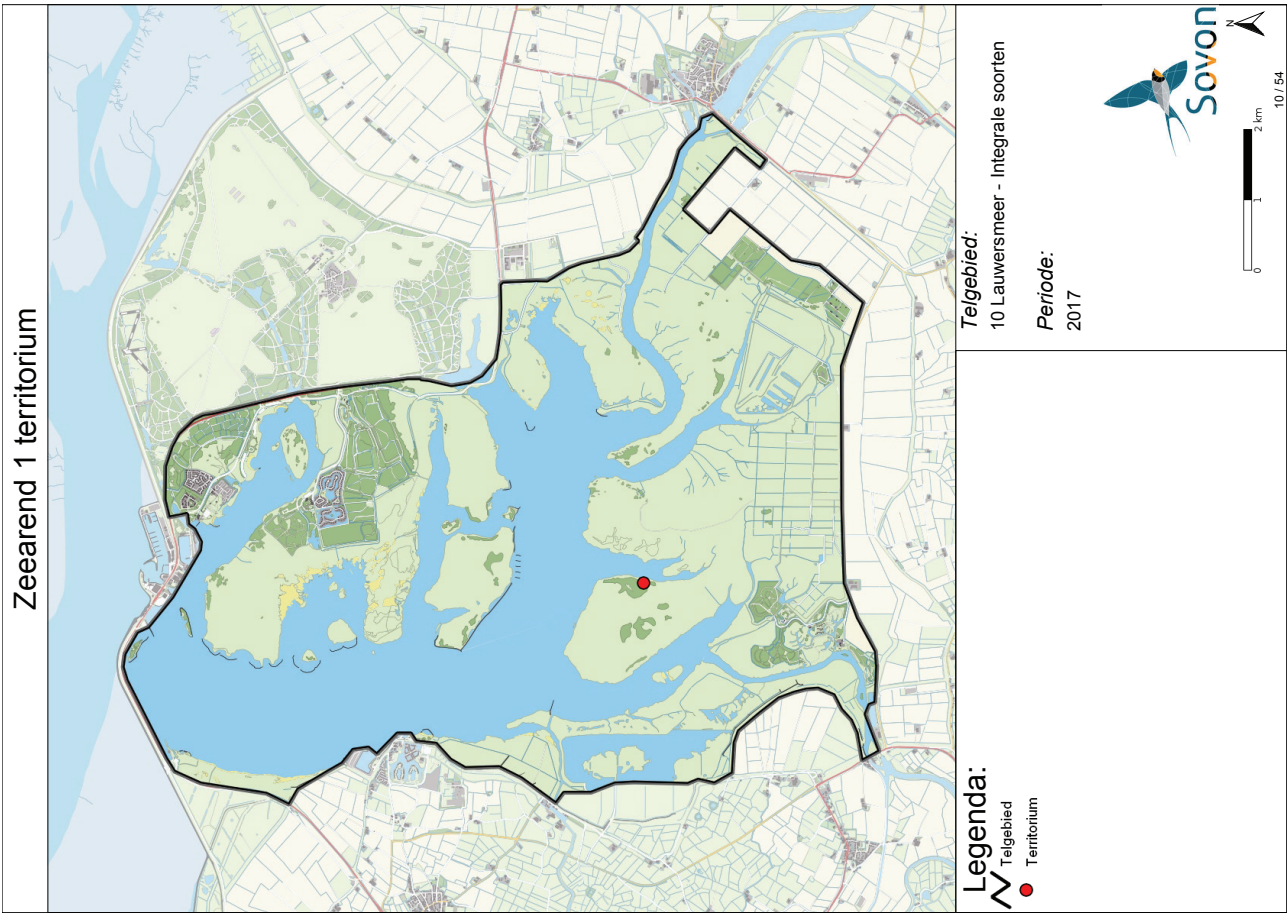


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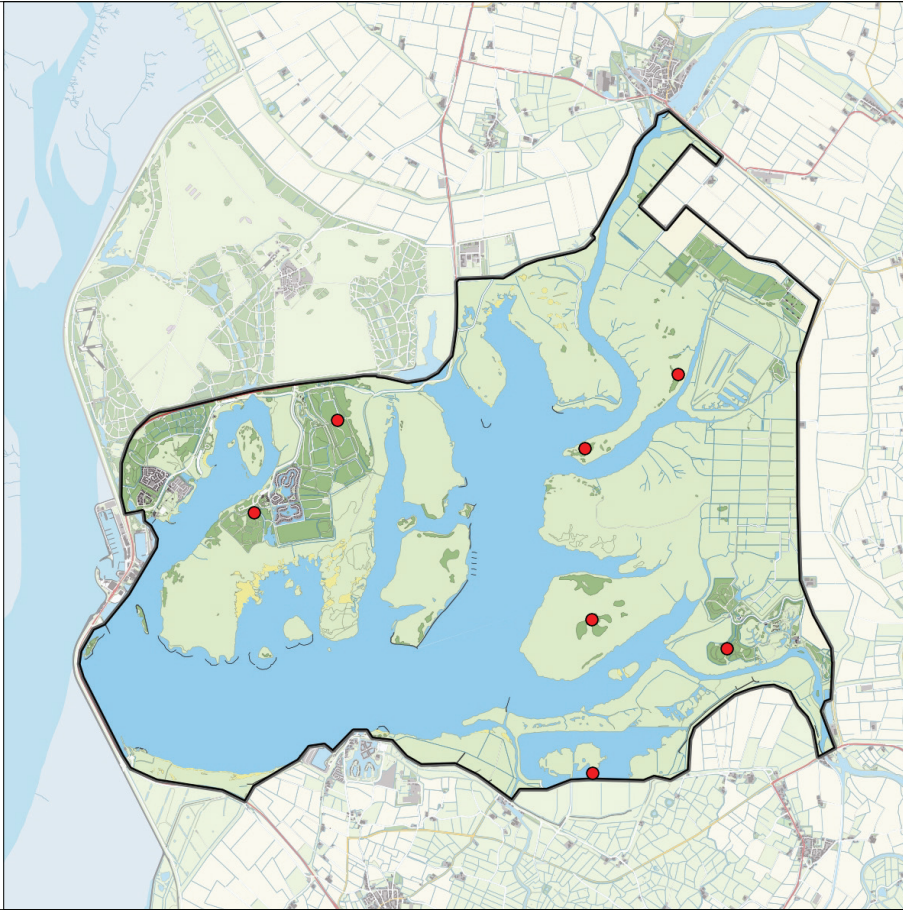
Telgebied:
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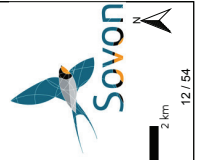


Havik 7 territoria

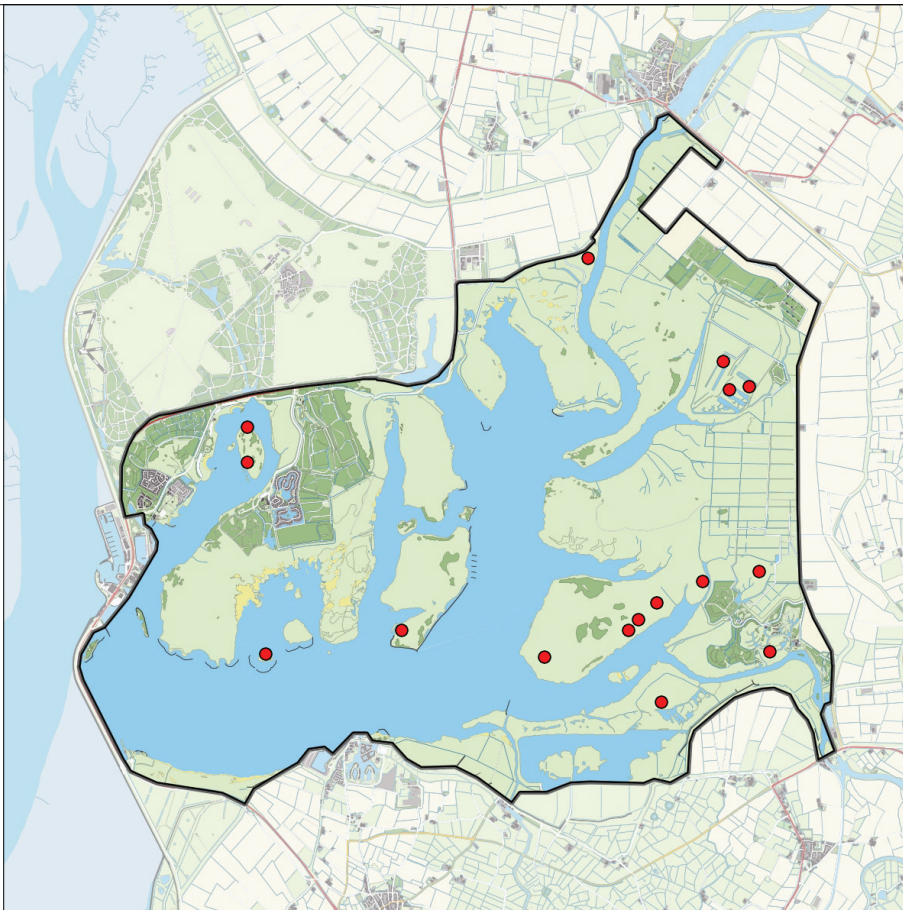




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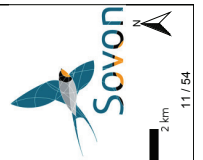


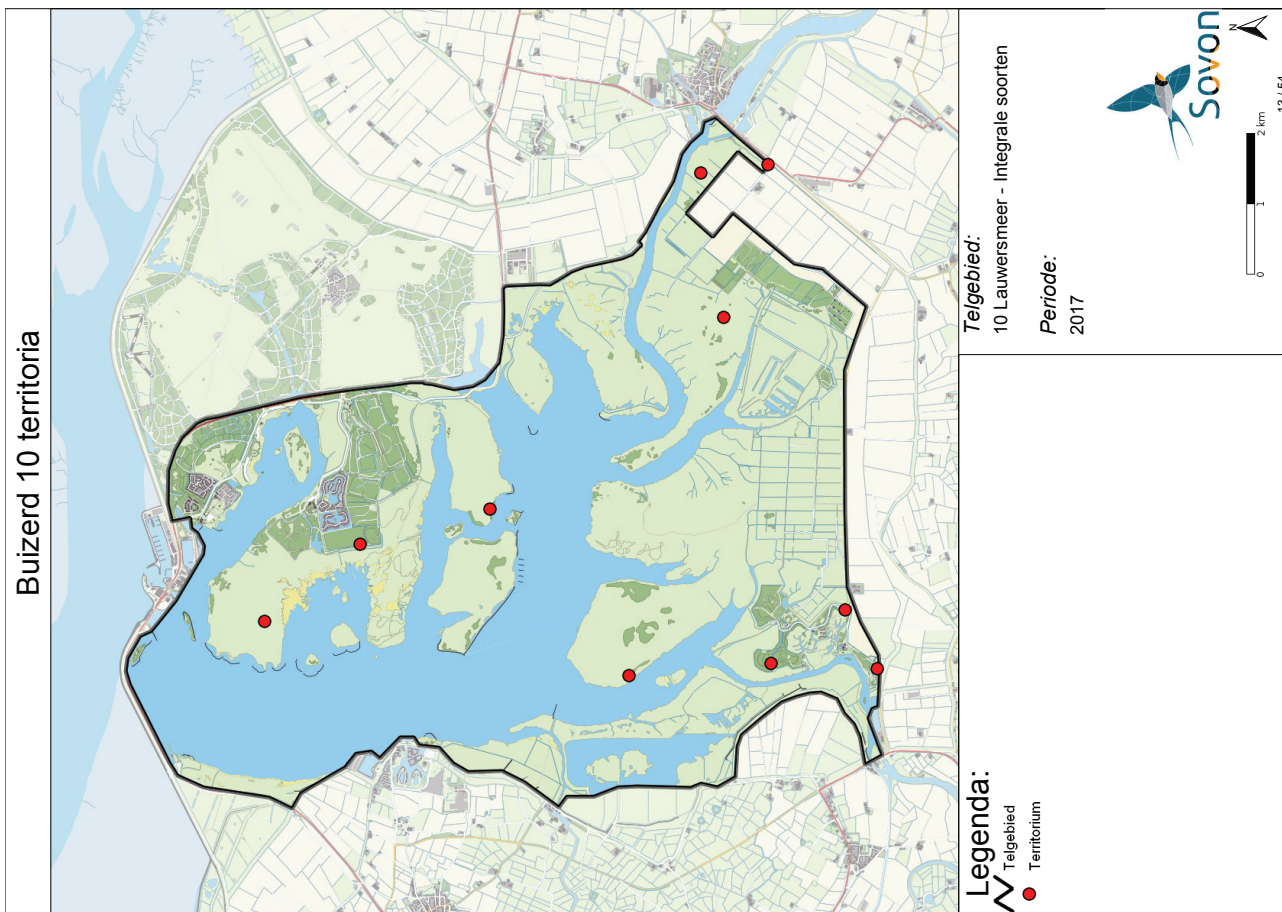
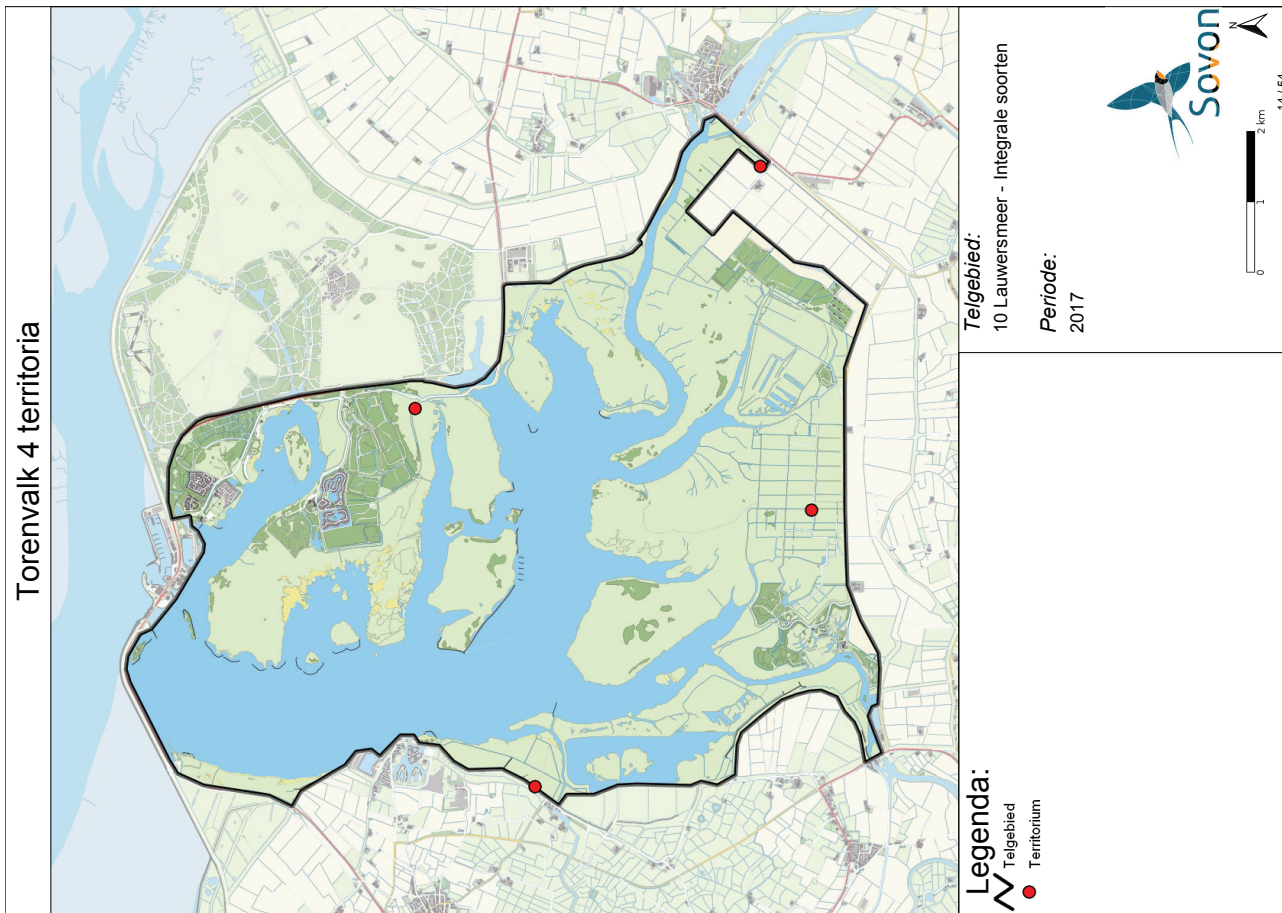
Bruine Kiekendief 16 territoria



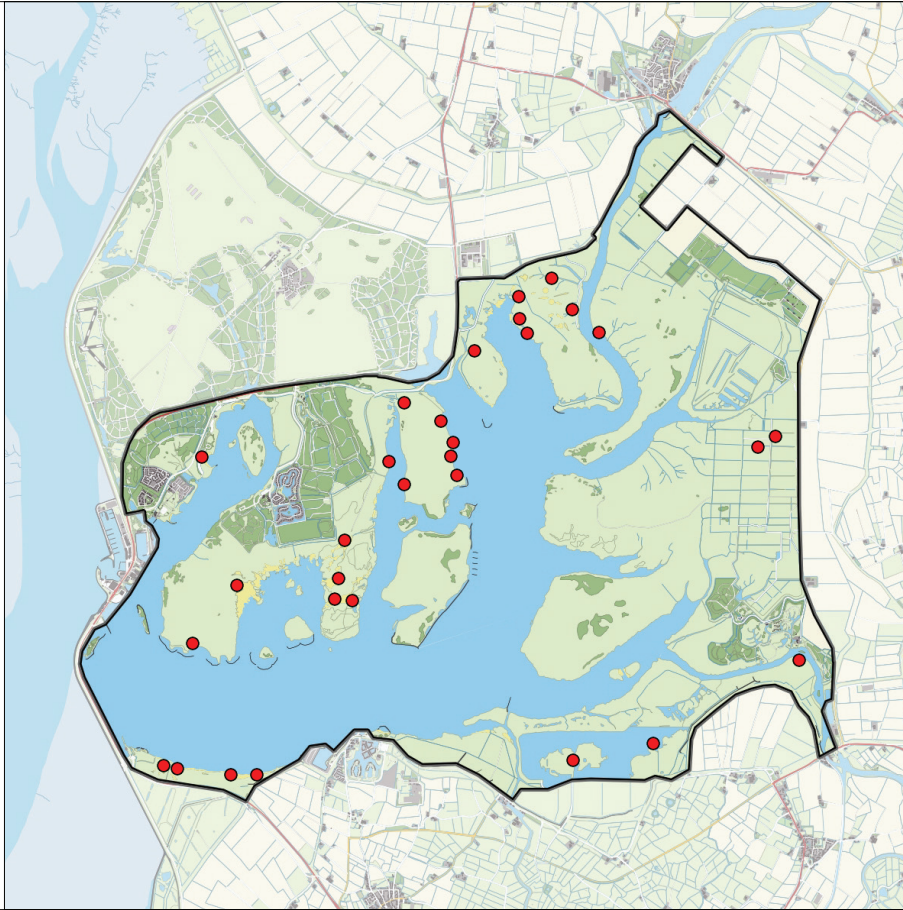
Legenda:
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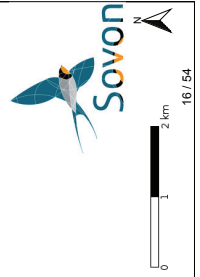
Scholekster 30 territoria



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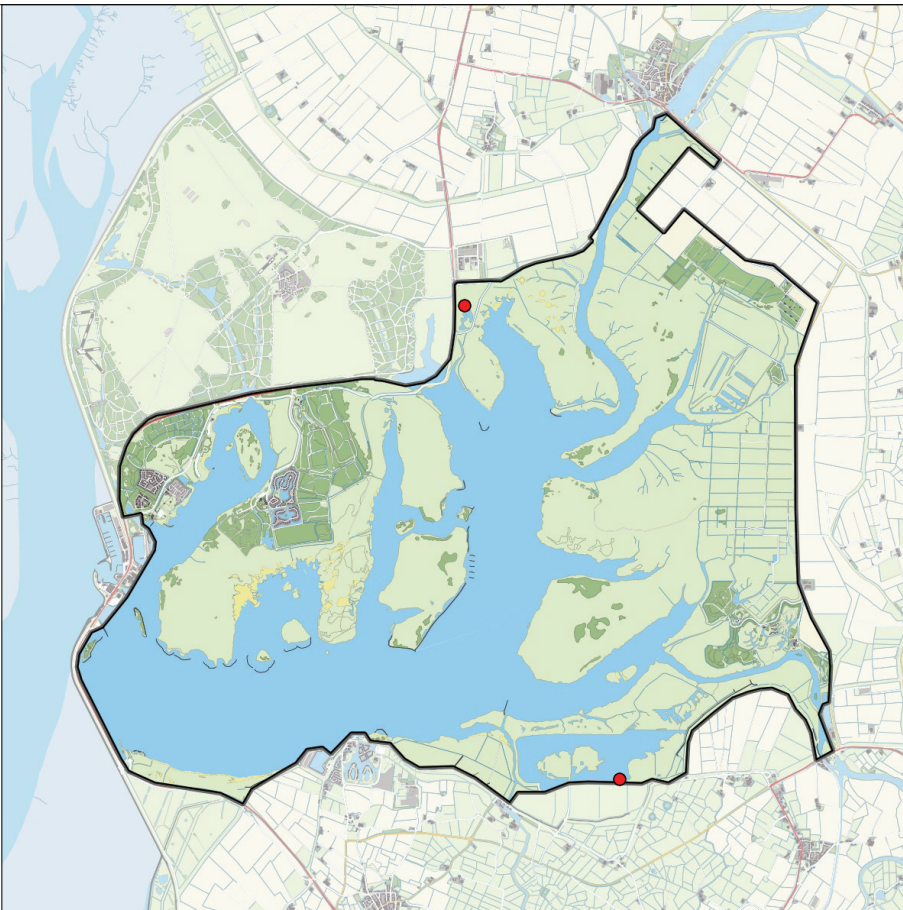
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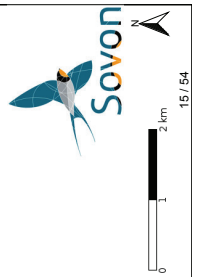
Porseleinhoen 2 territoria



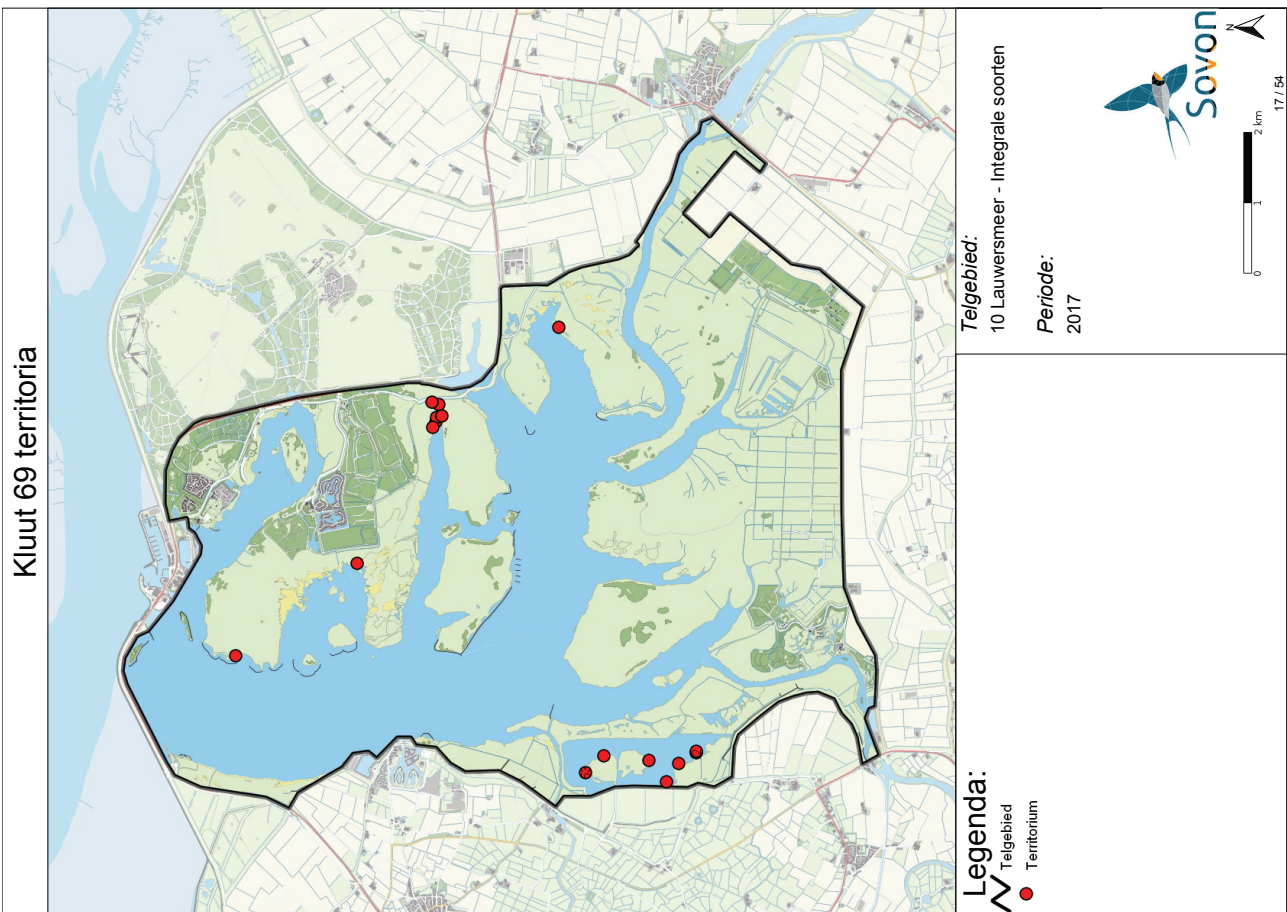
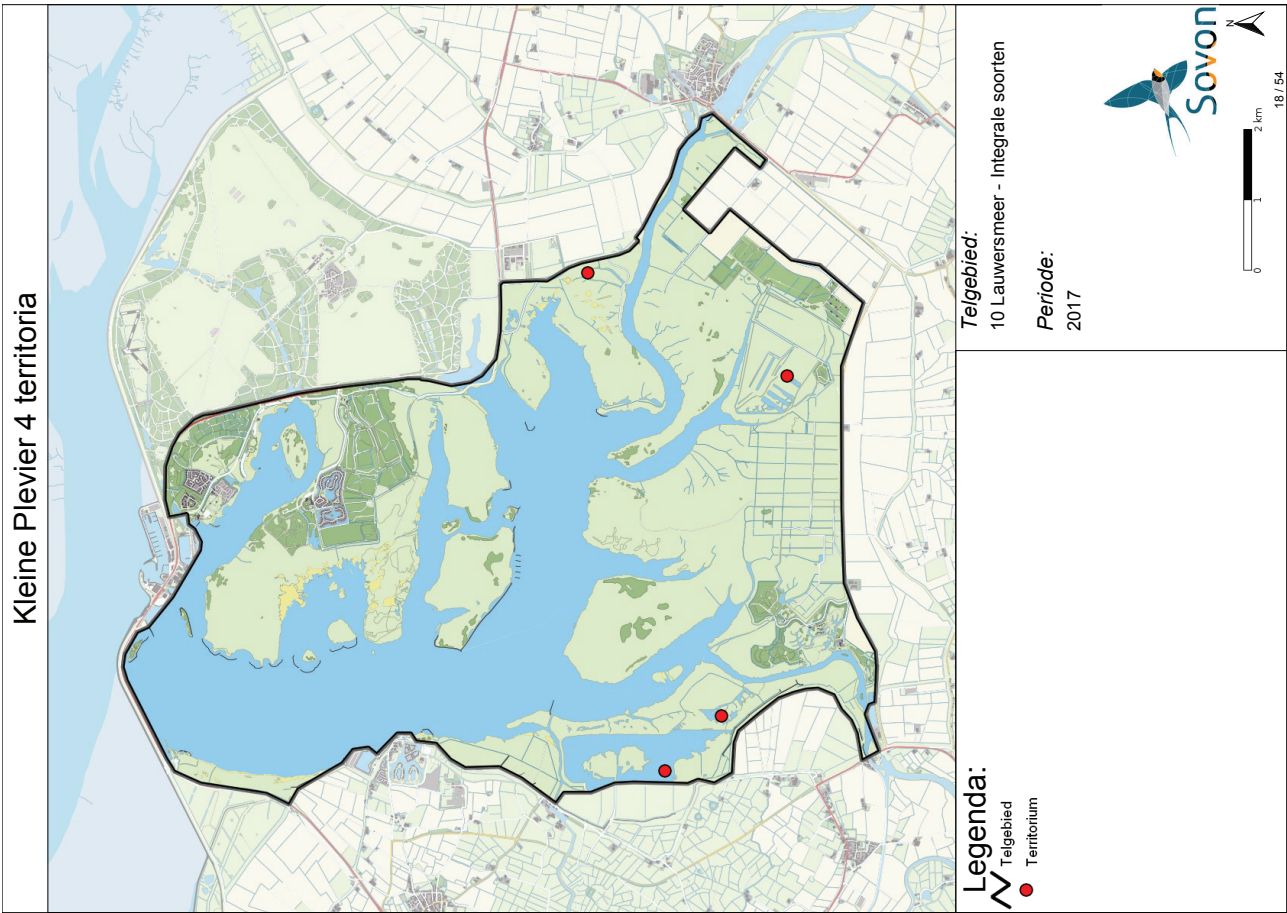
Legenda:
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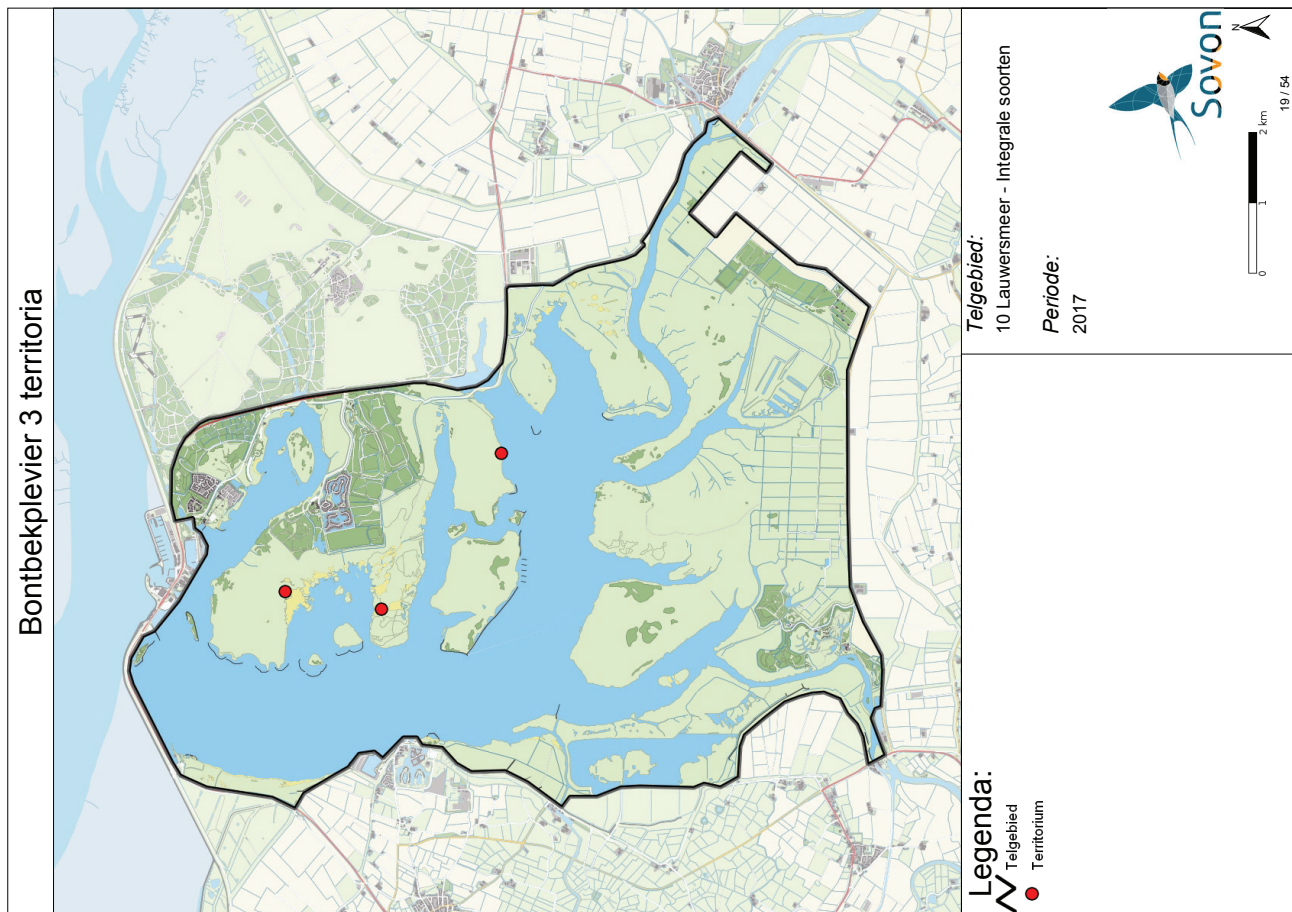
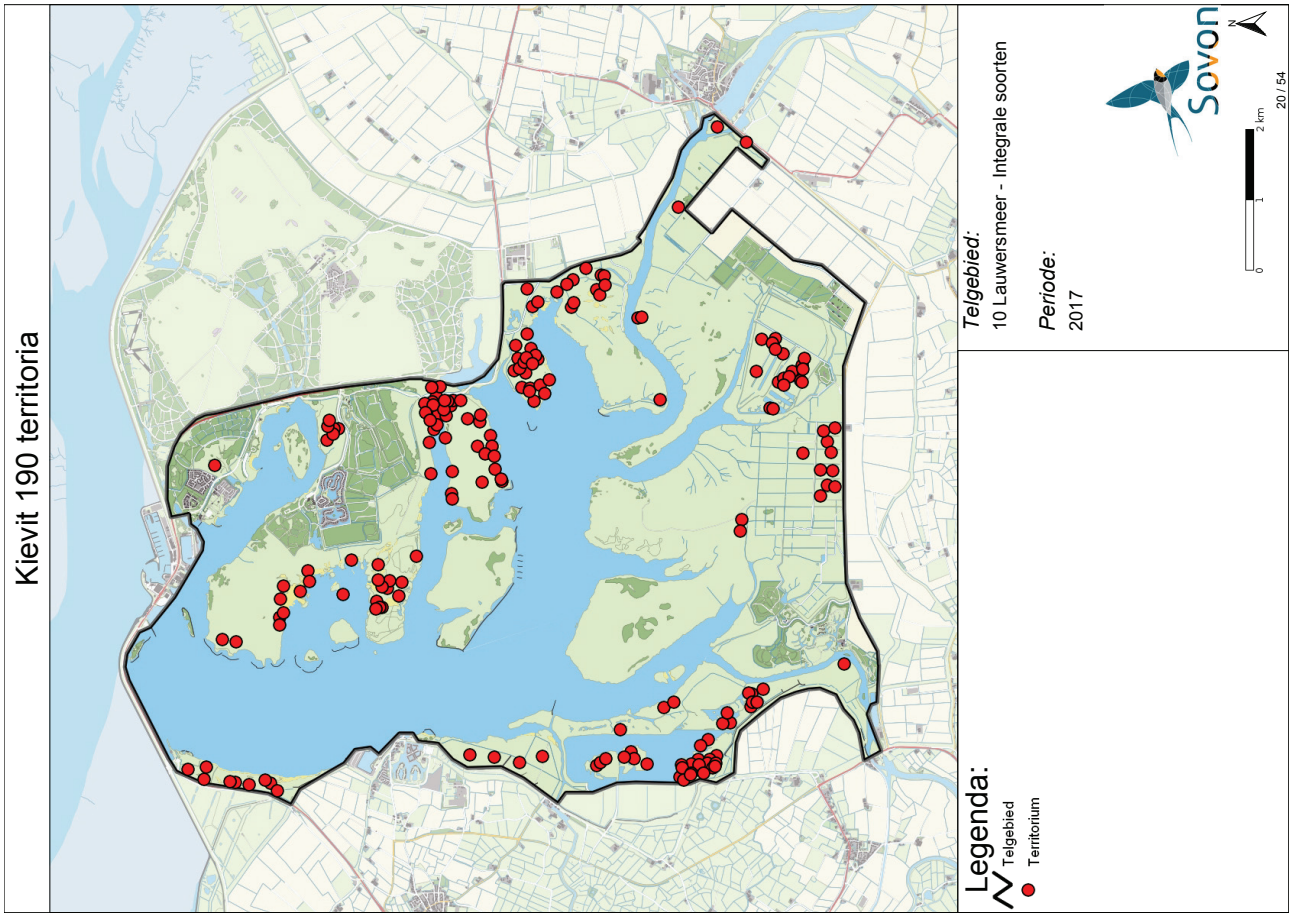
Telgebied:
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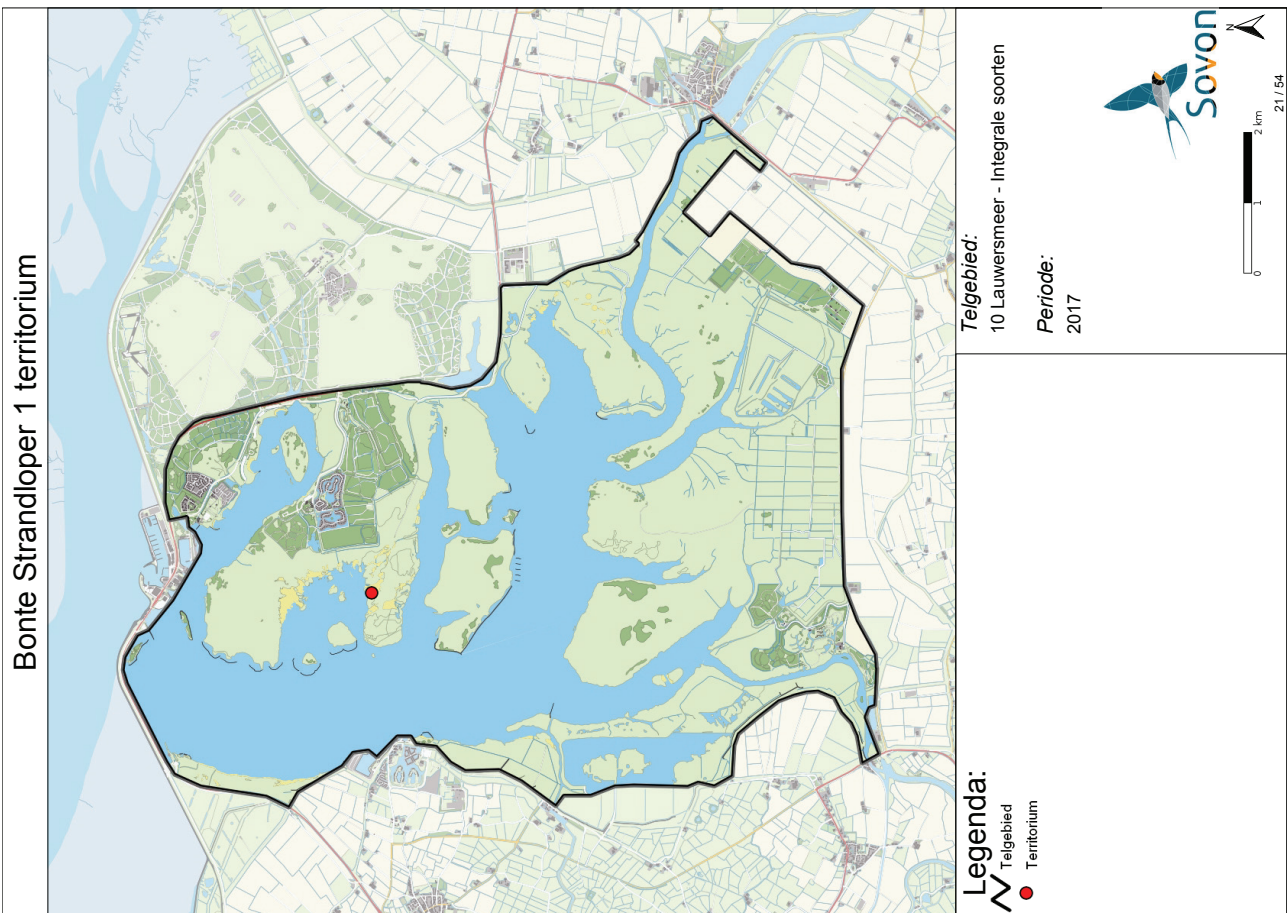
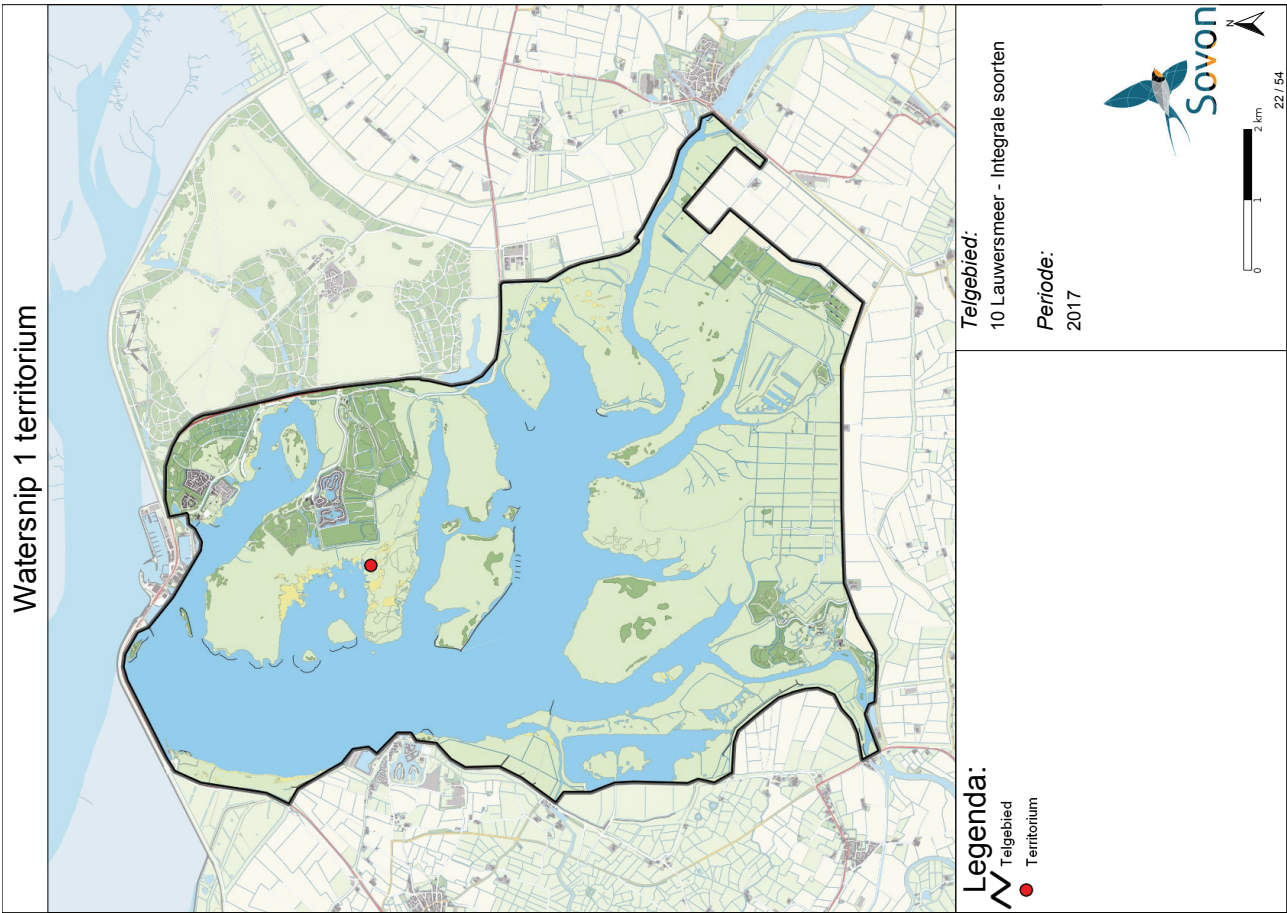
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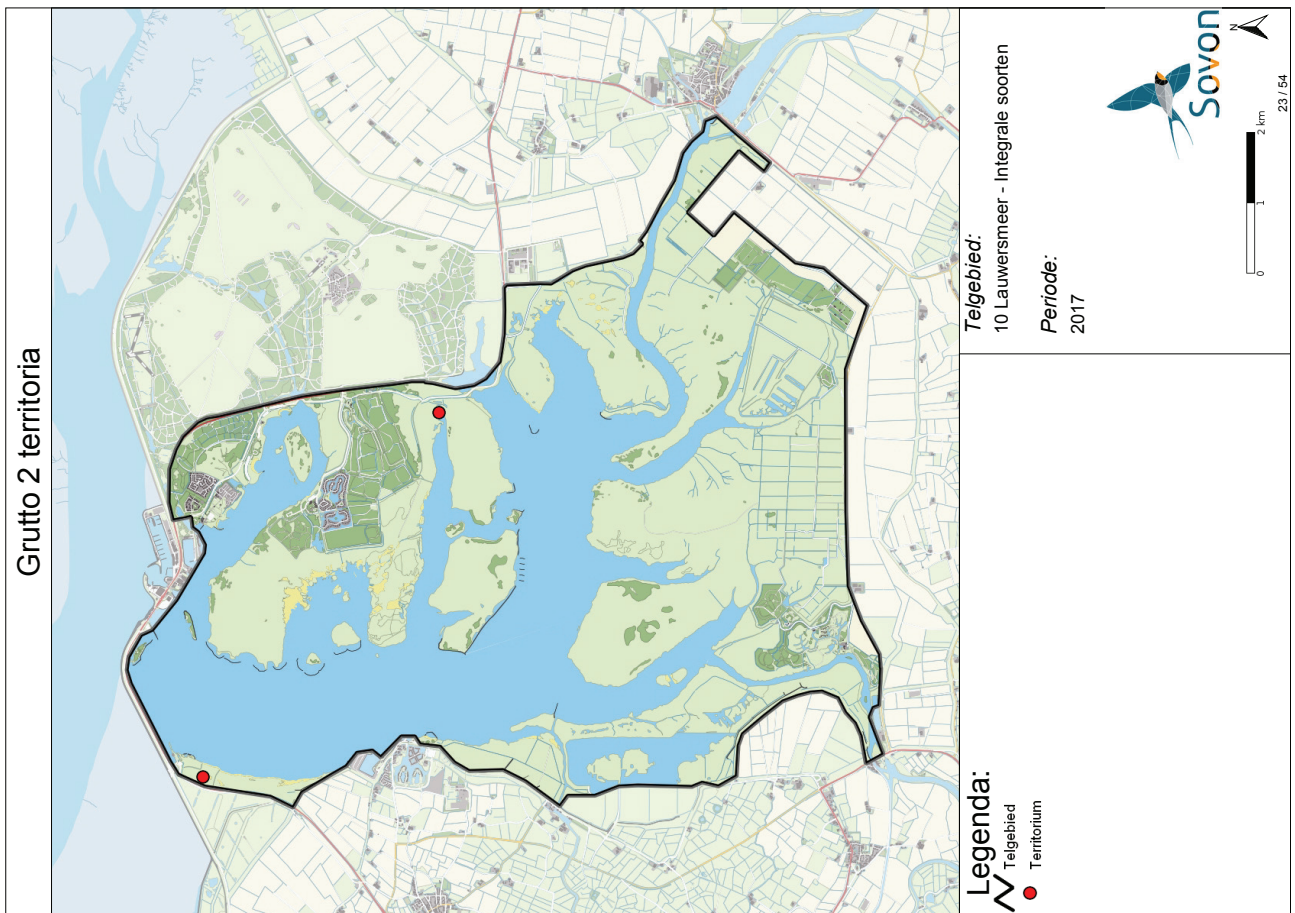
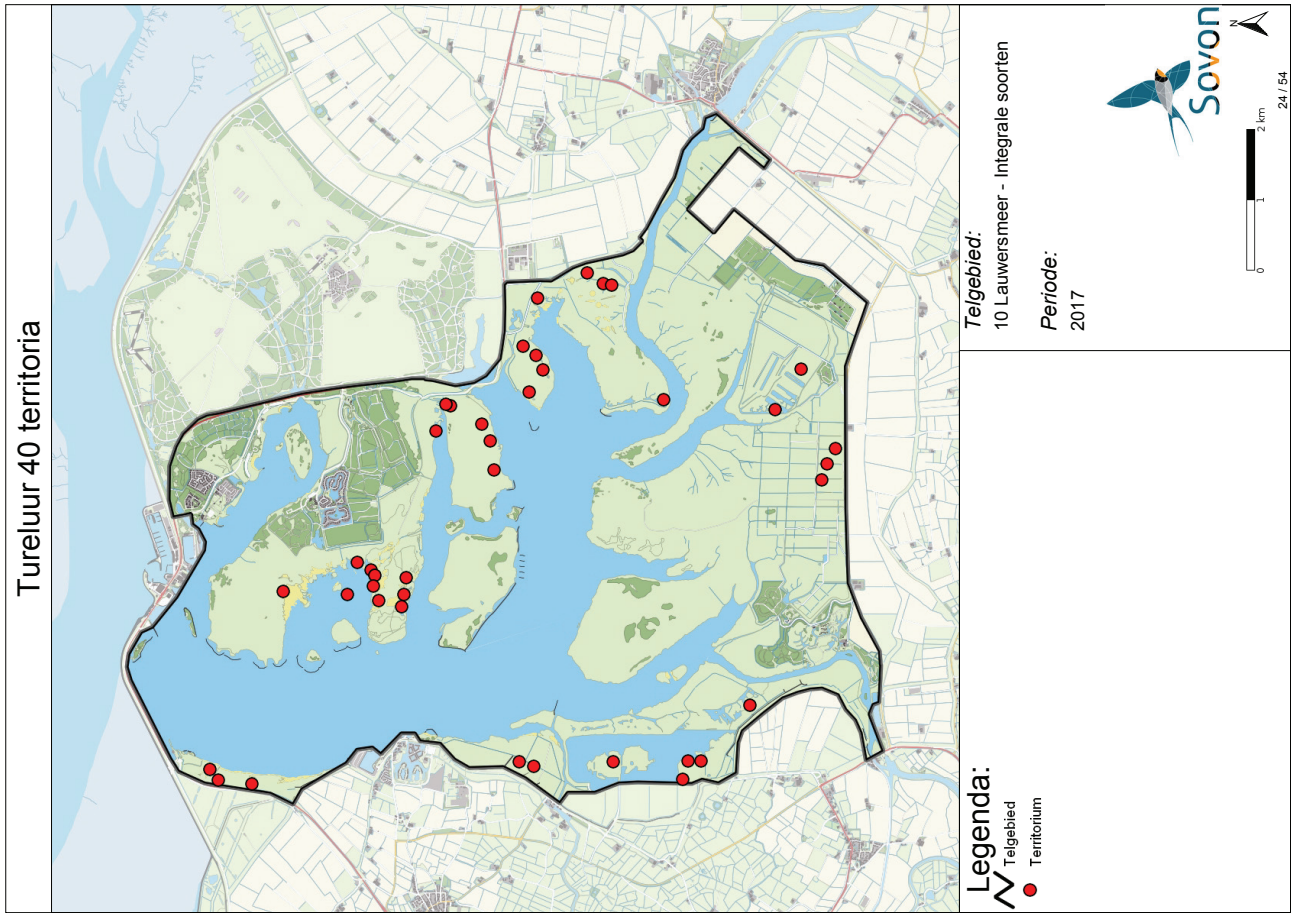


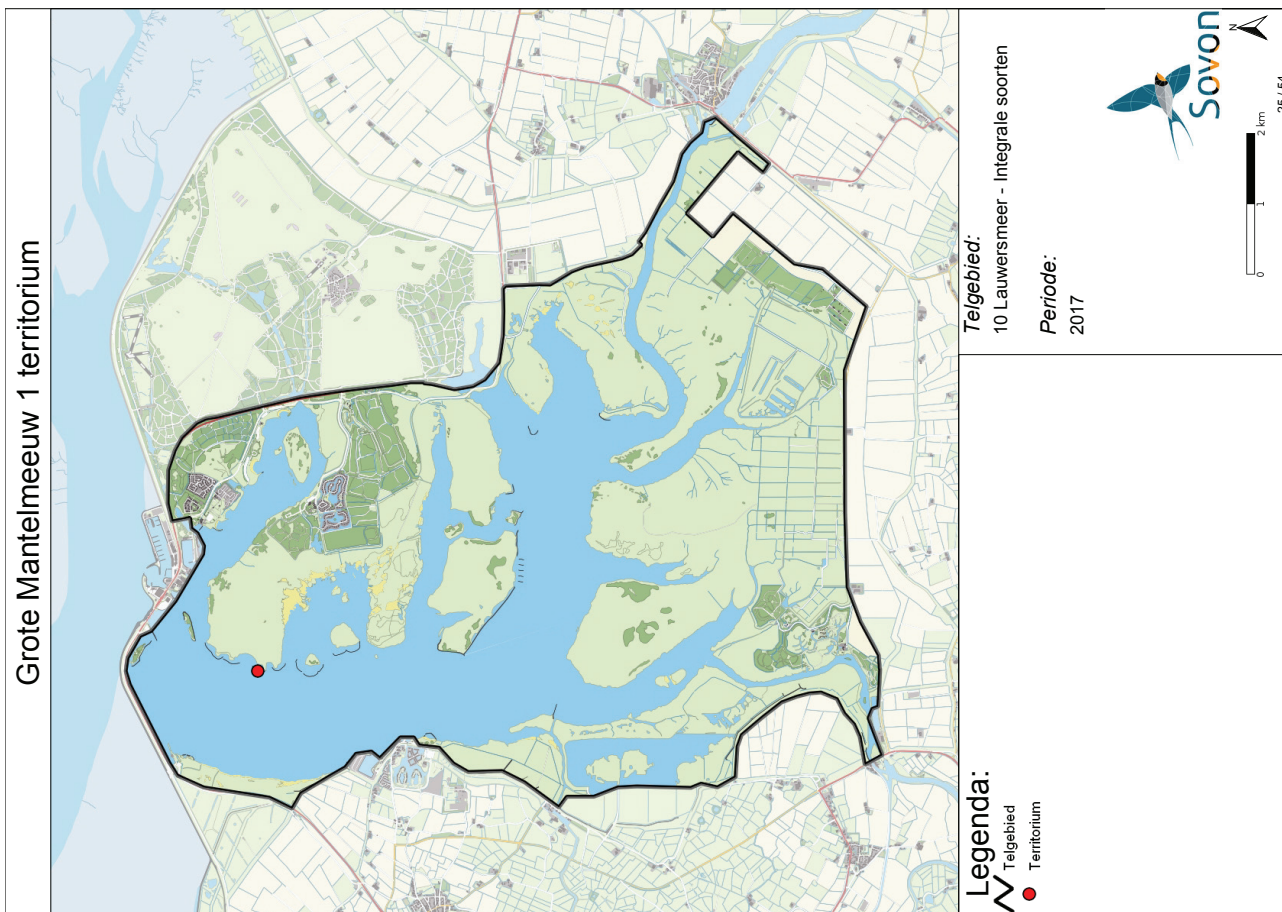
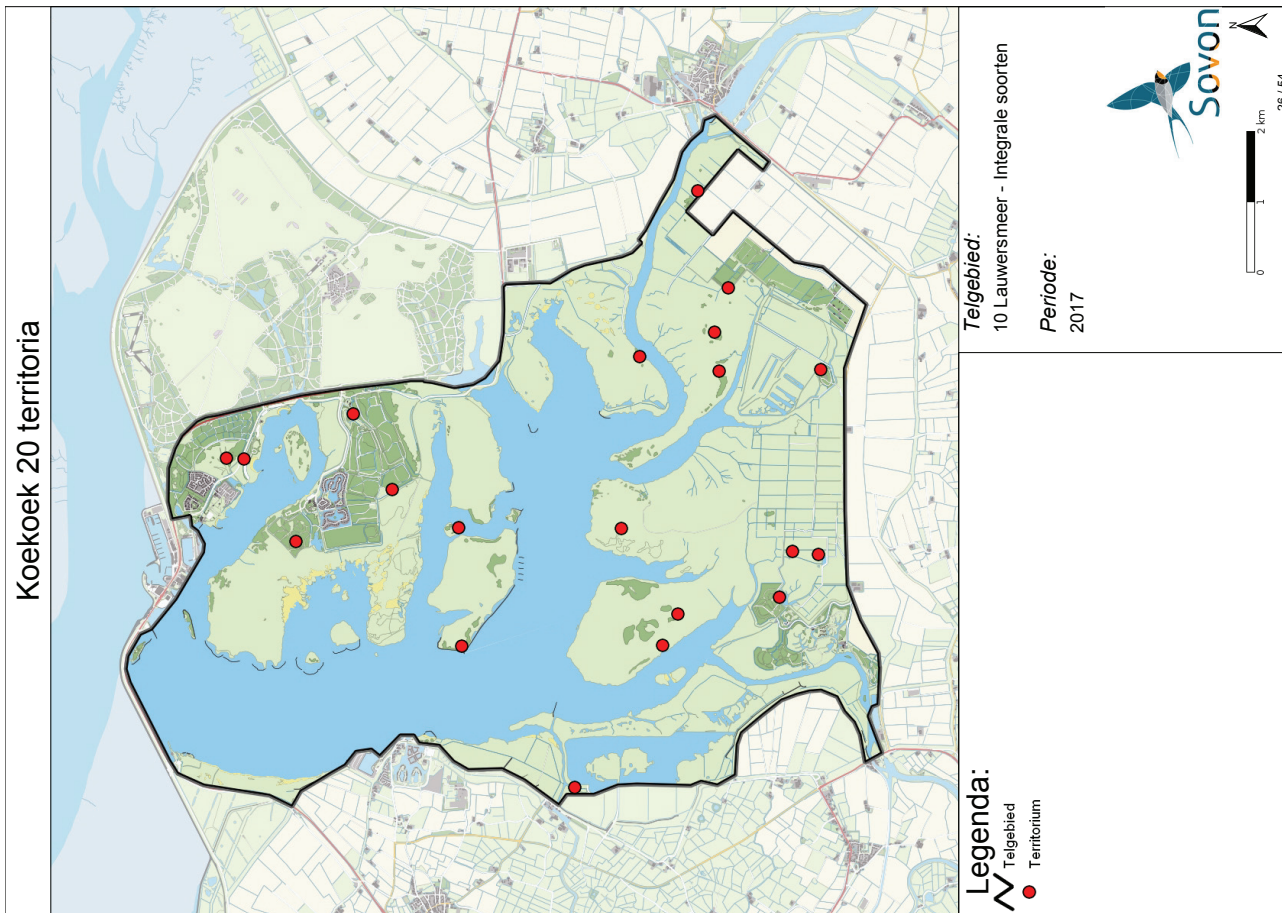
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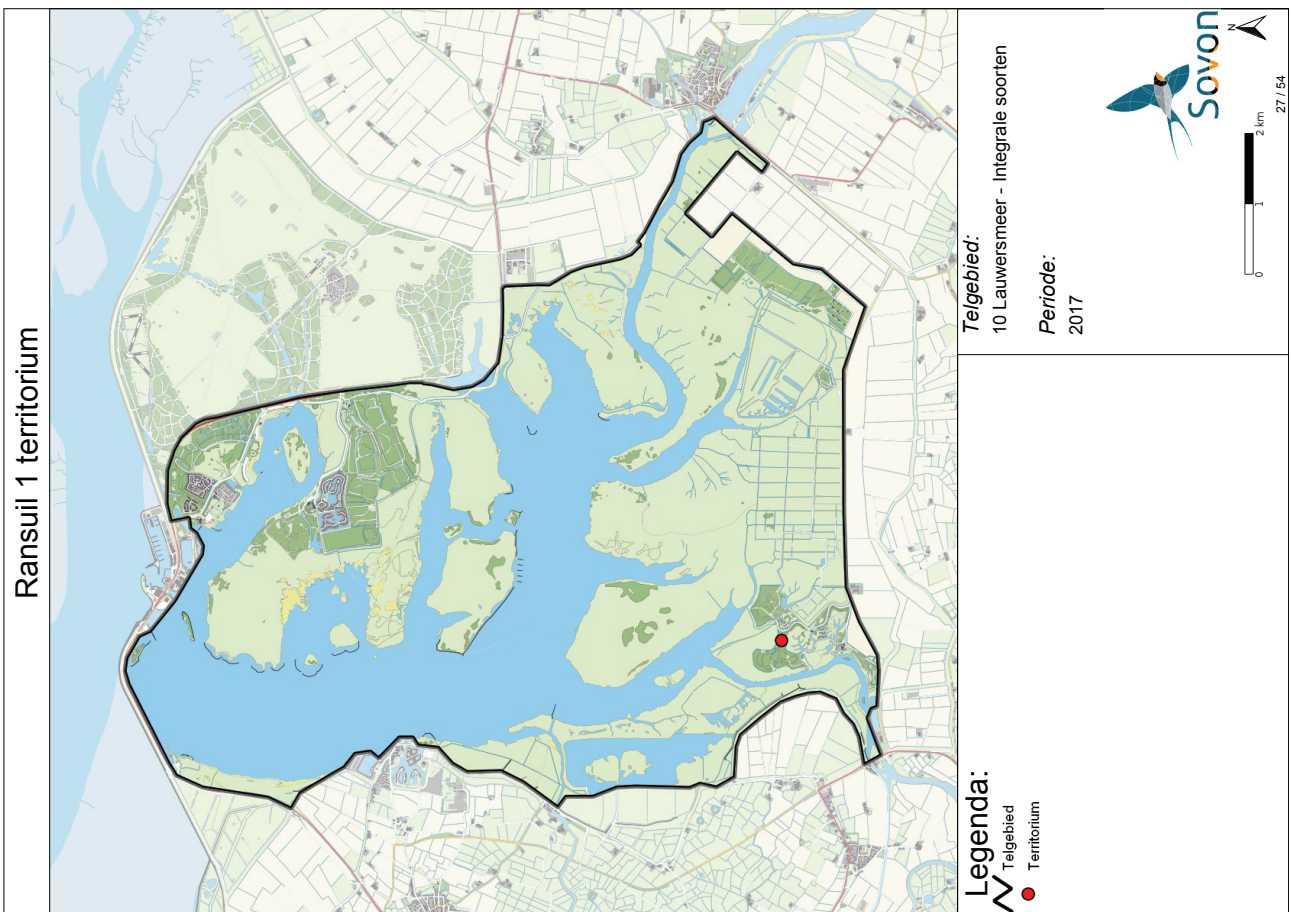
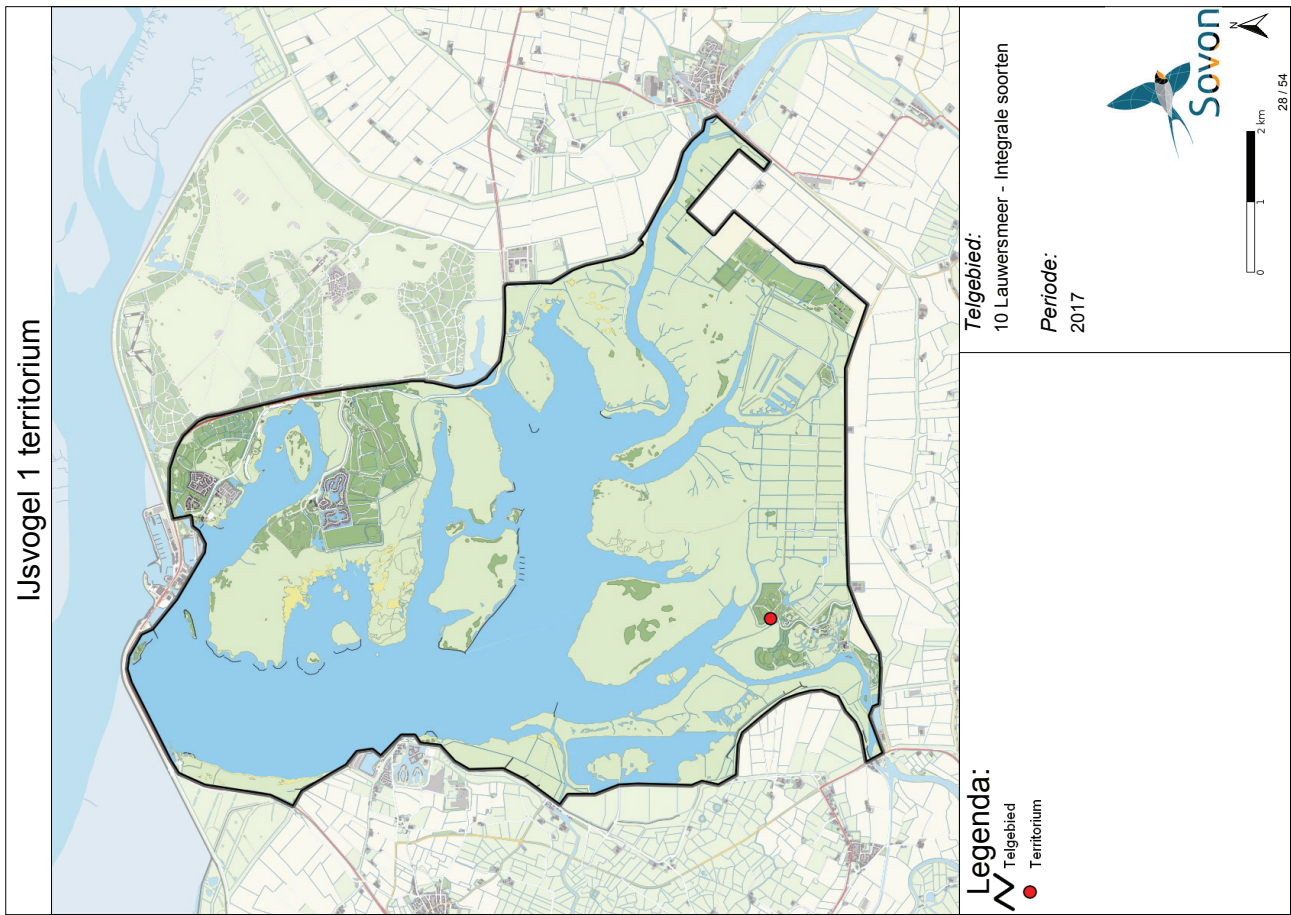


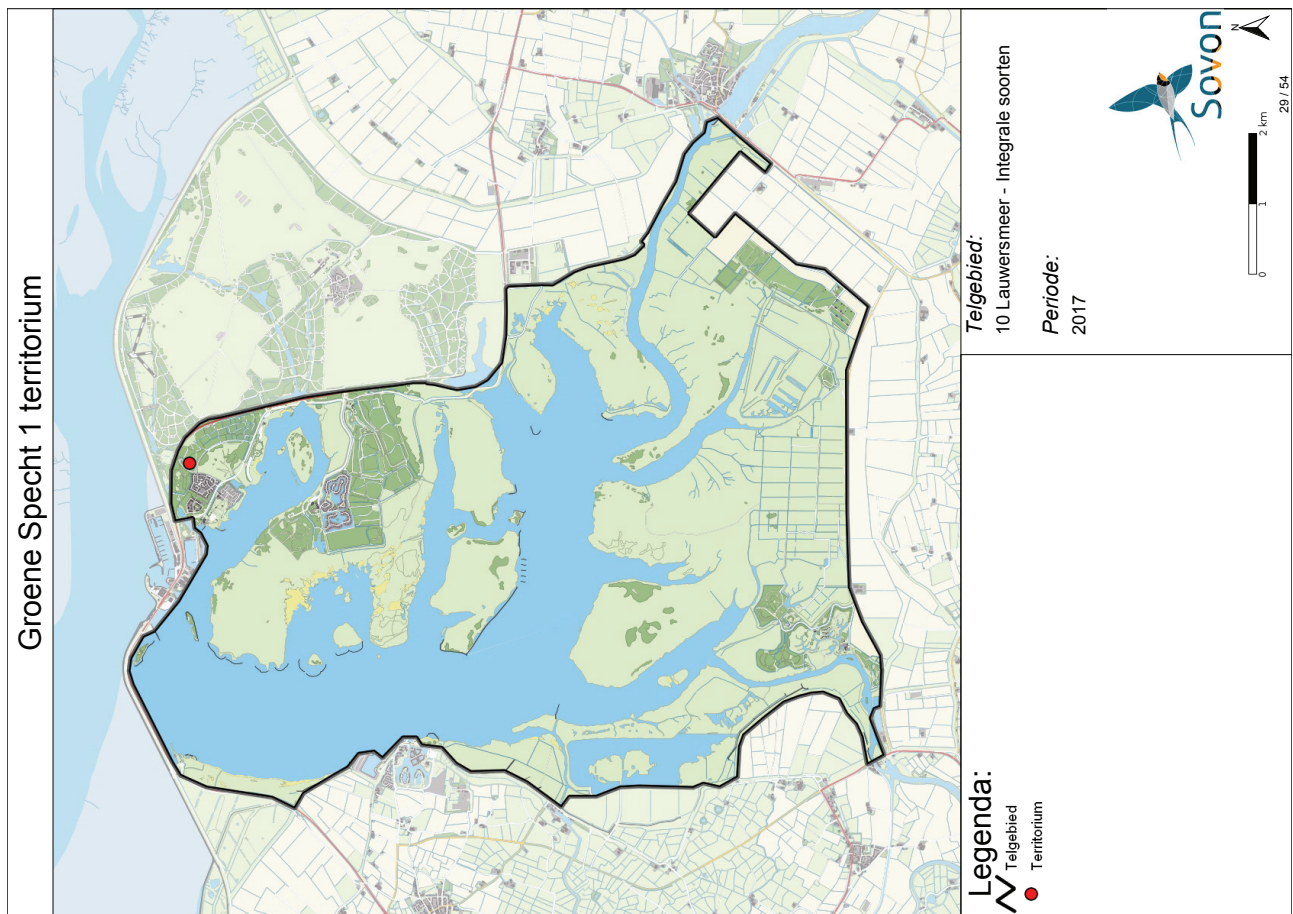
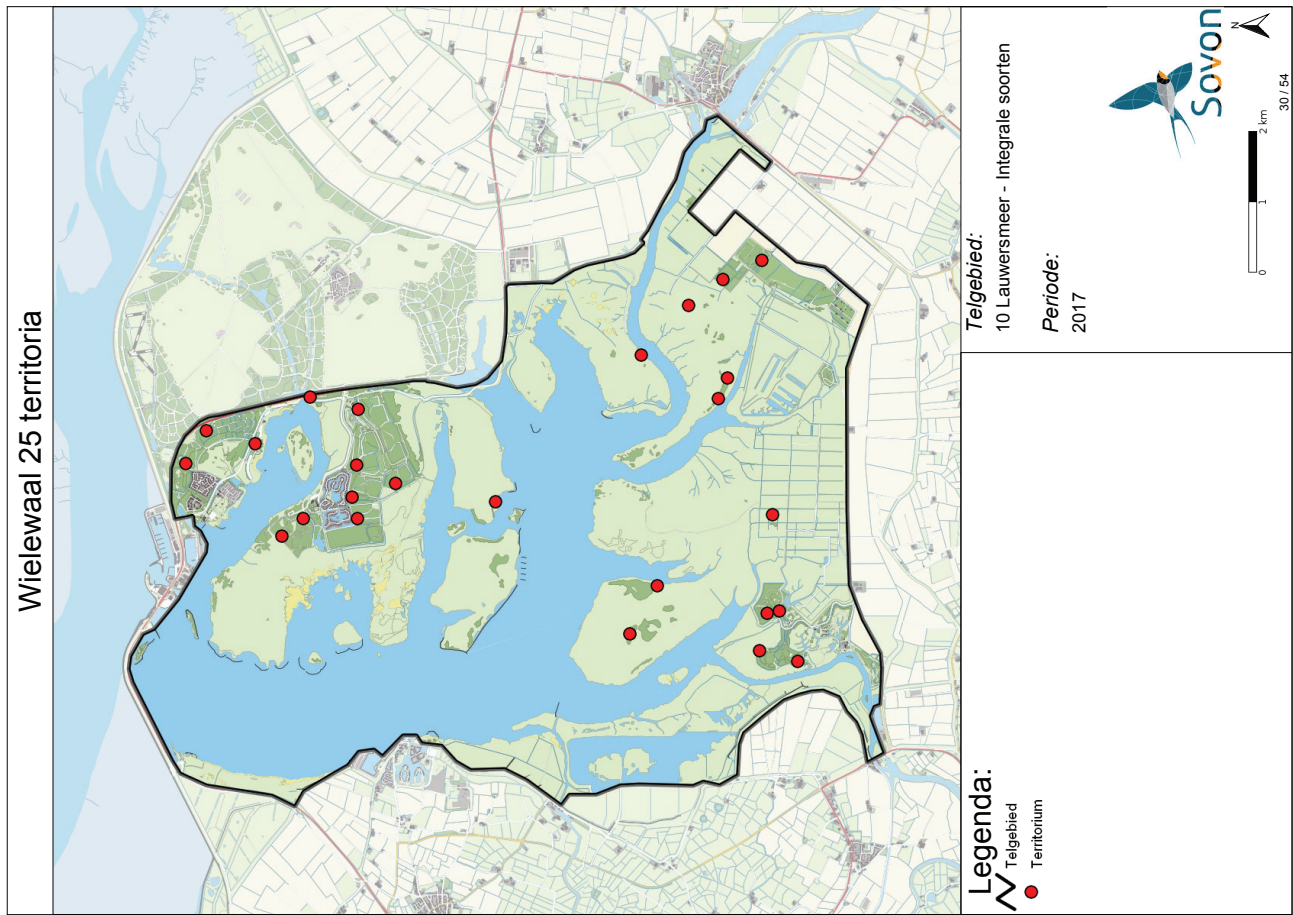




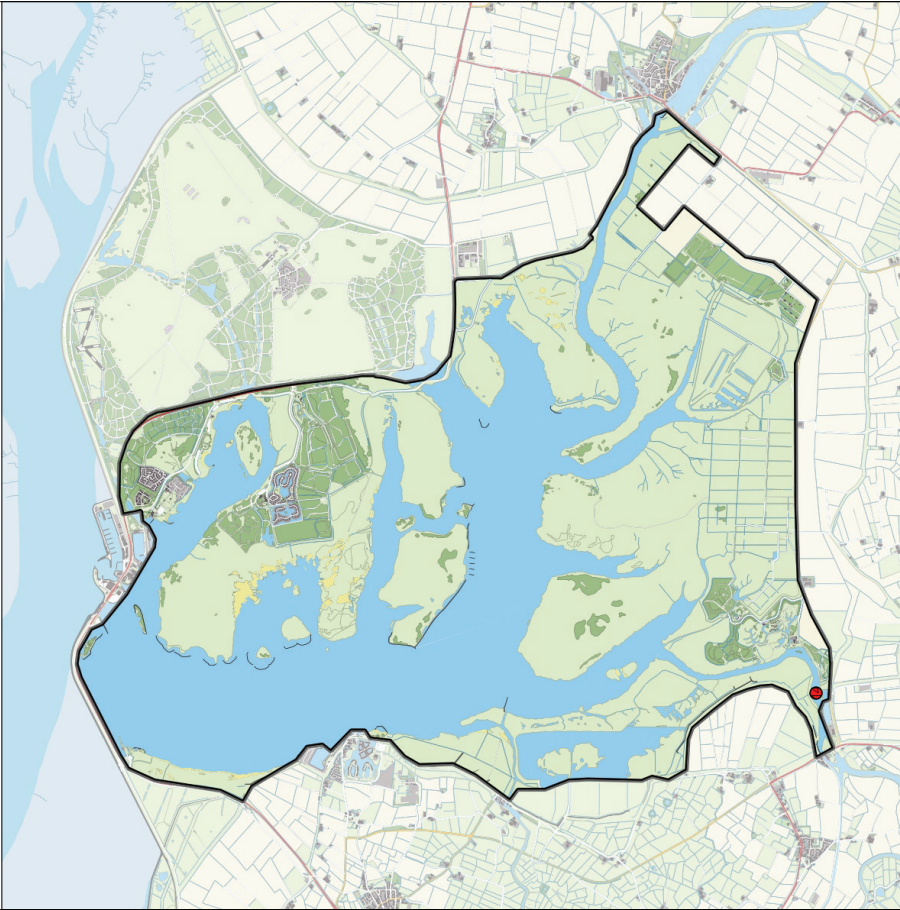






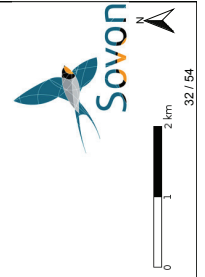


Roek 14 territoria



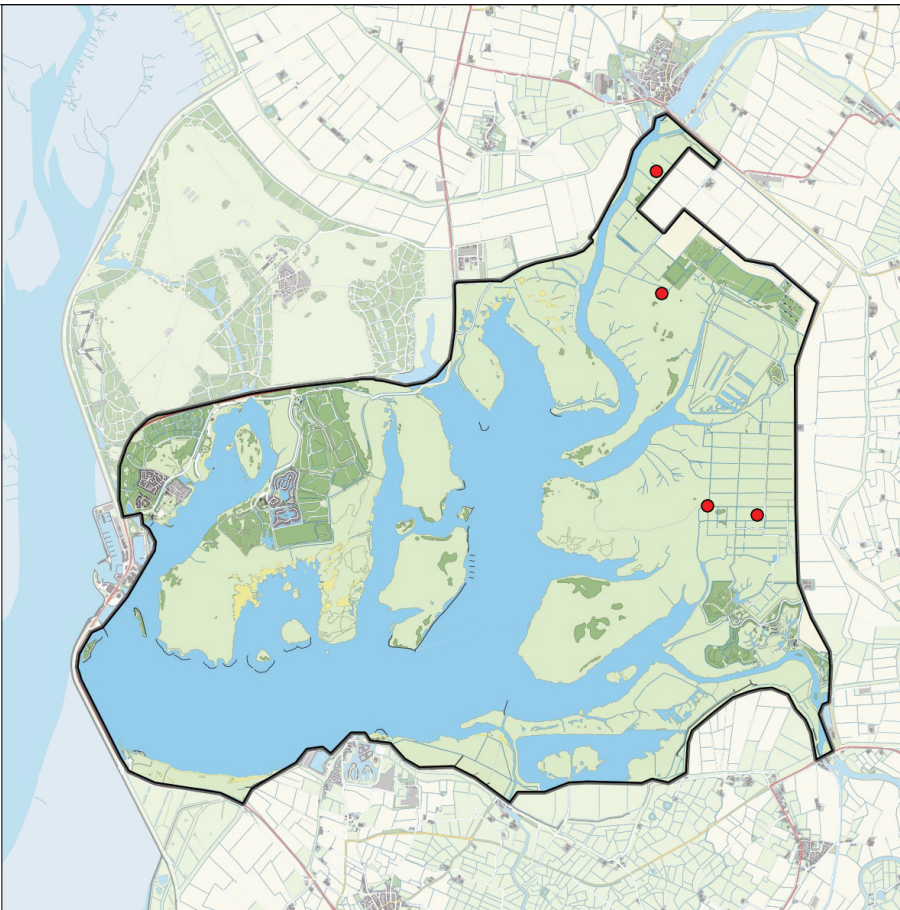
Legenda:
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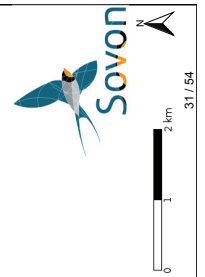
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Grauwe Klauwier 4 territoria

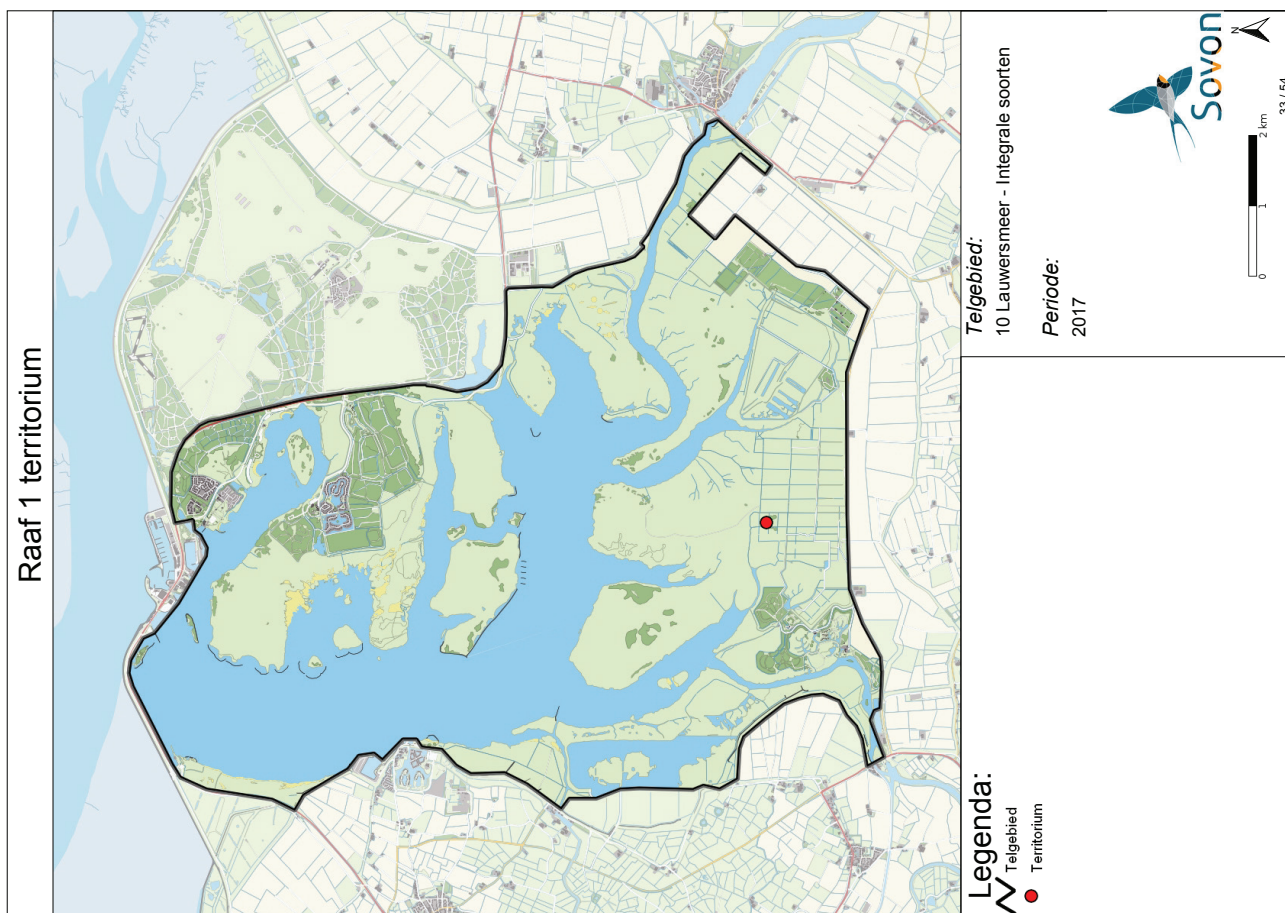
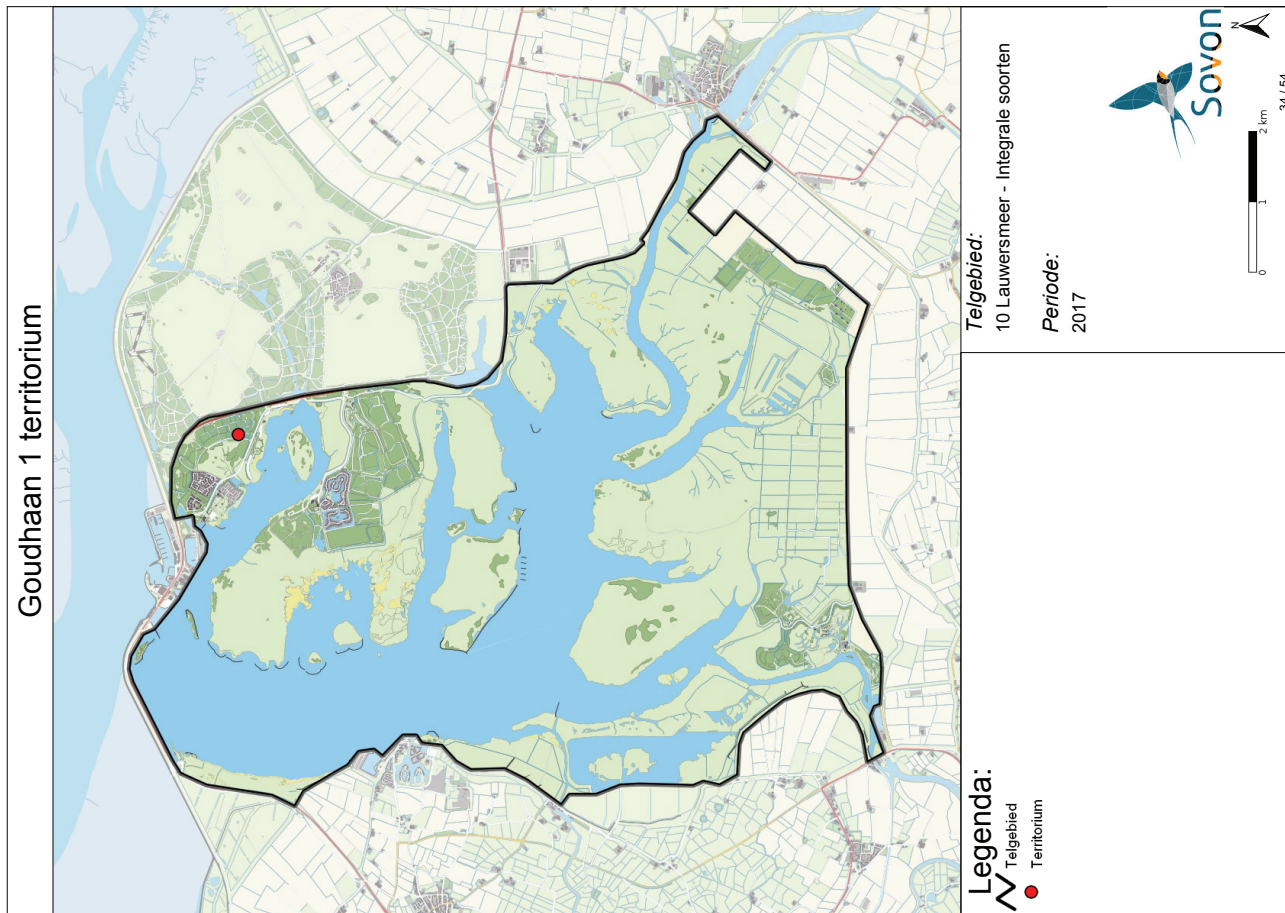


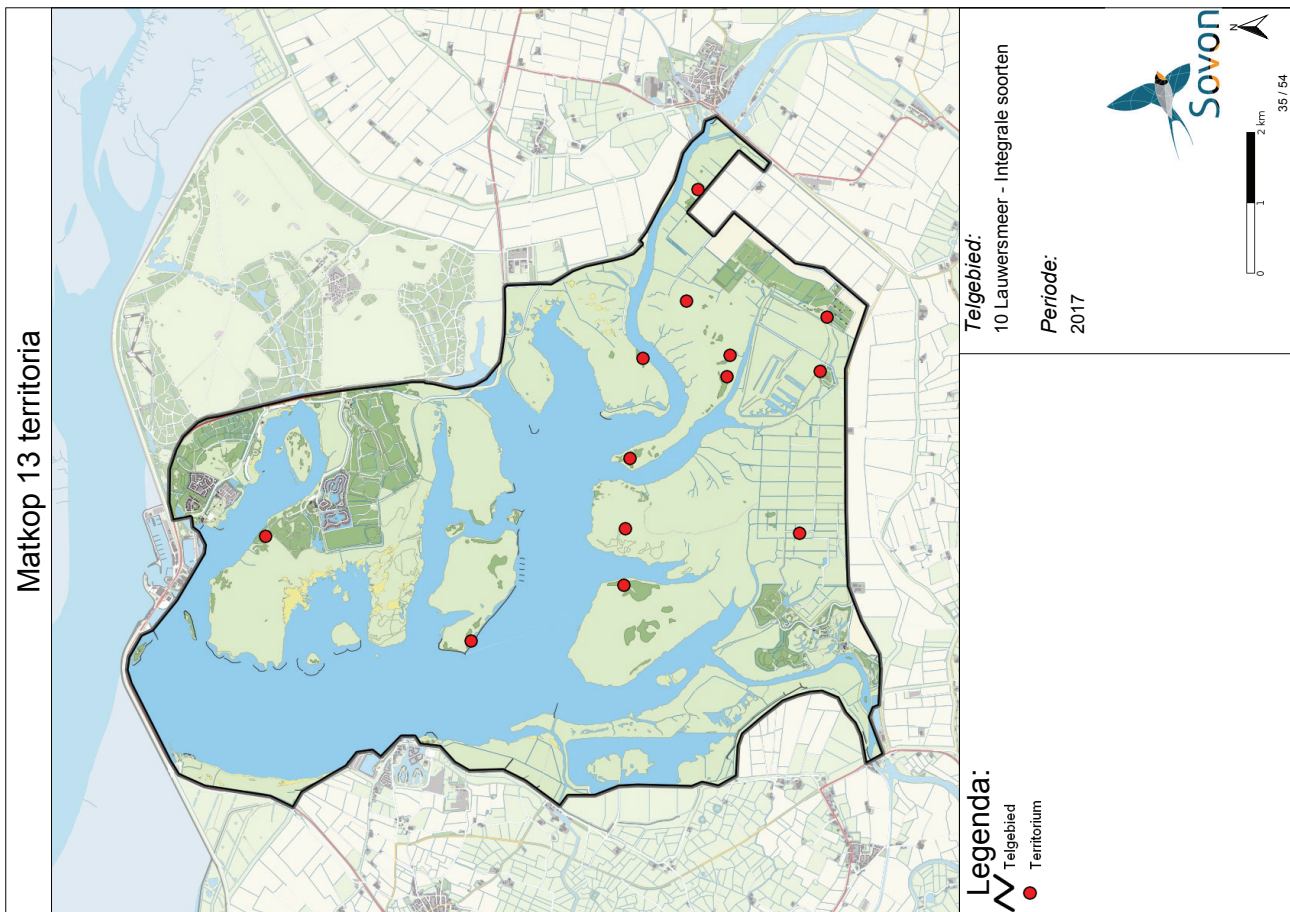
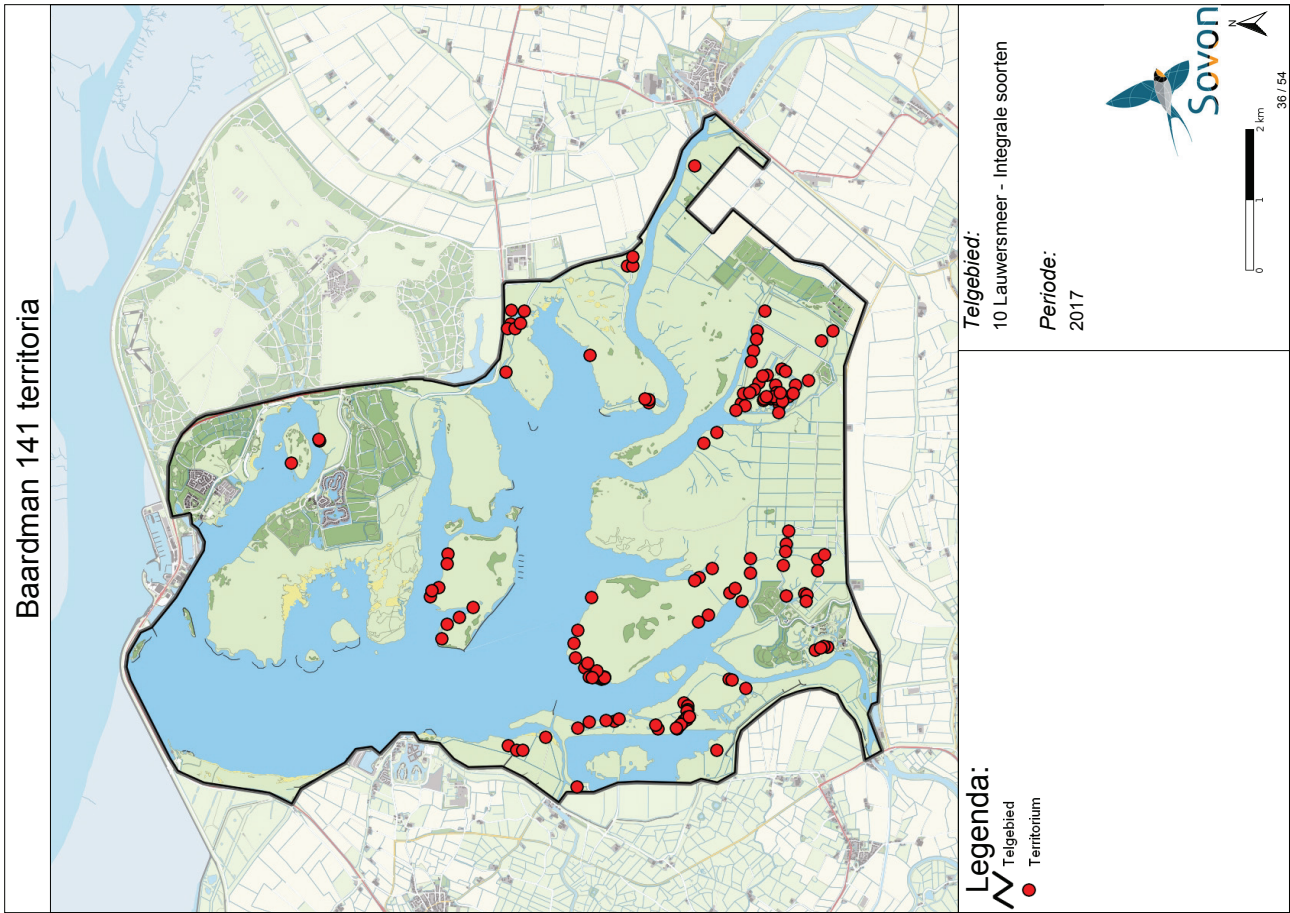
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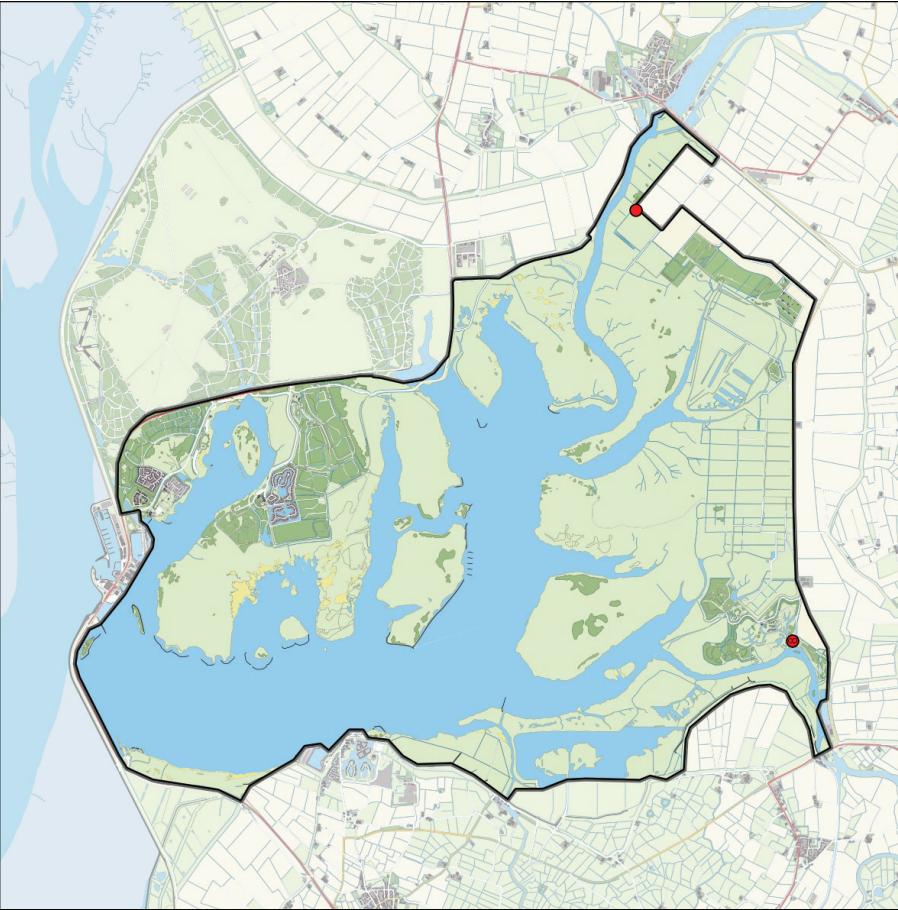


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Boerenzwaluw 9 territoria



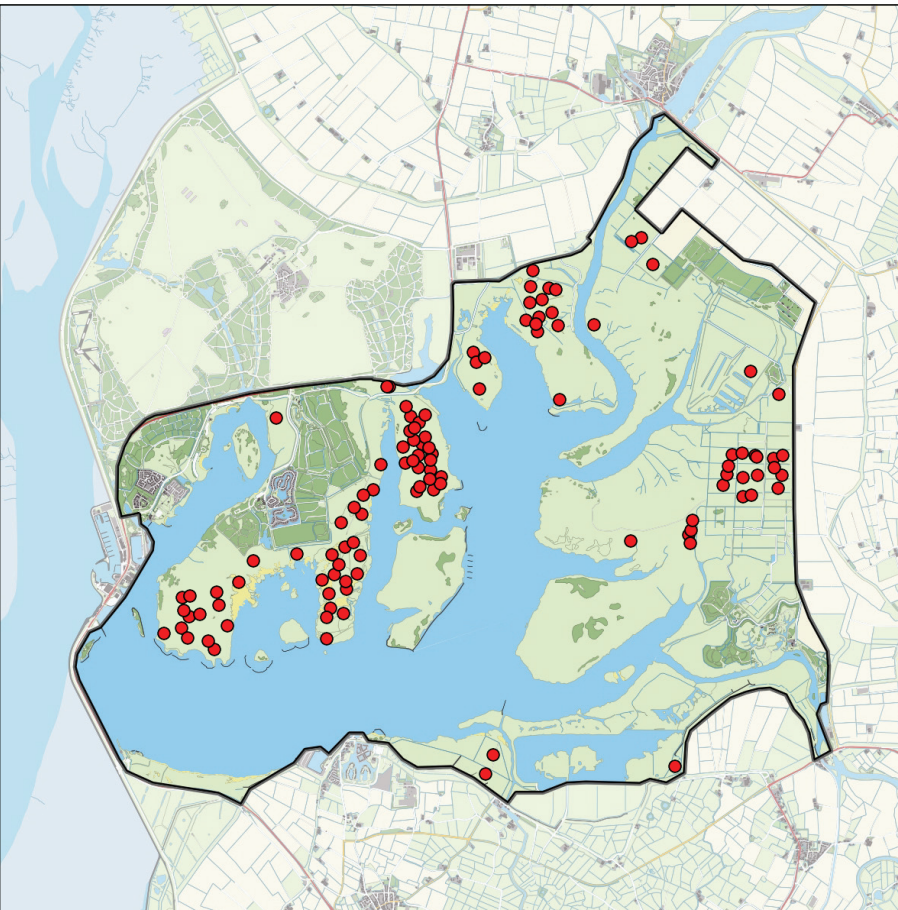
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Veldleeuwerik 111 territoria

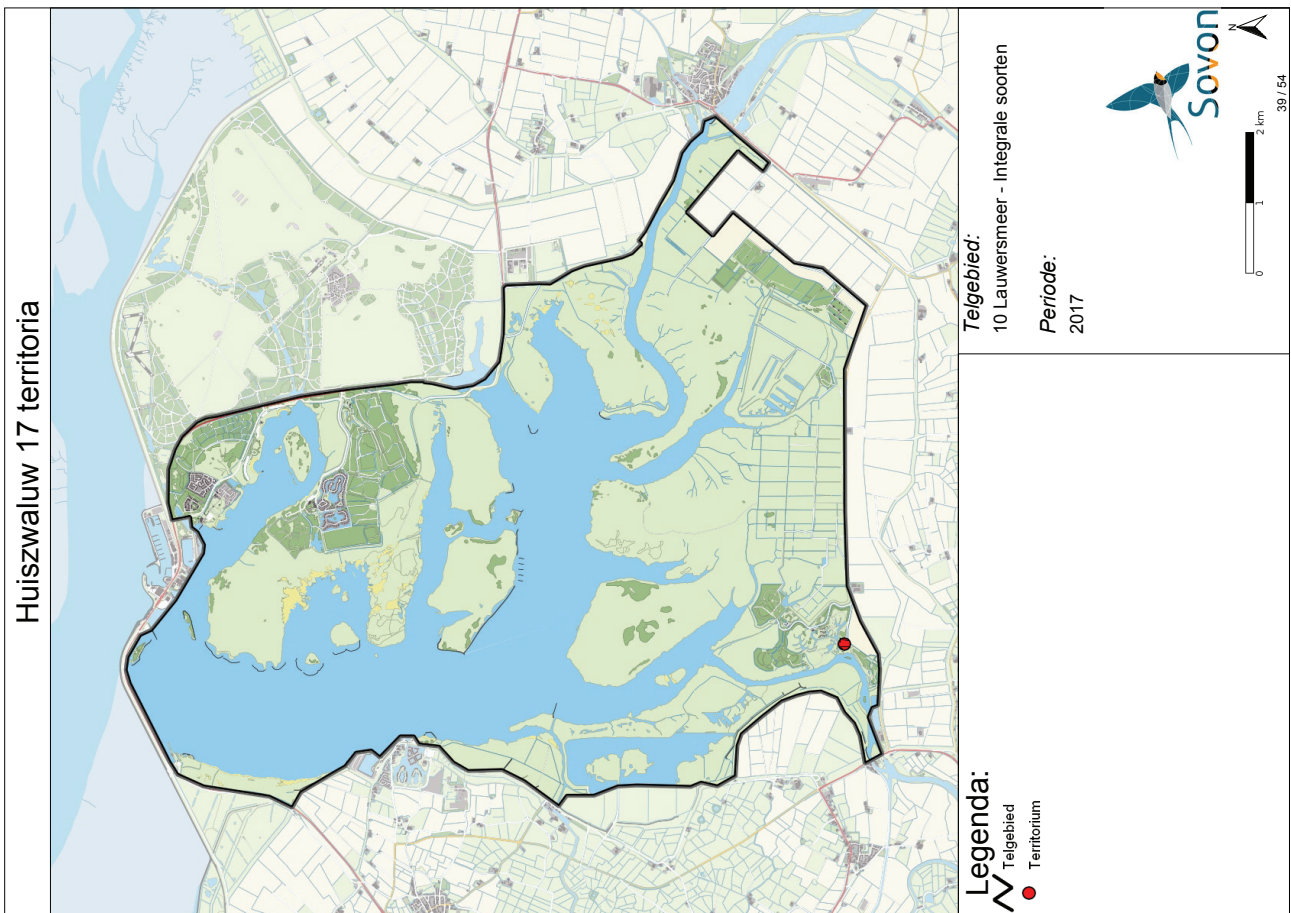
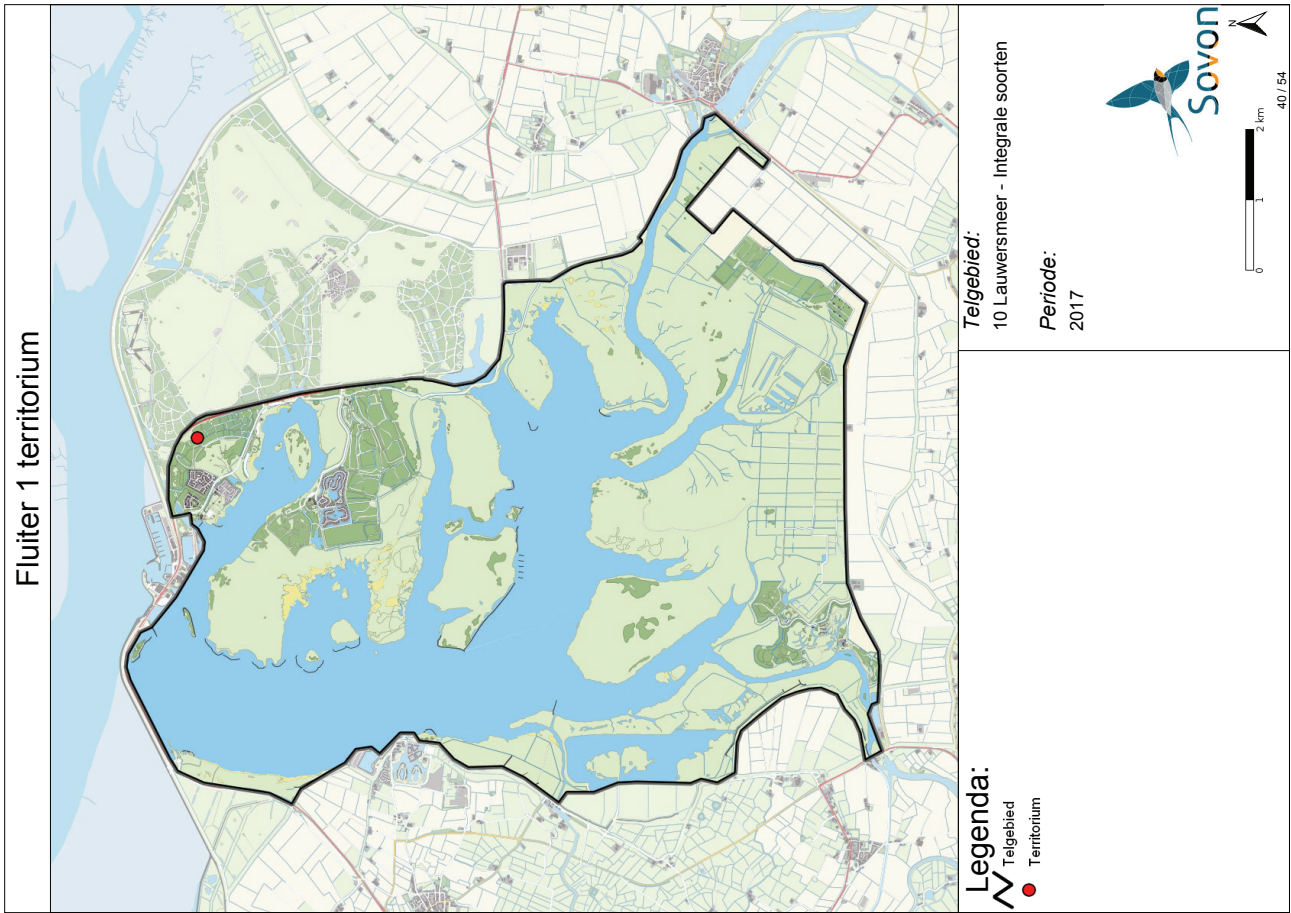


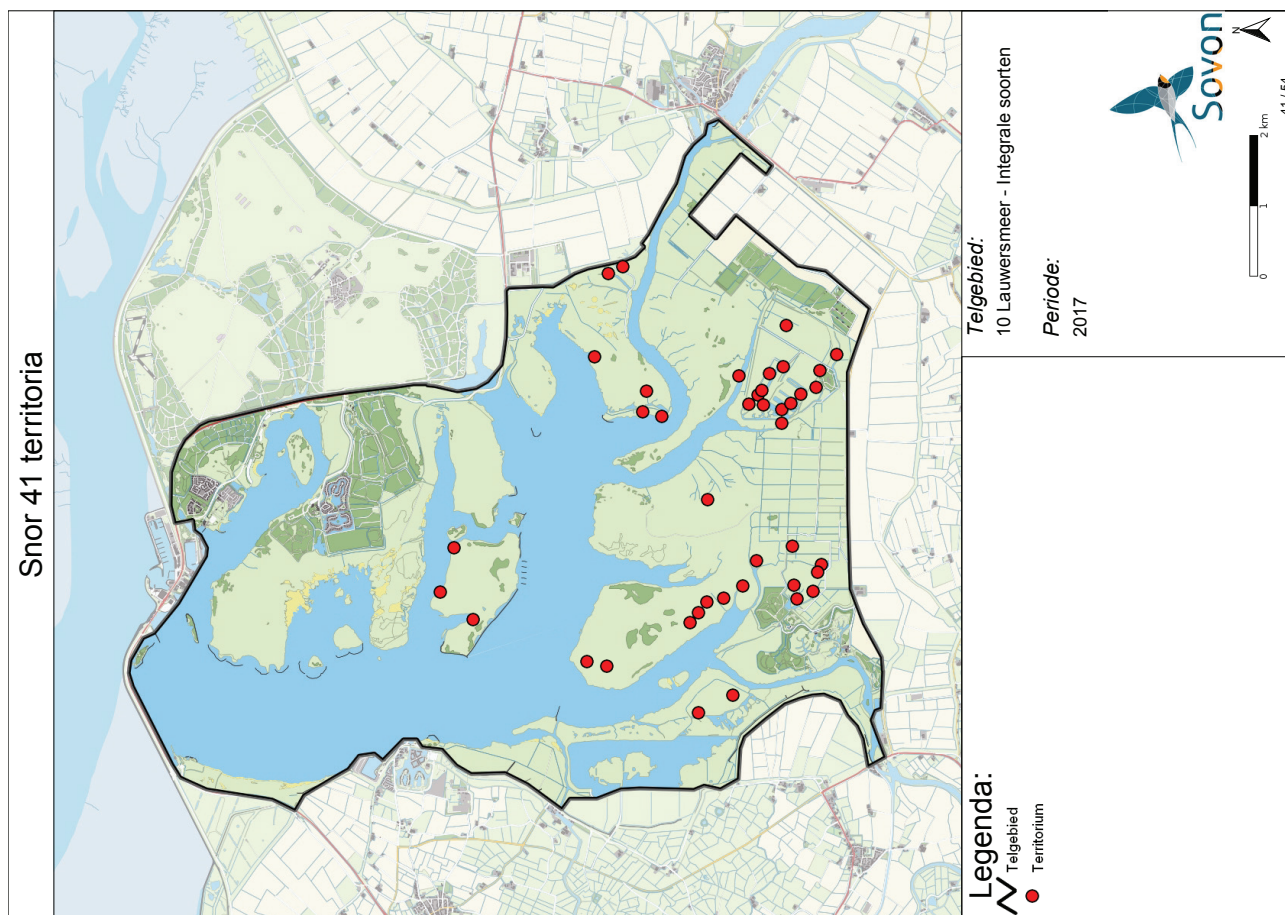
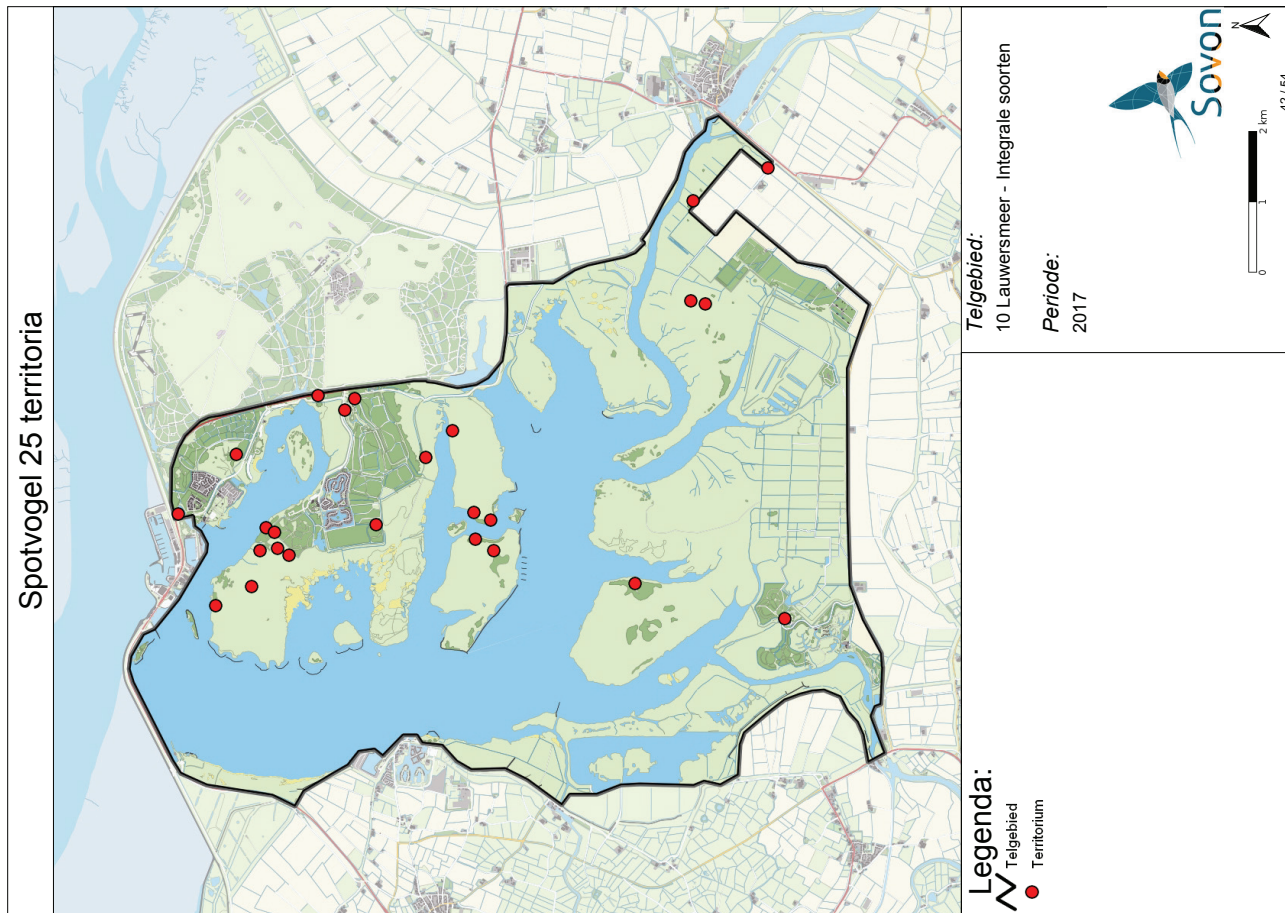
Legenda:
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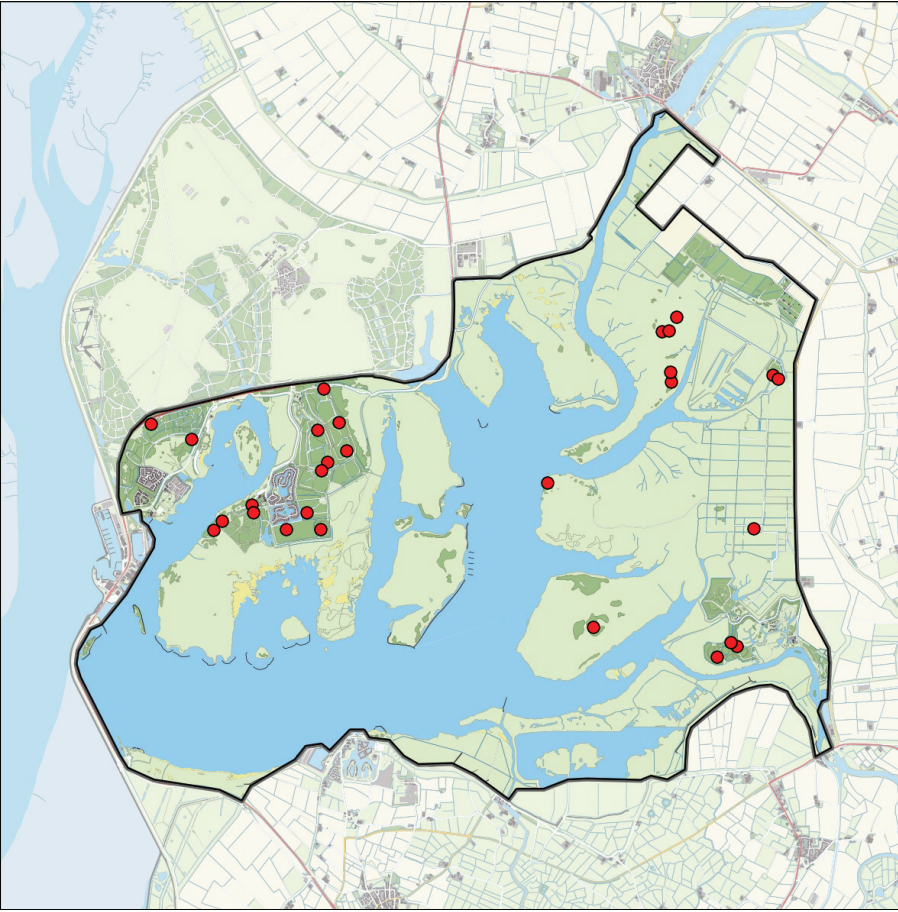
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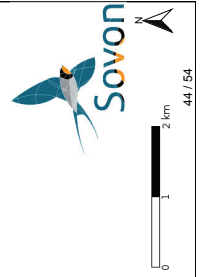
Grauwe Vliegenvanger 28 territoria



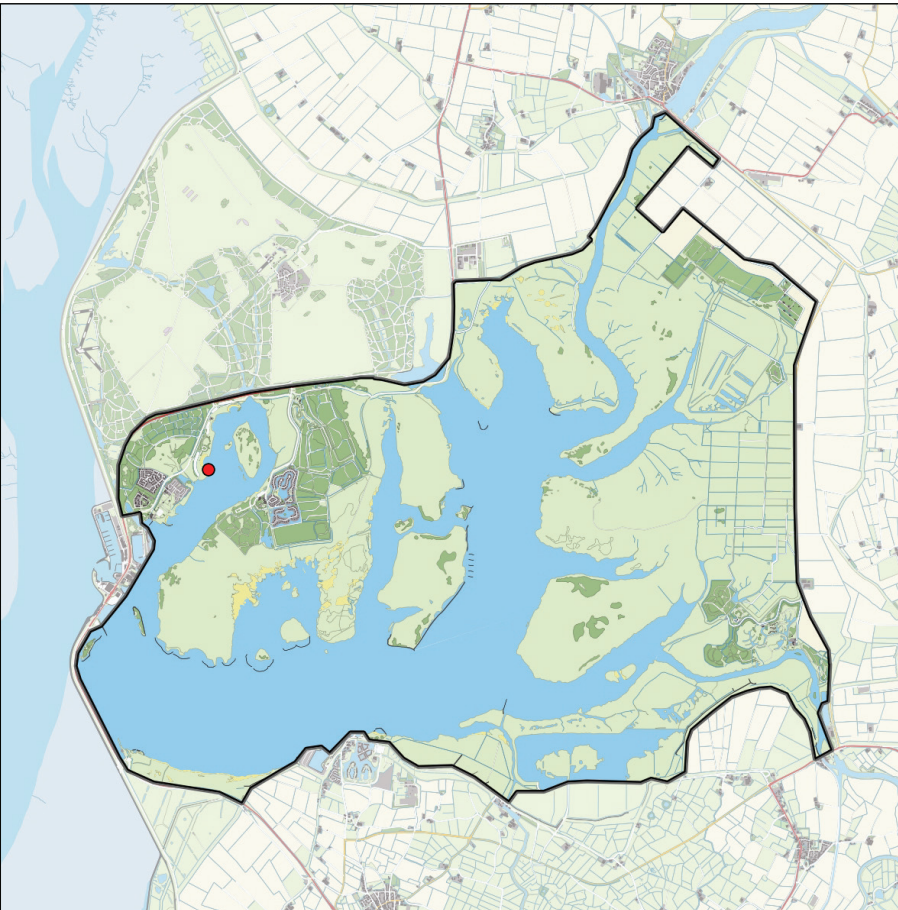
Legenda:
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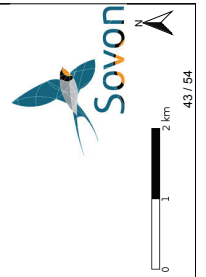
Grote Karekiet 1 territorium

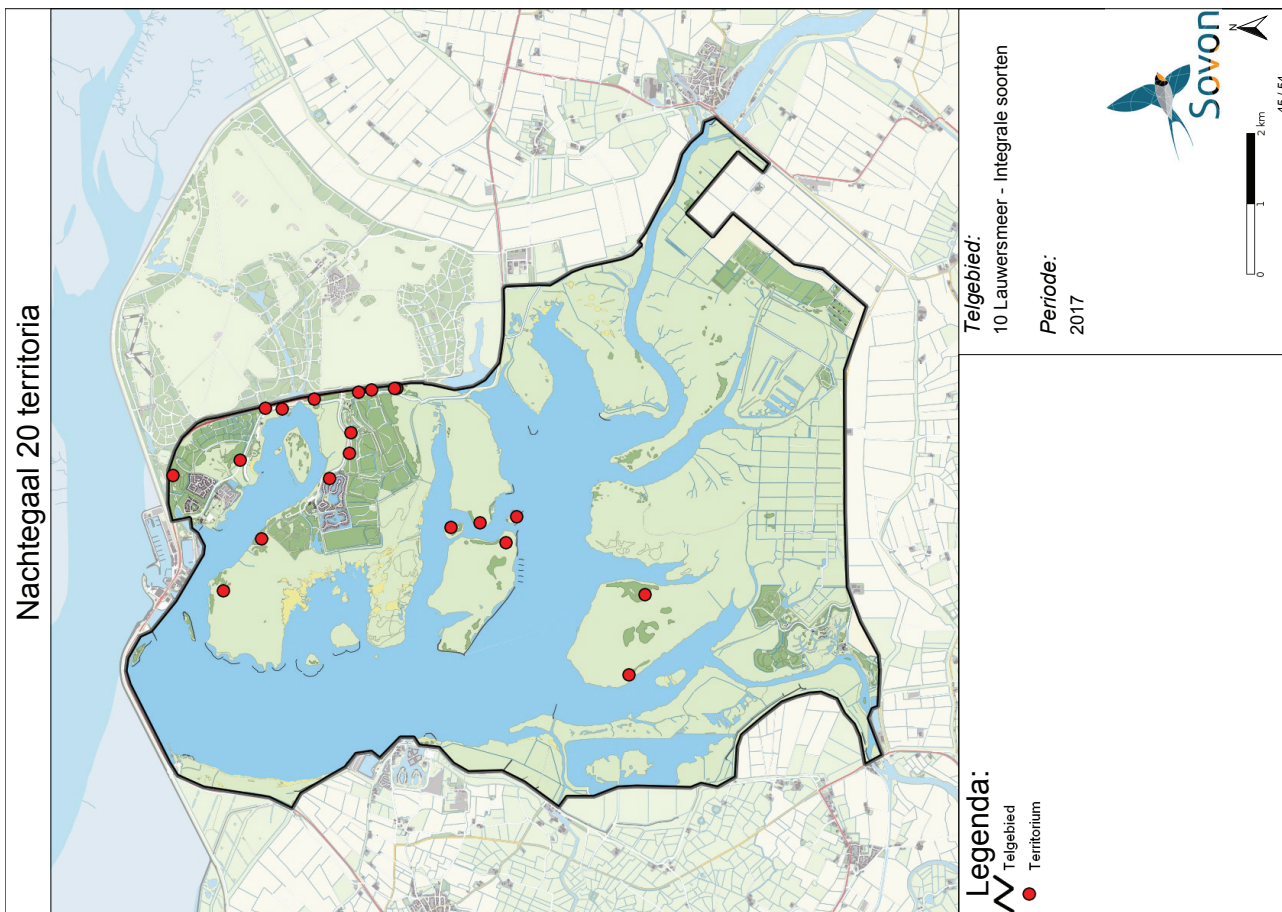
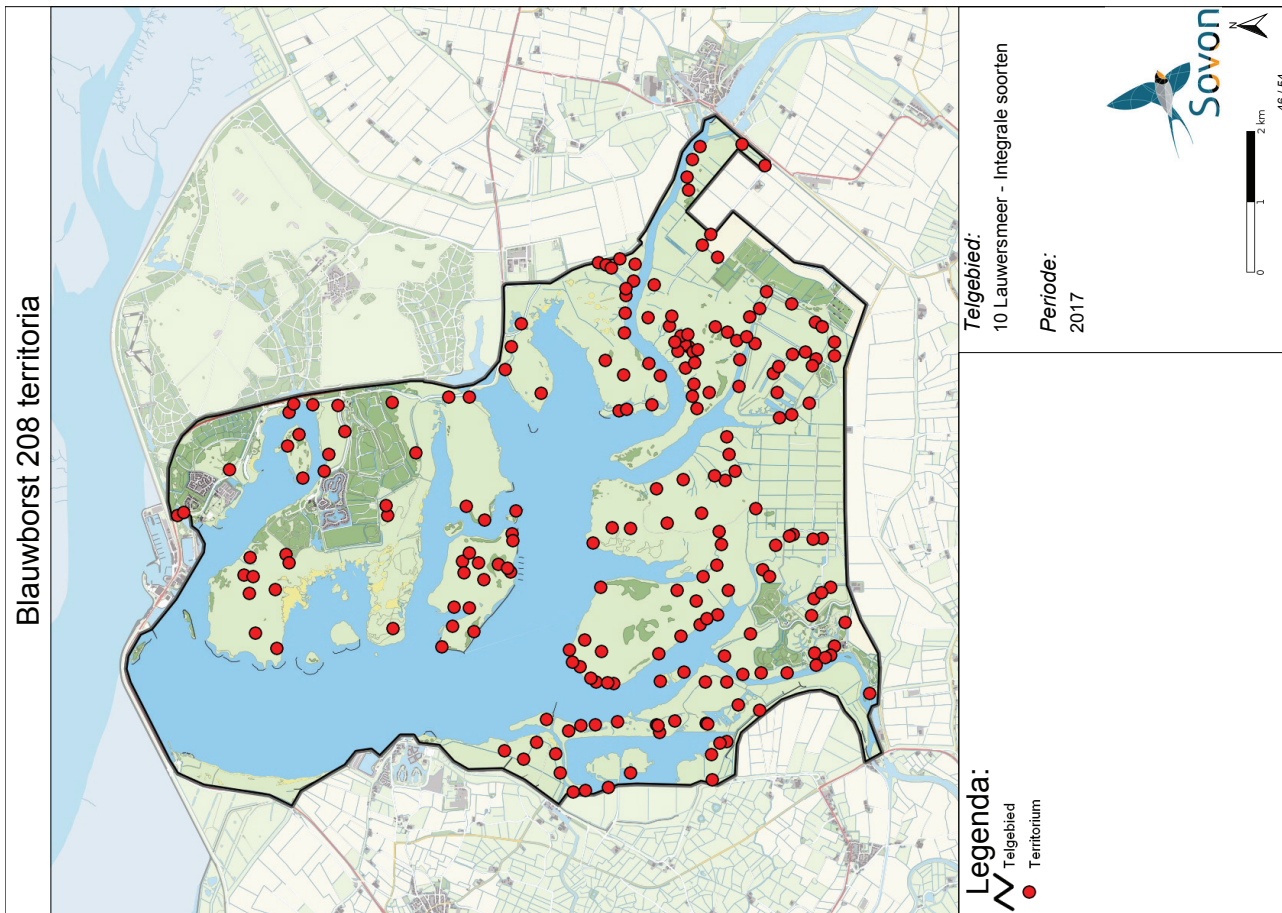


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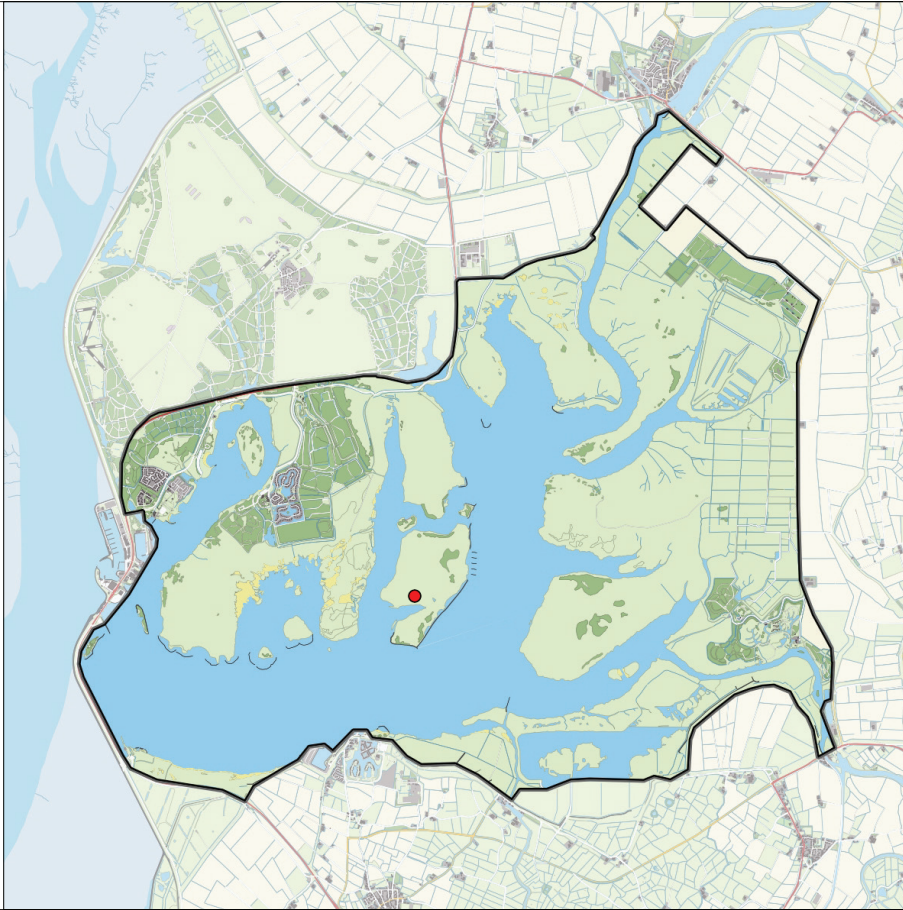
Tegebied:
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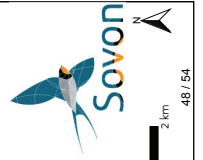


Paapje 1 territorium



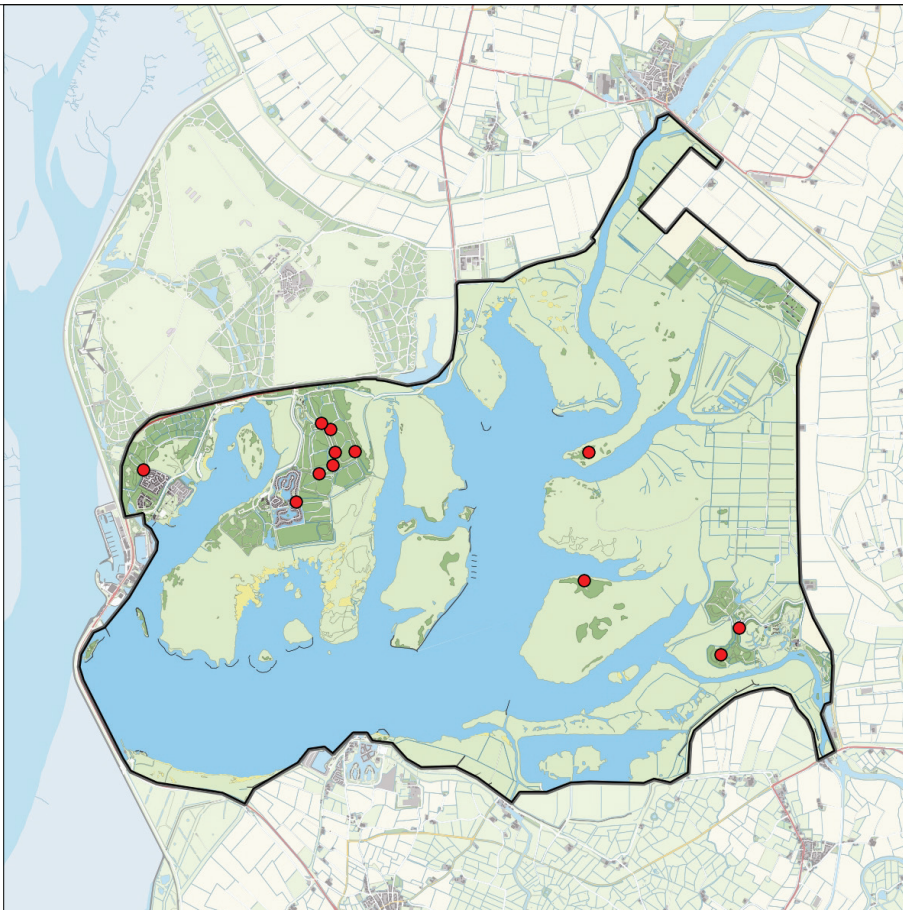
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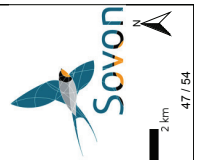
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Gekraagde Roodstaart 12 territoria

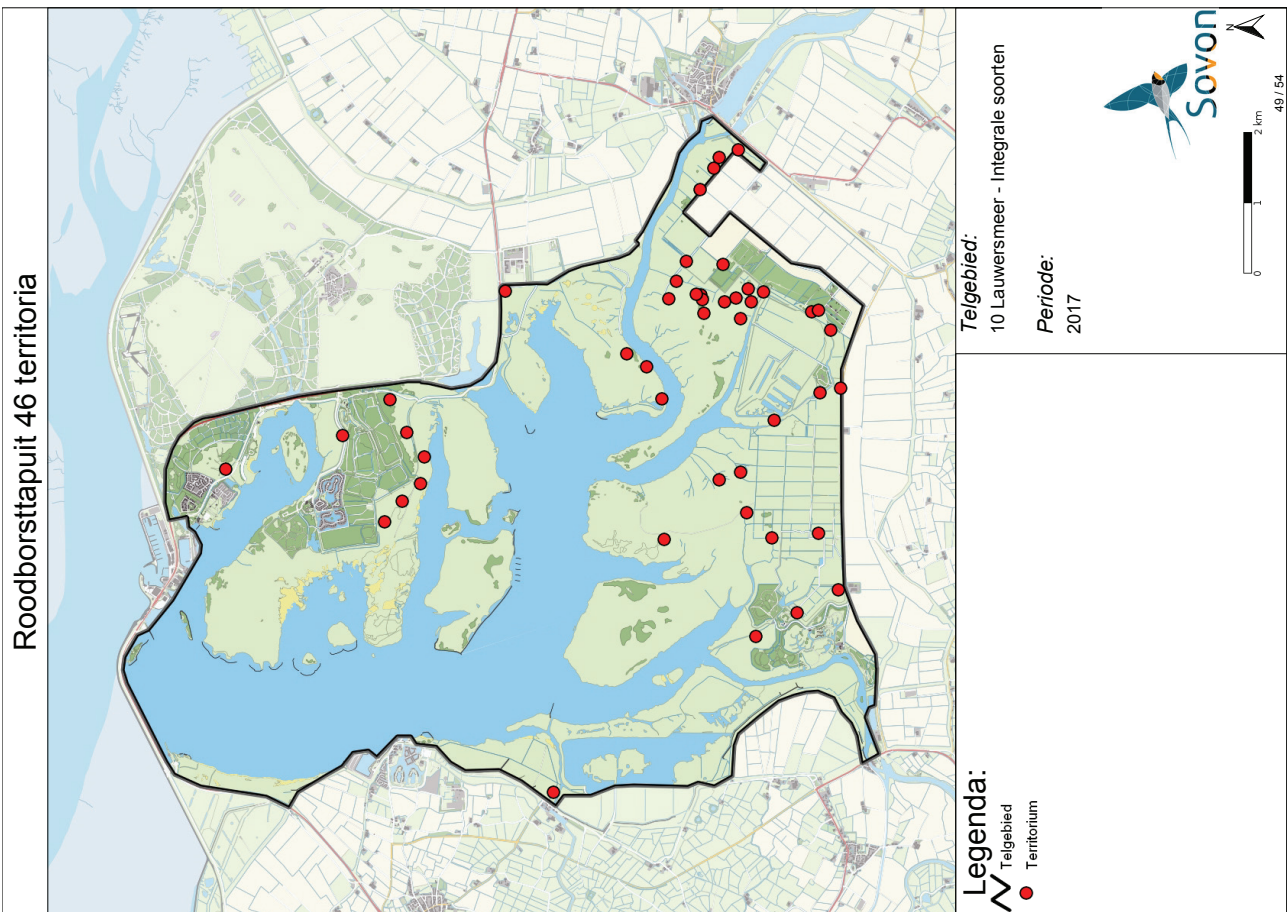
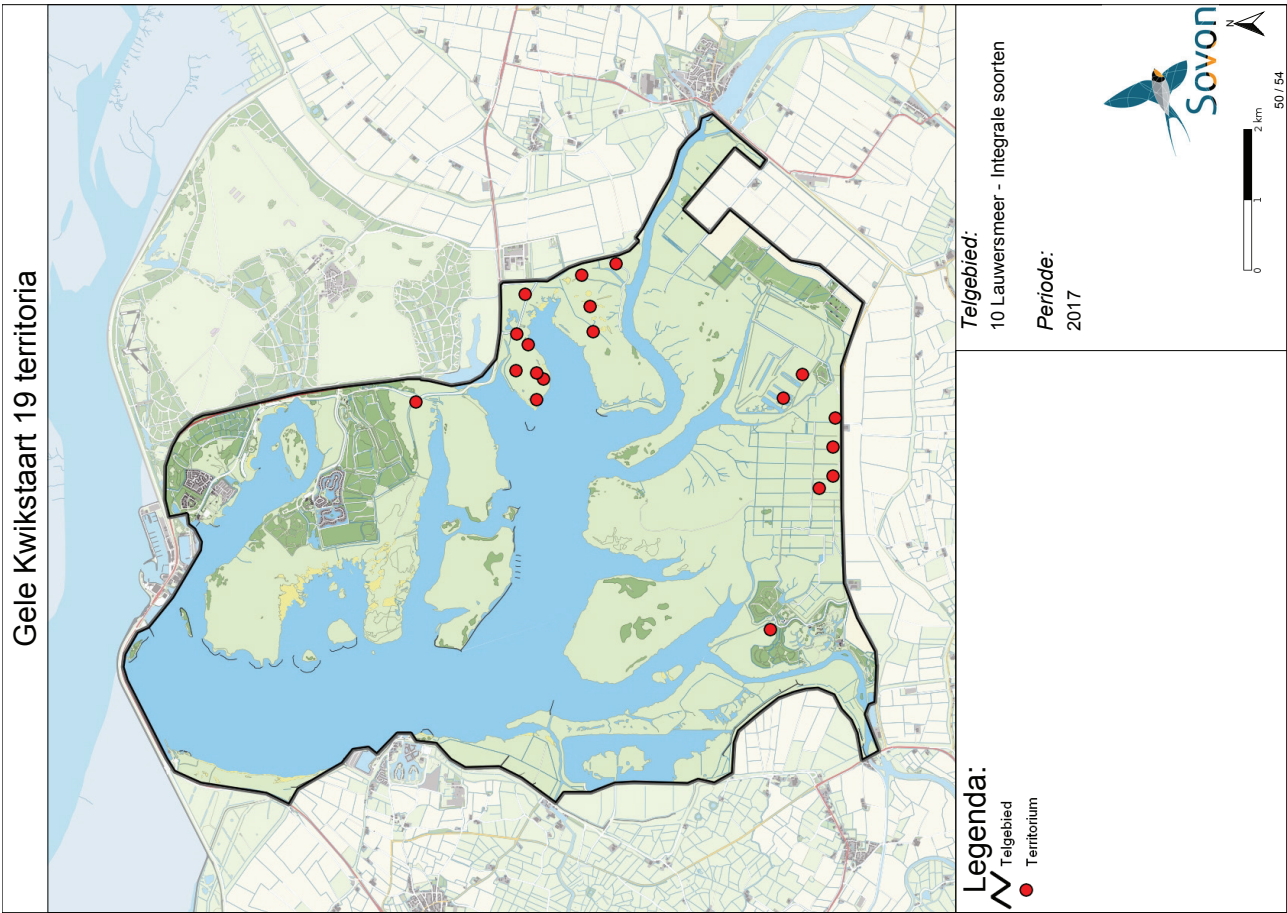


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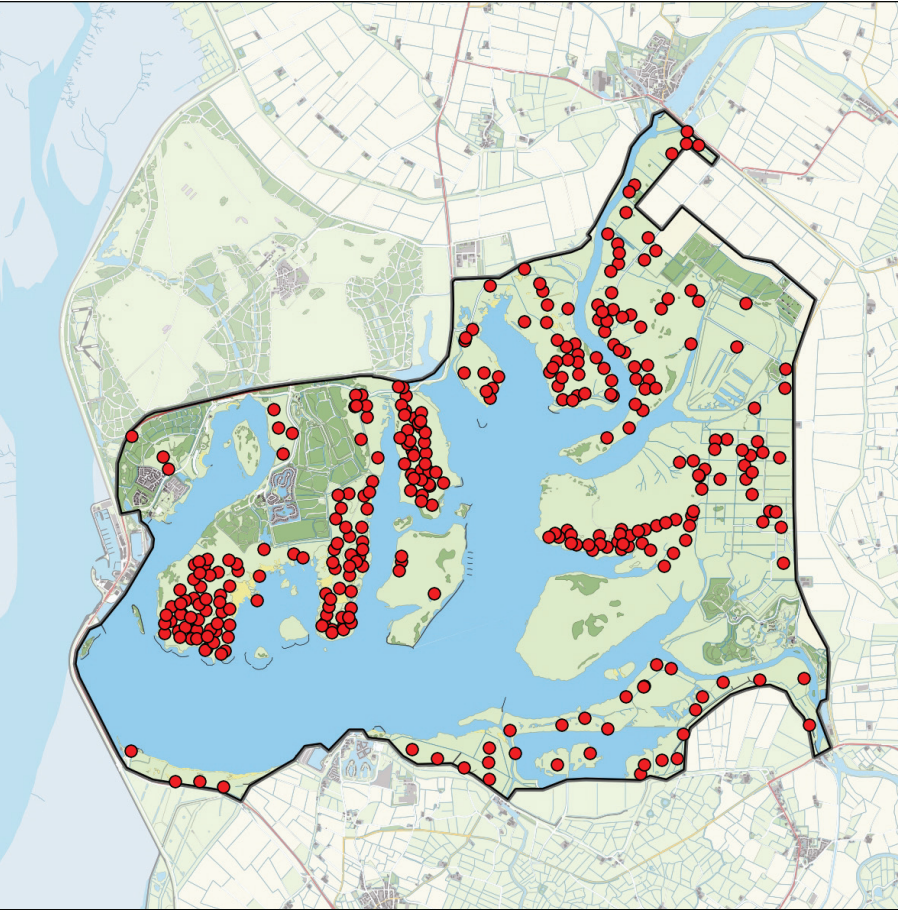
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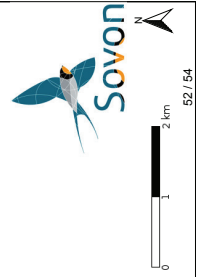
Graspieper 324 territoria



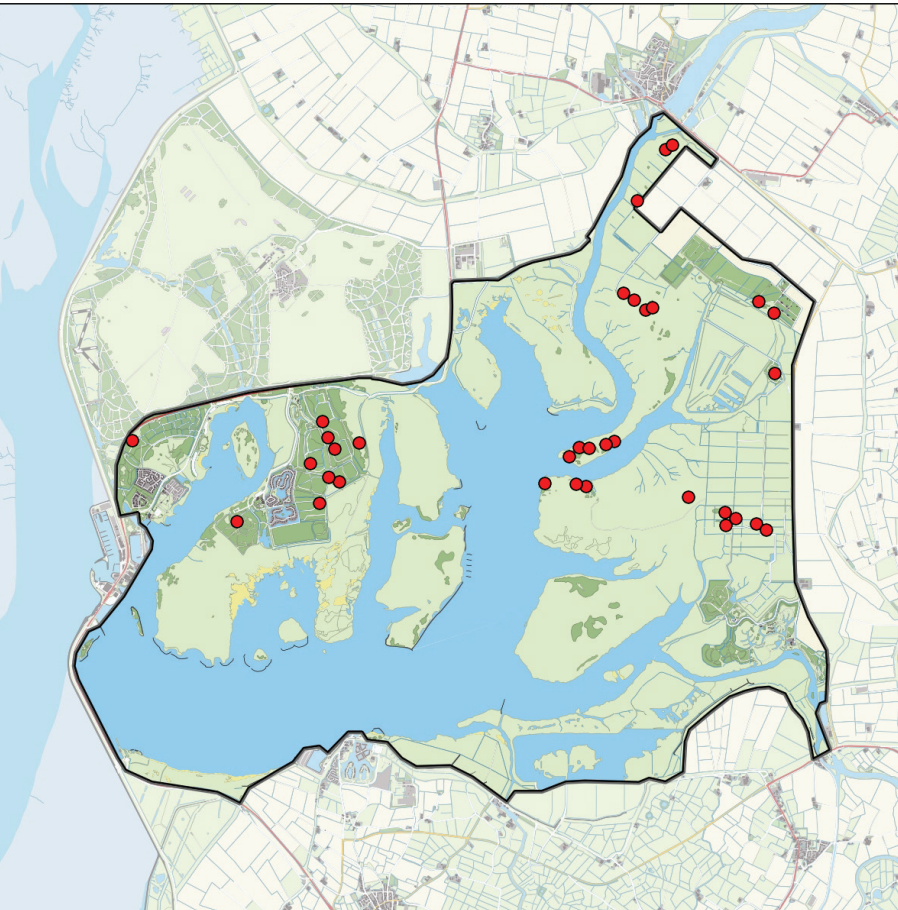
Legenda:
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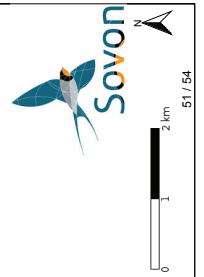
Boompieper 34 territoria

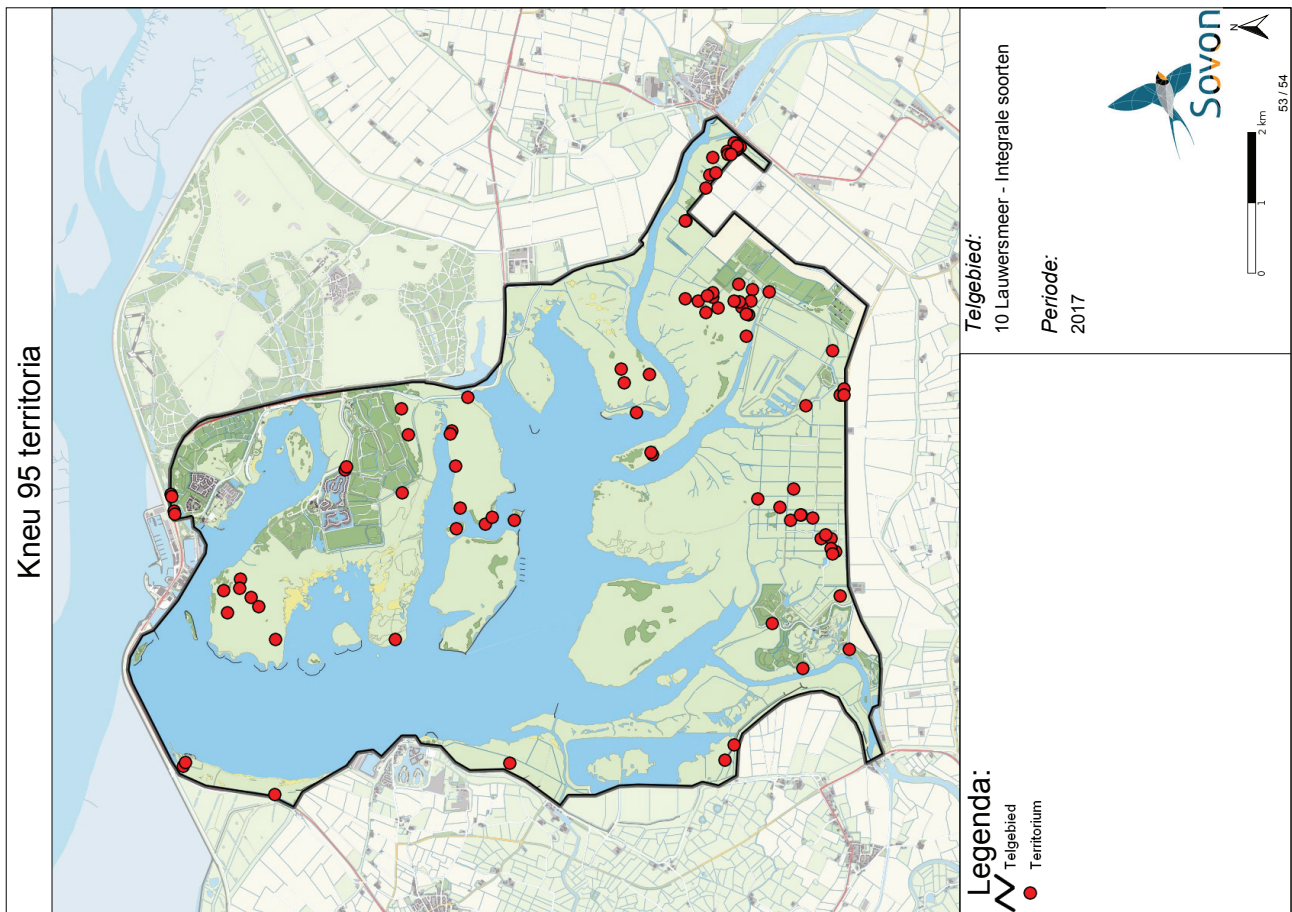
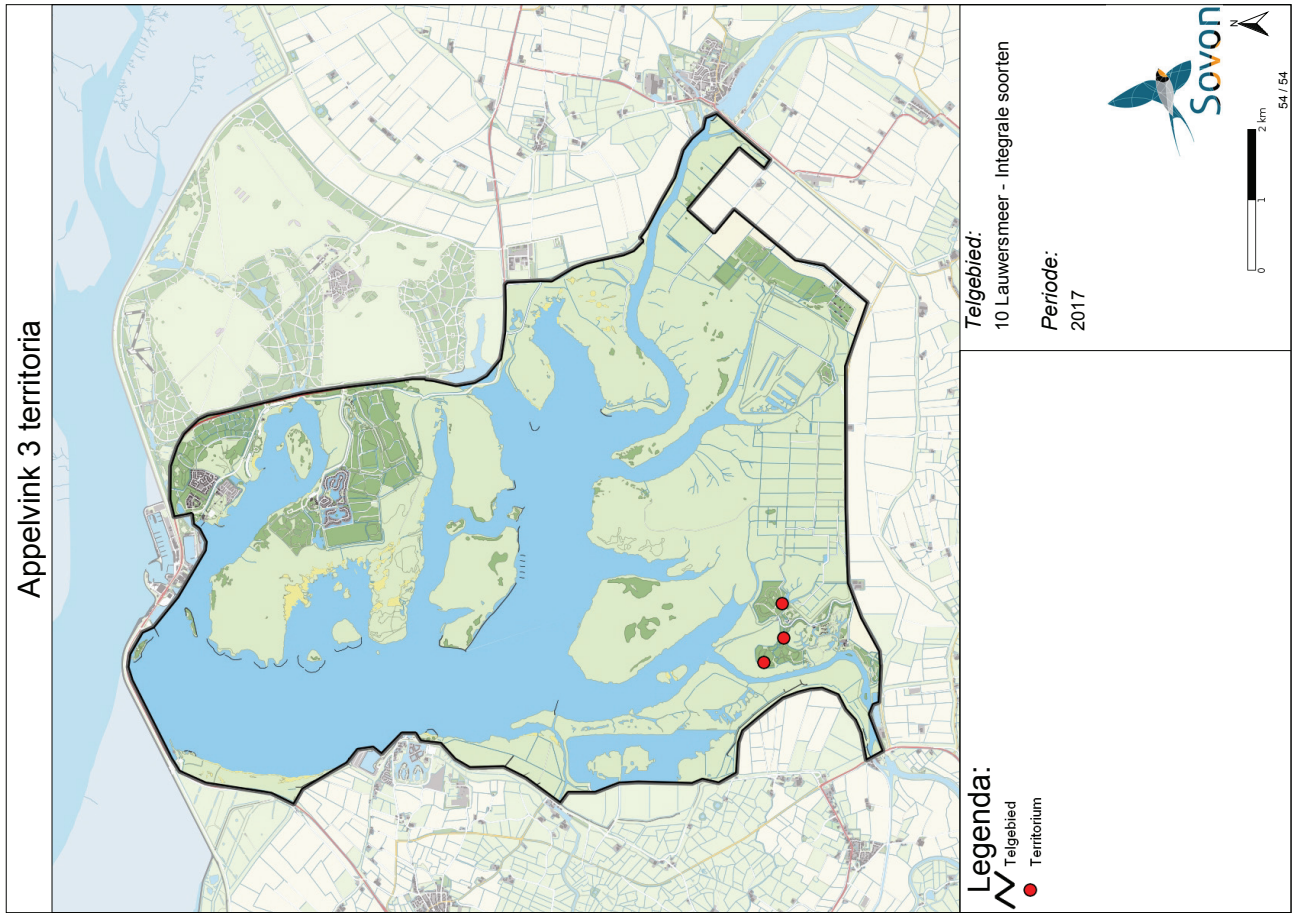


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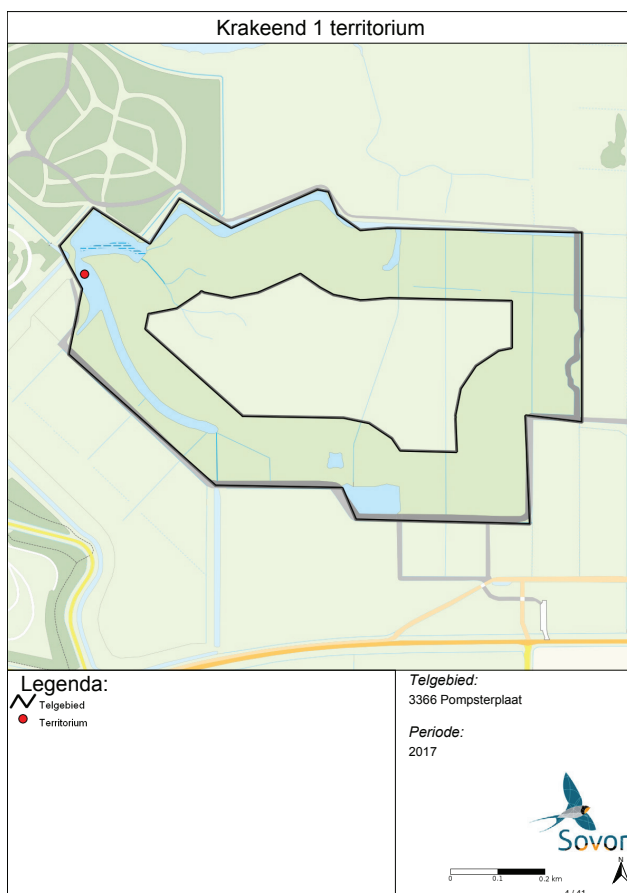
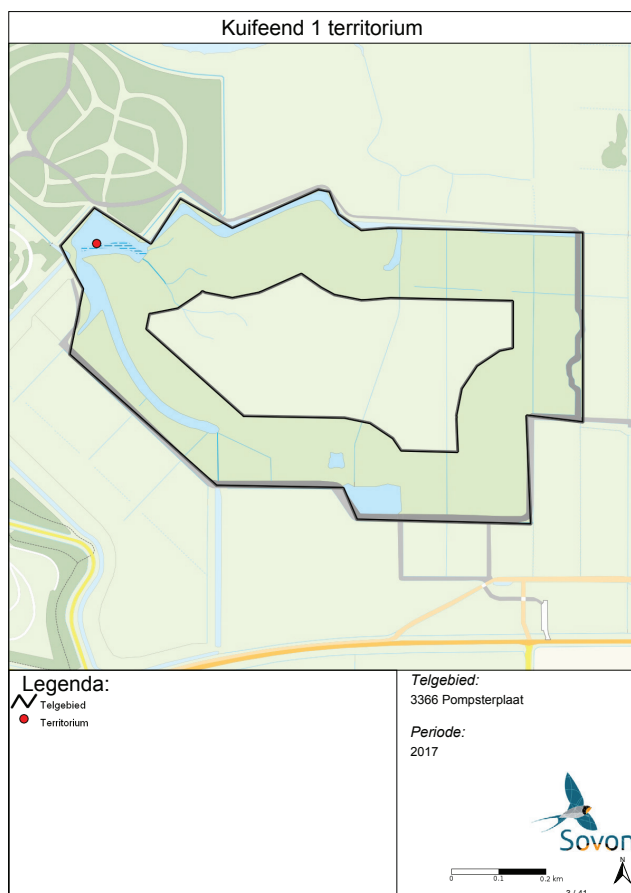
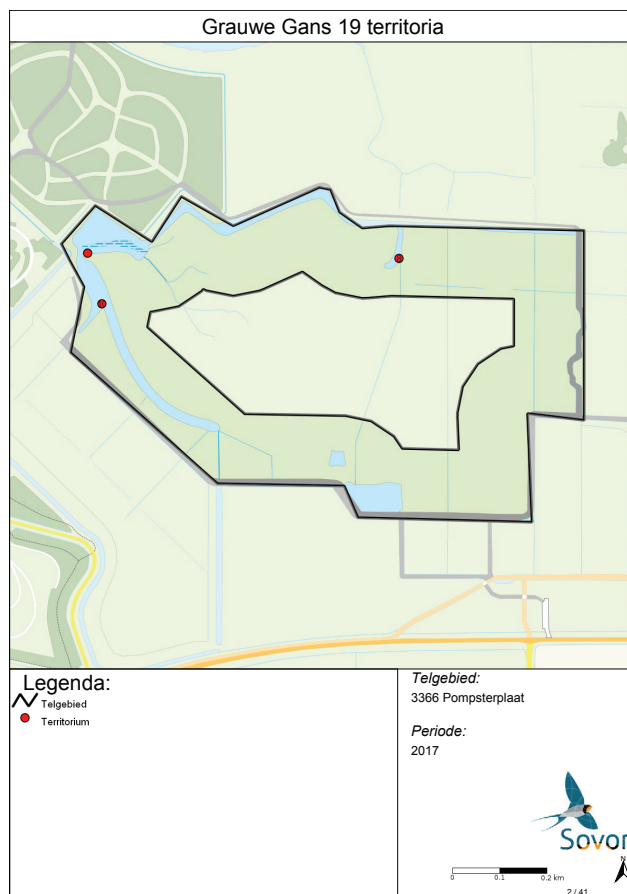
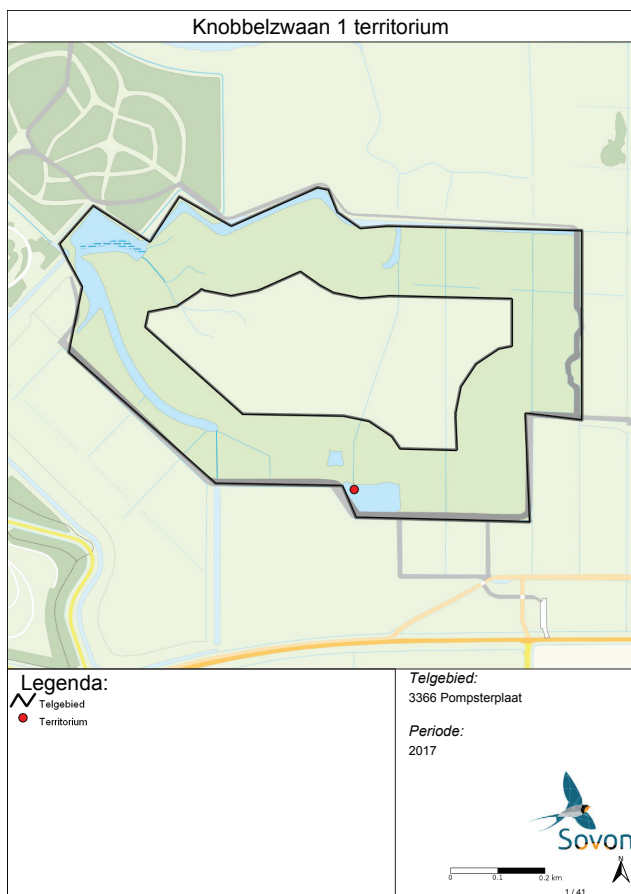
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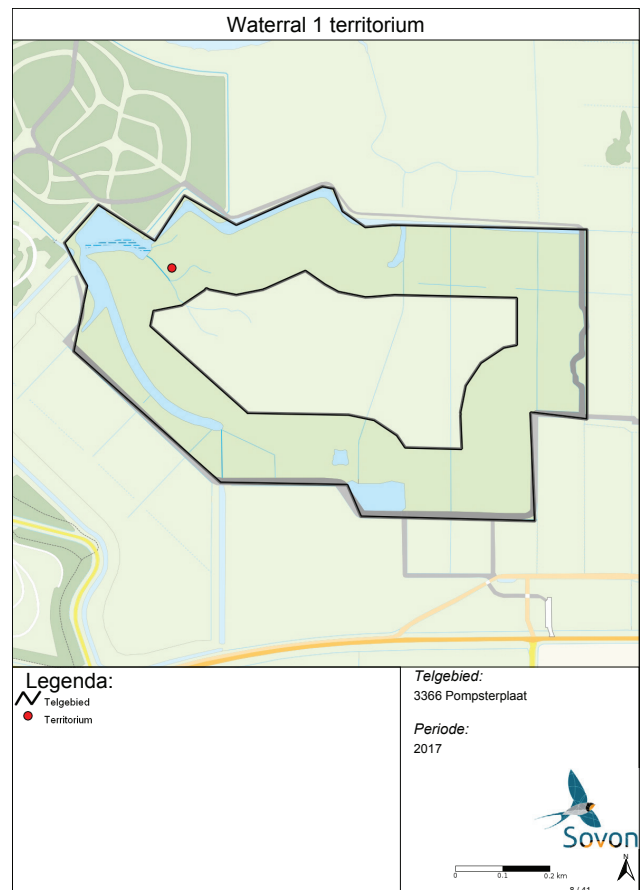
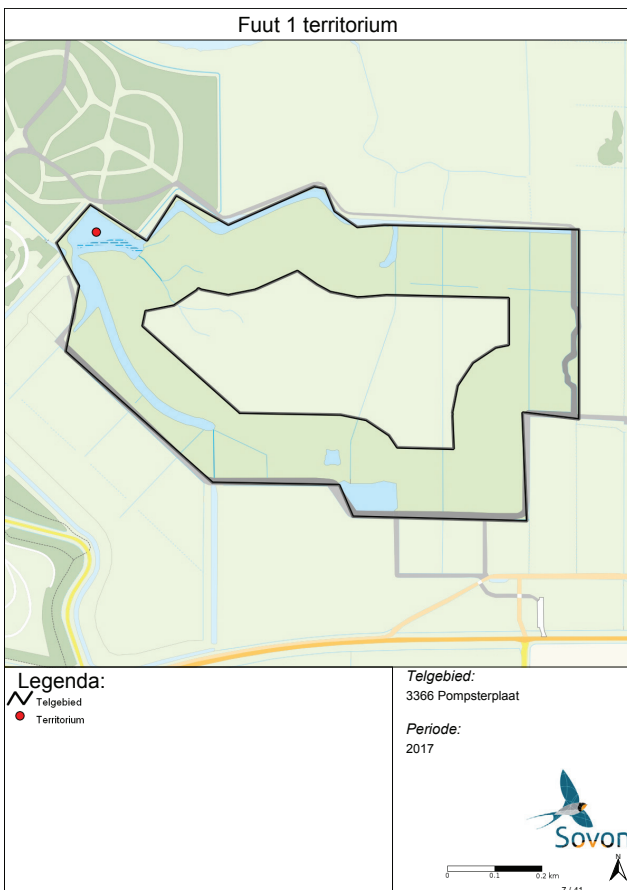
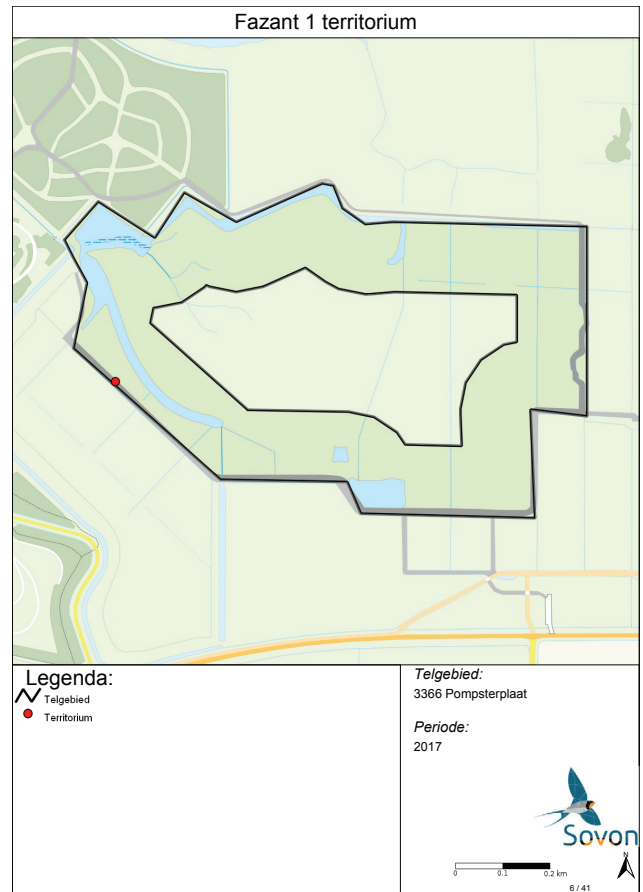
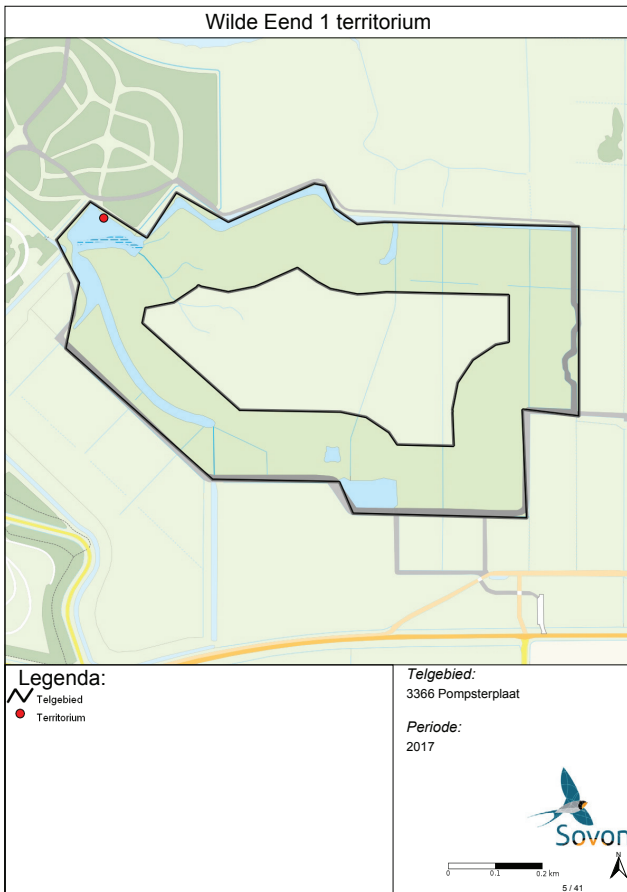


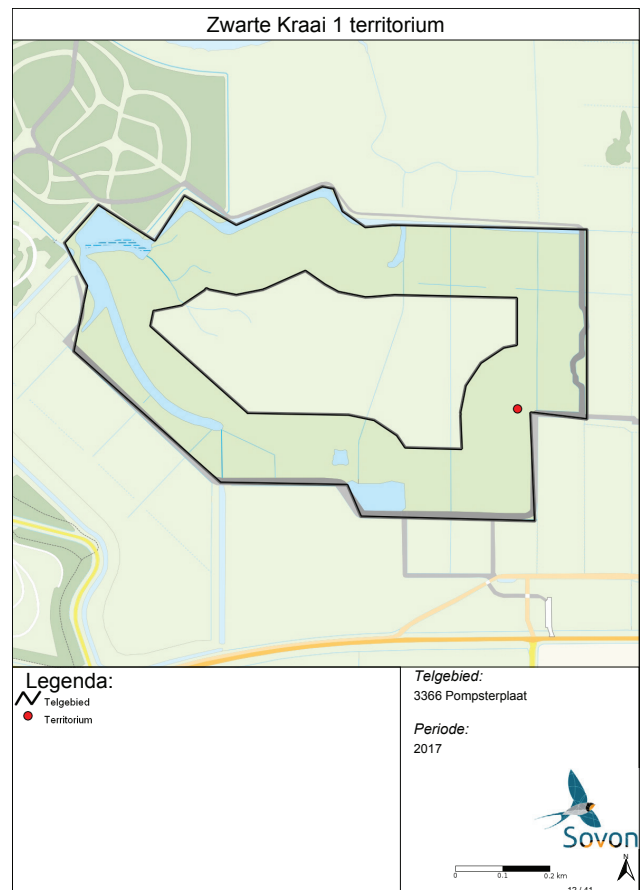
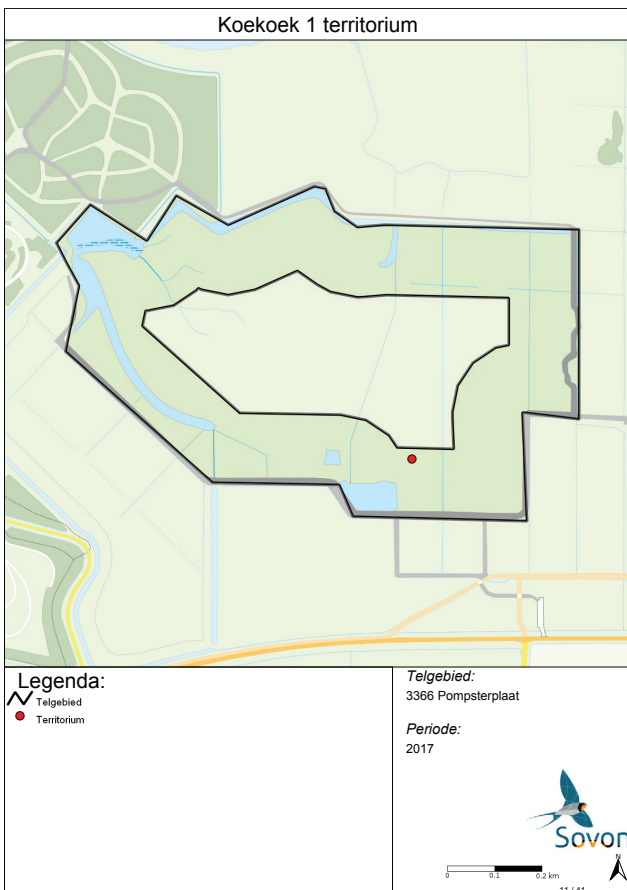
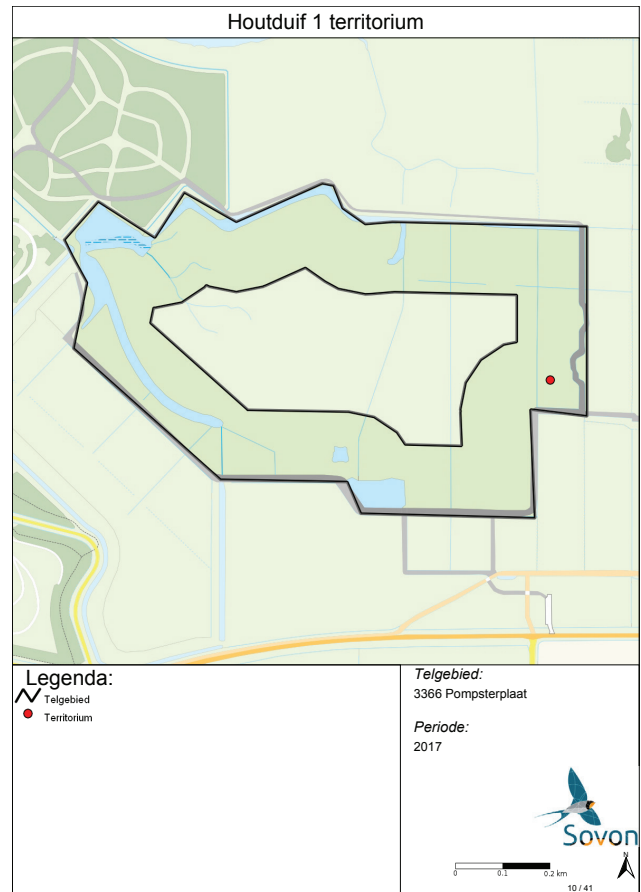
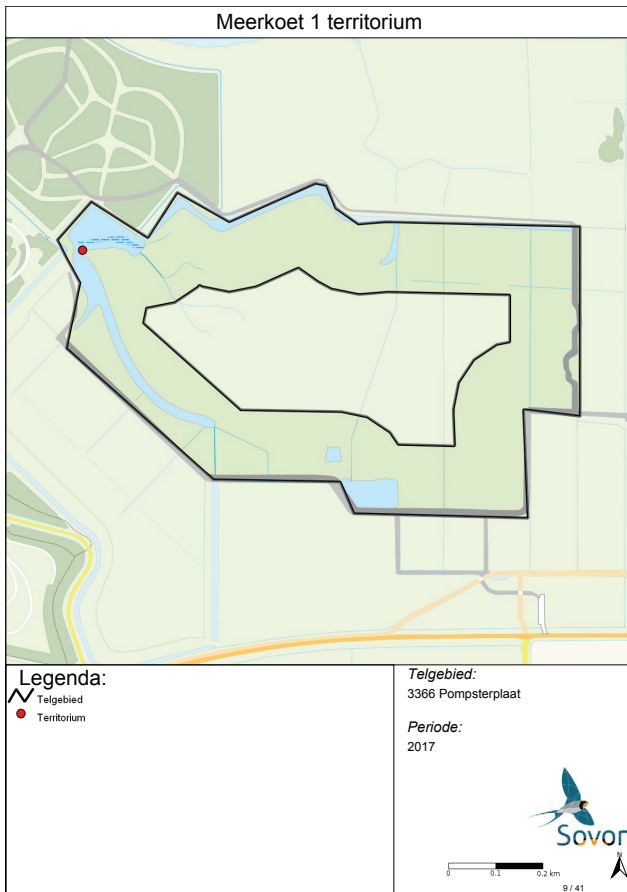


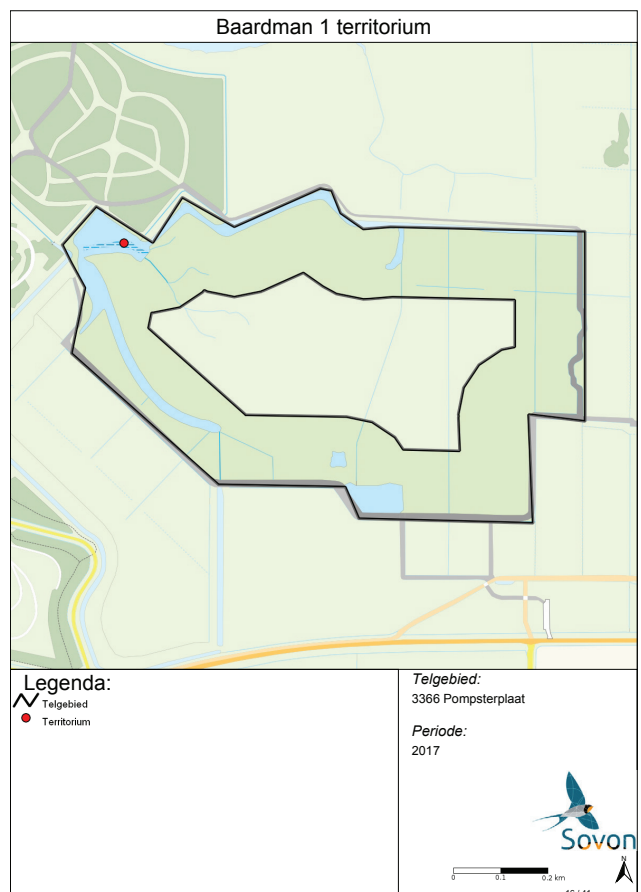
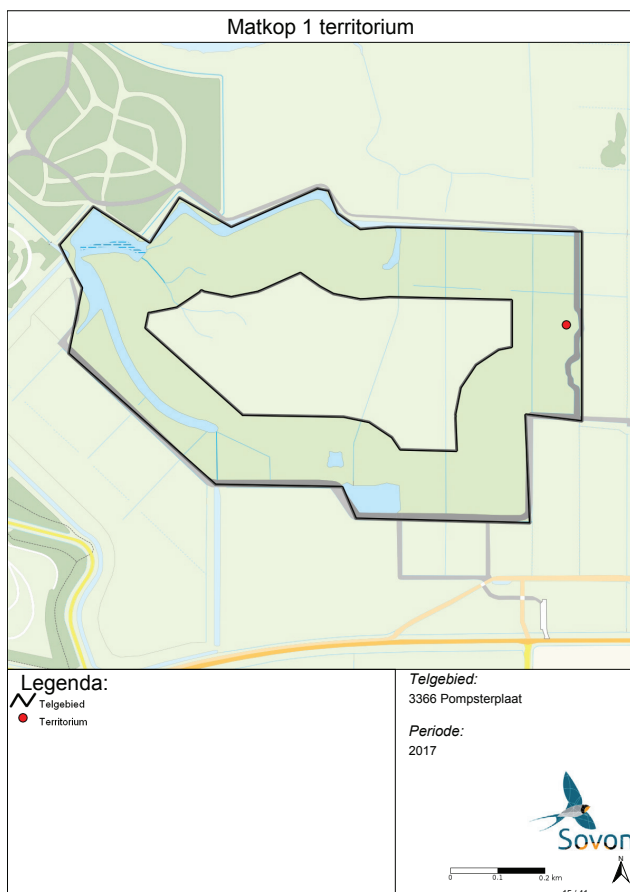
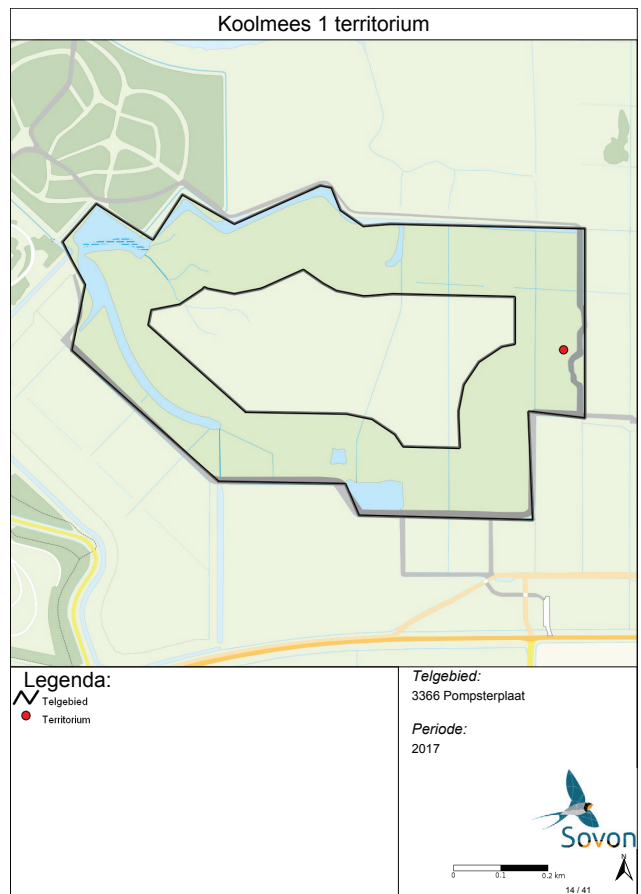
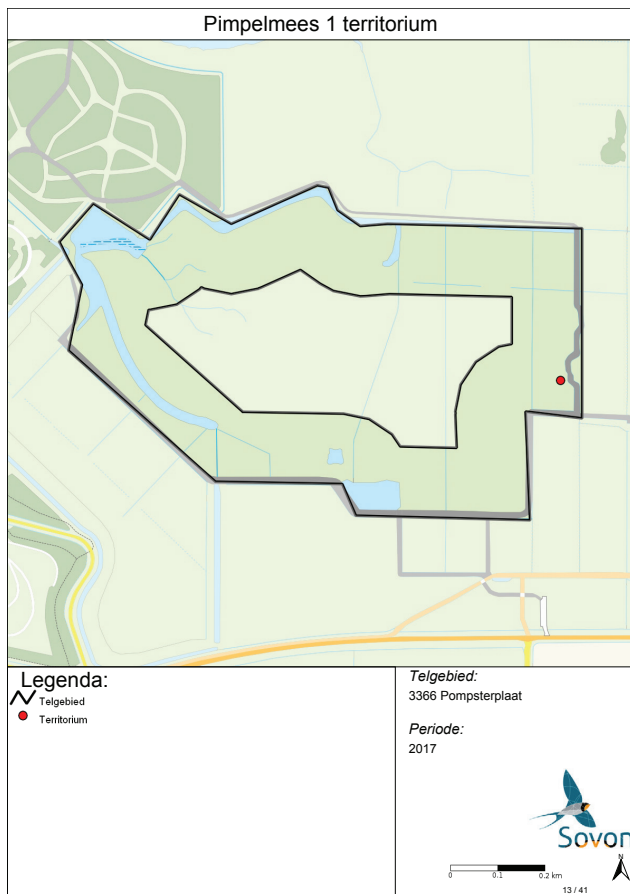
Bijlage 19. Stippenkaarten per gebied

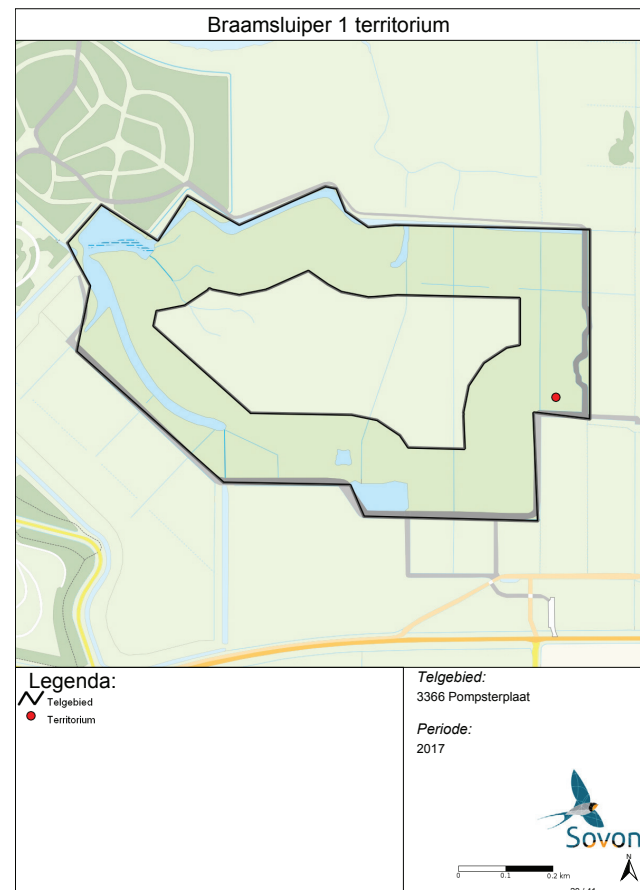
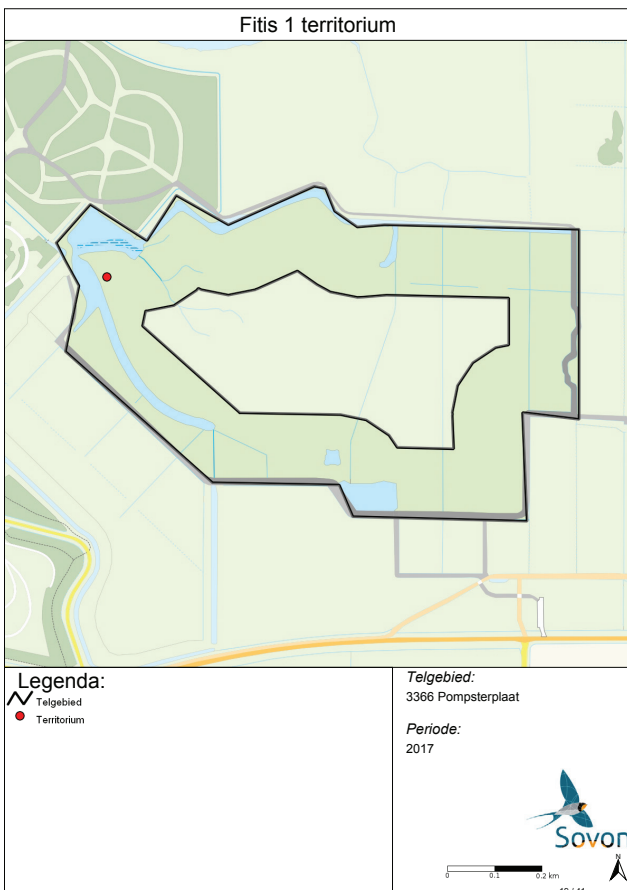
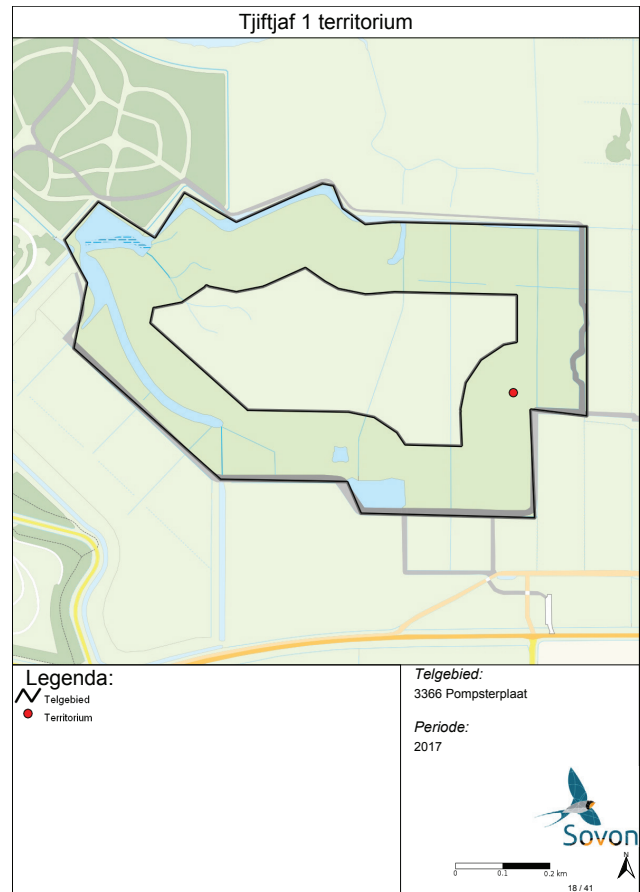
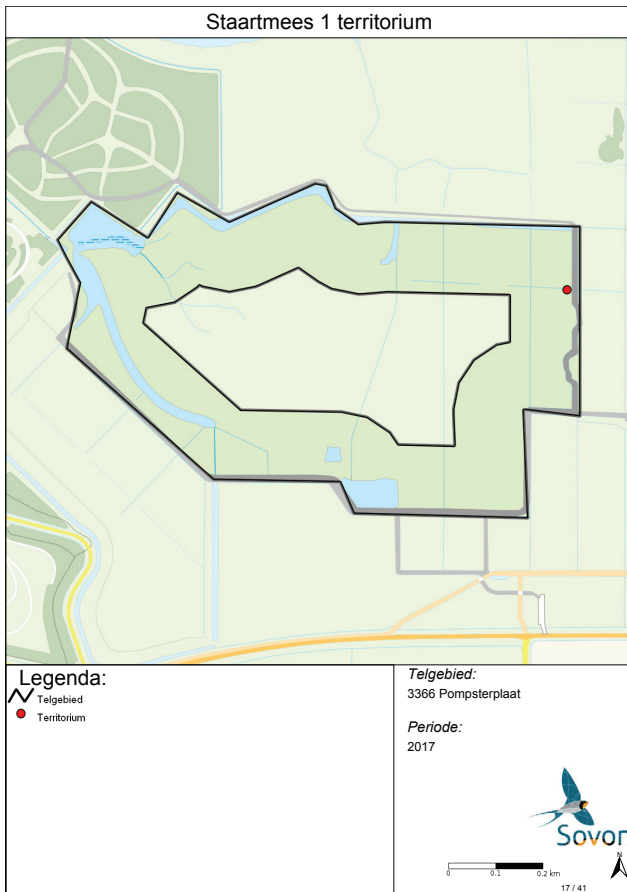
Bijlage 19a. Pompsterplaat Kollumeroor 2017

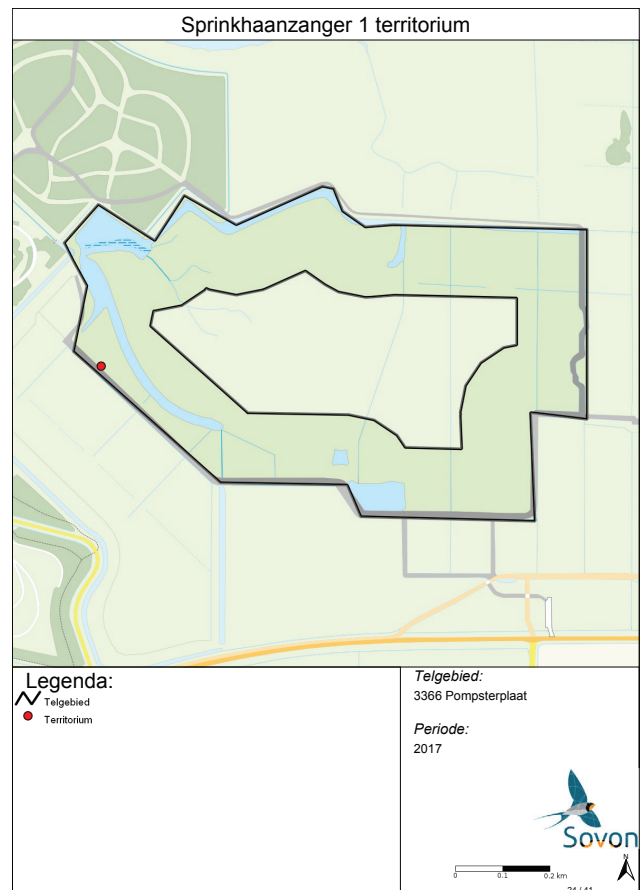
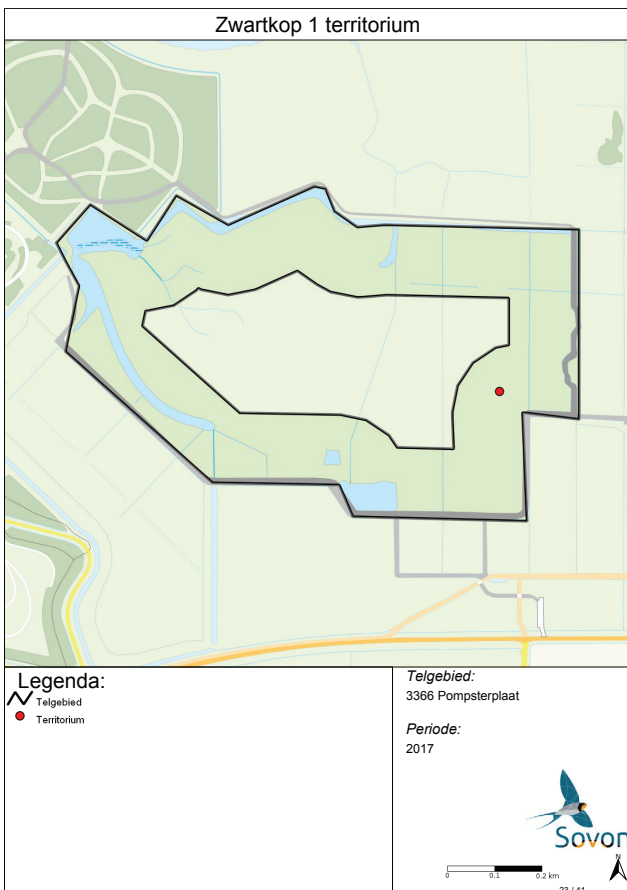
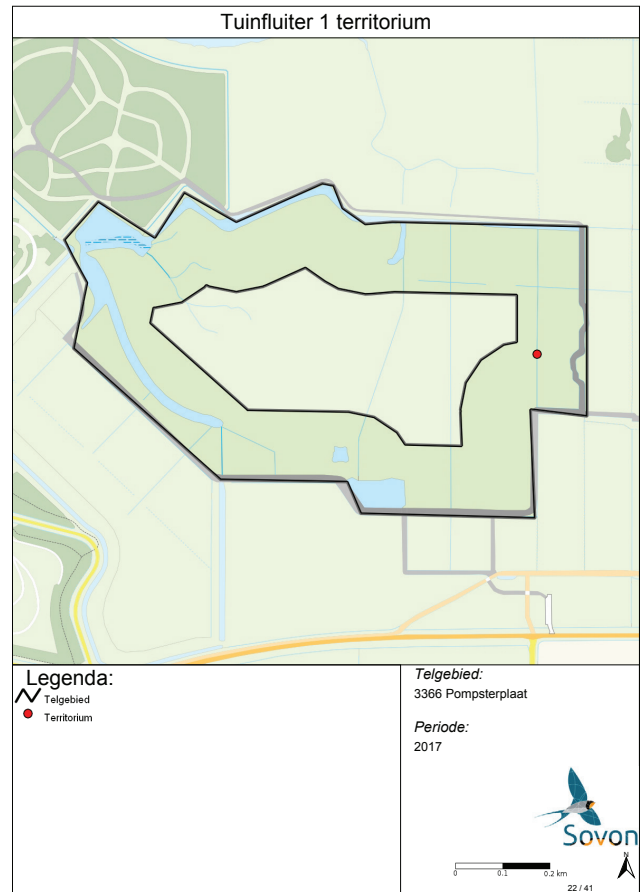
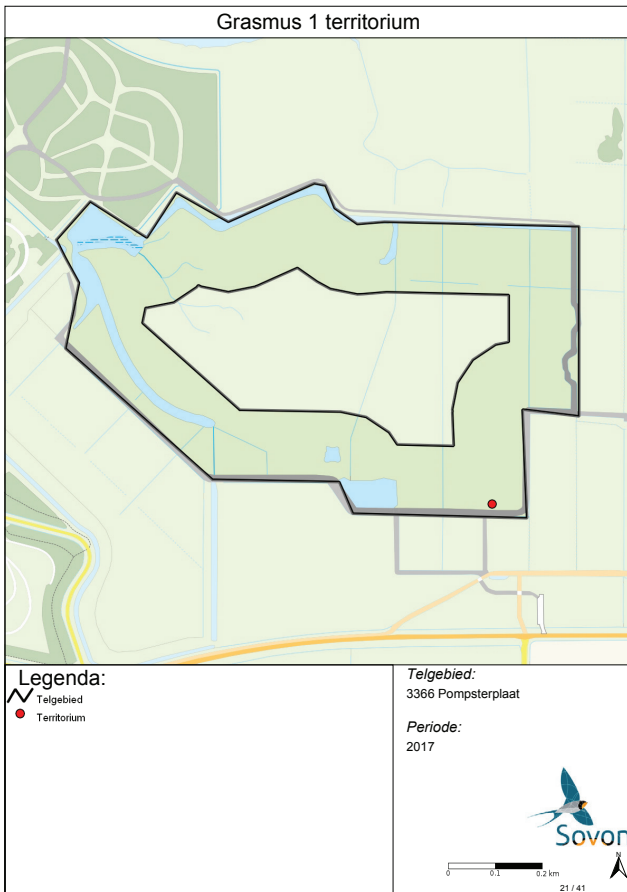


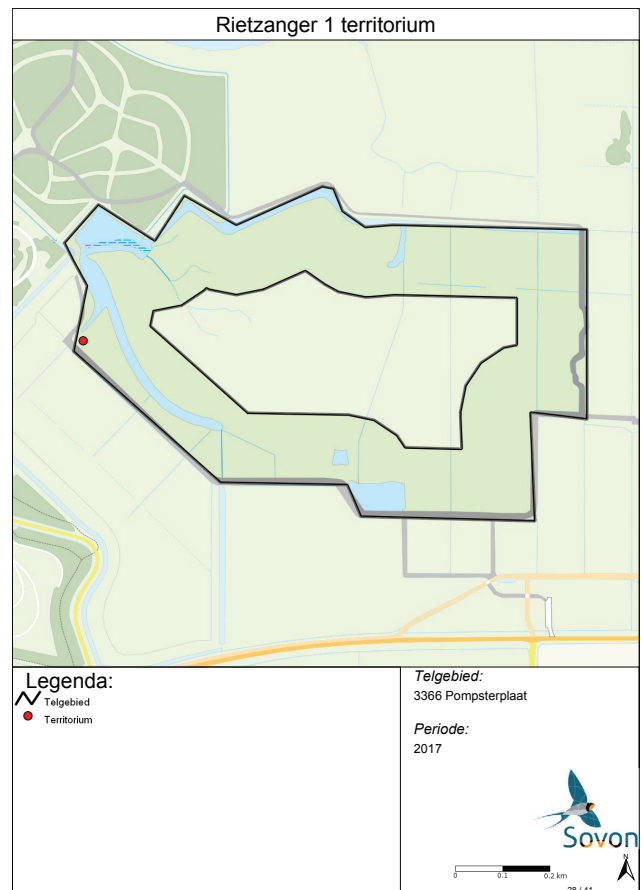
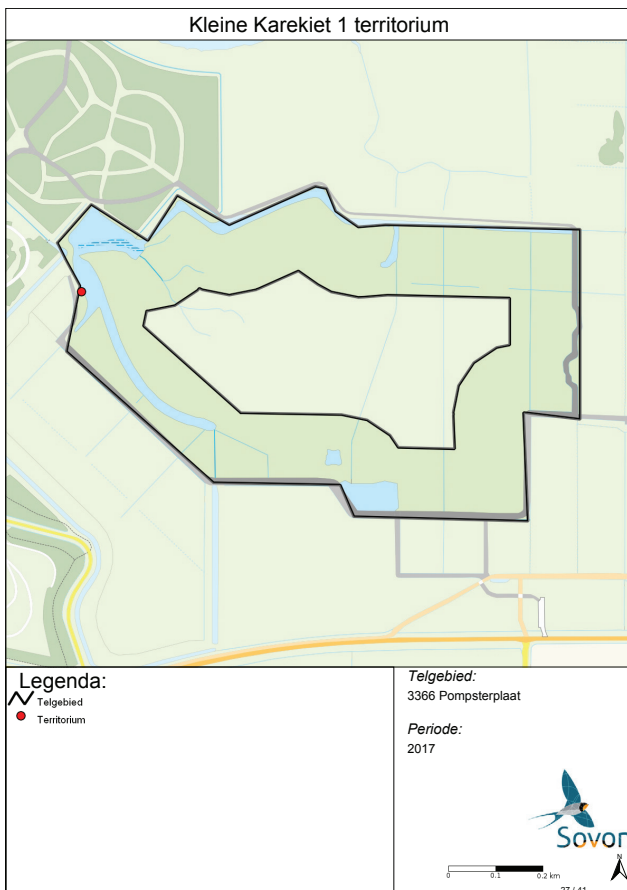
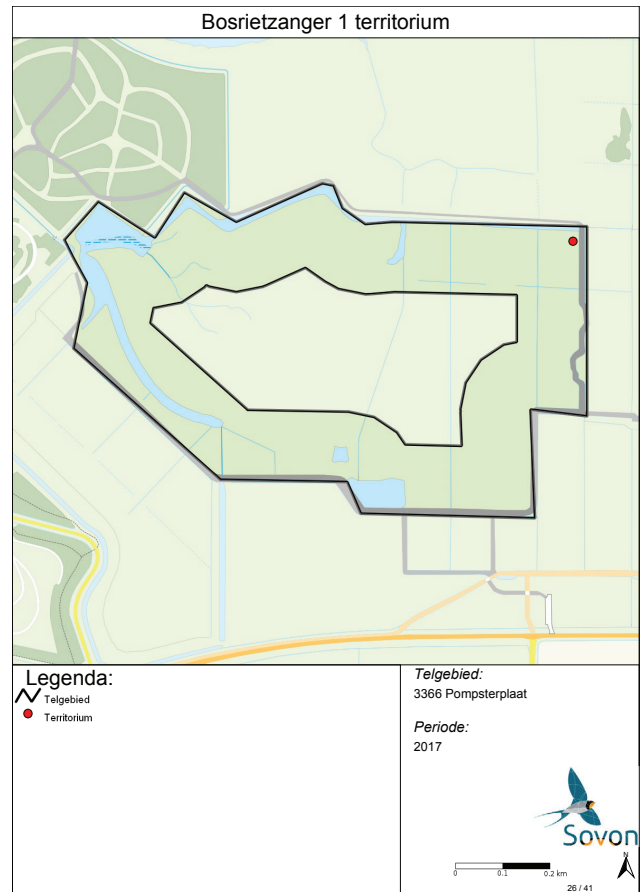
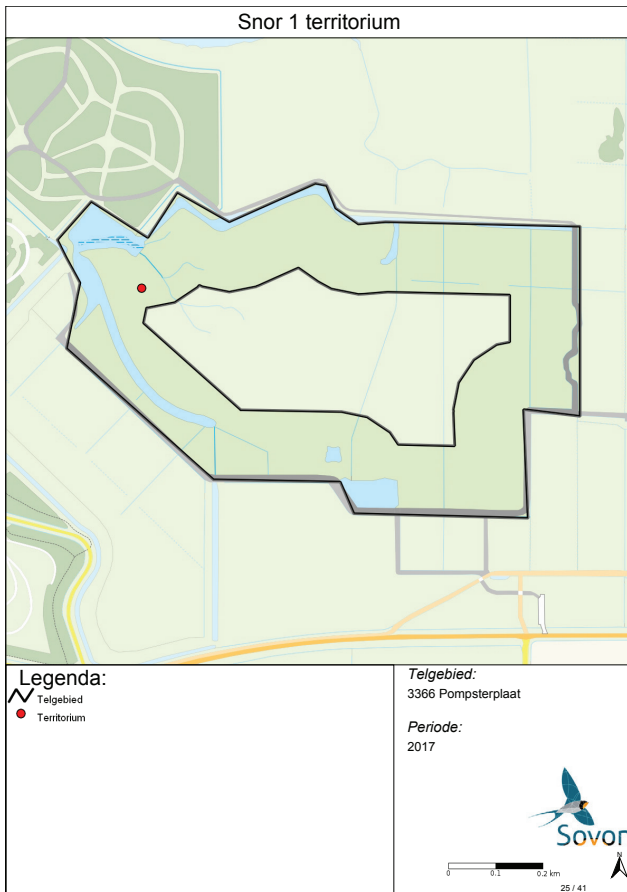


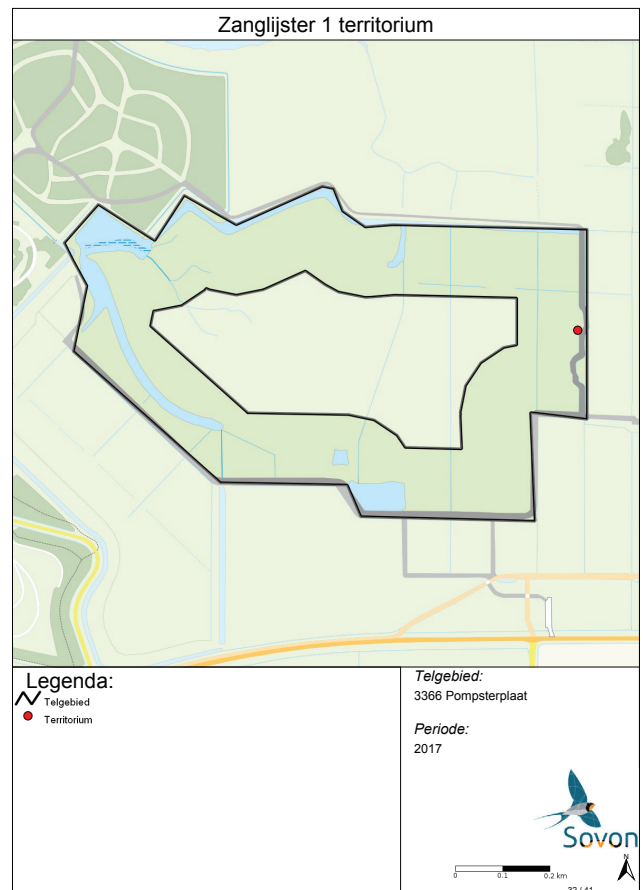
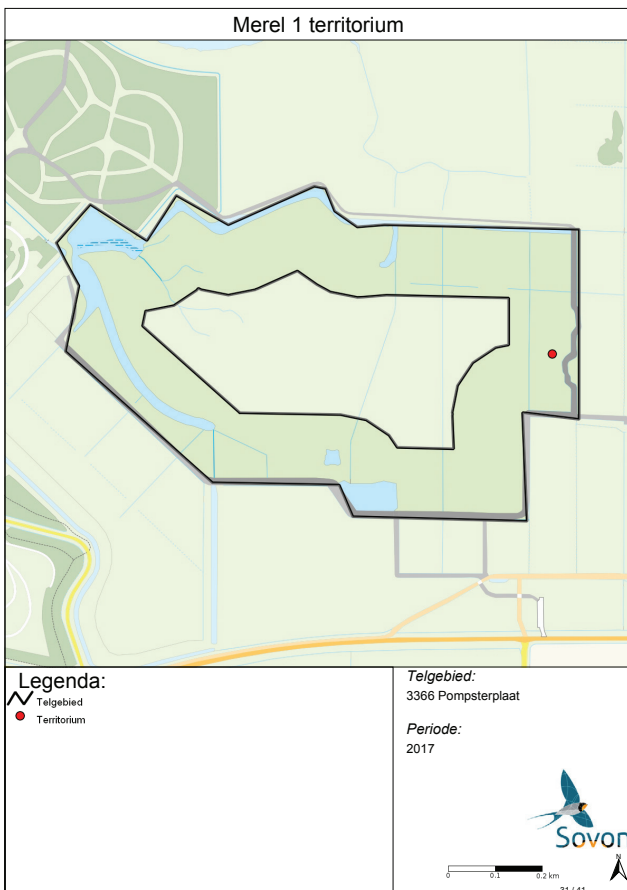
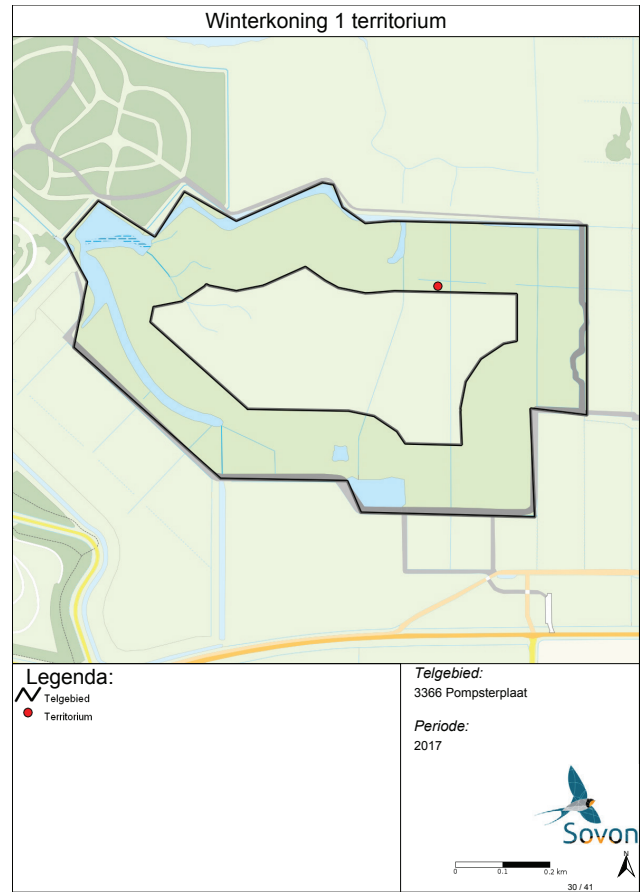
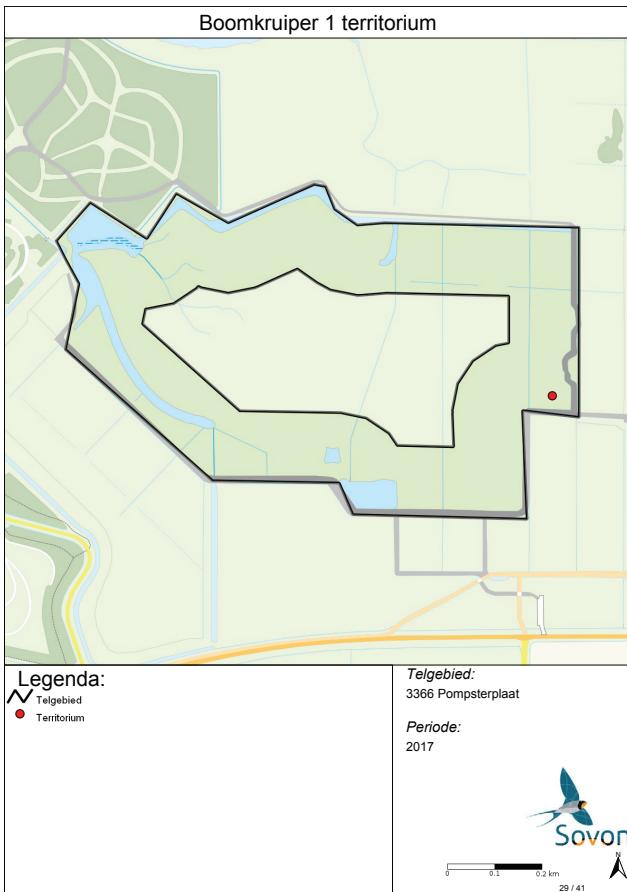


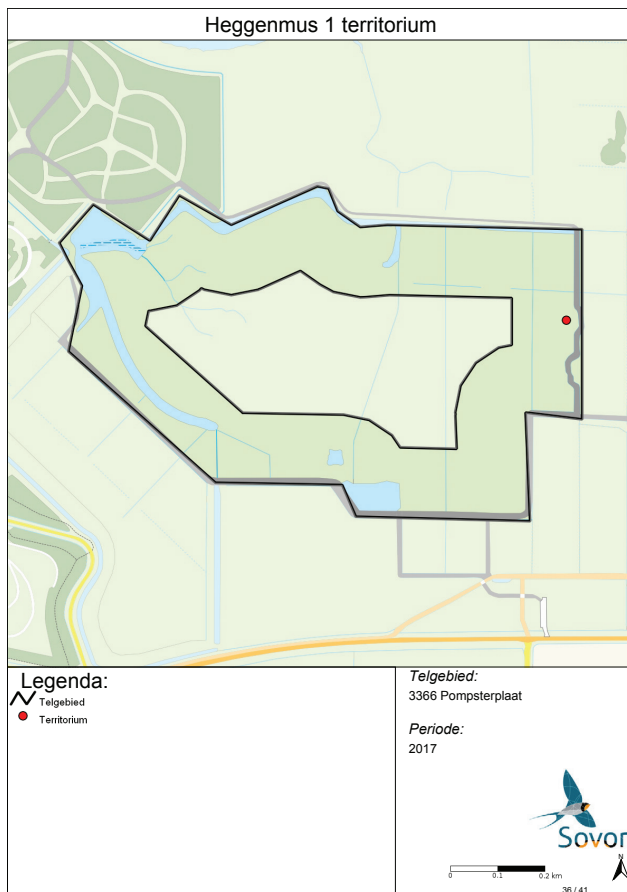
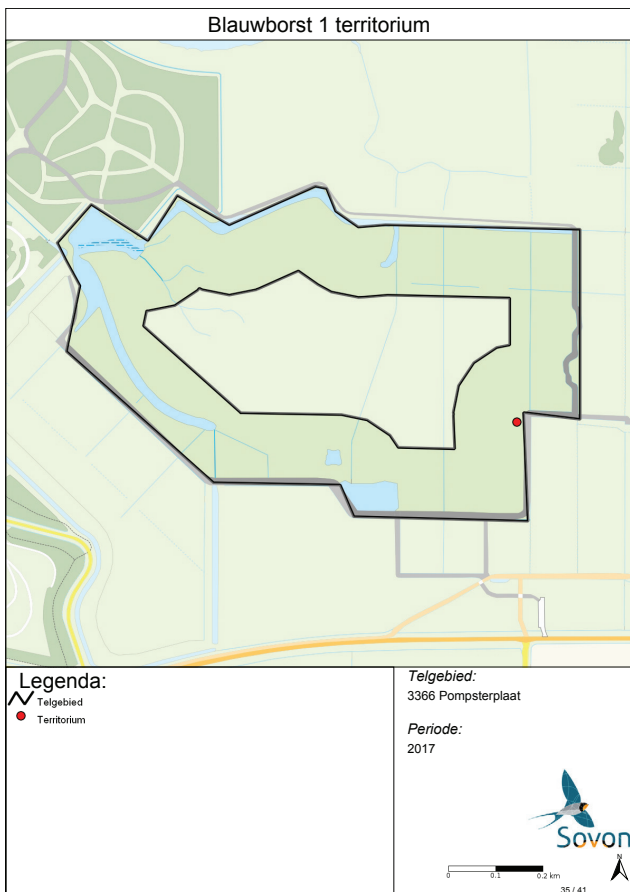
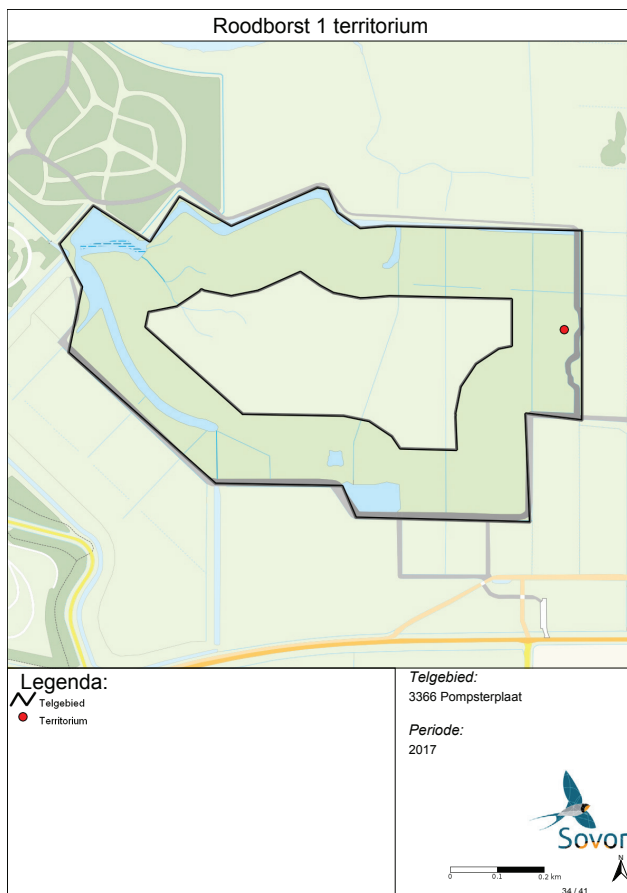
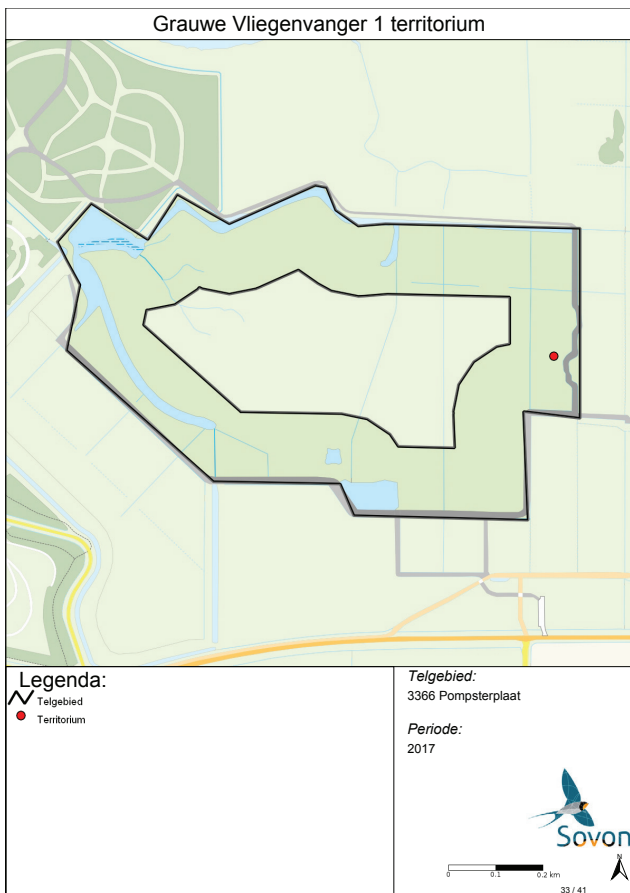


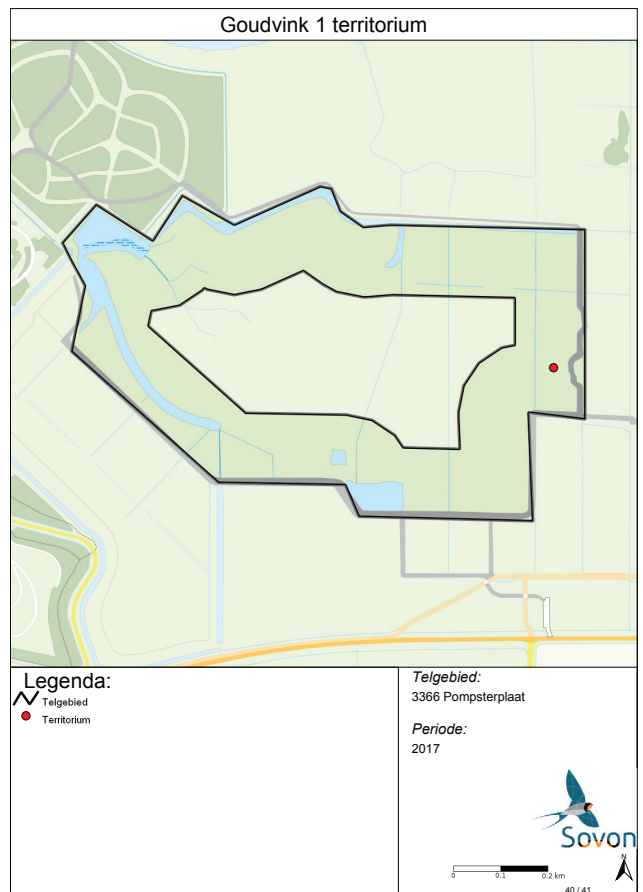
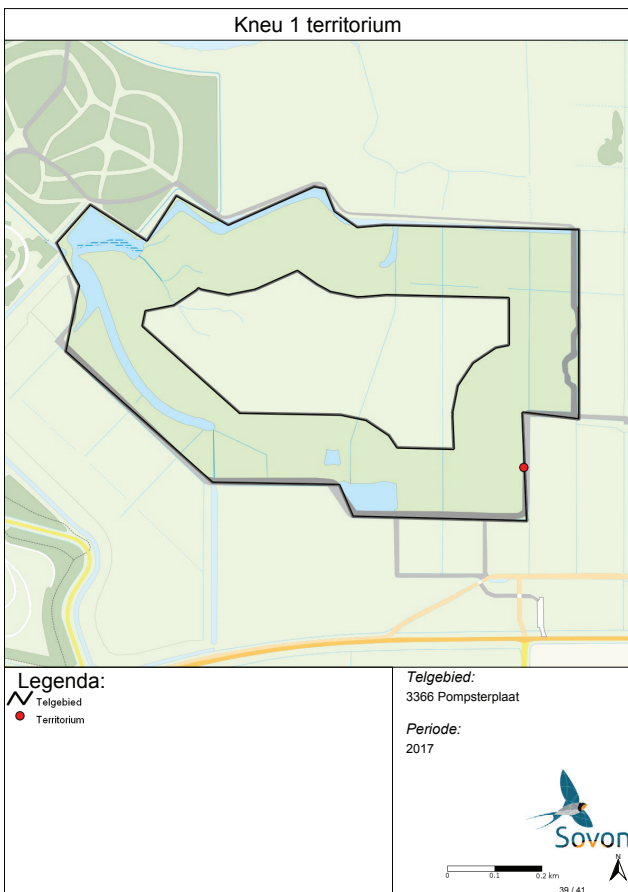
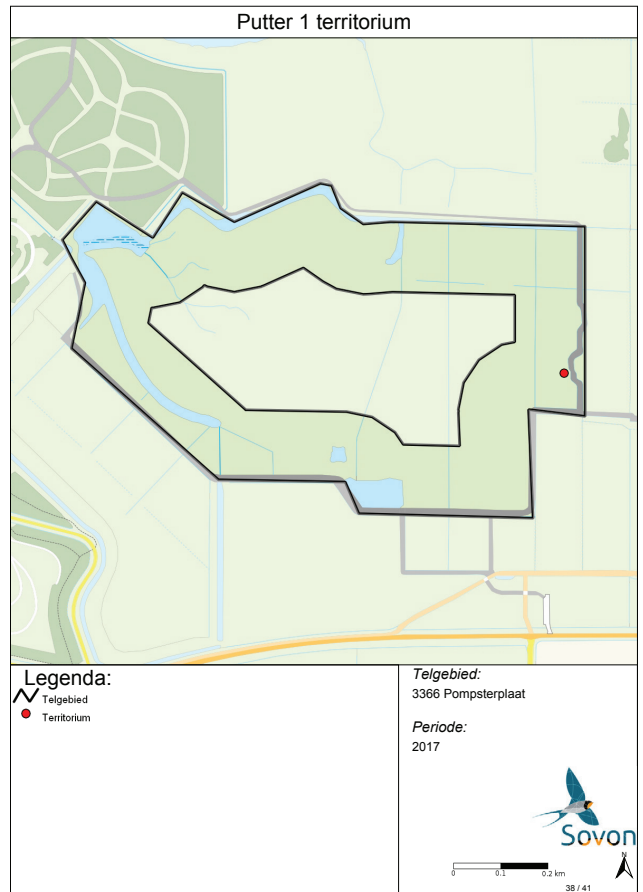
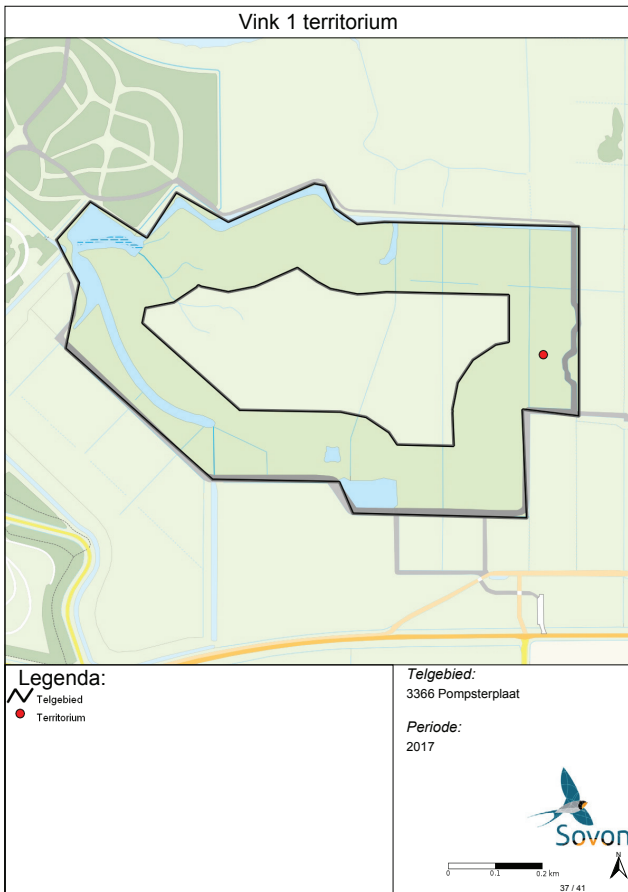


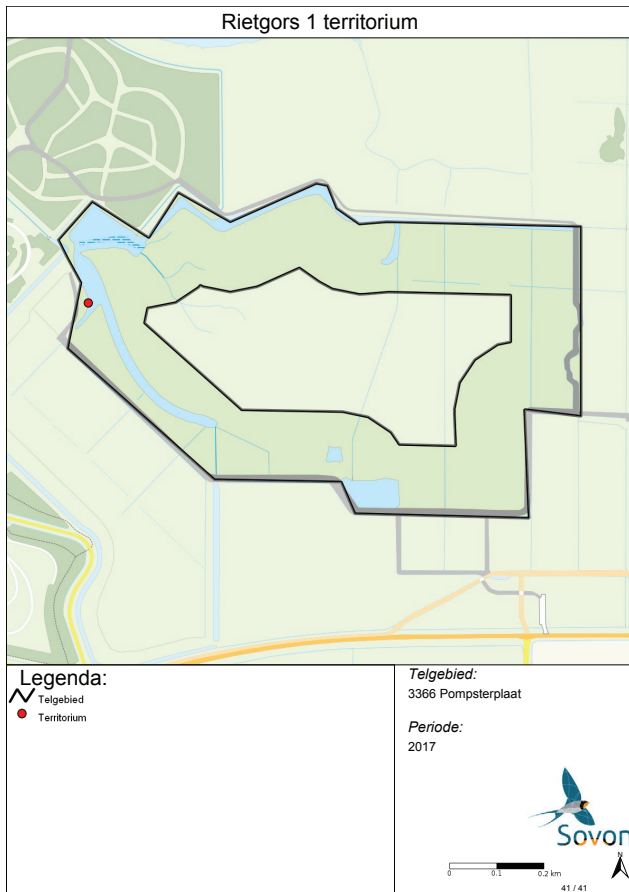




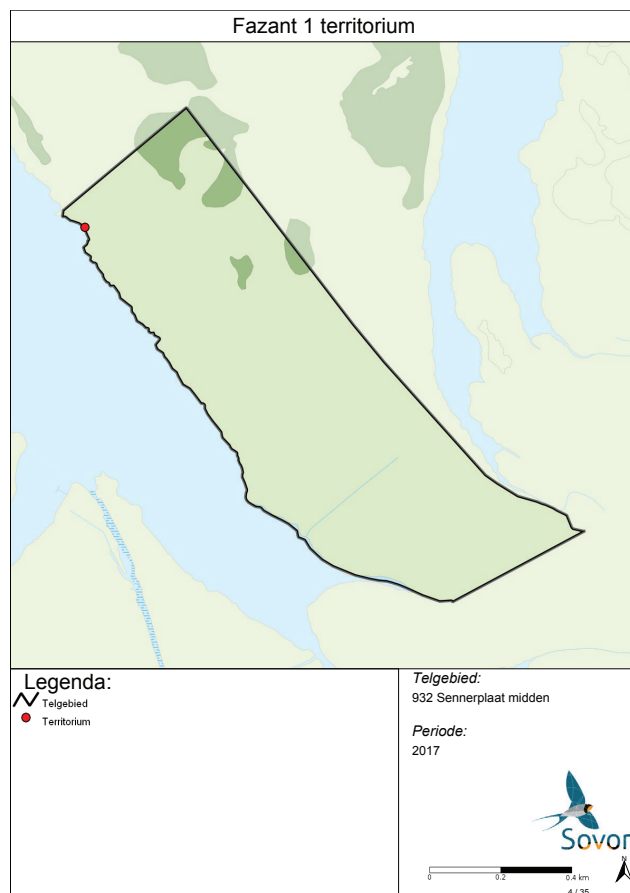
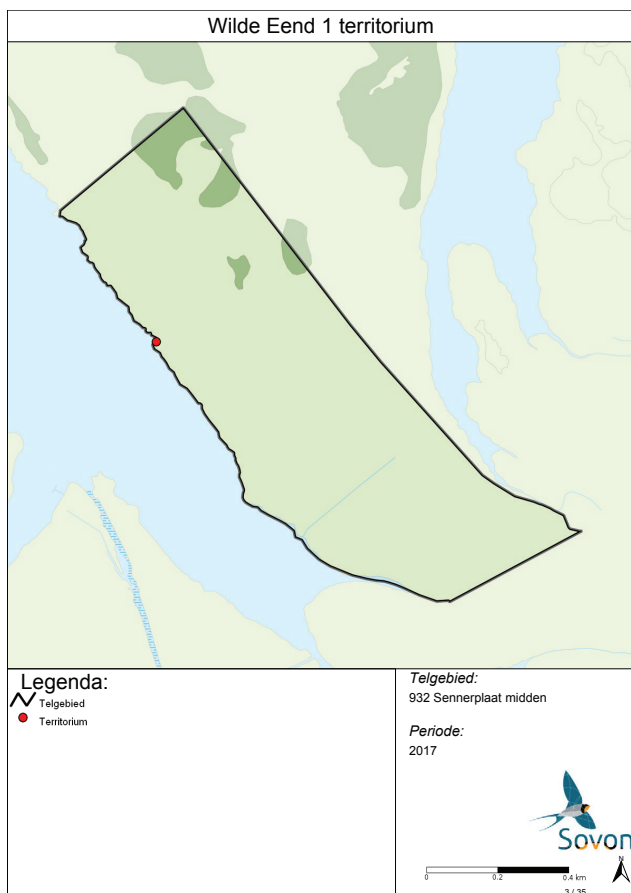
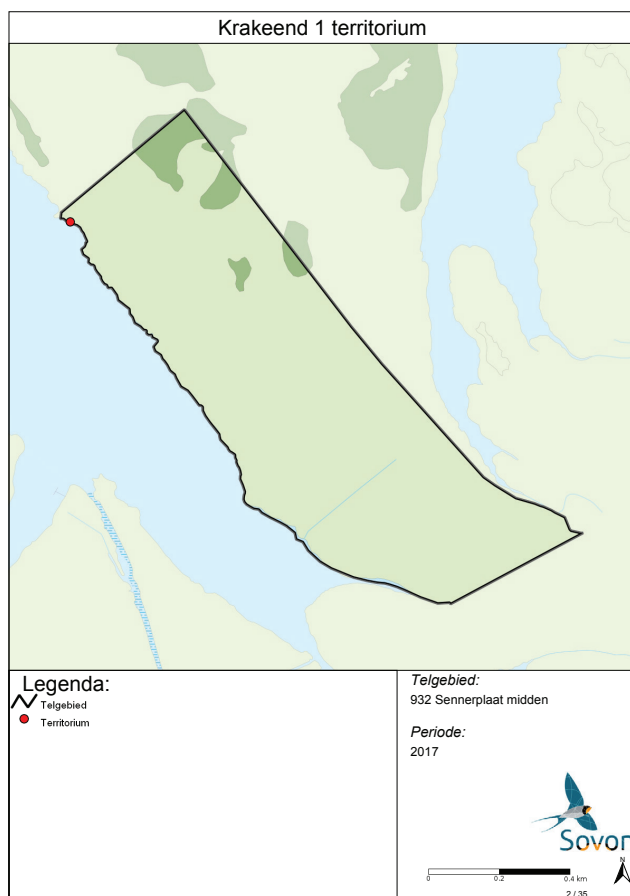
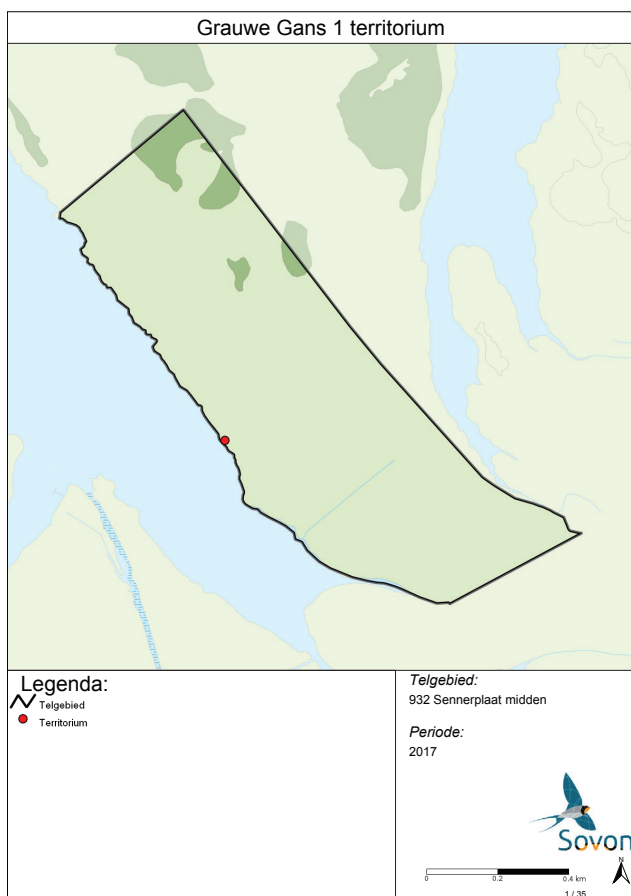


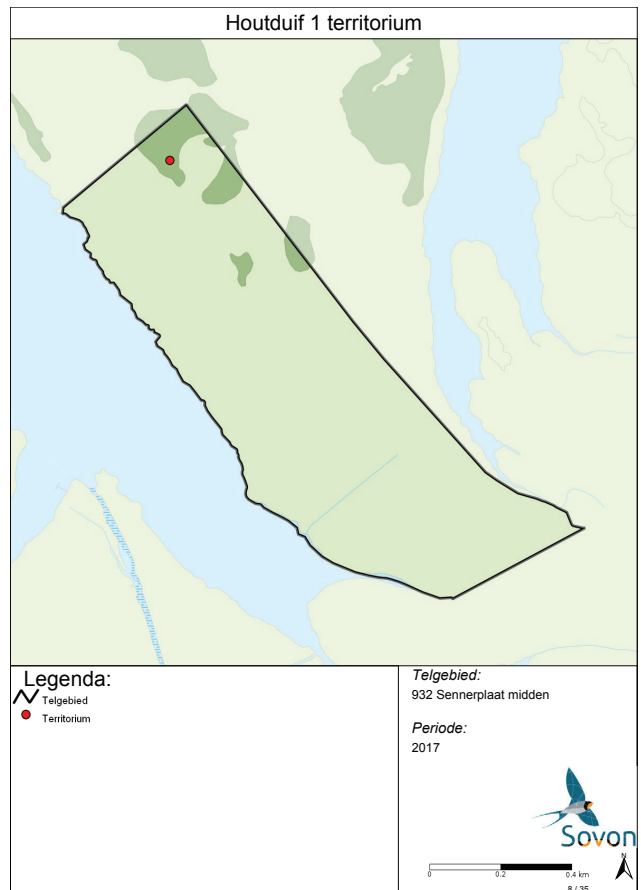
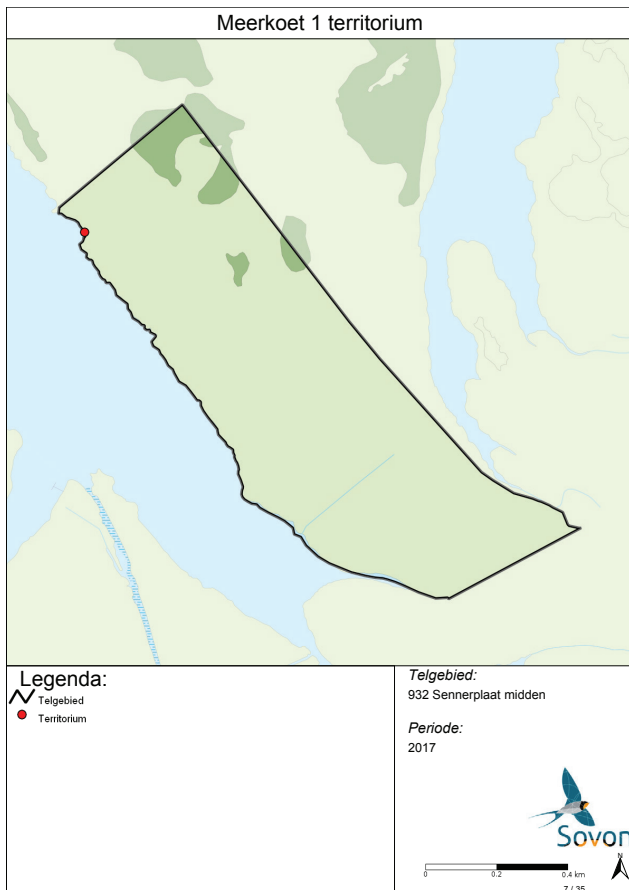
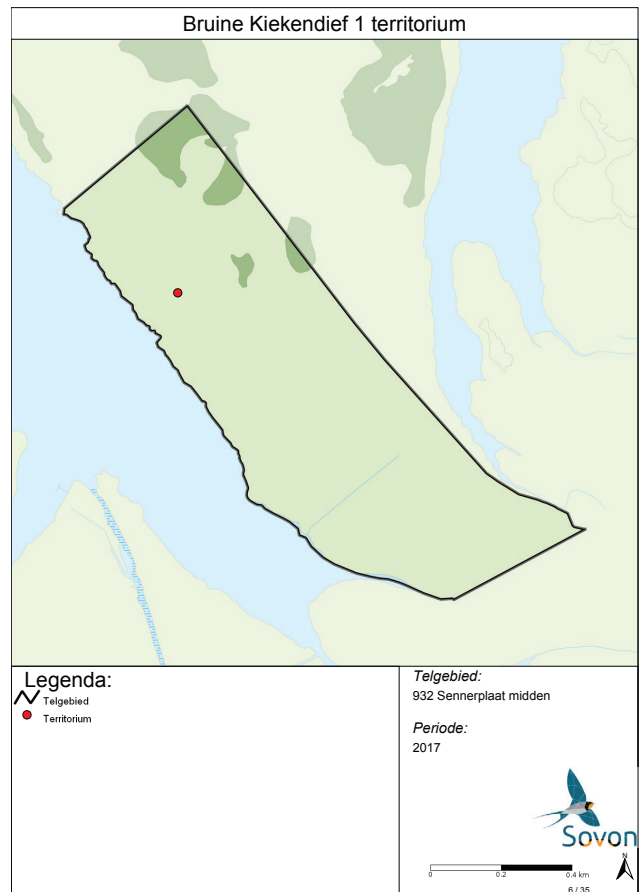
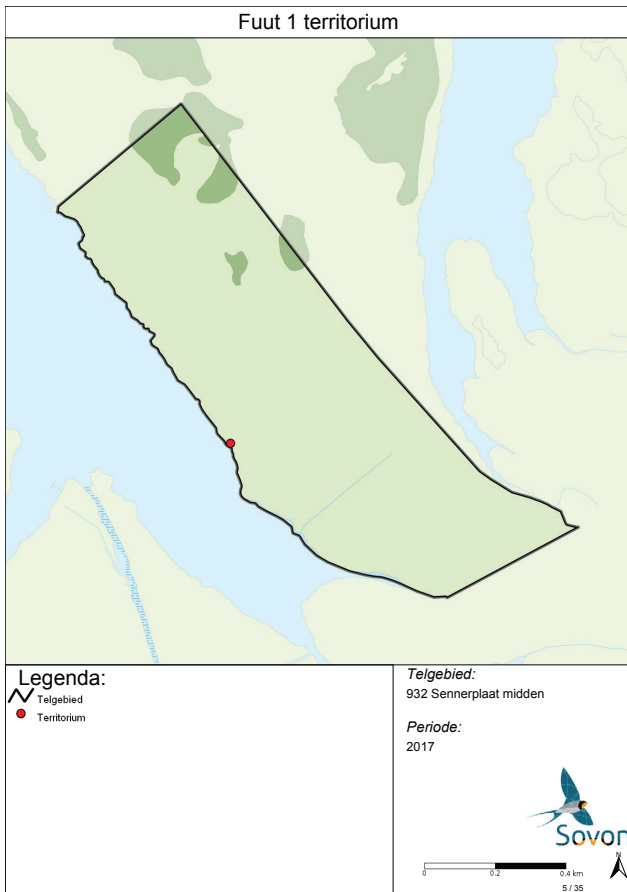


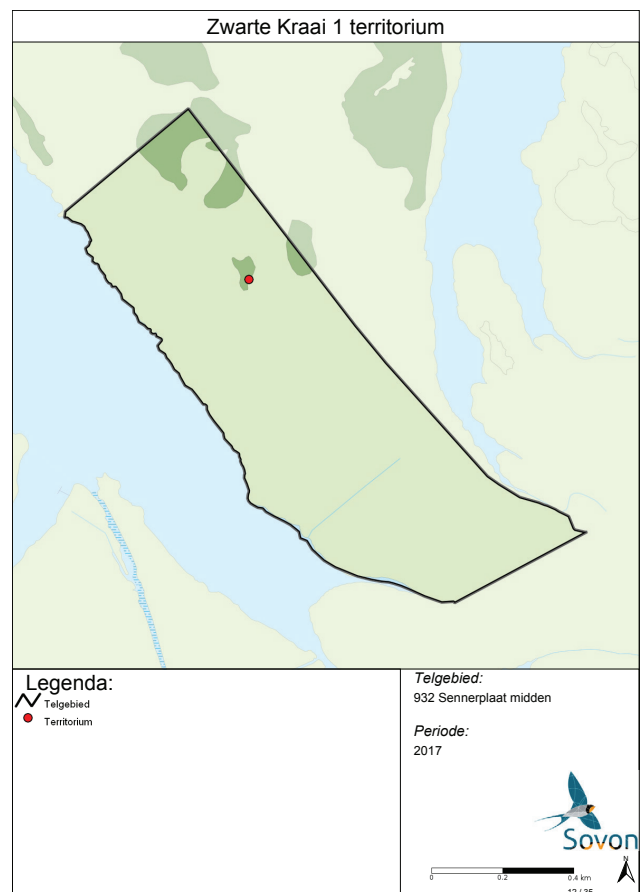
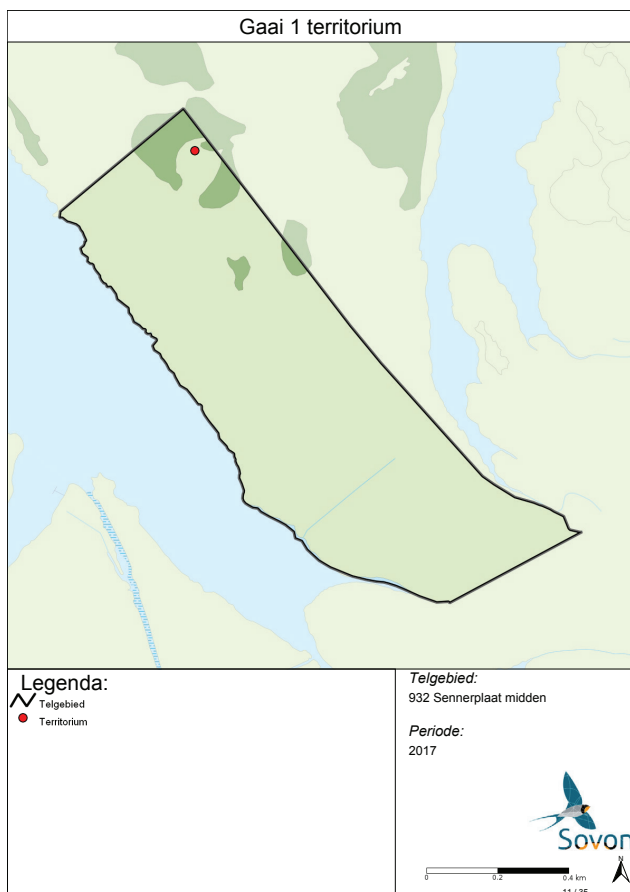
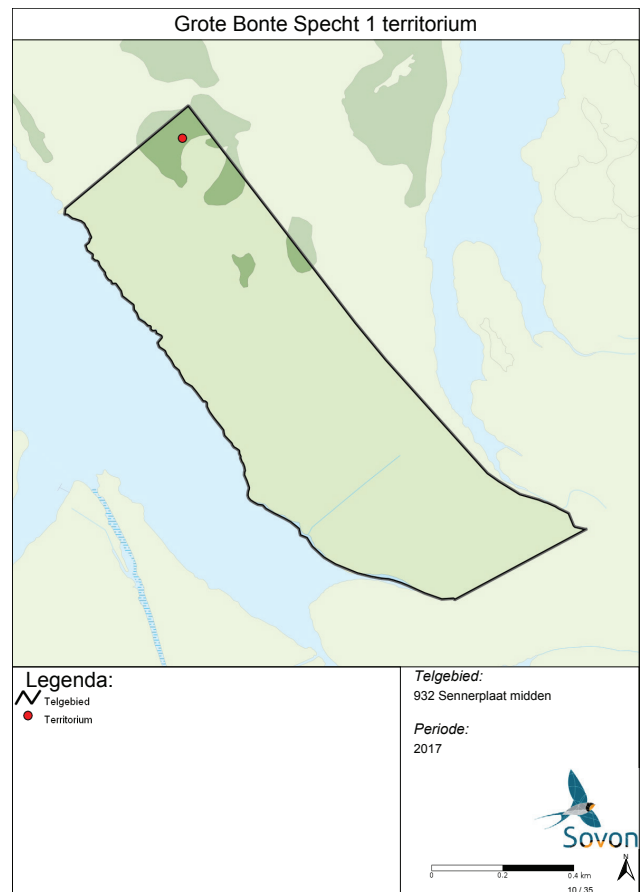
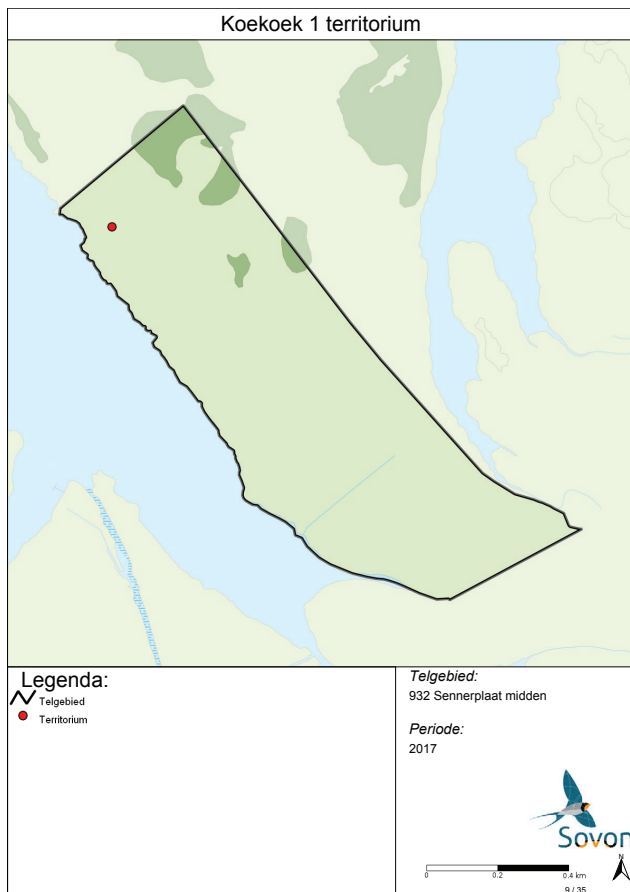


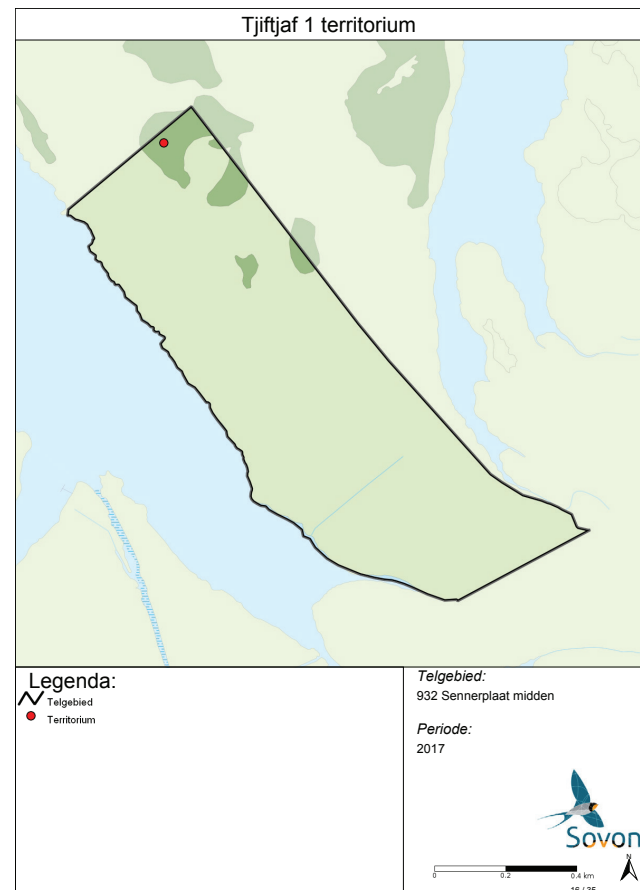
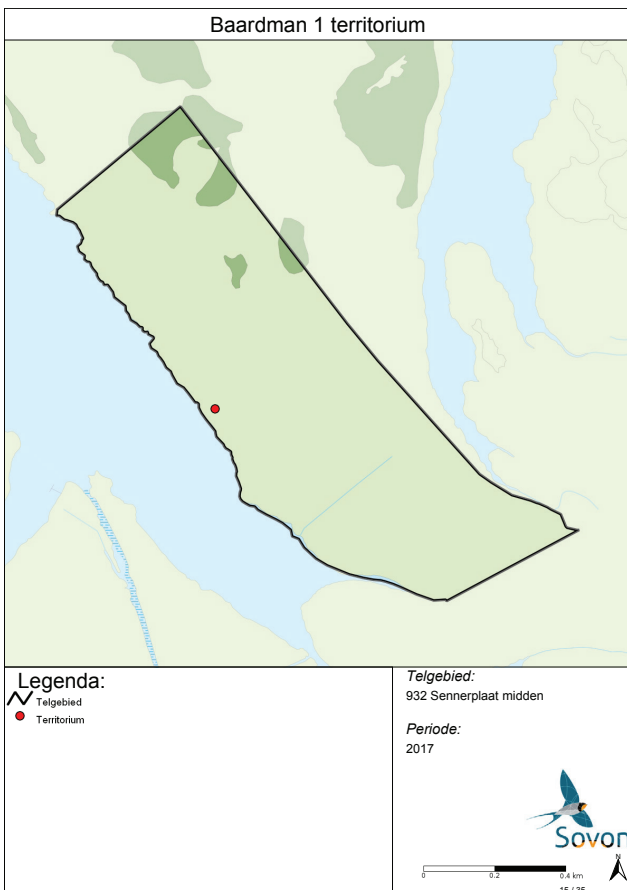
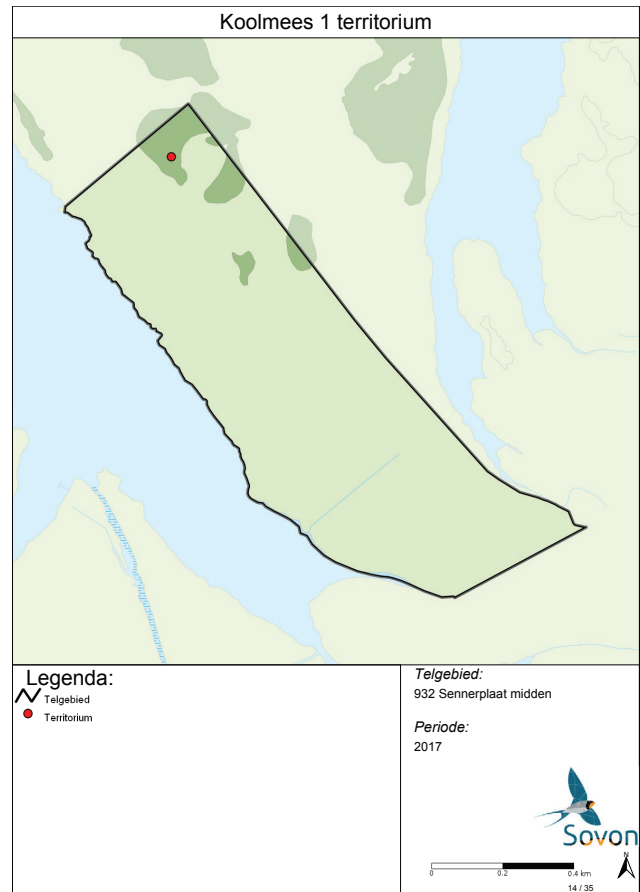
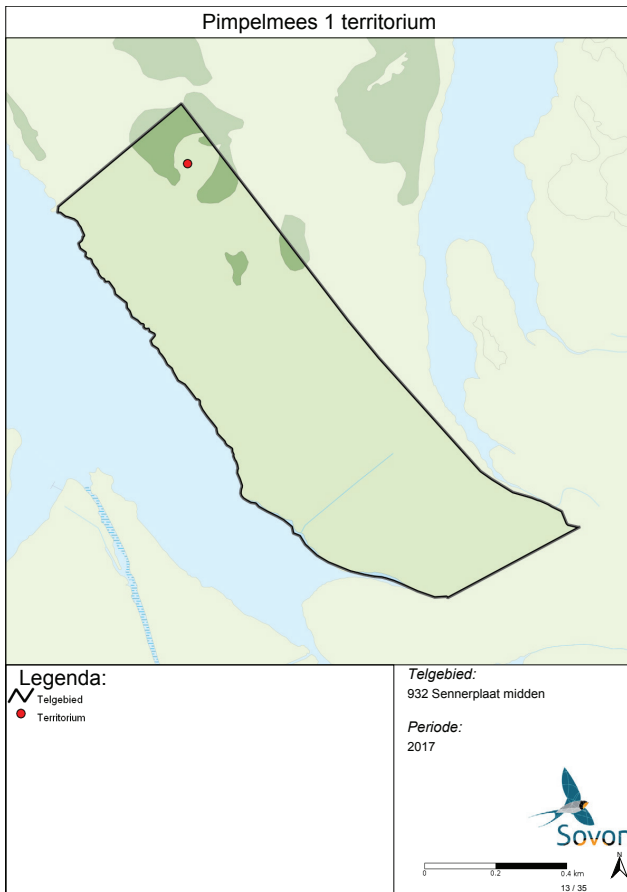


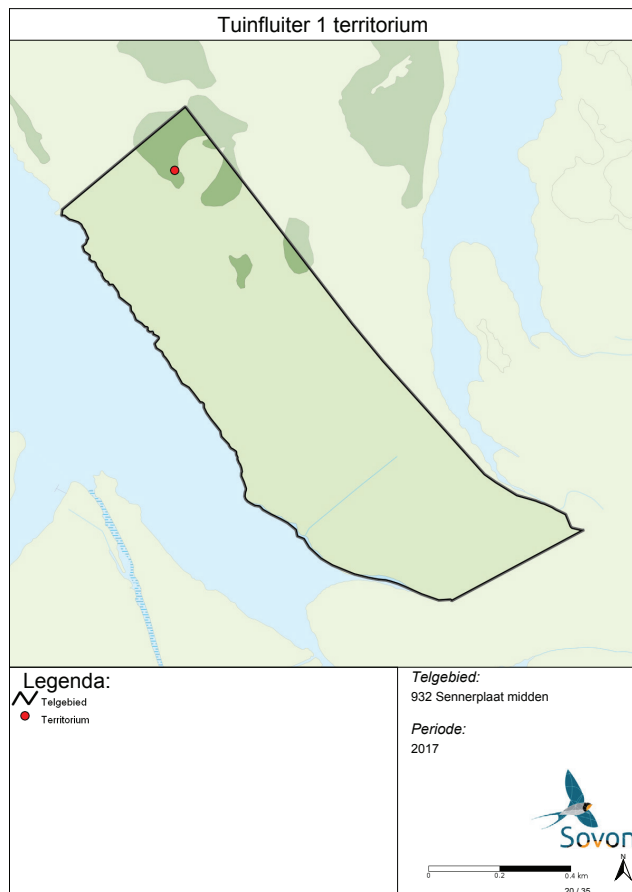
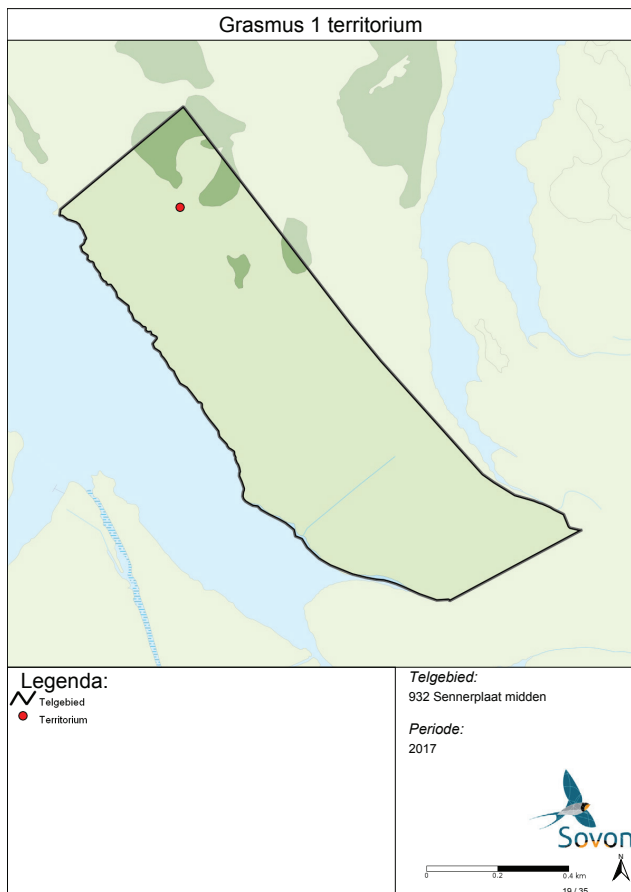
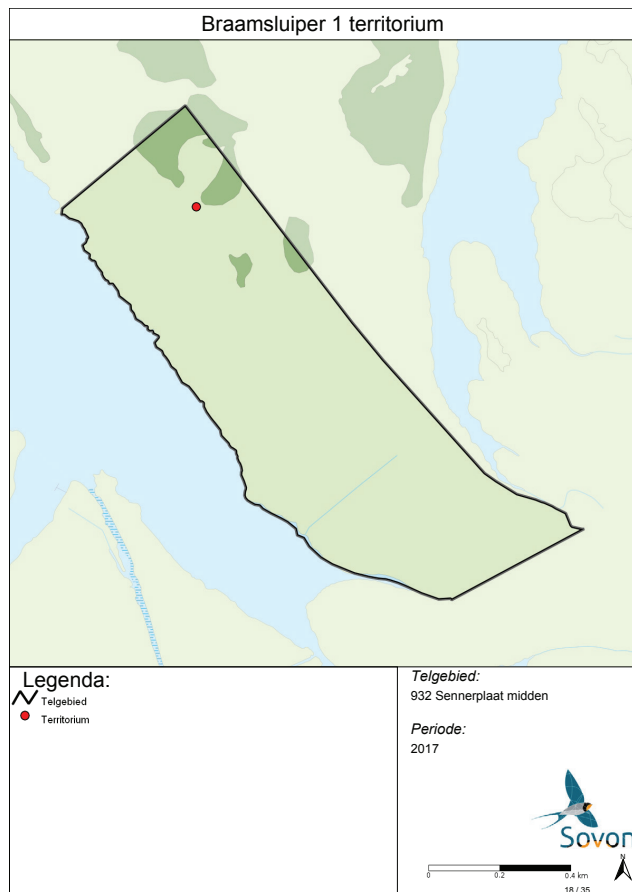
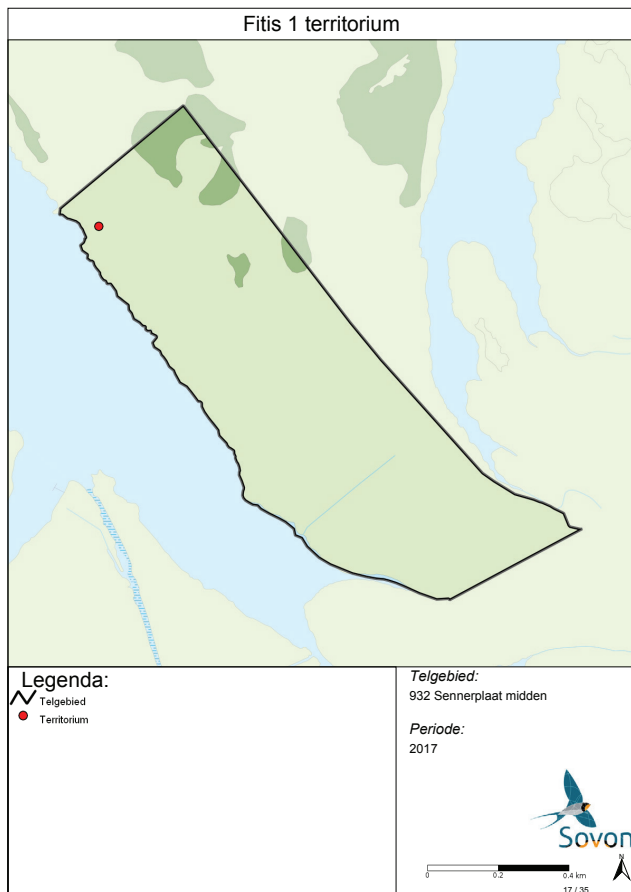
Bijlage 19b. Sennerplaat midden 2017

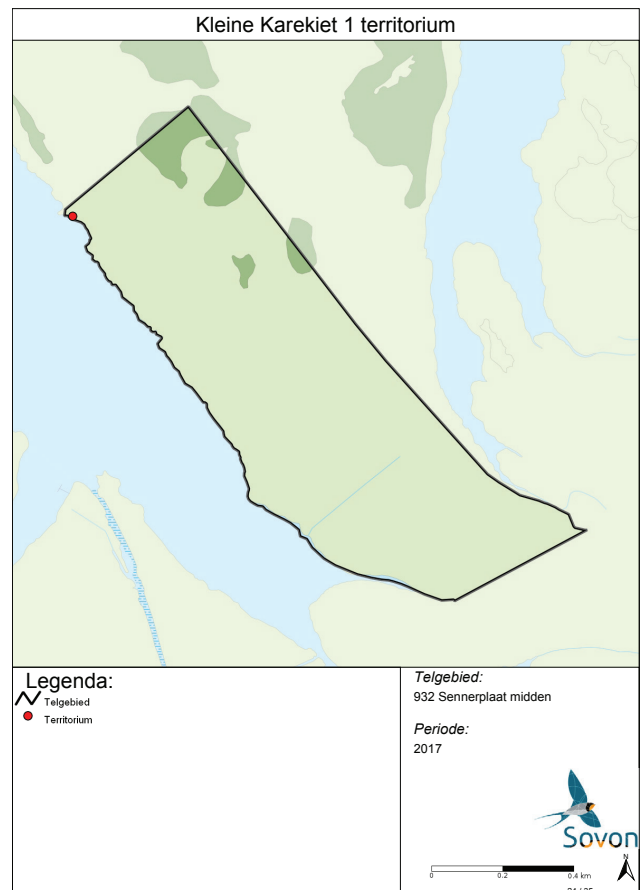
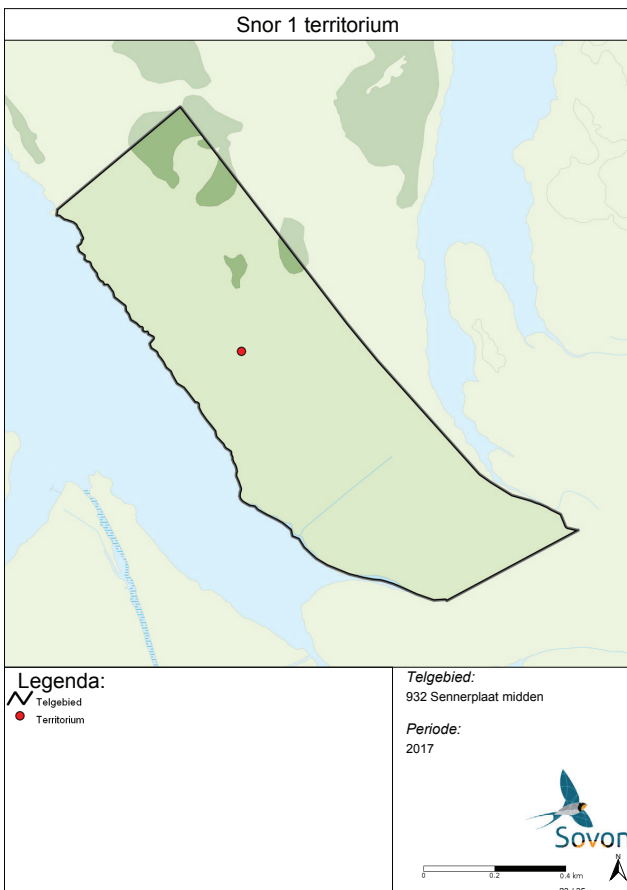
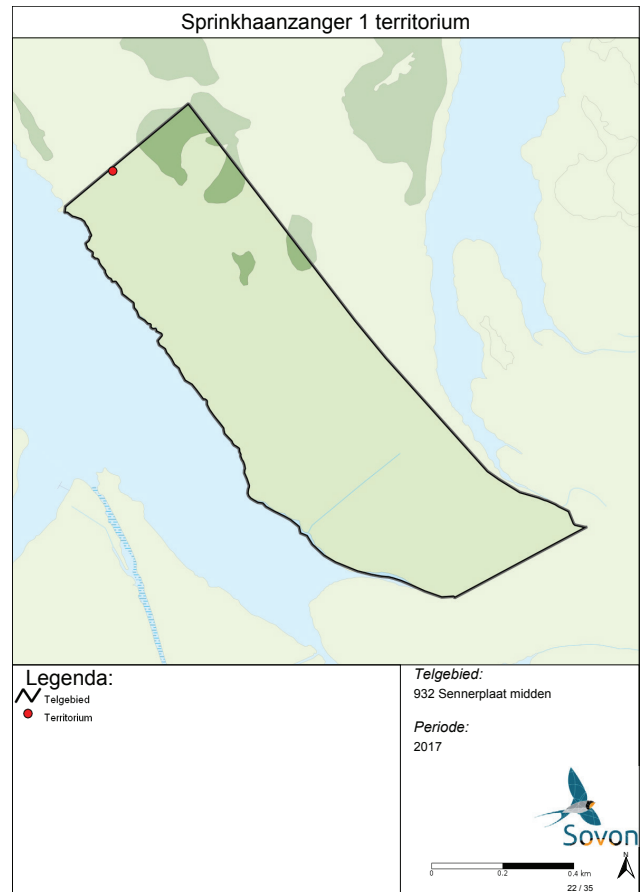
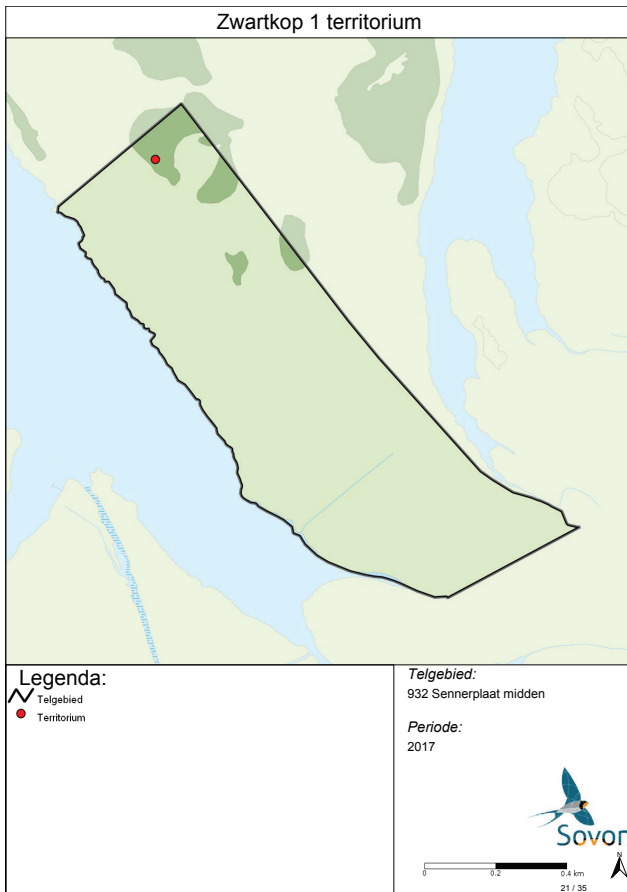


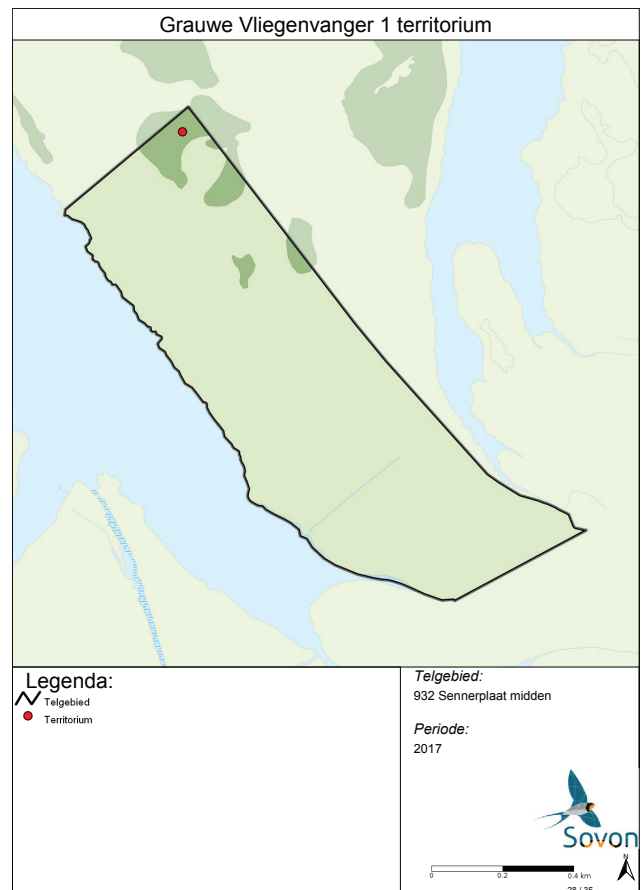
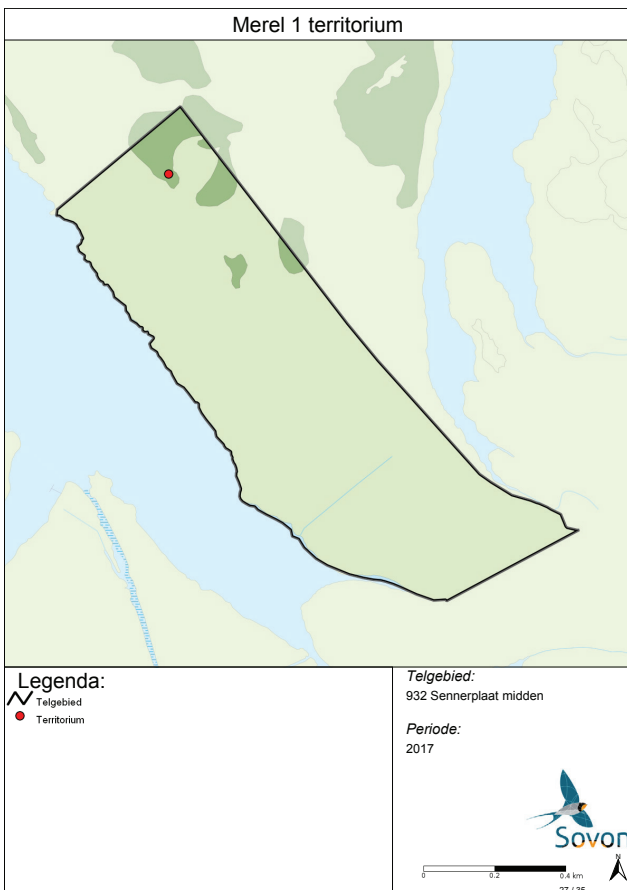
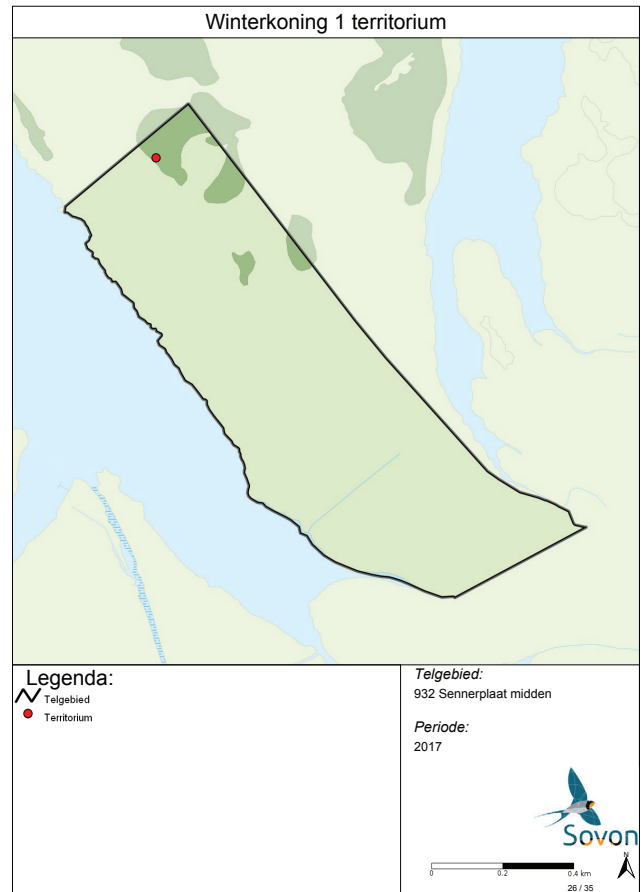
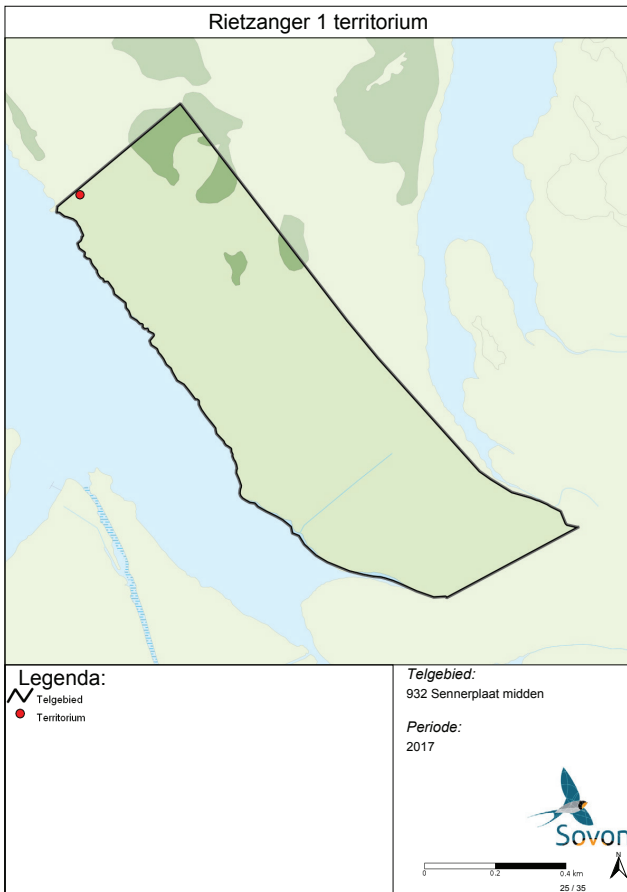


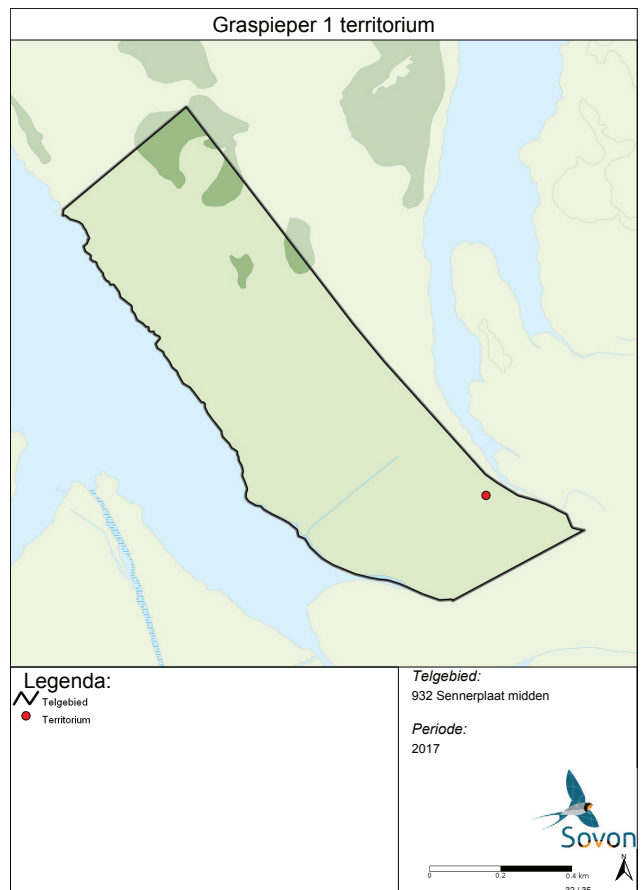
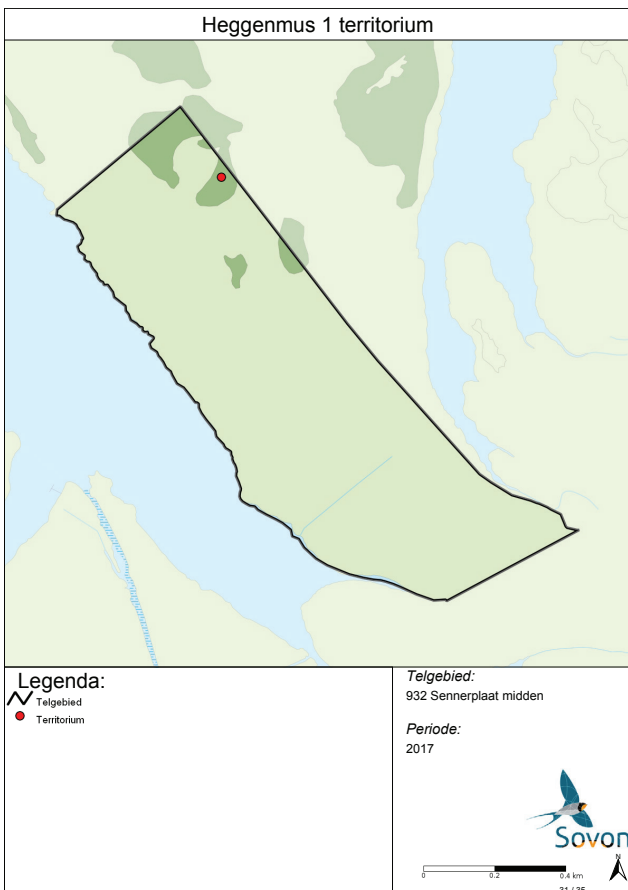
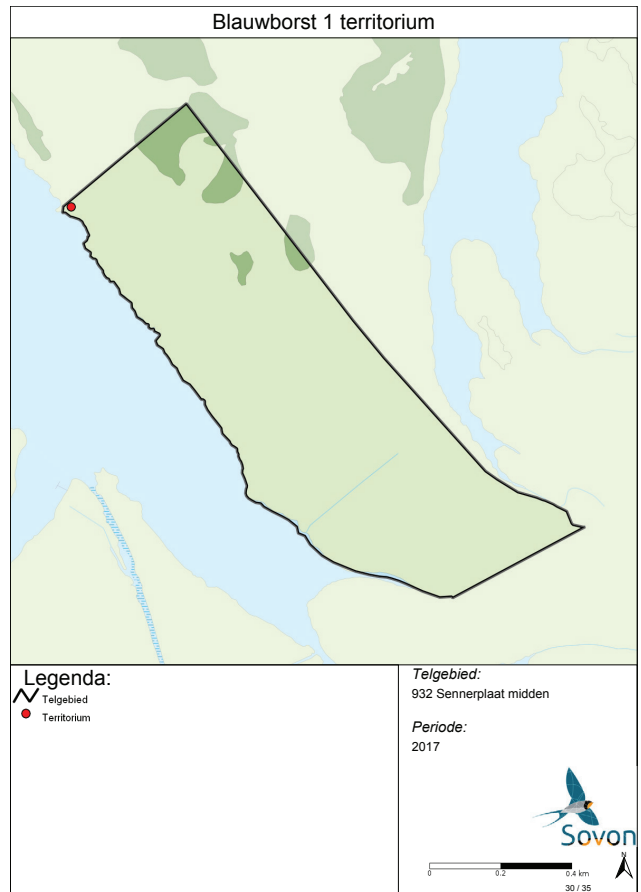
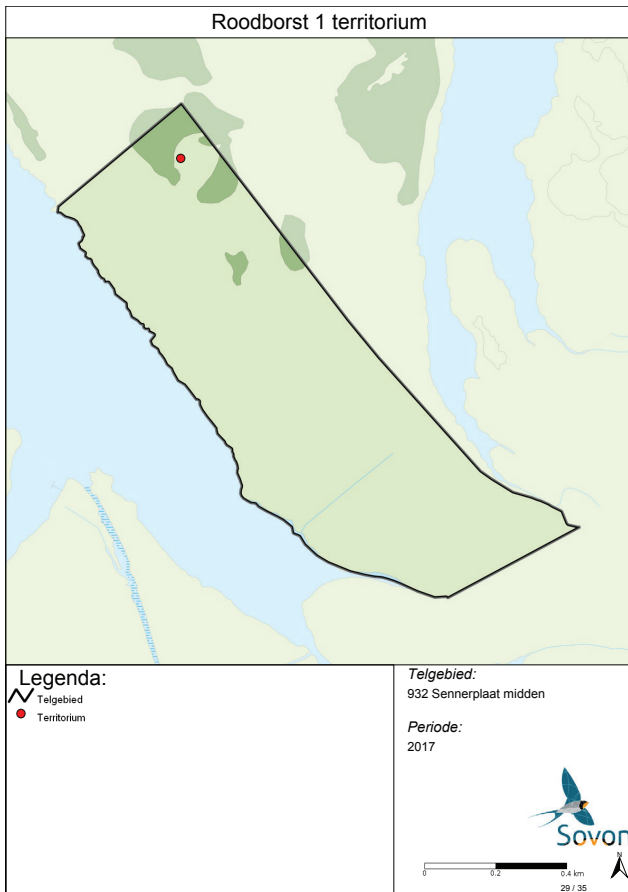


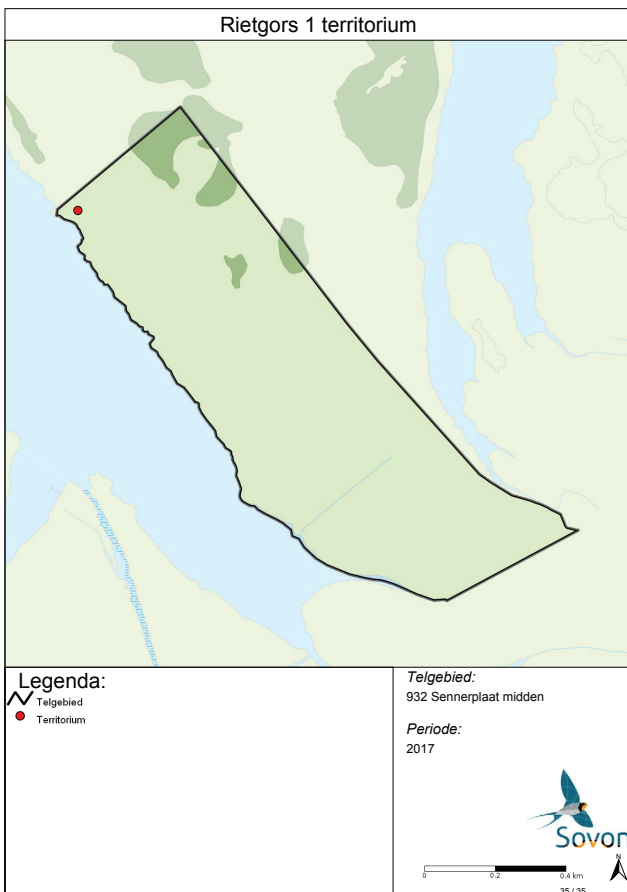
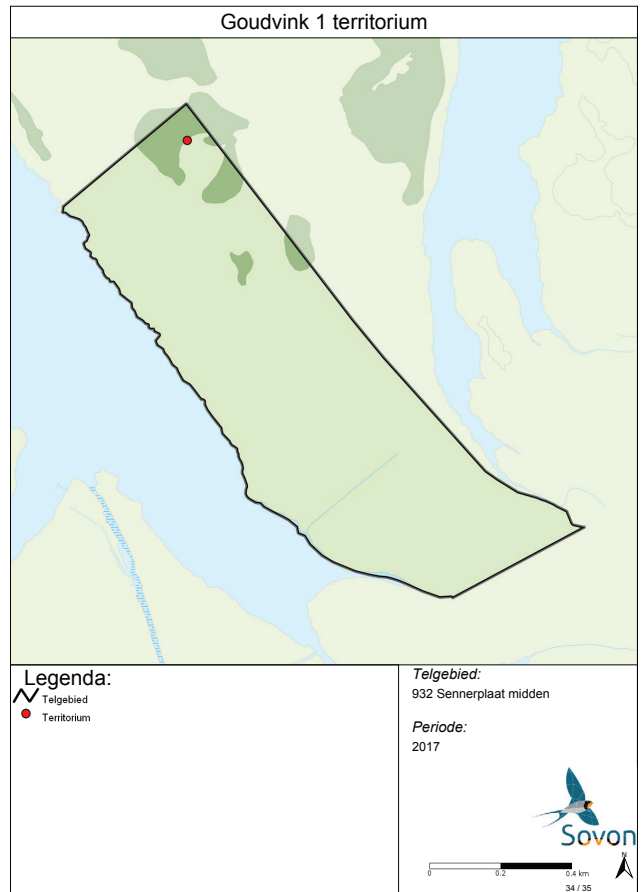
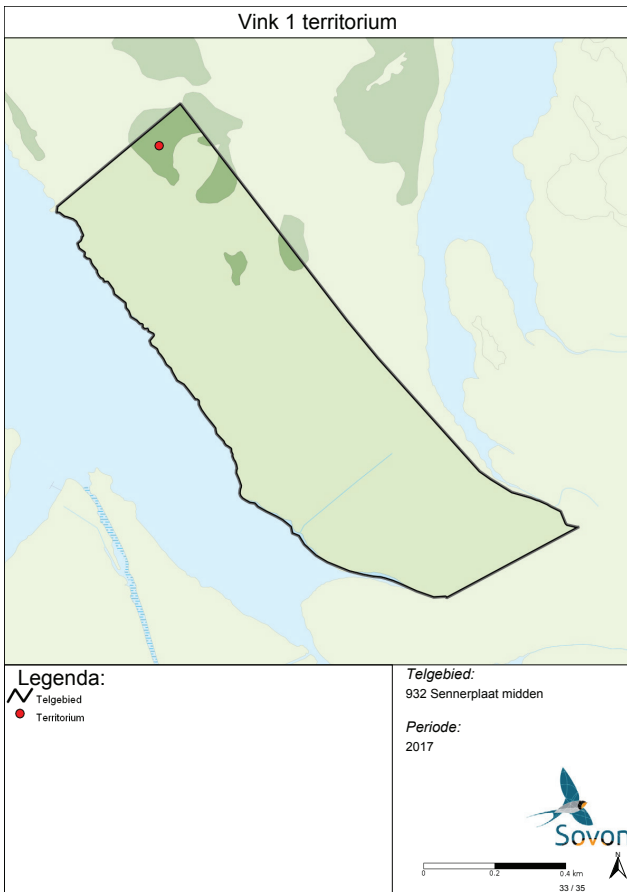




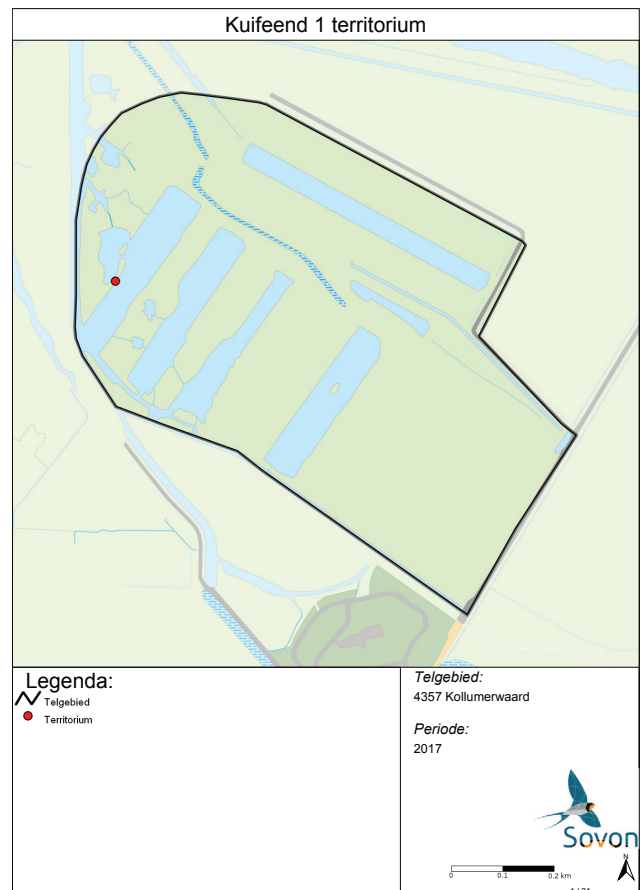
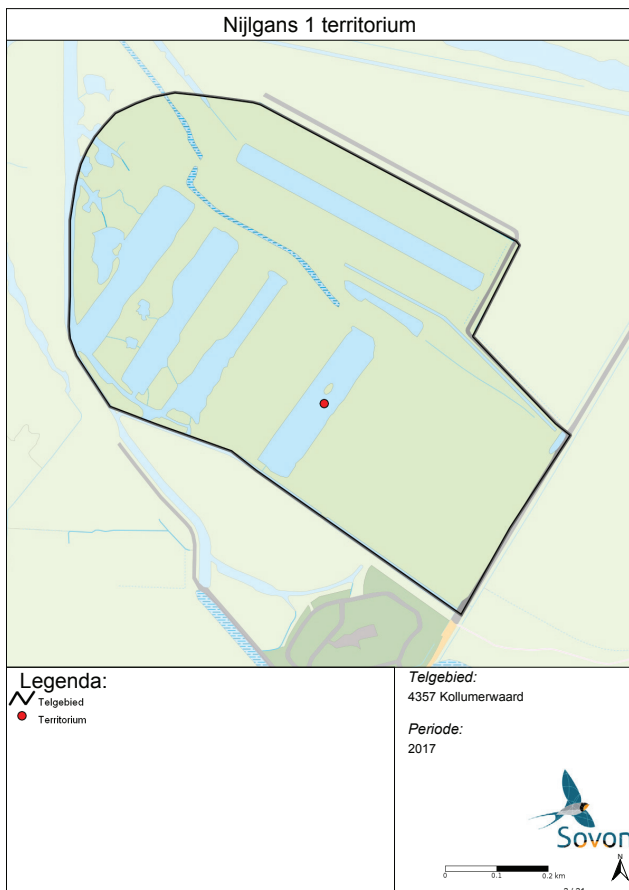
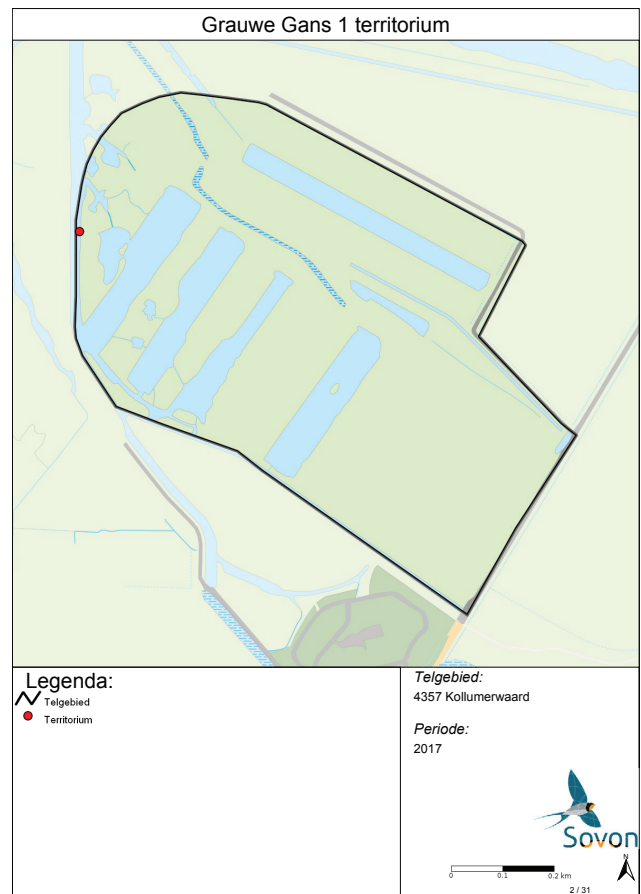
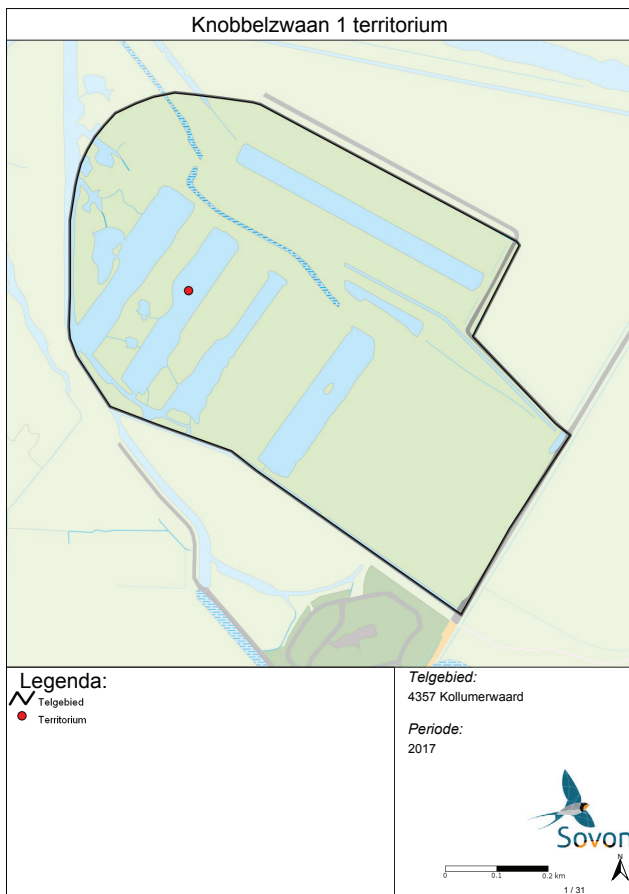


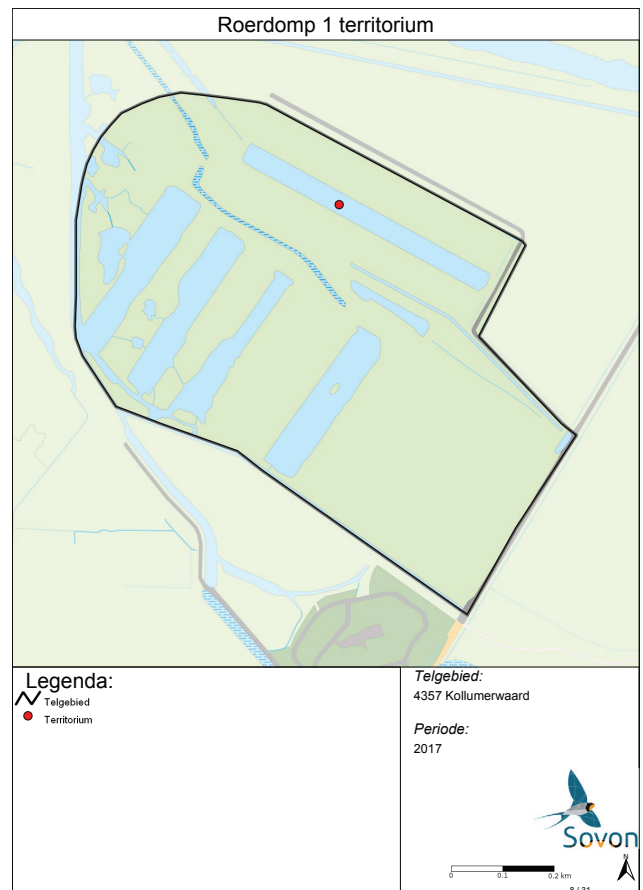
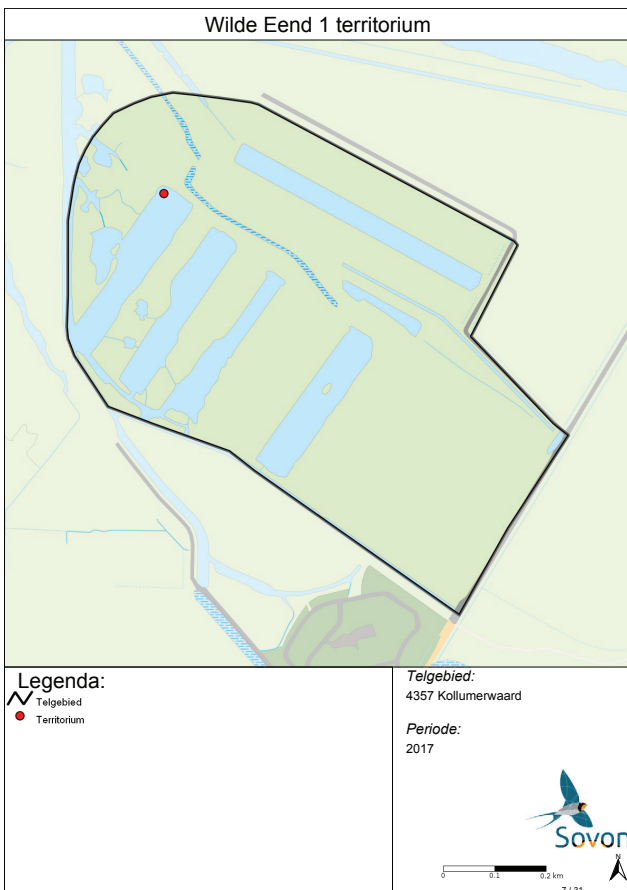
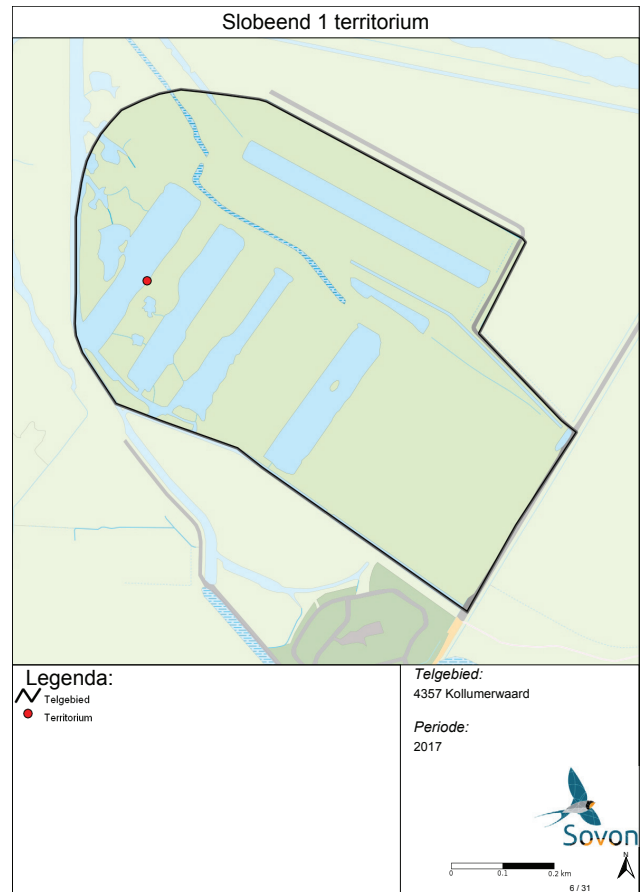
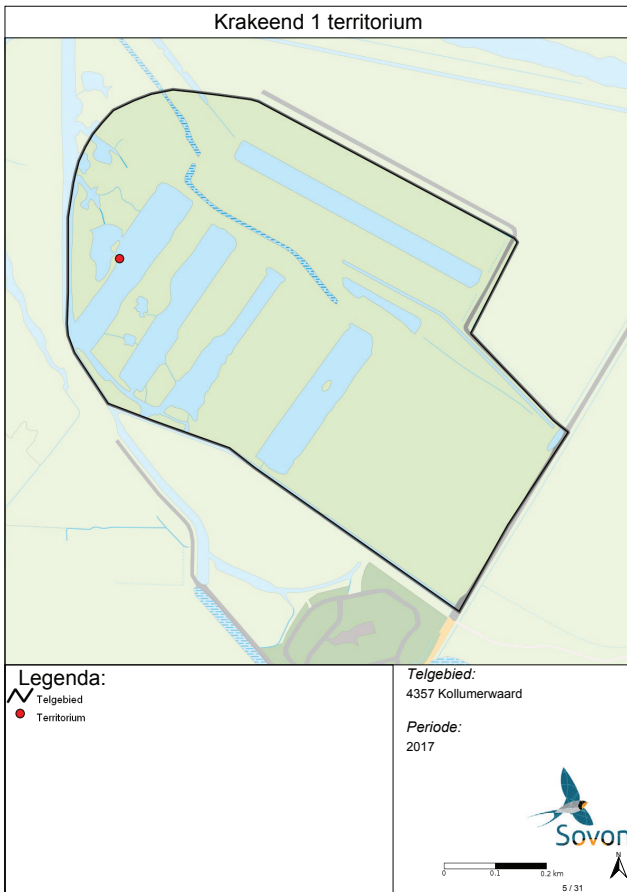


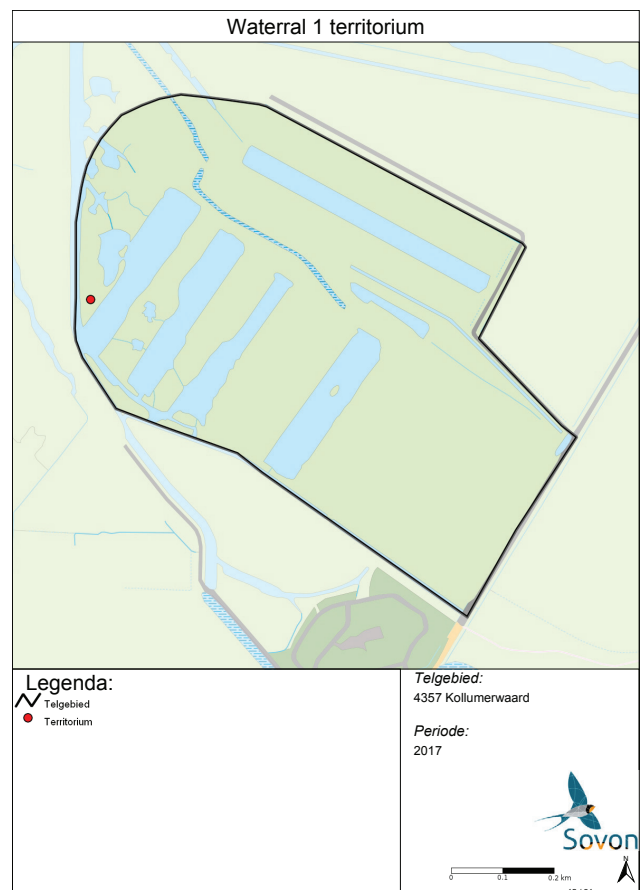
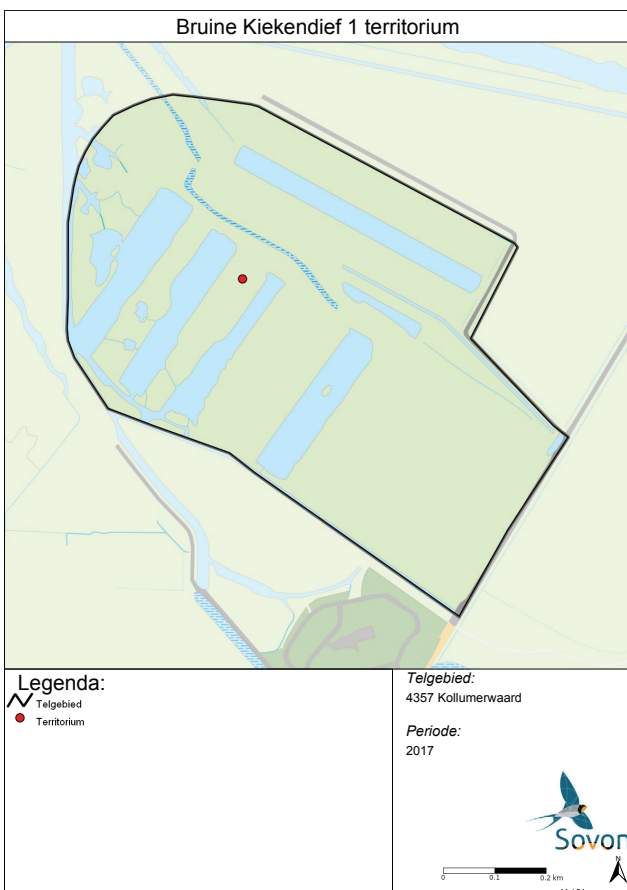
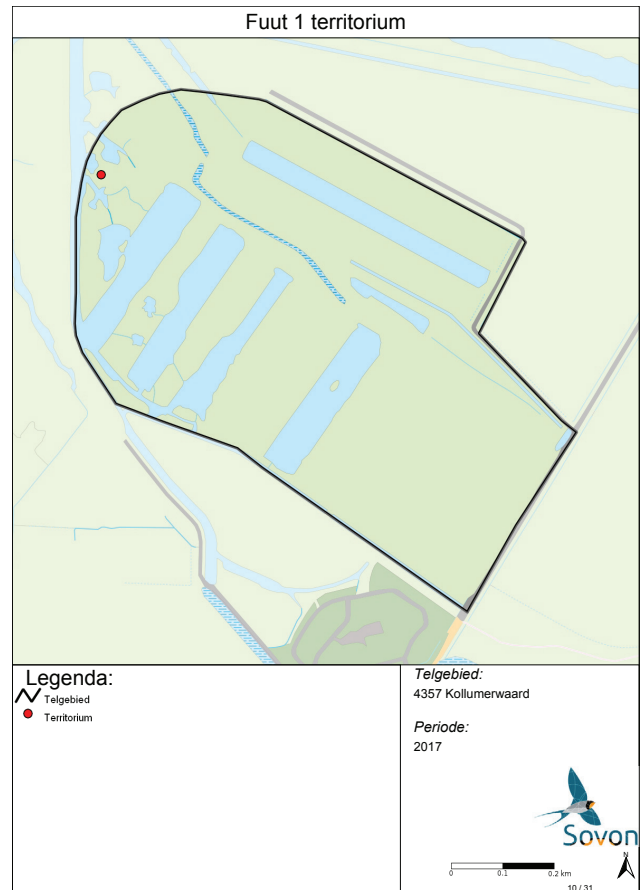
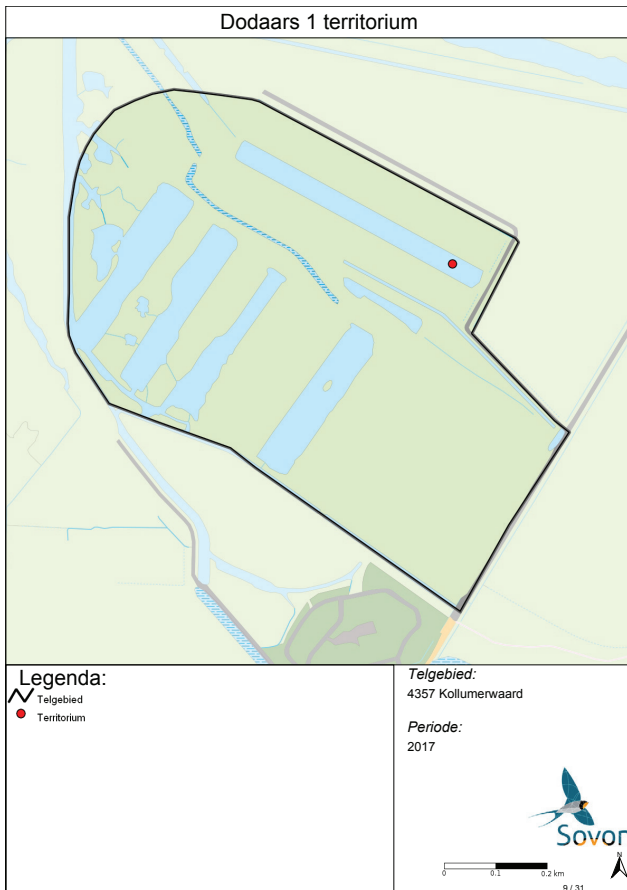


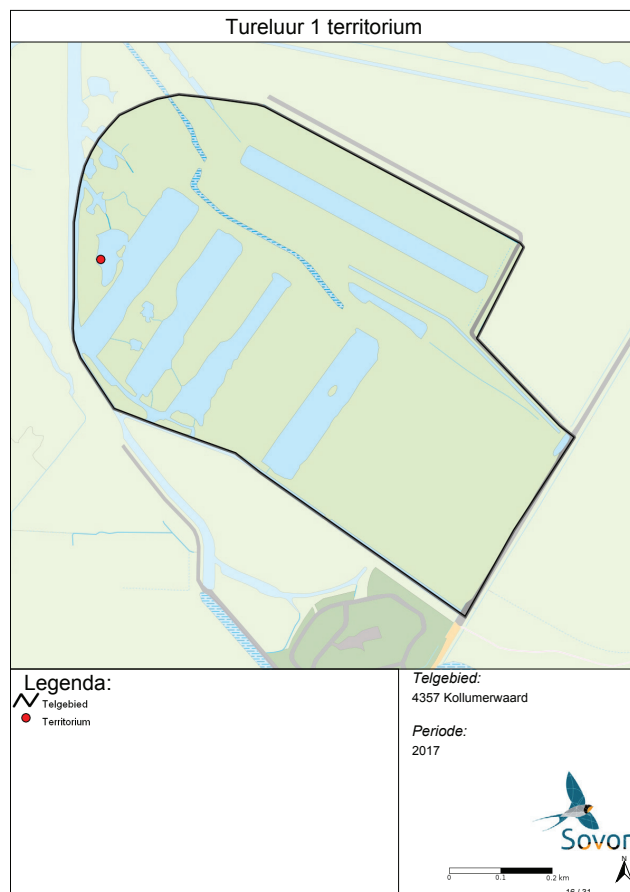
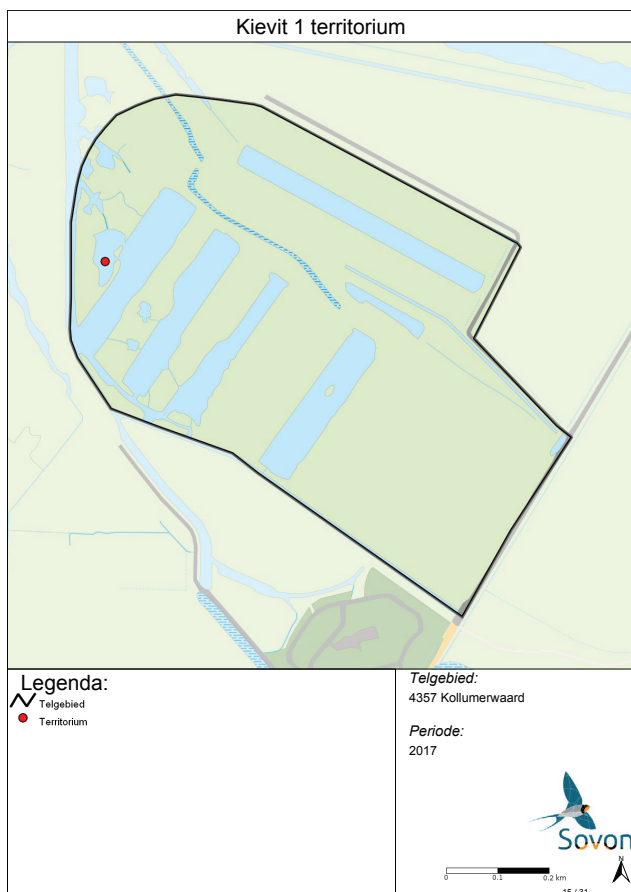
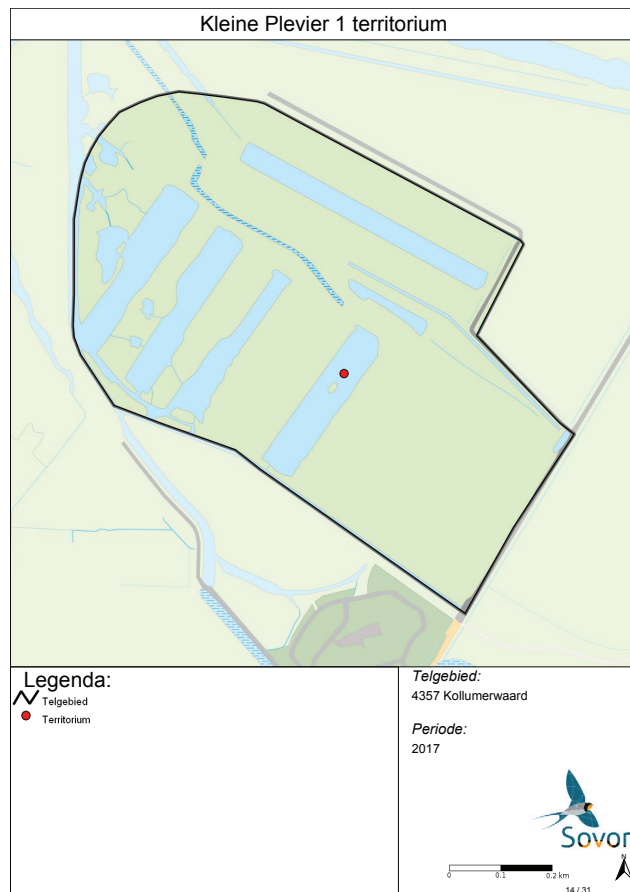
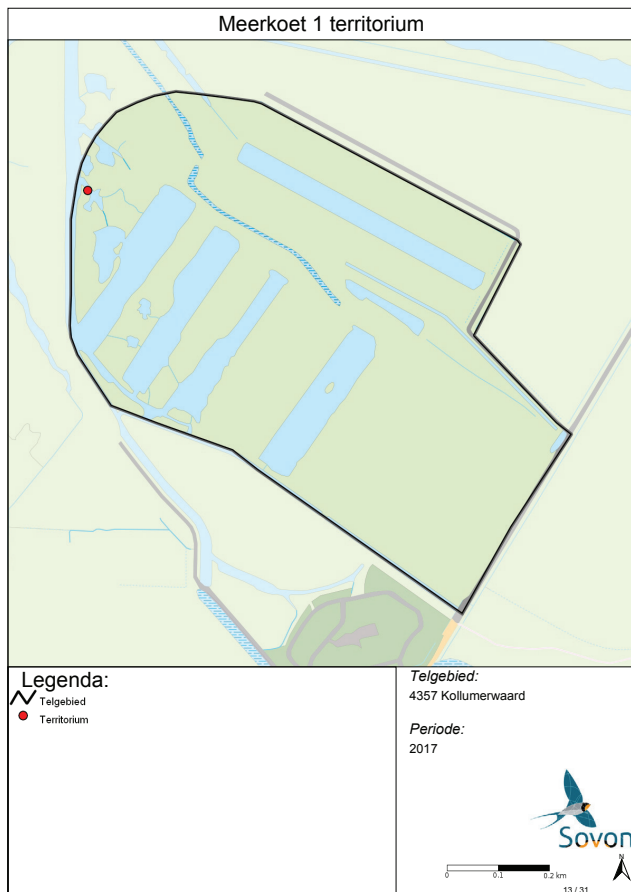


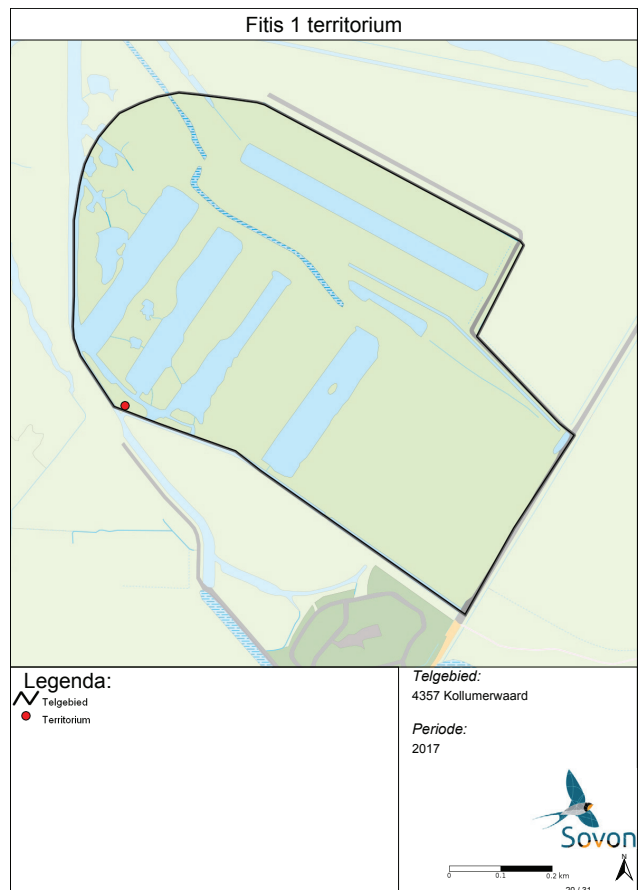
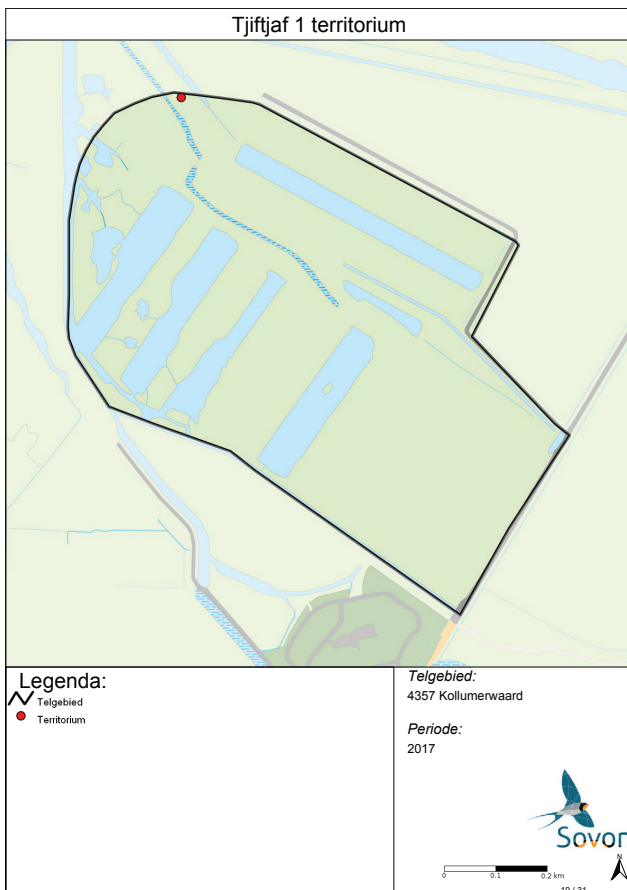
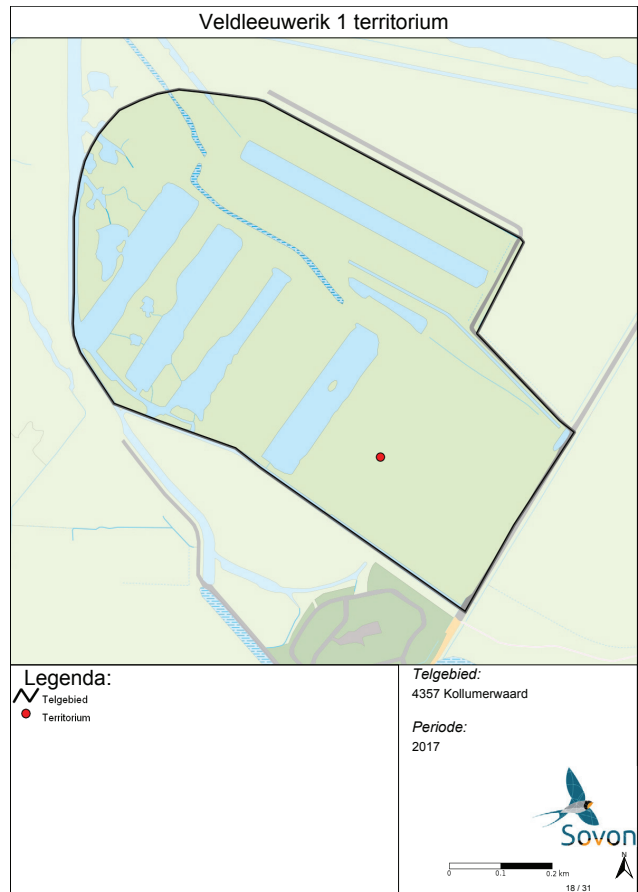
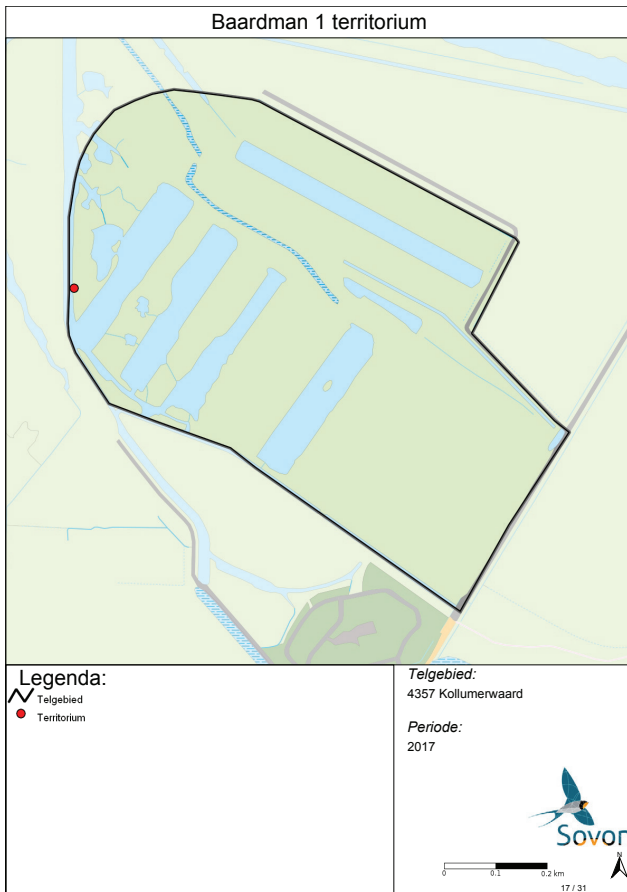
Bijlage 19c. Kollumerwaard BMP 2017

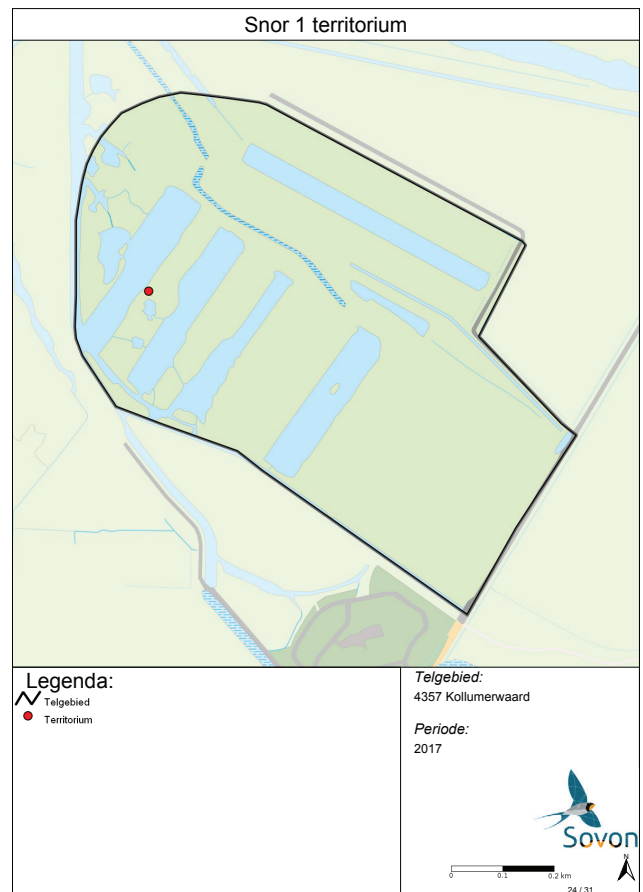
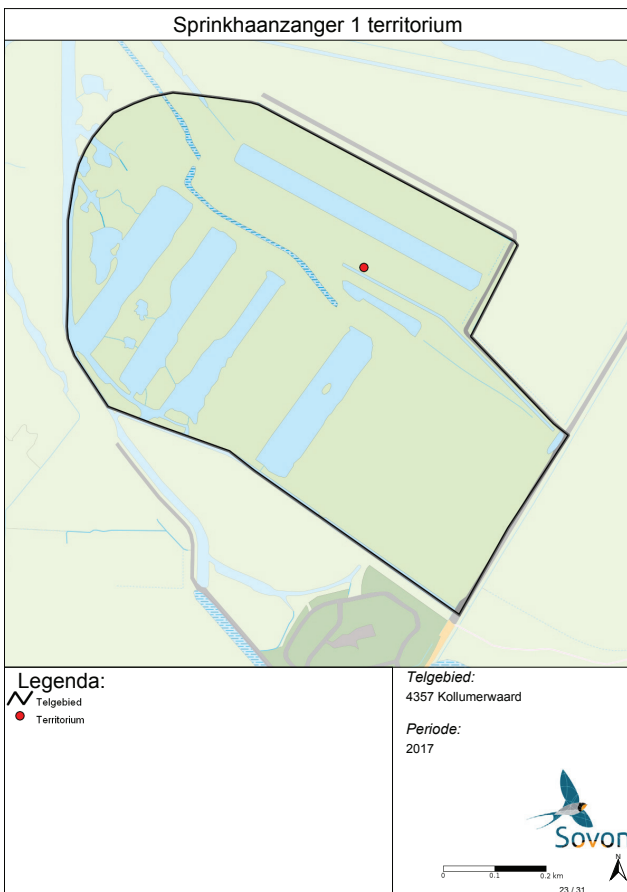
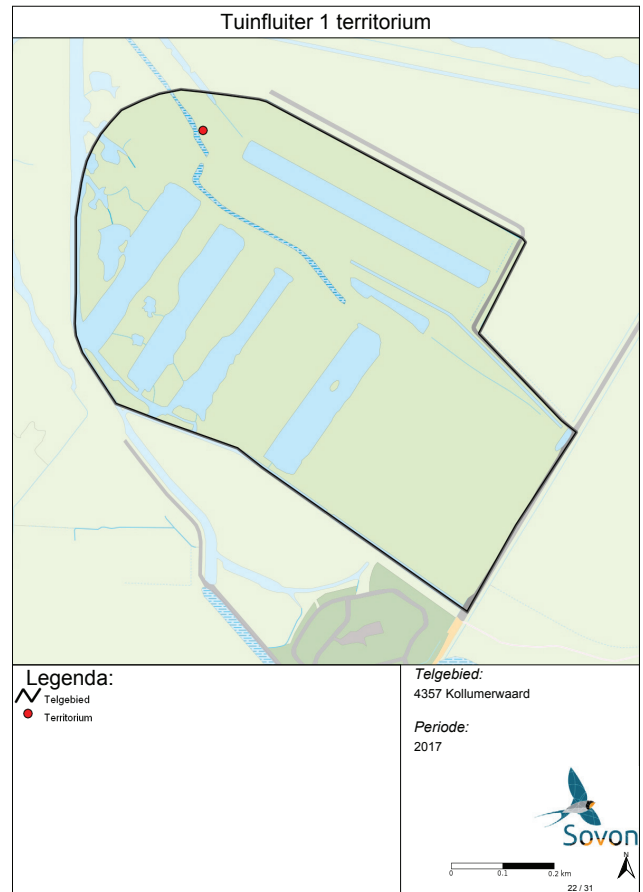
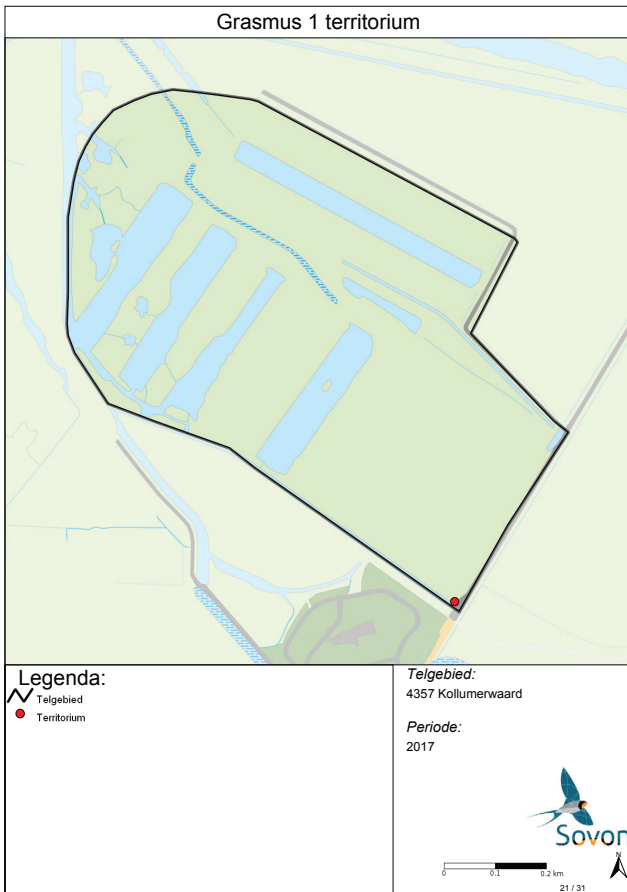


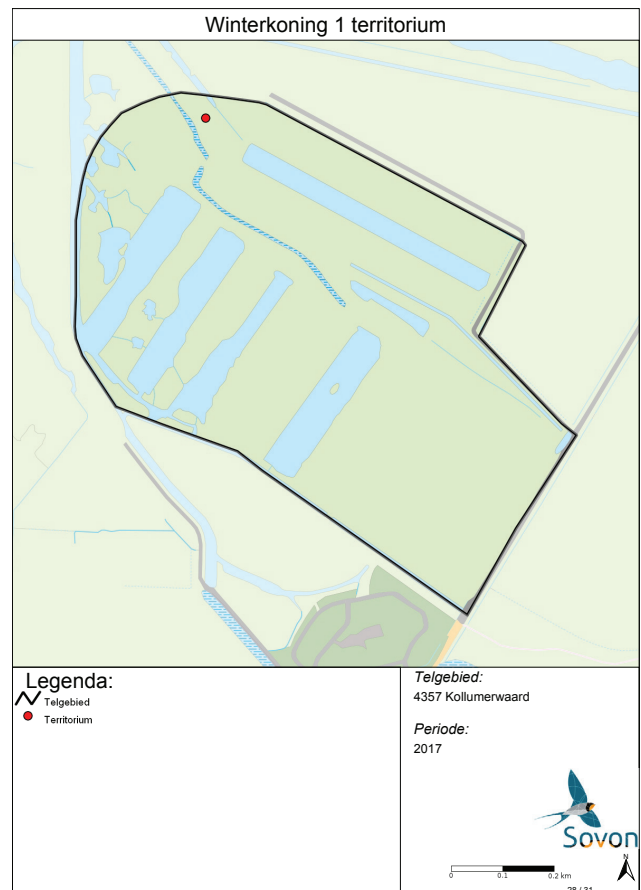
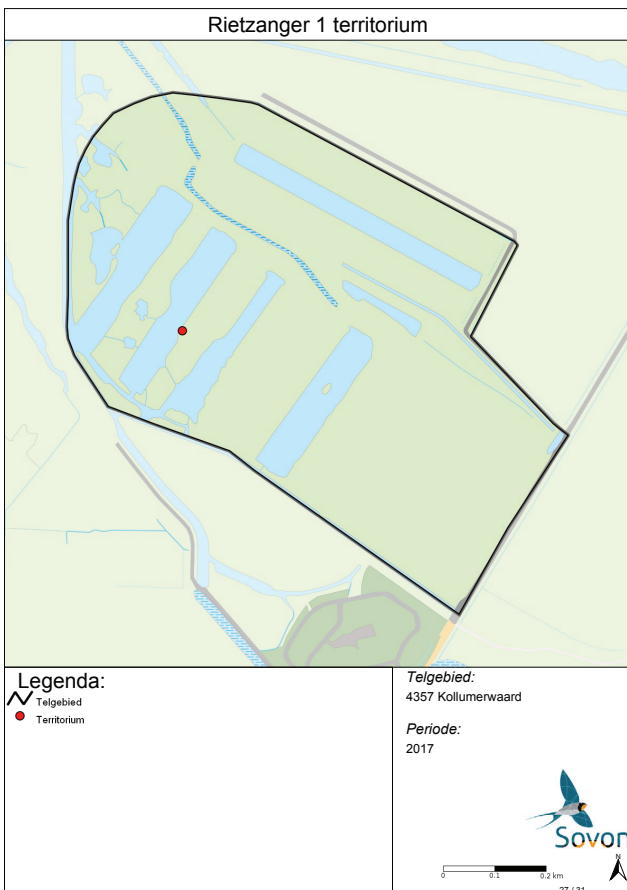
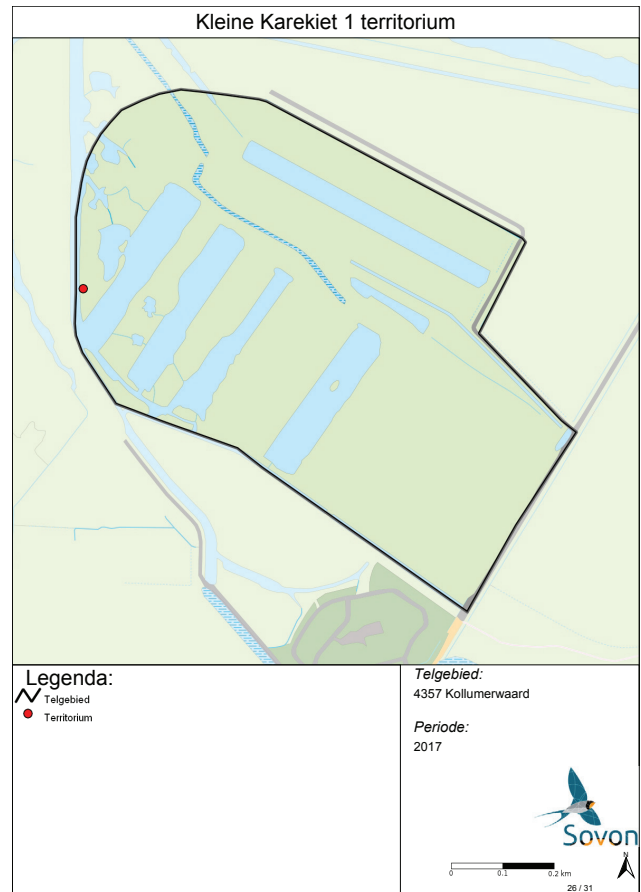
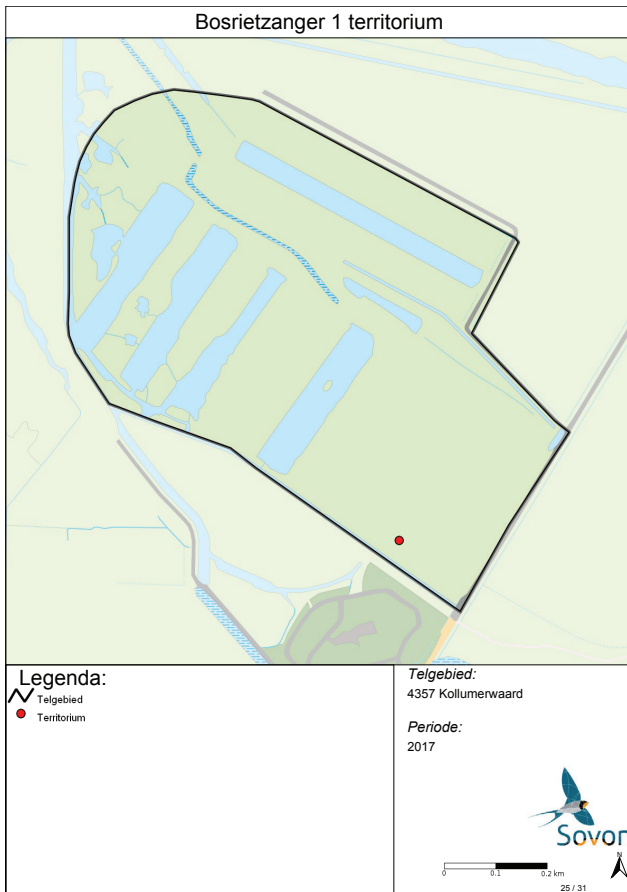


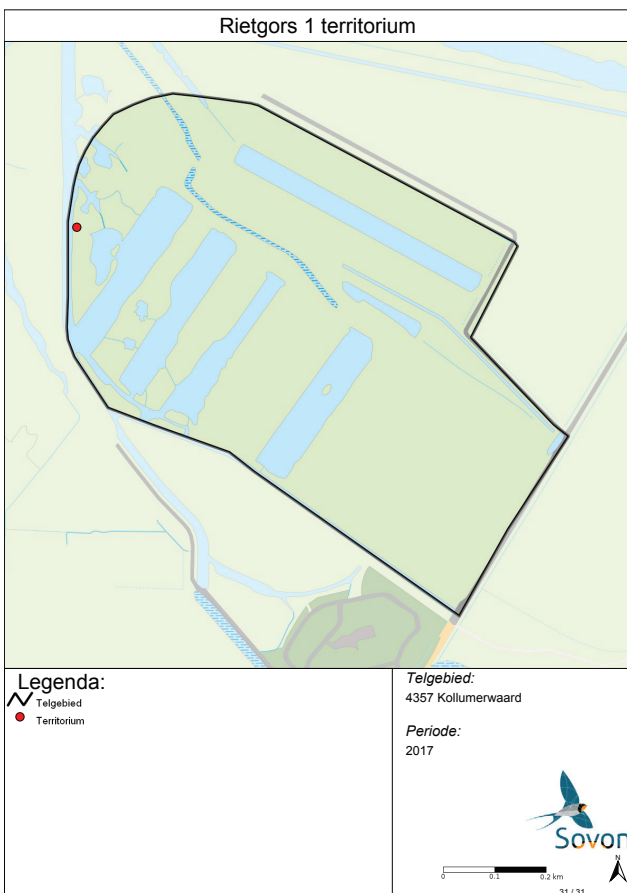
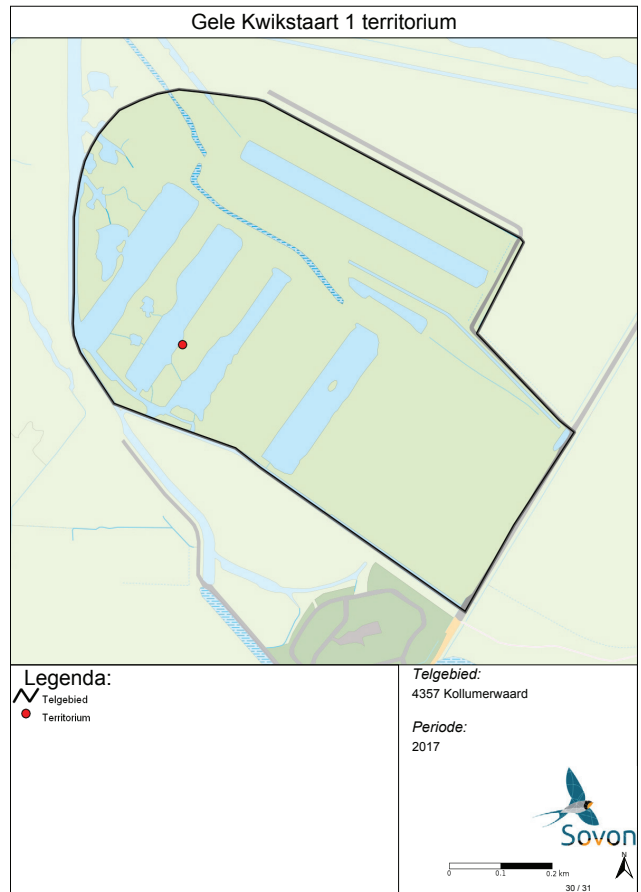




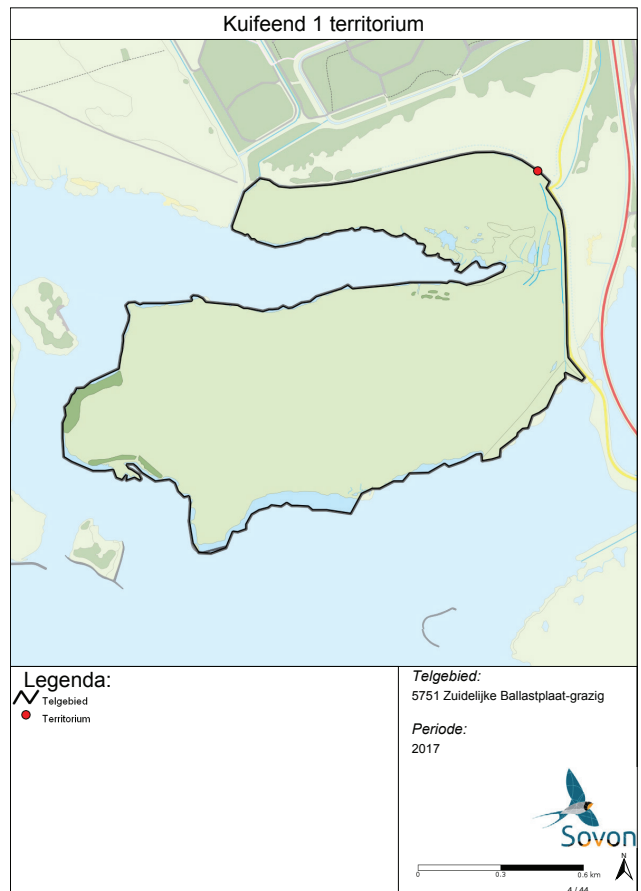
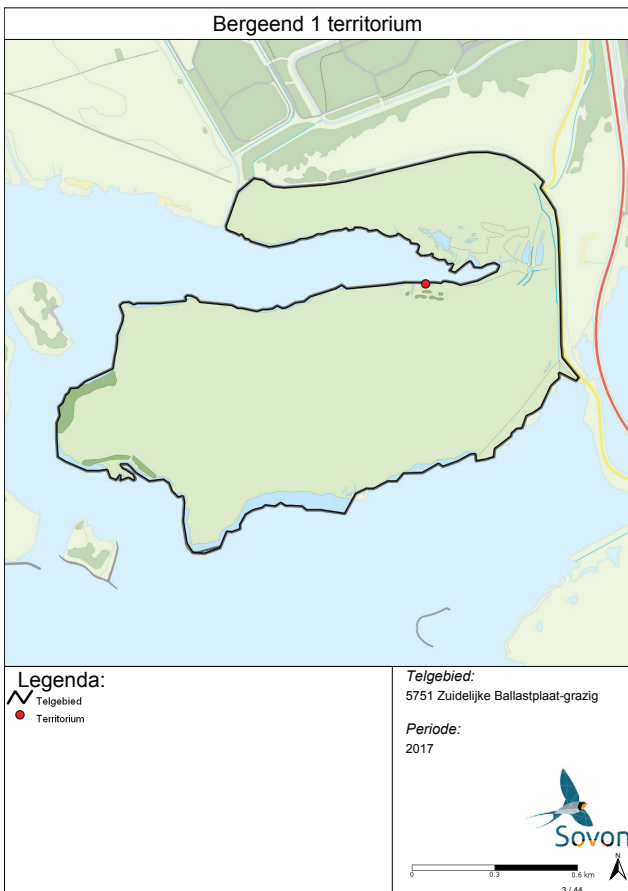
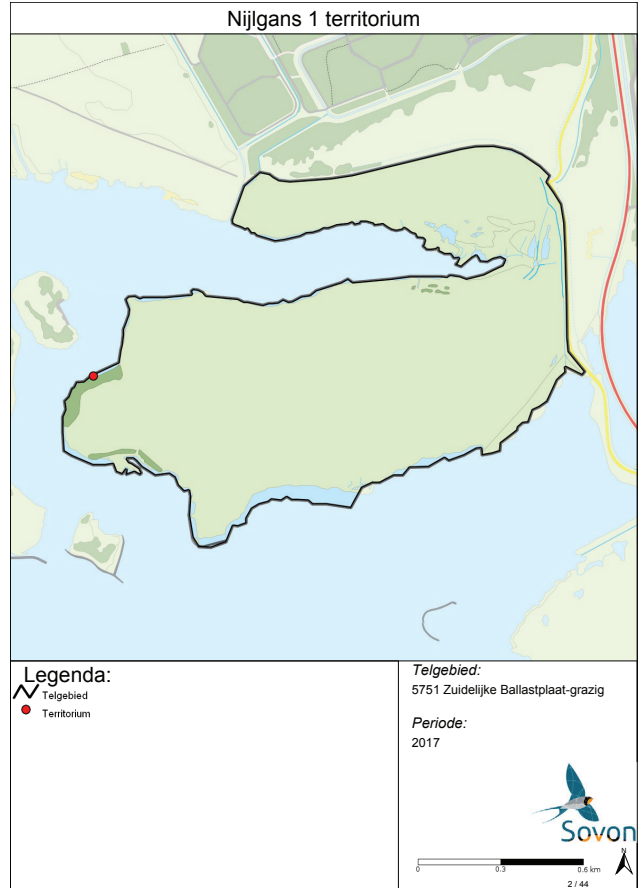


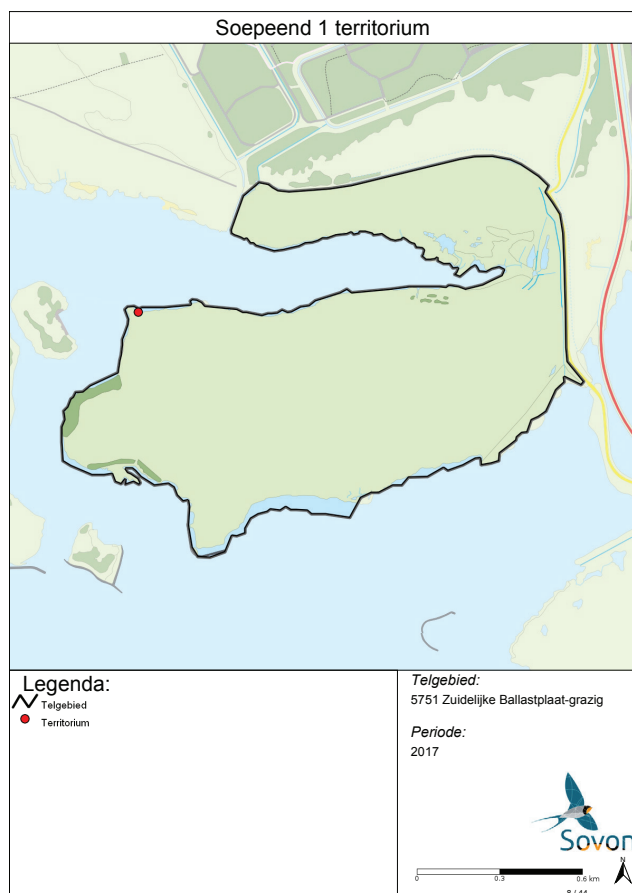
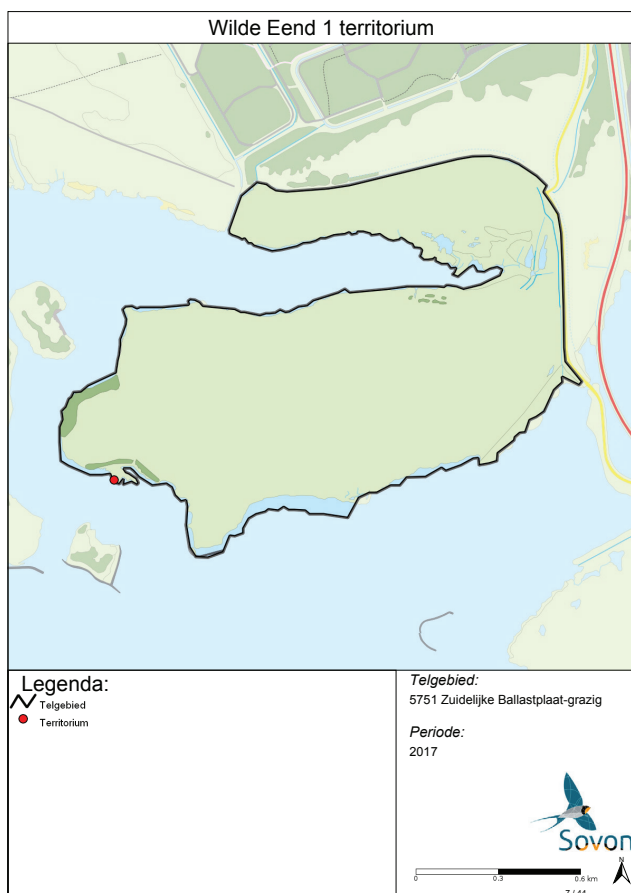
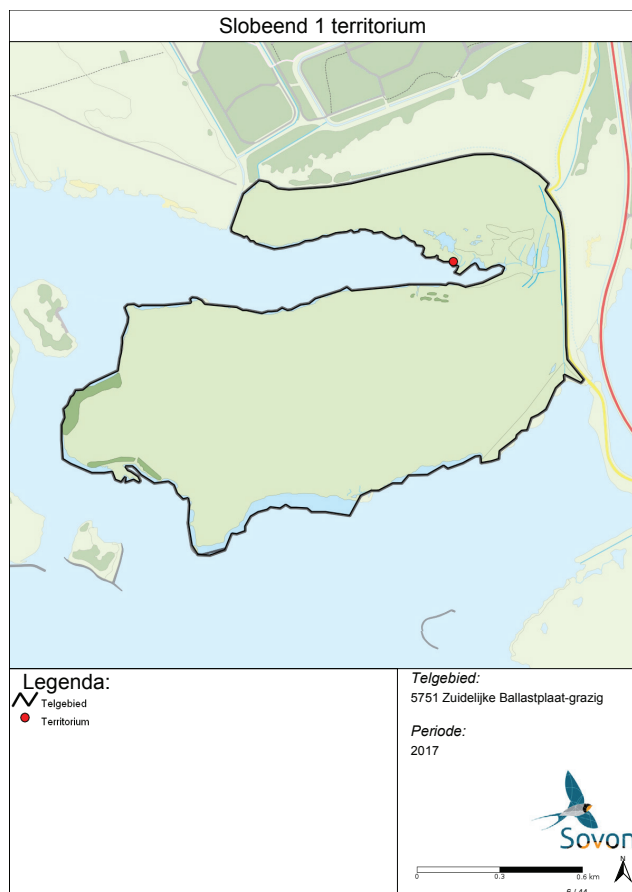
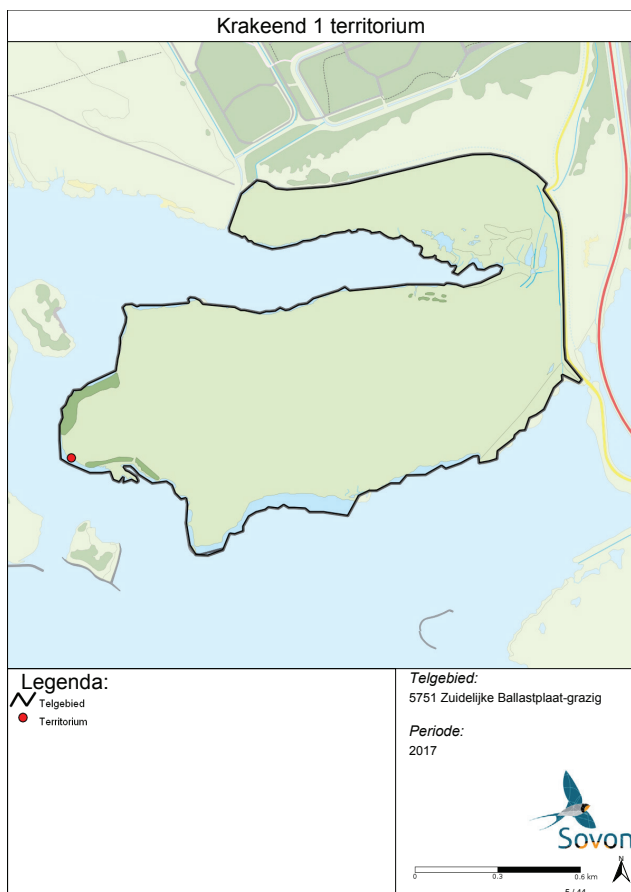


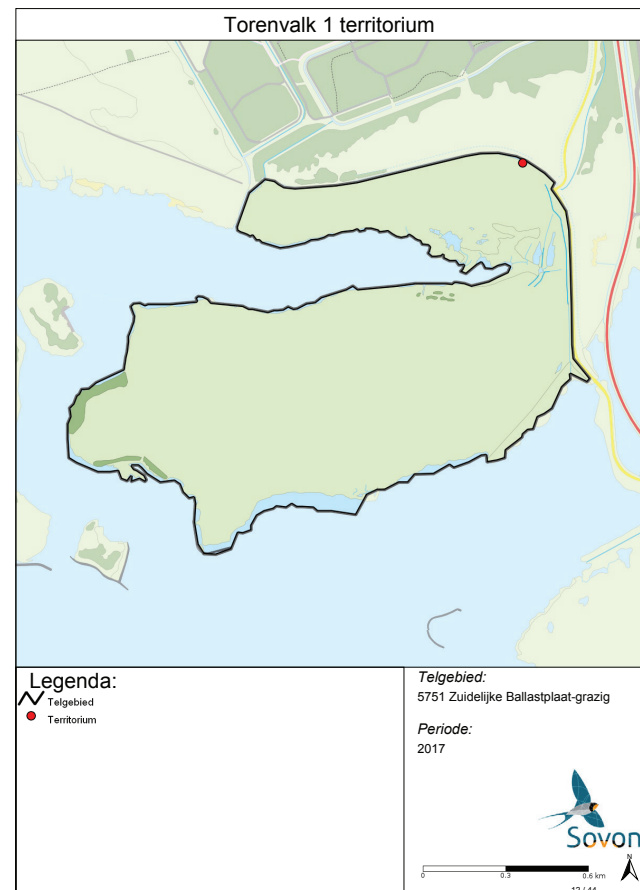
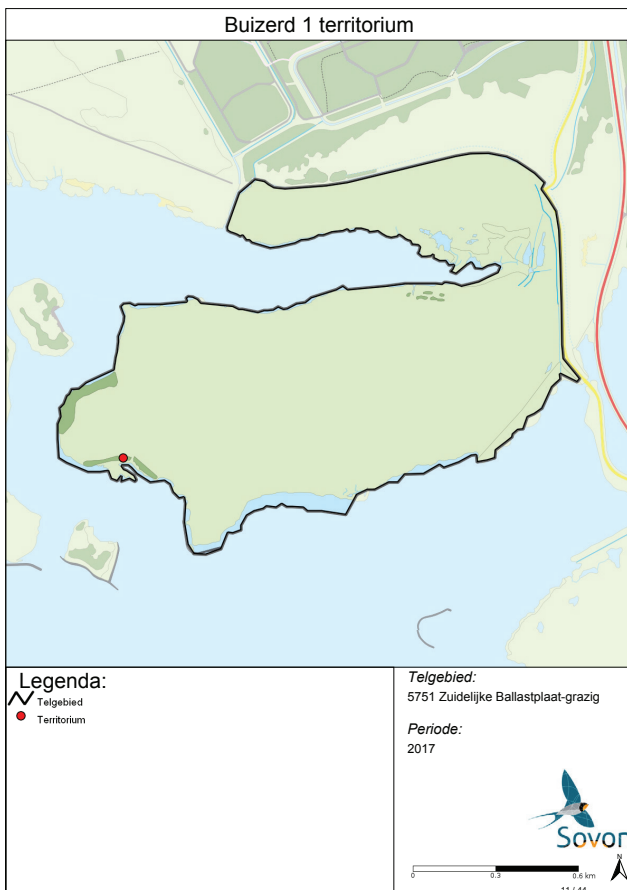
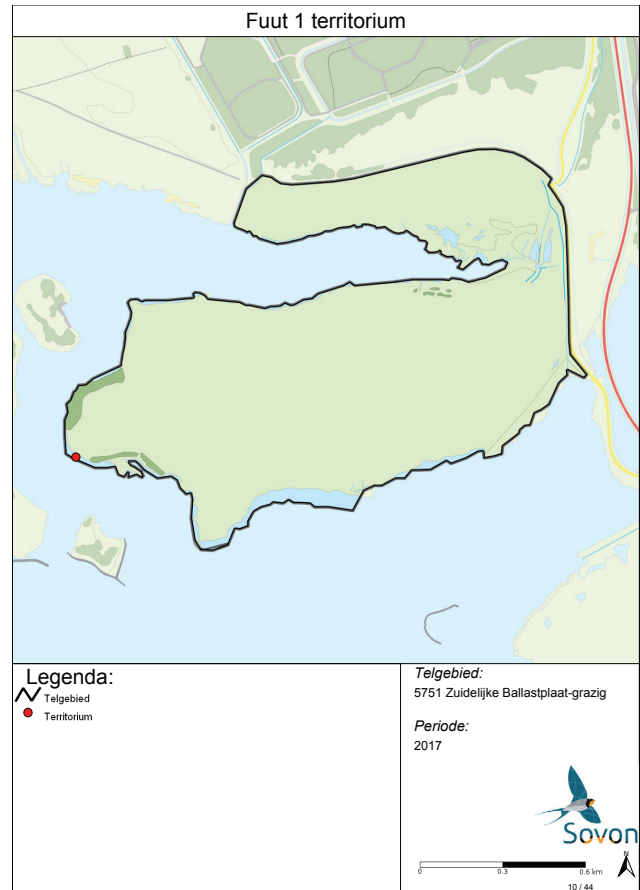
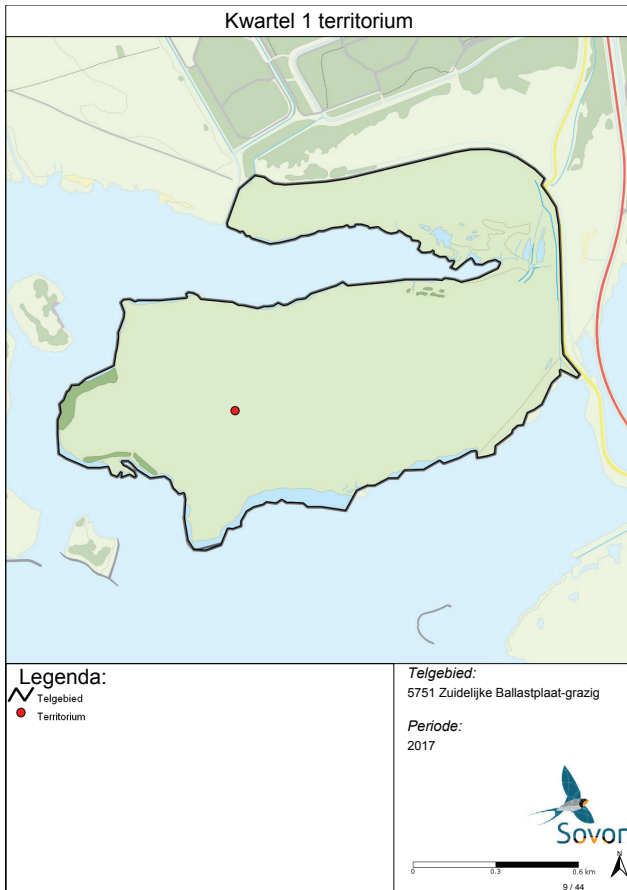


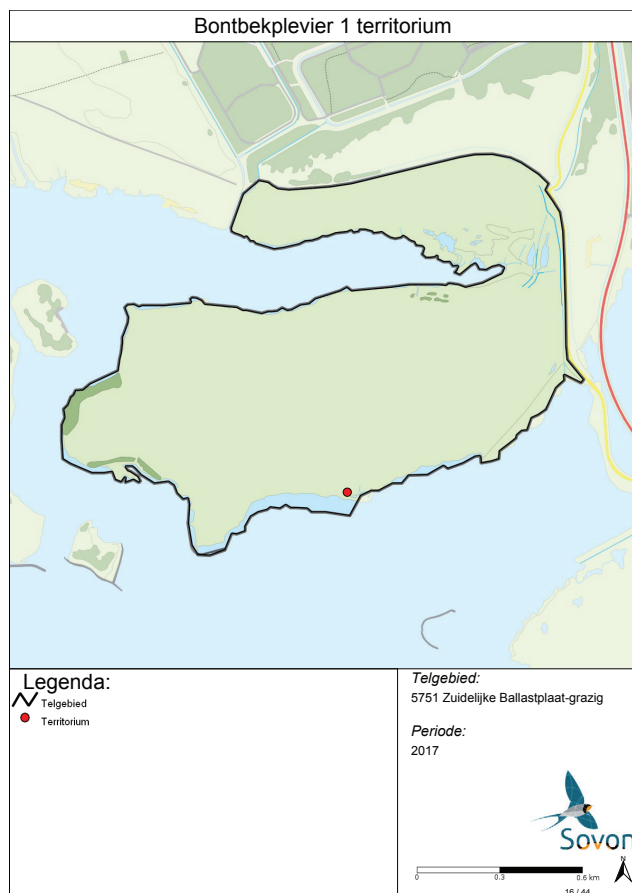
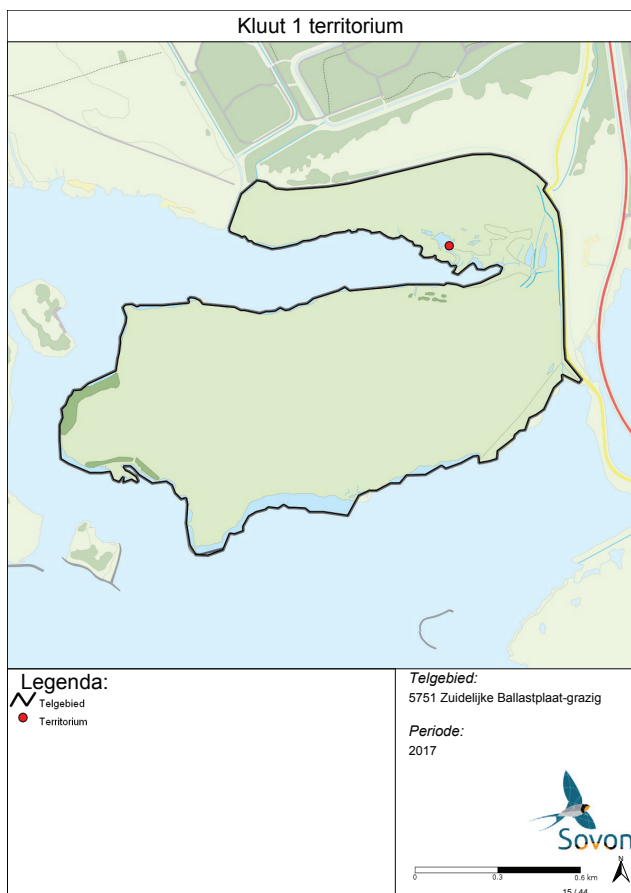
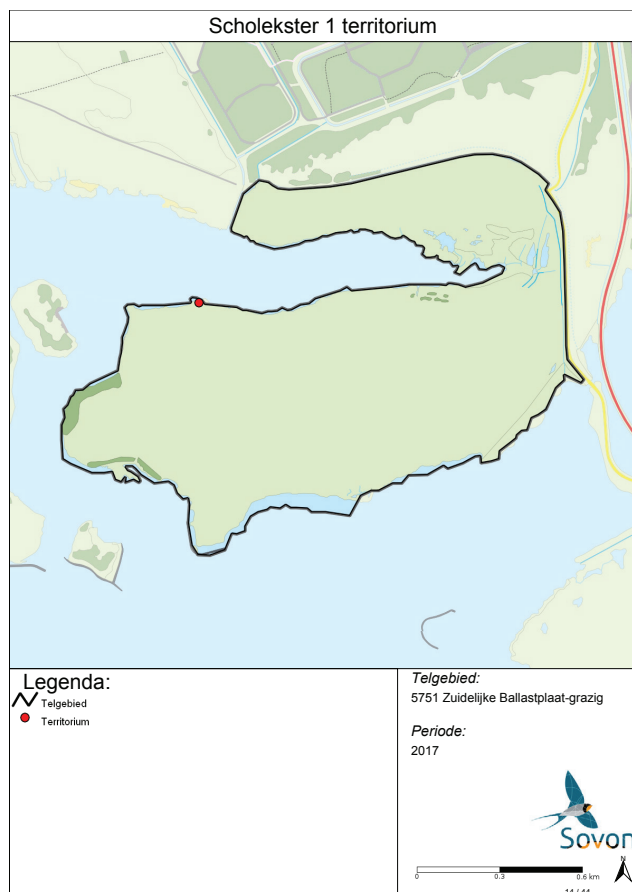
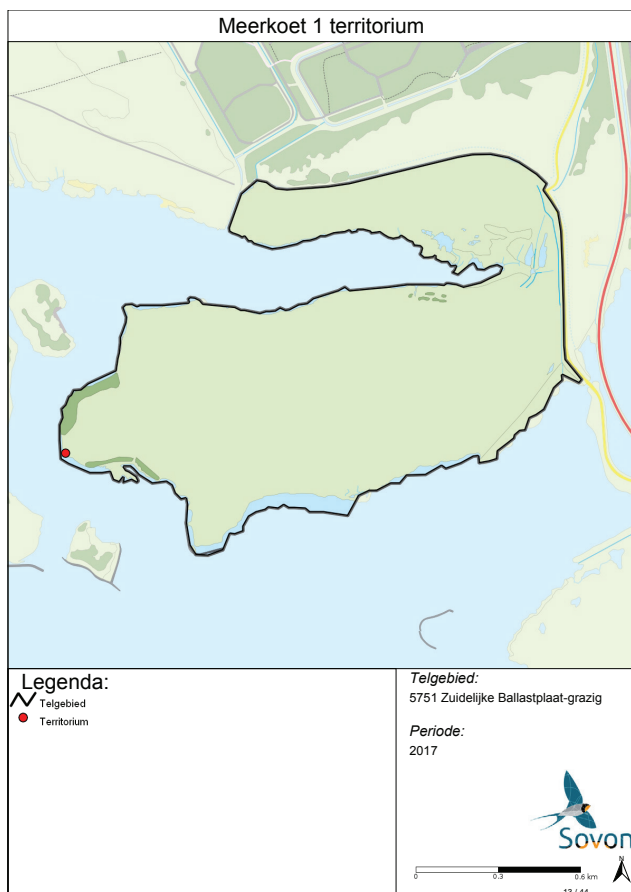


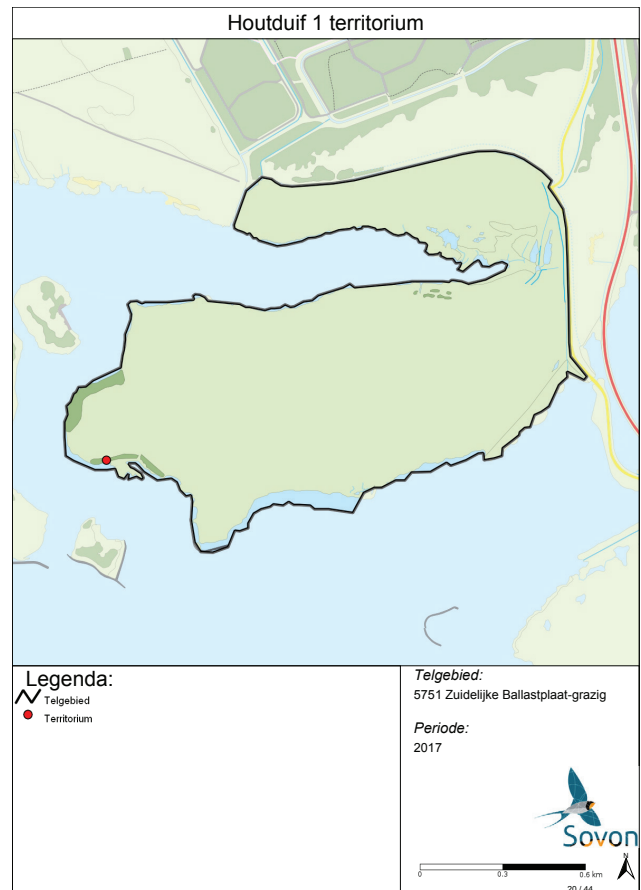
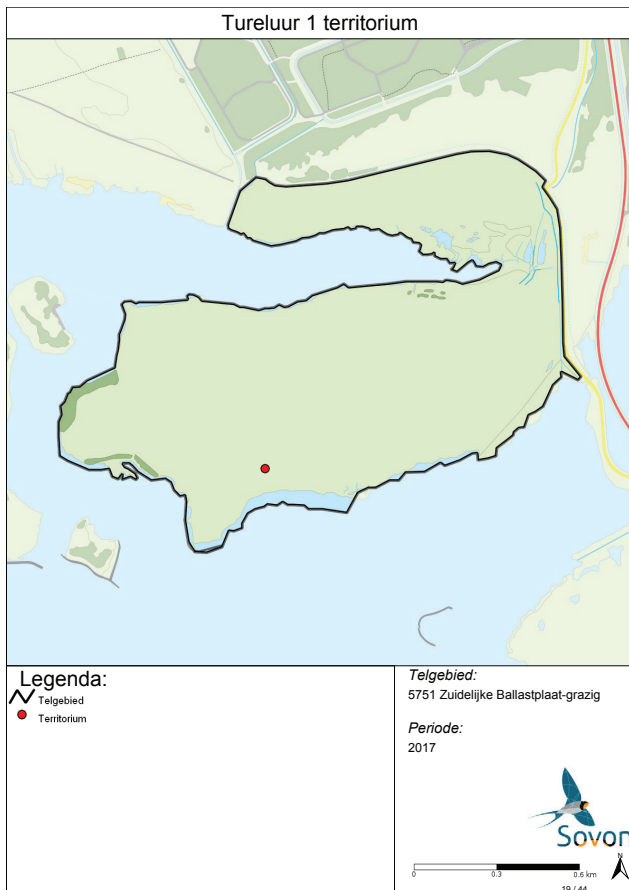
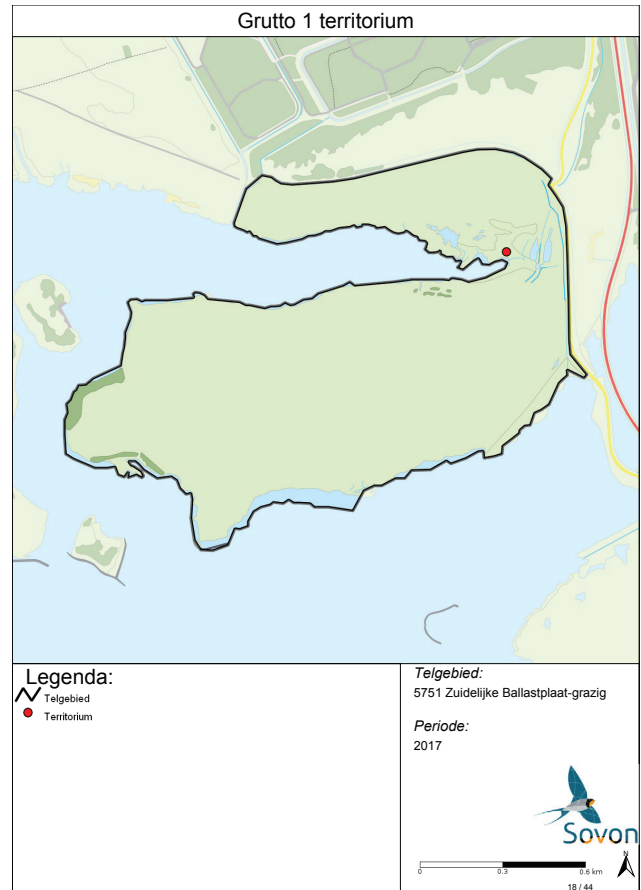
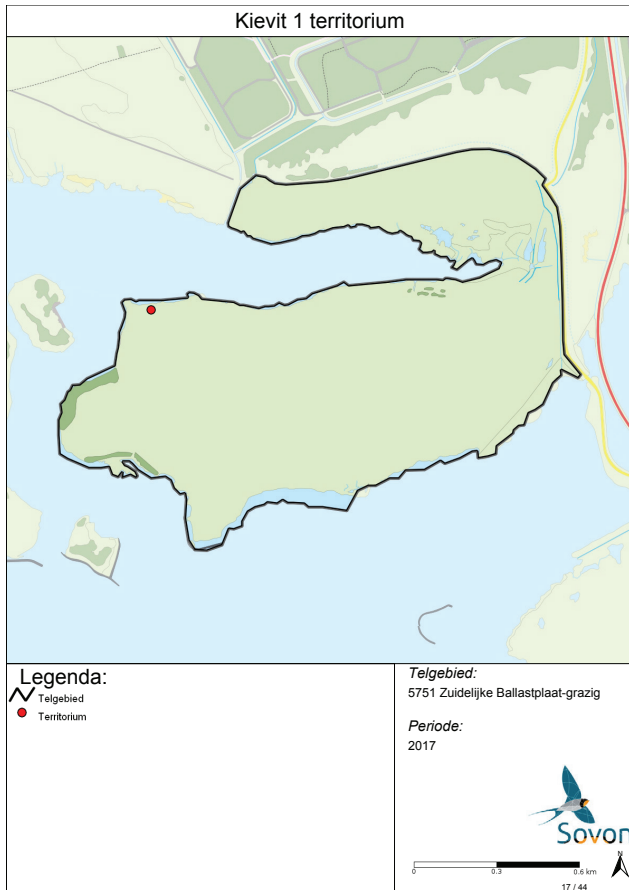
Bijlage 19d. Zuidelijke Ballastplaat grazig 2017

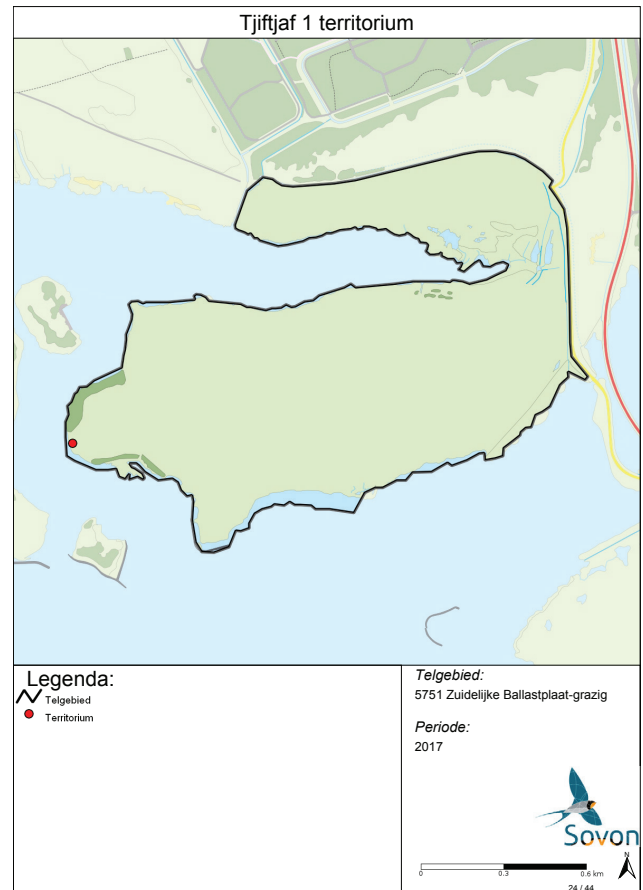
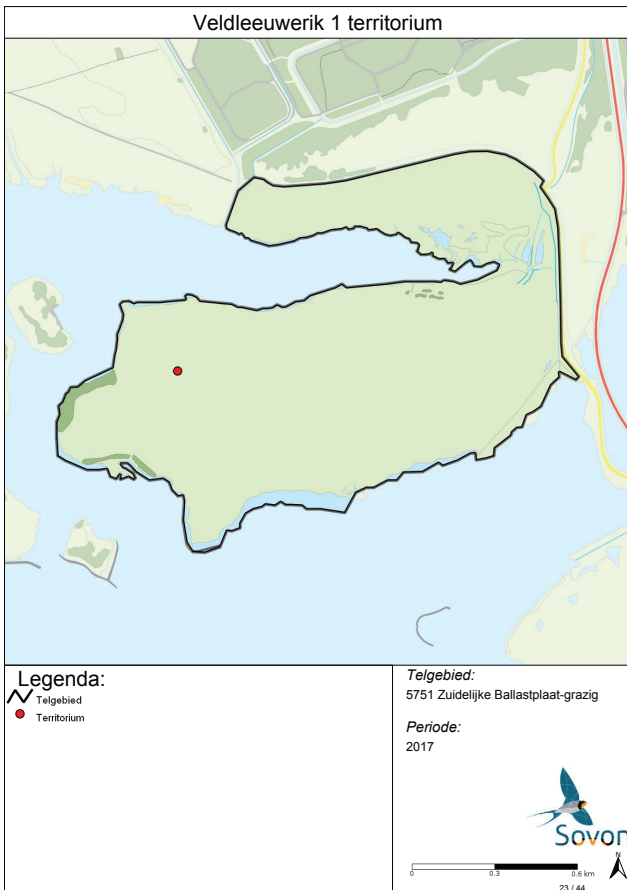
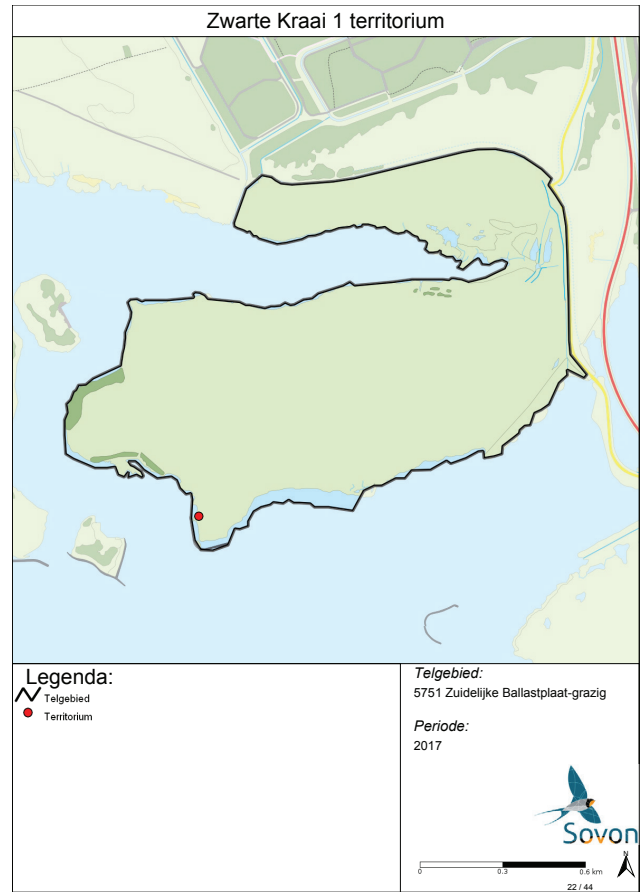
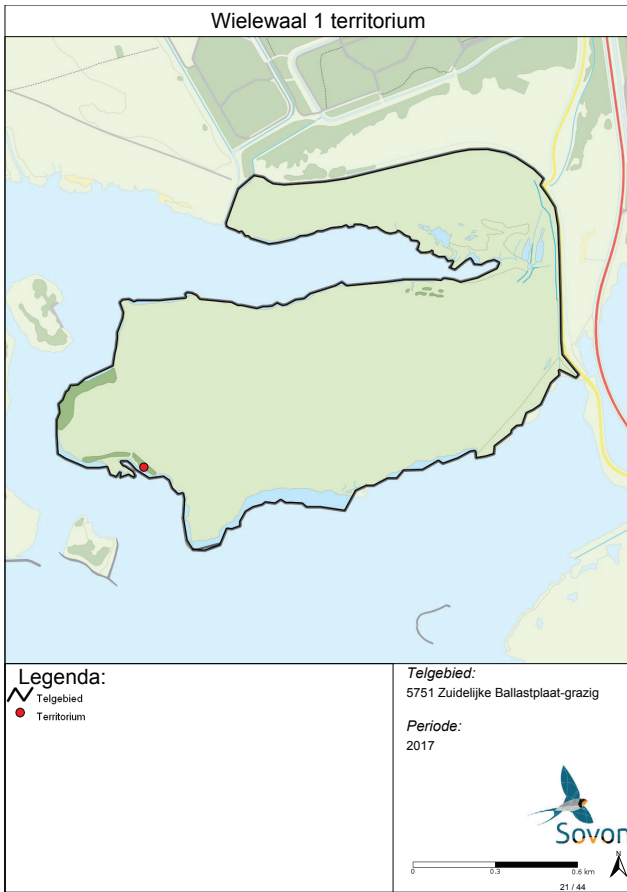


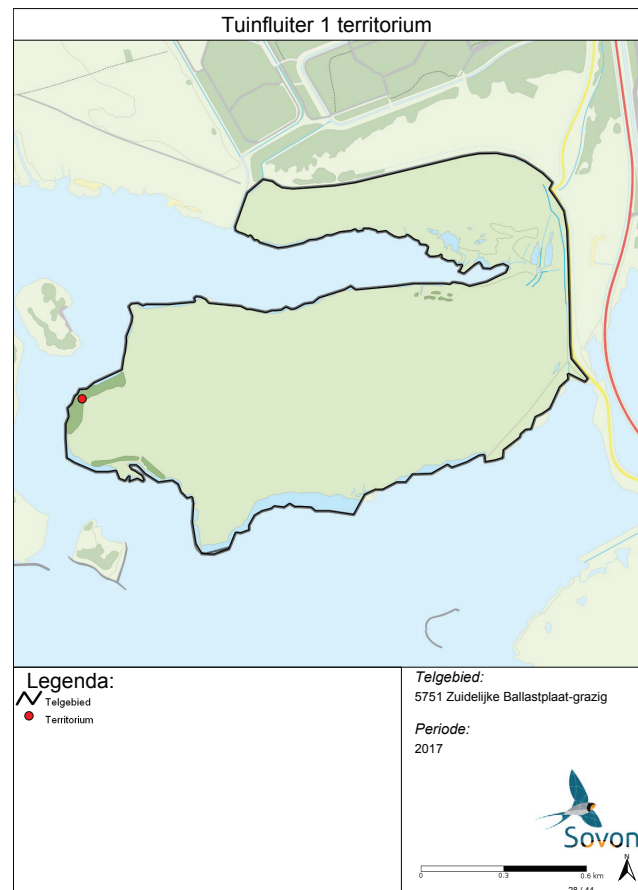
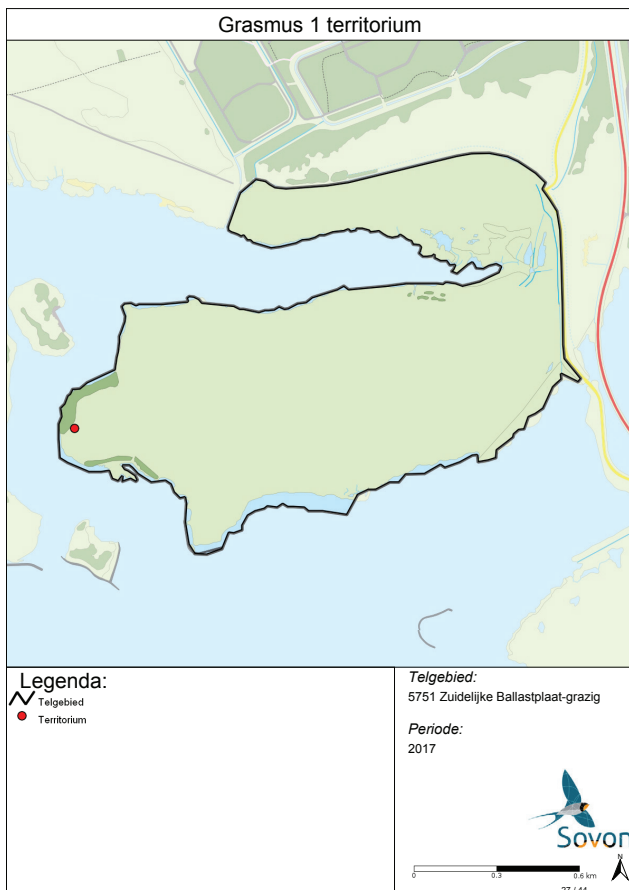
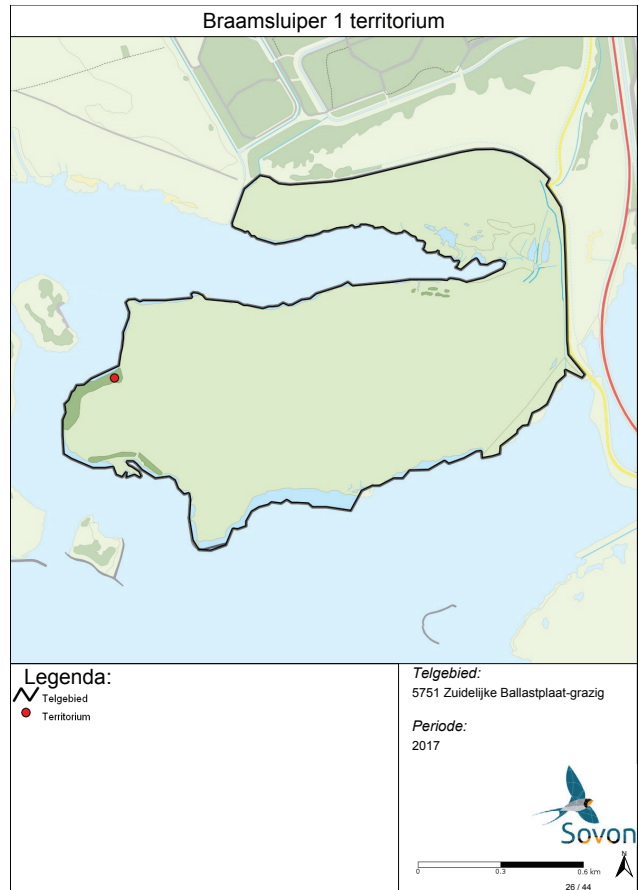
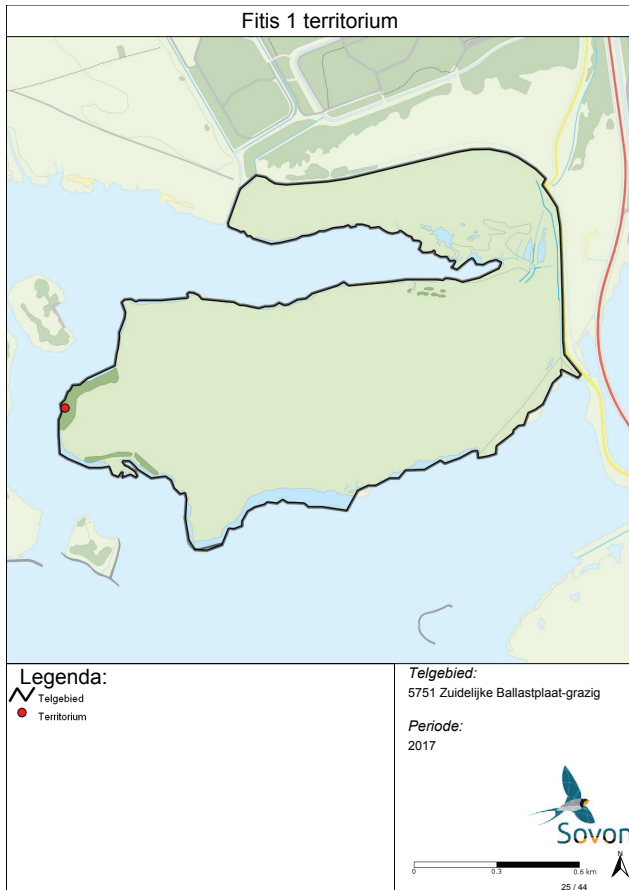


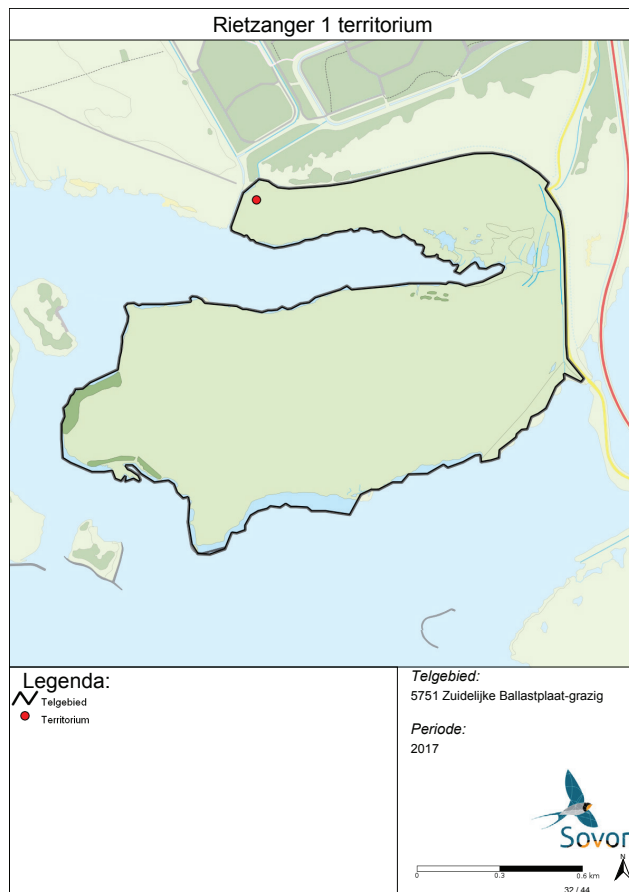
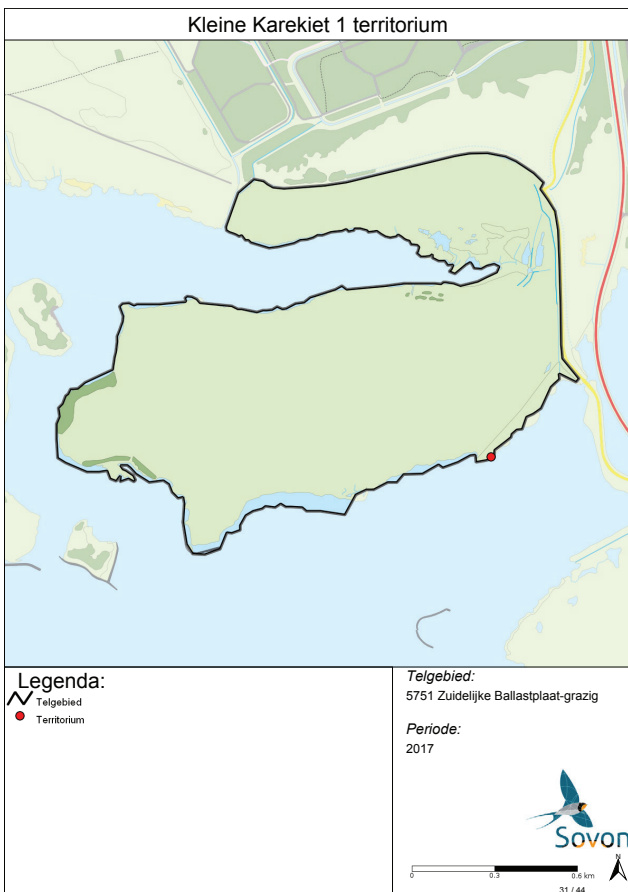
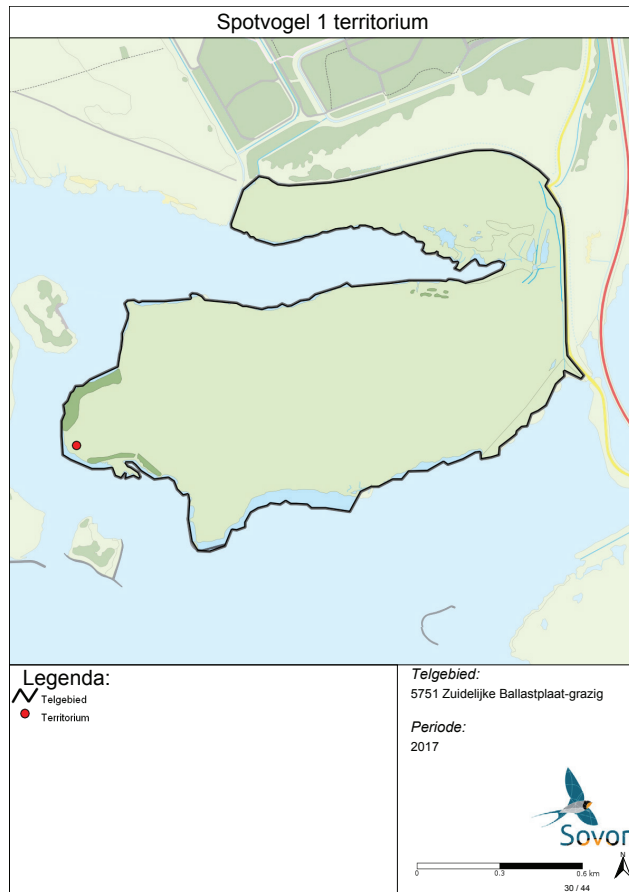
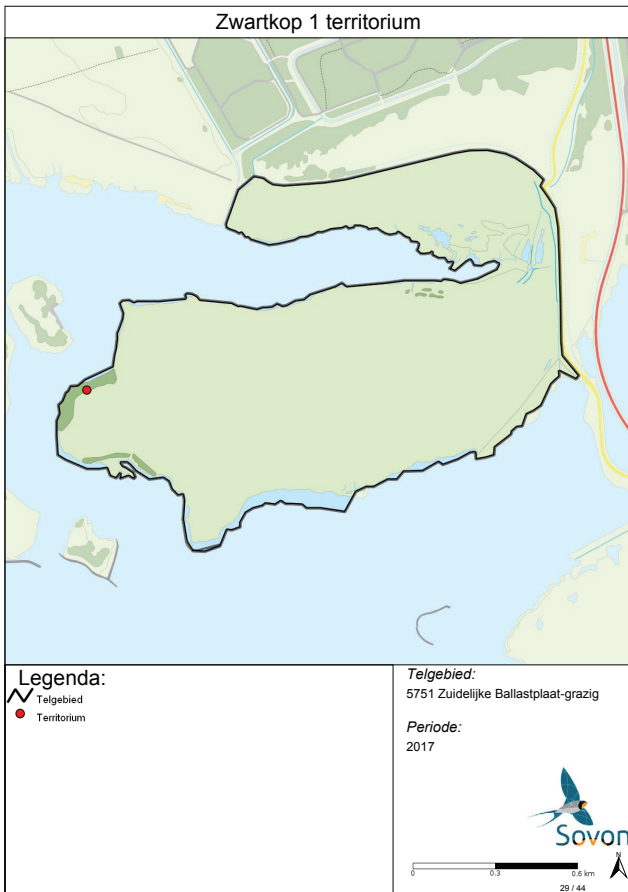


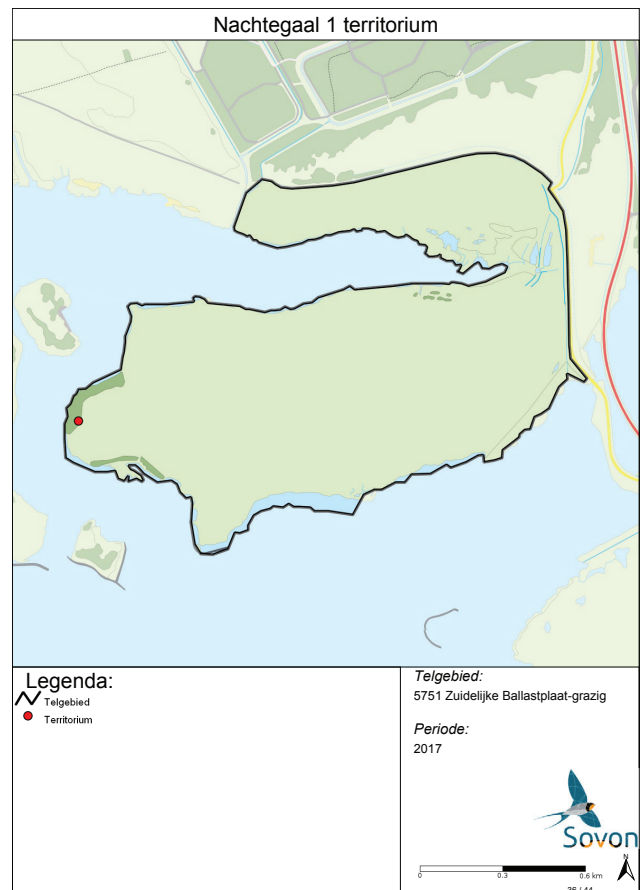
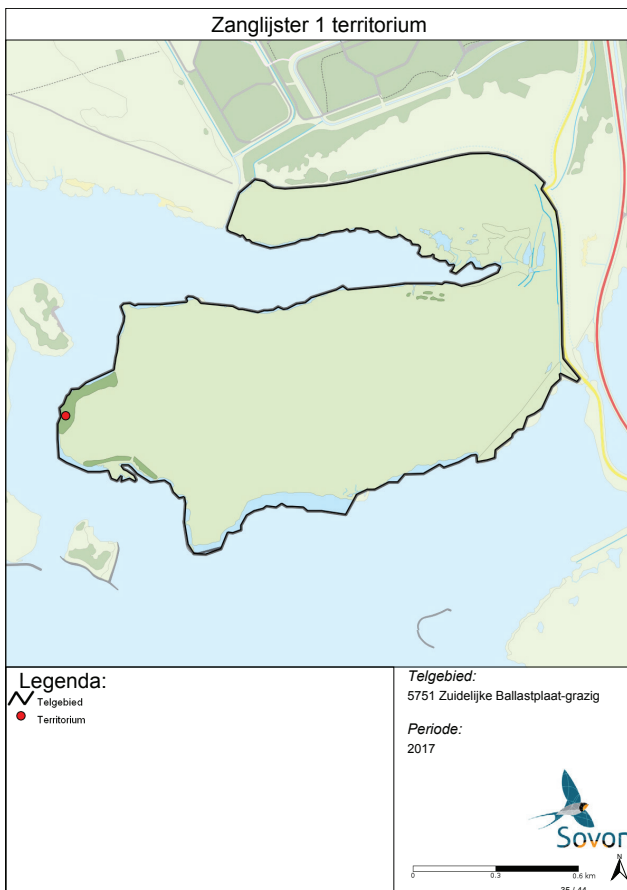
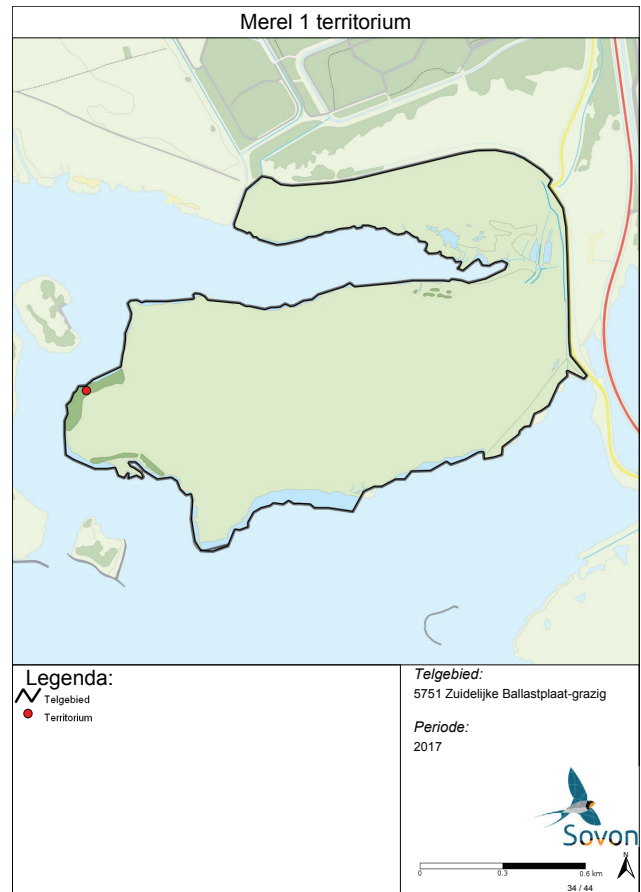
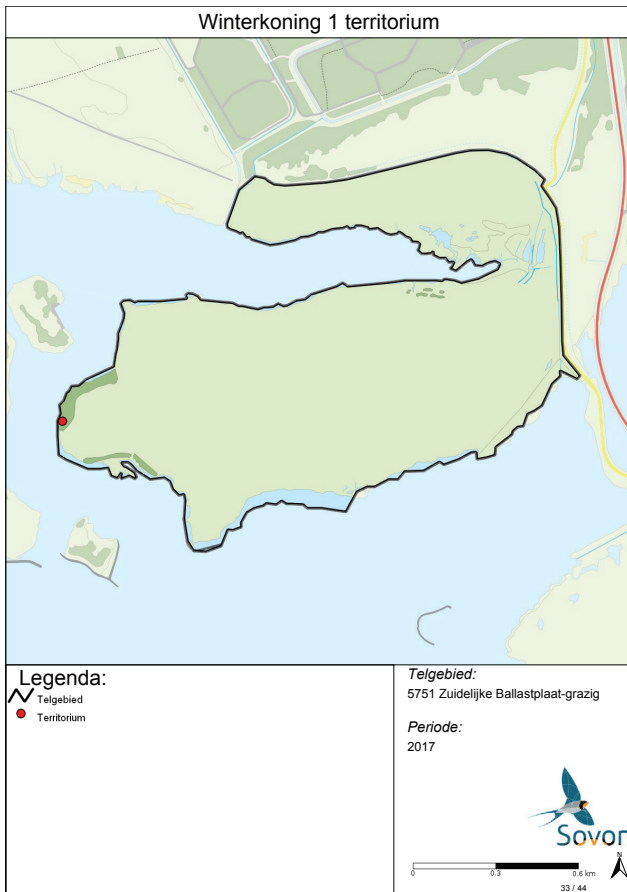


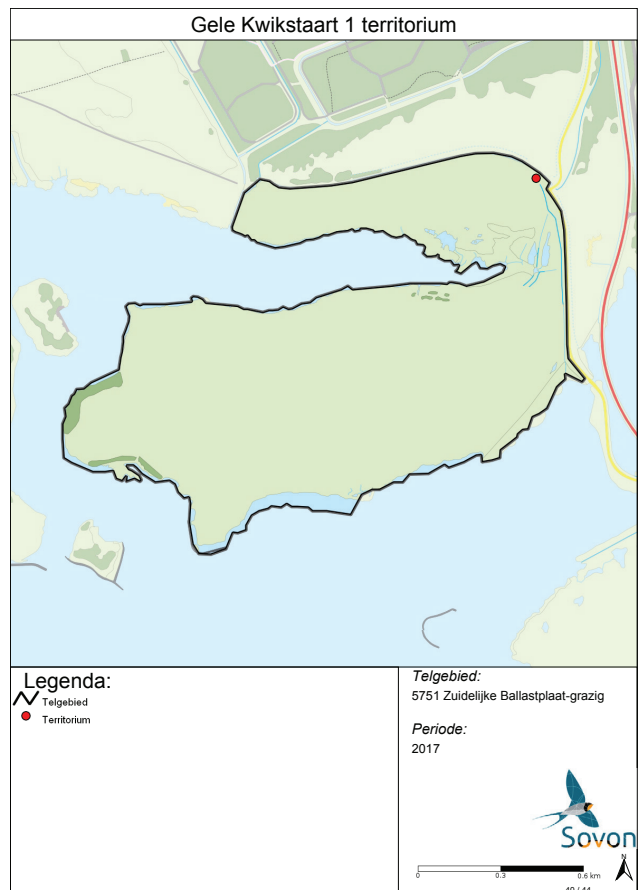
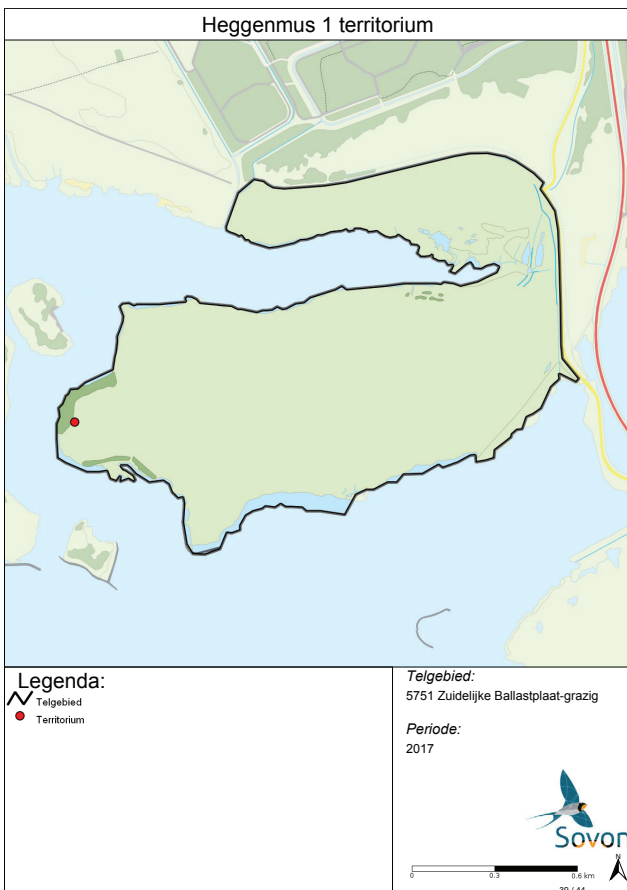
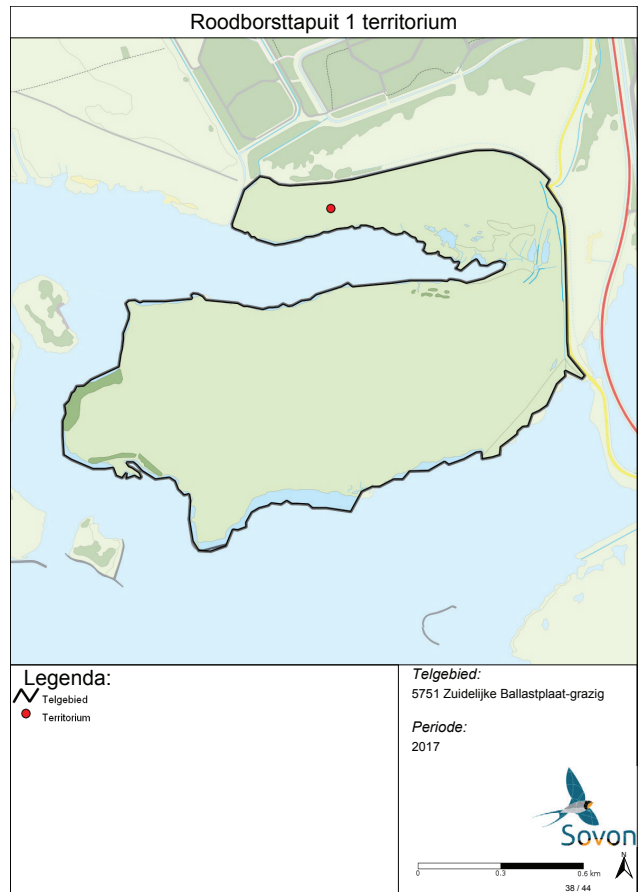
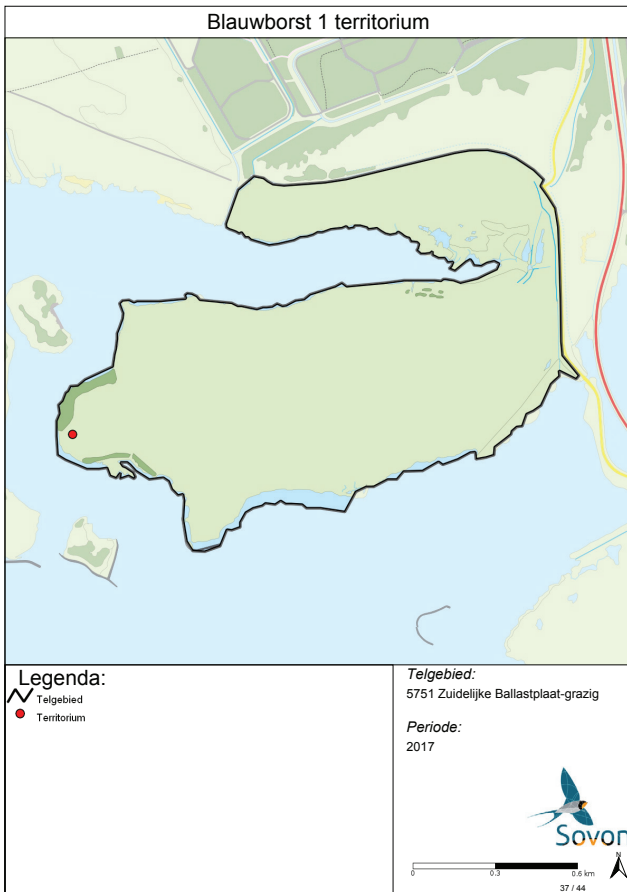


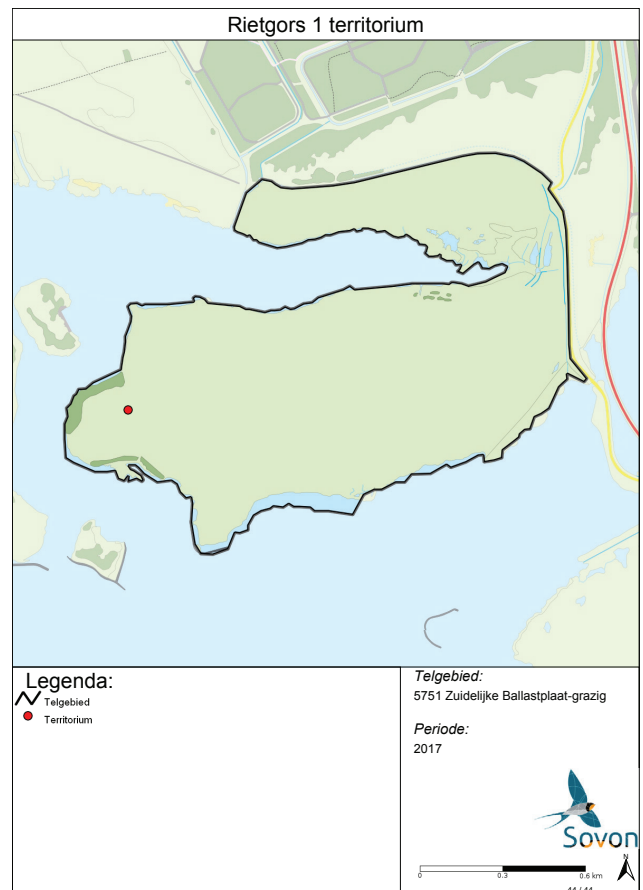
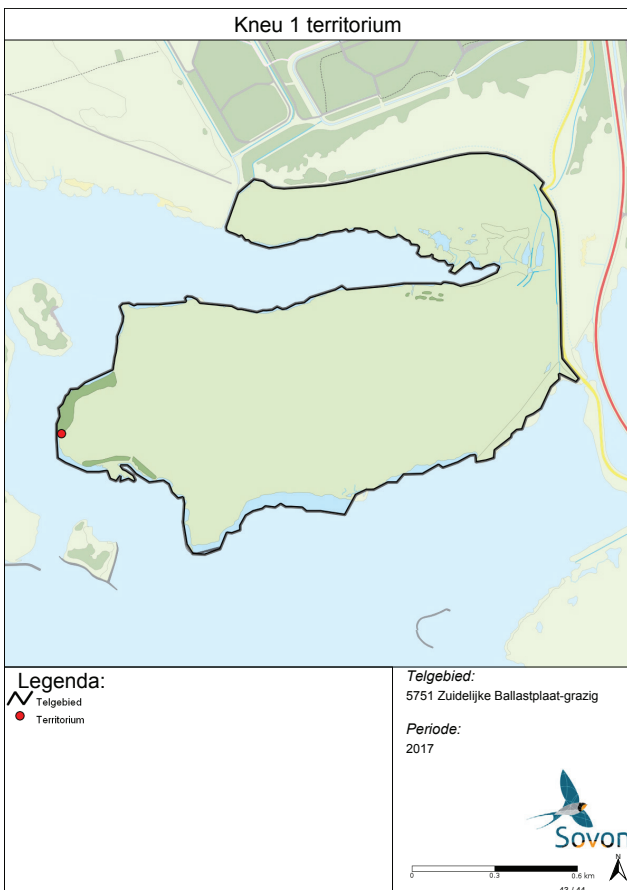
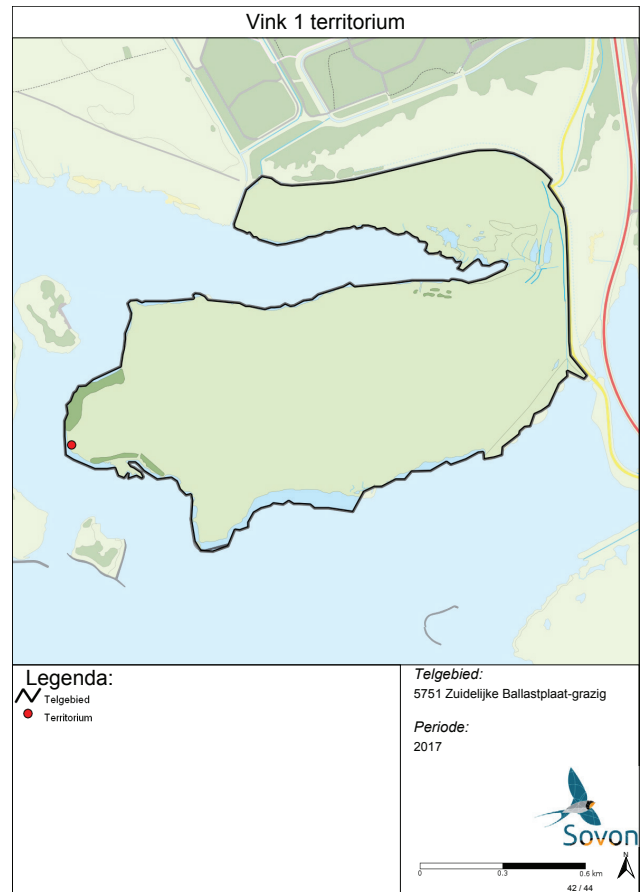
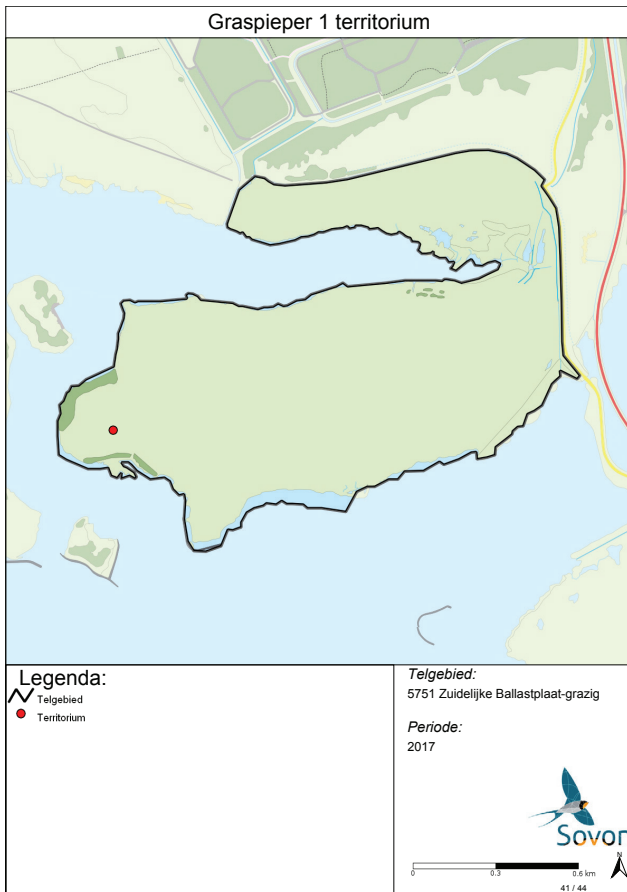




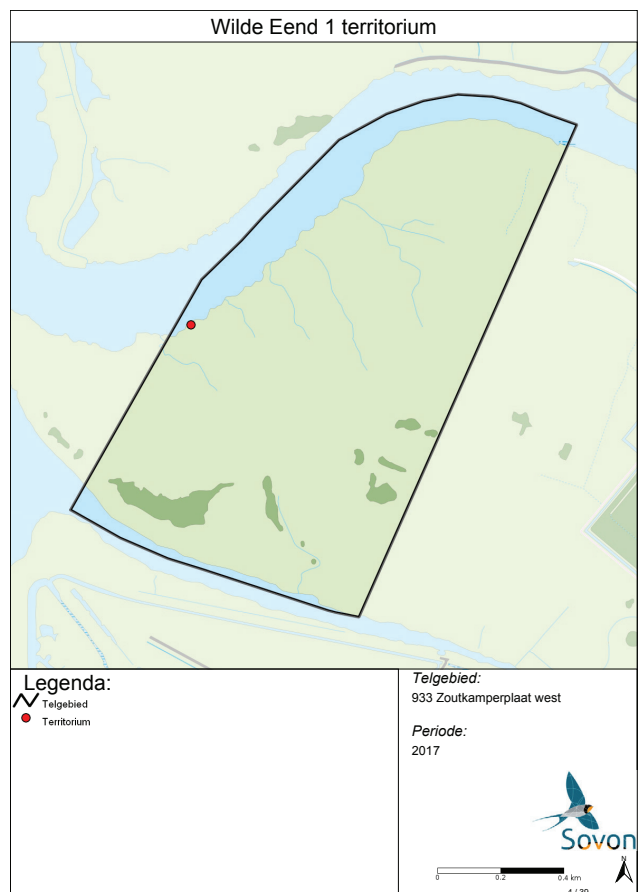
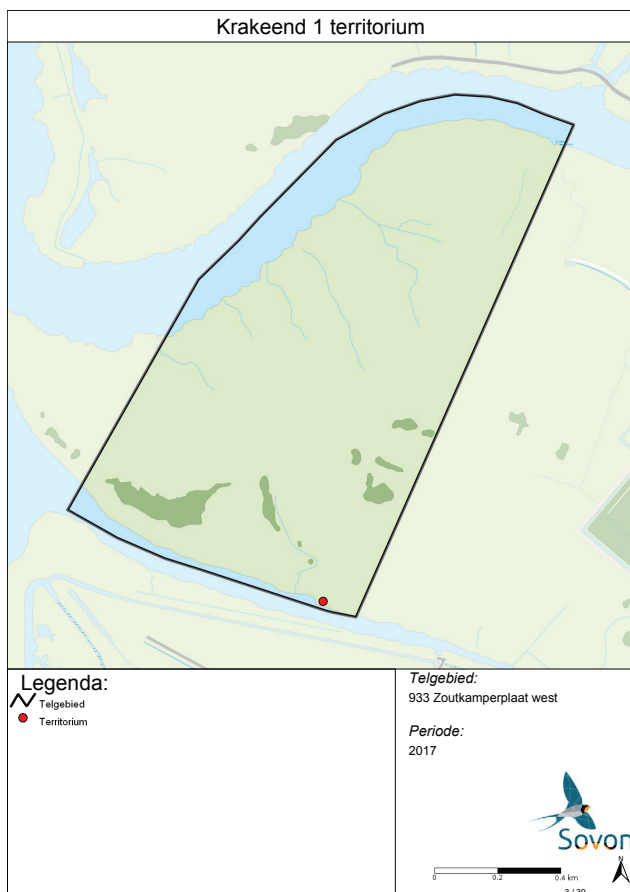
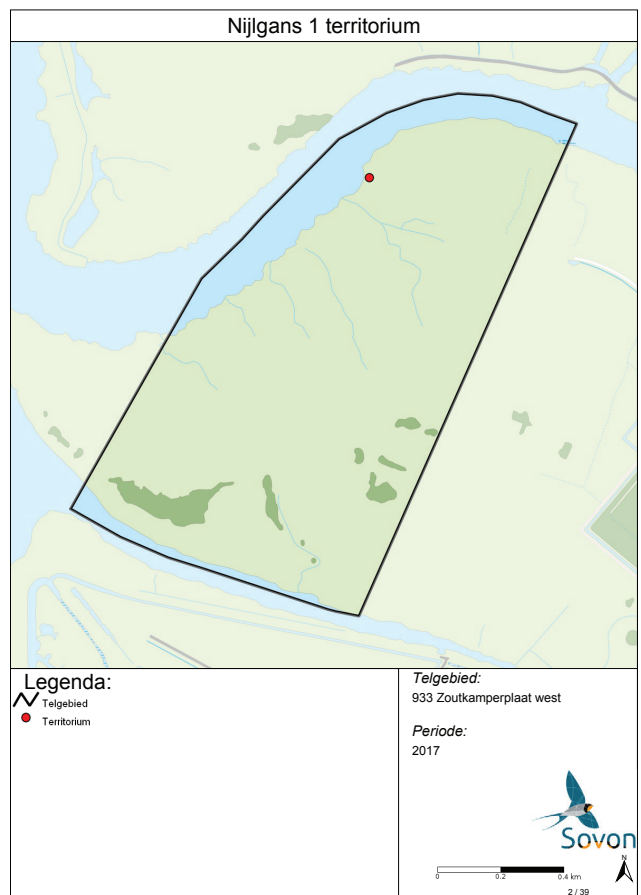
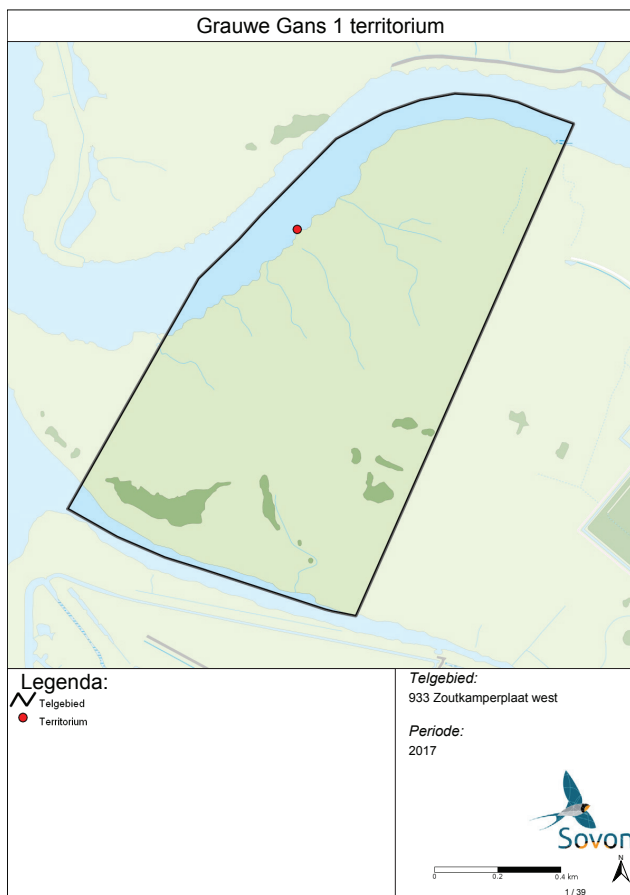


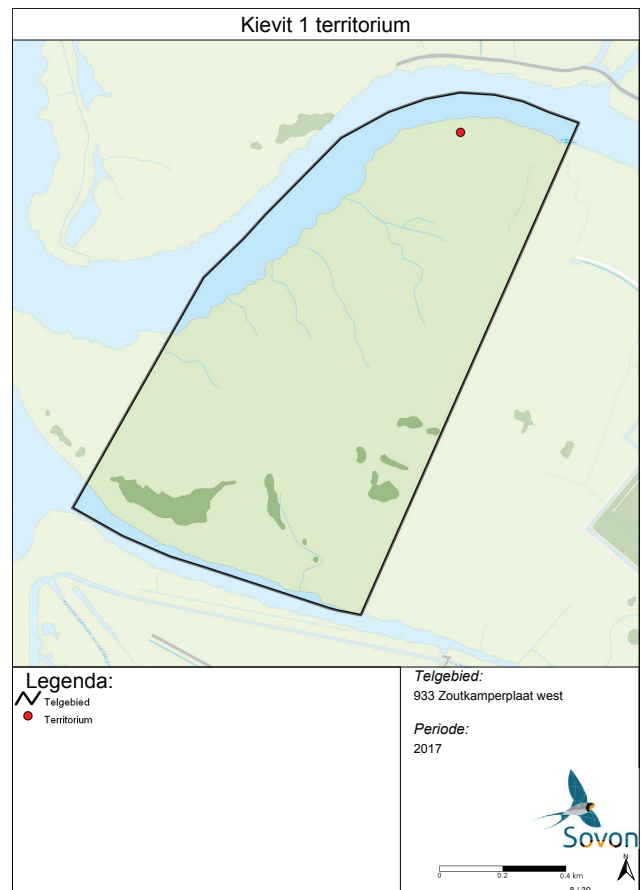
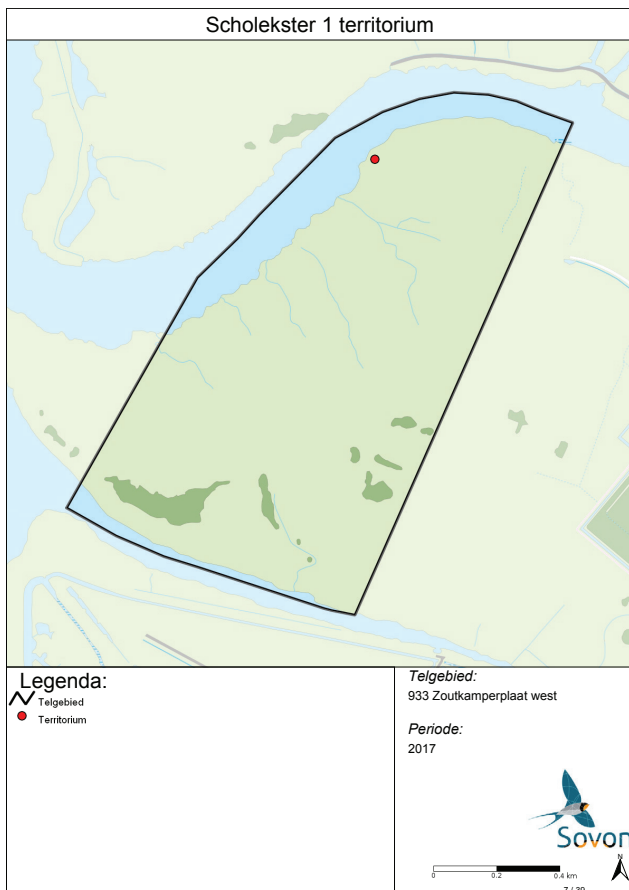
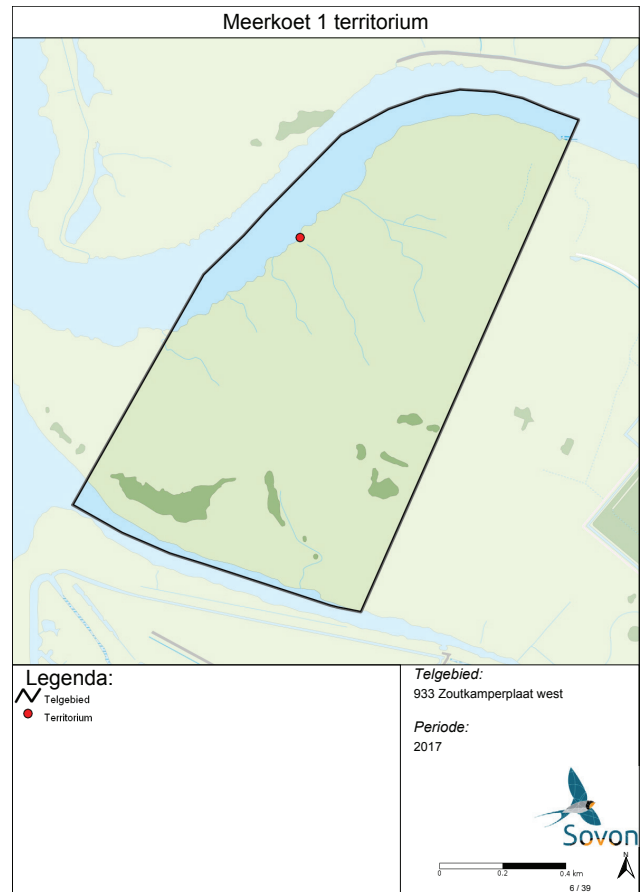
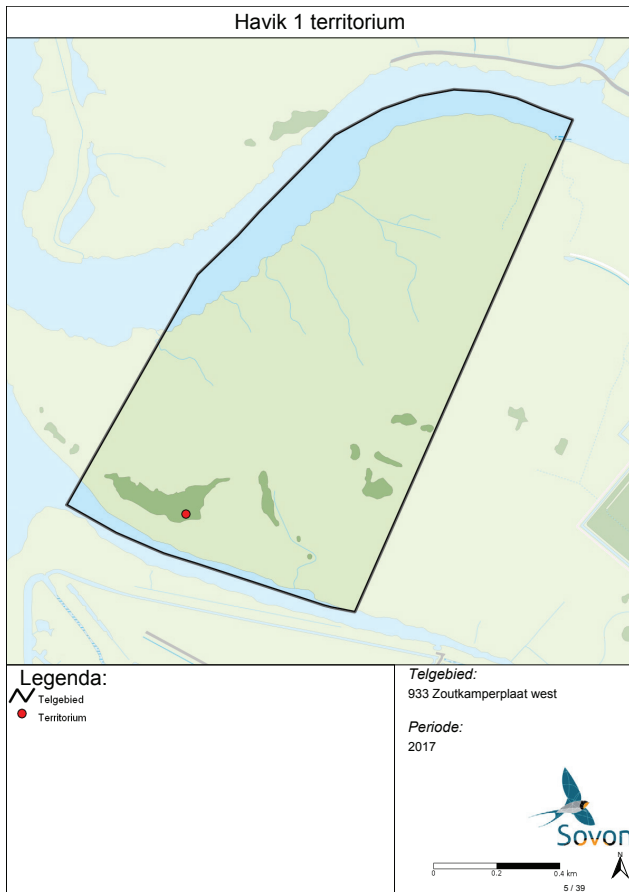


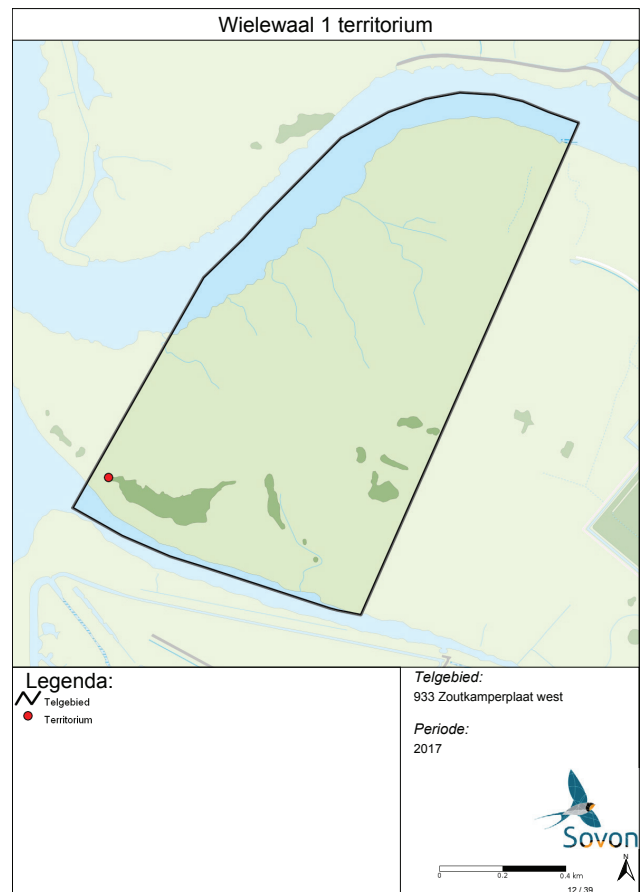
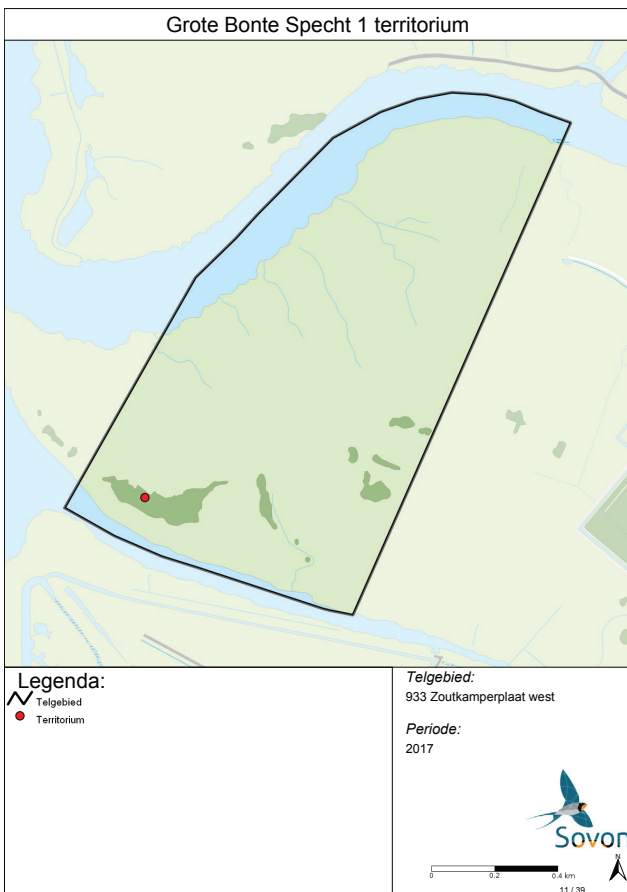
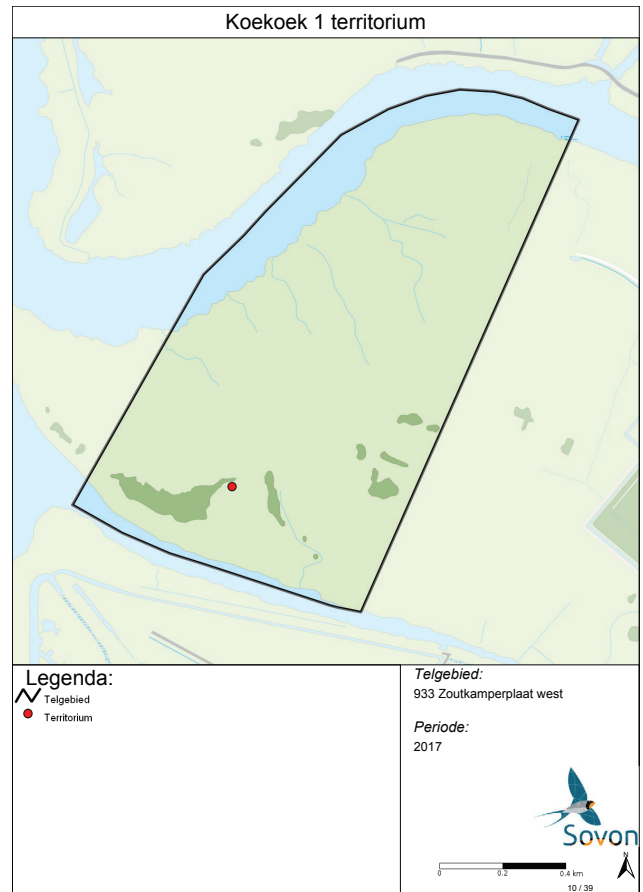
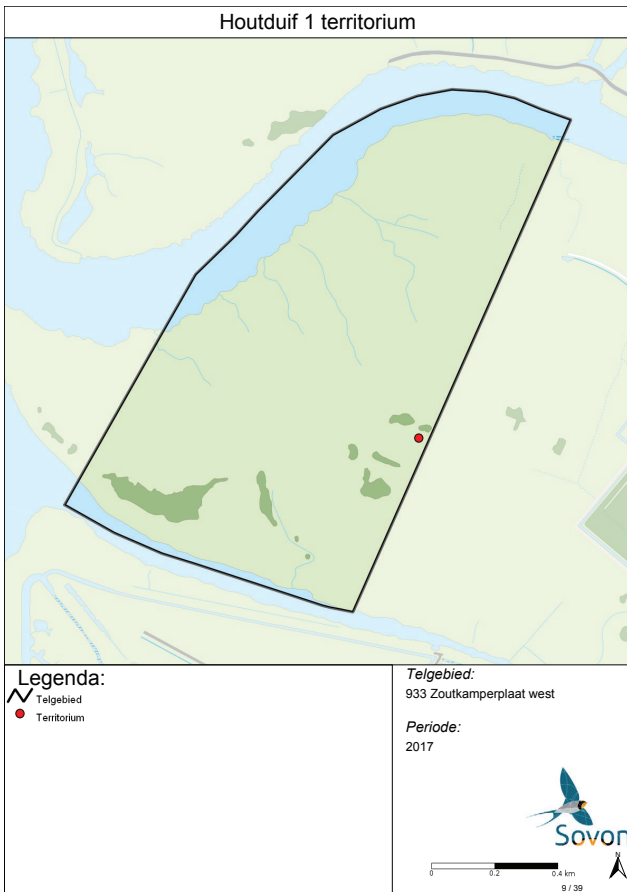


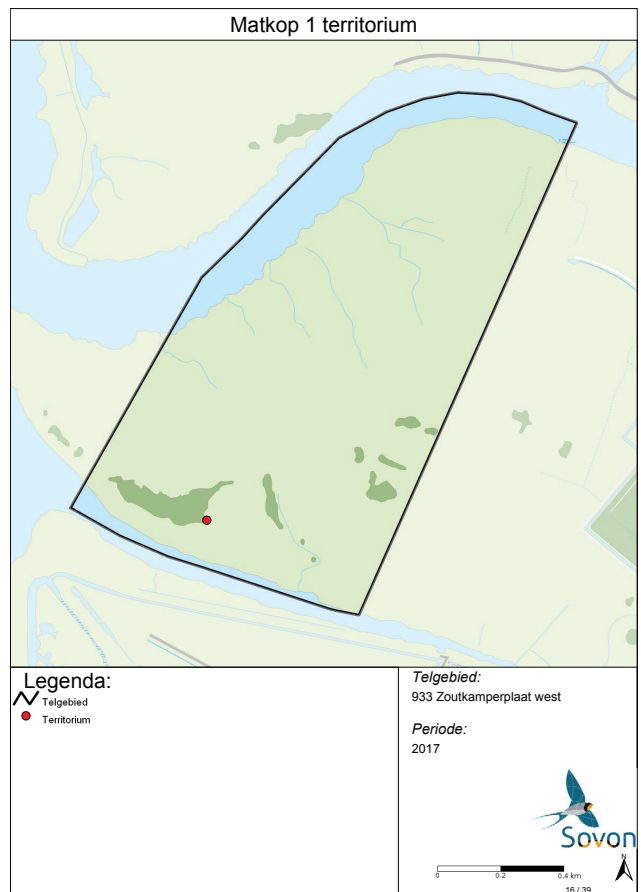
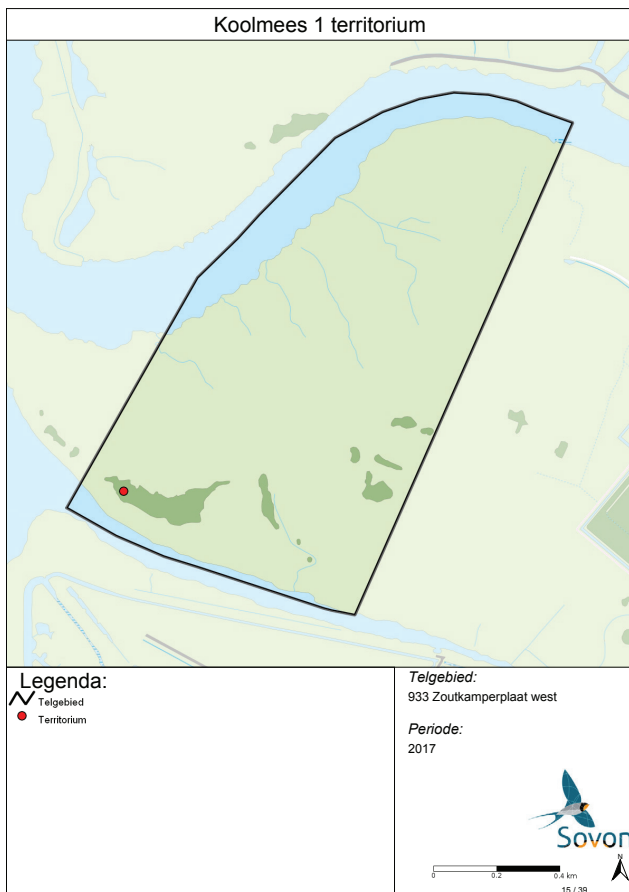
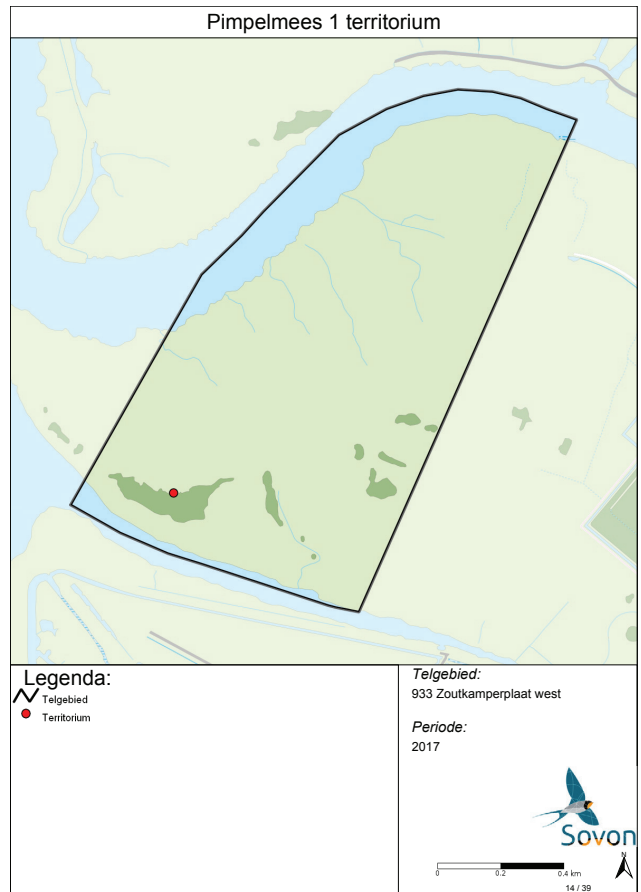
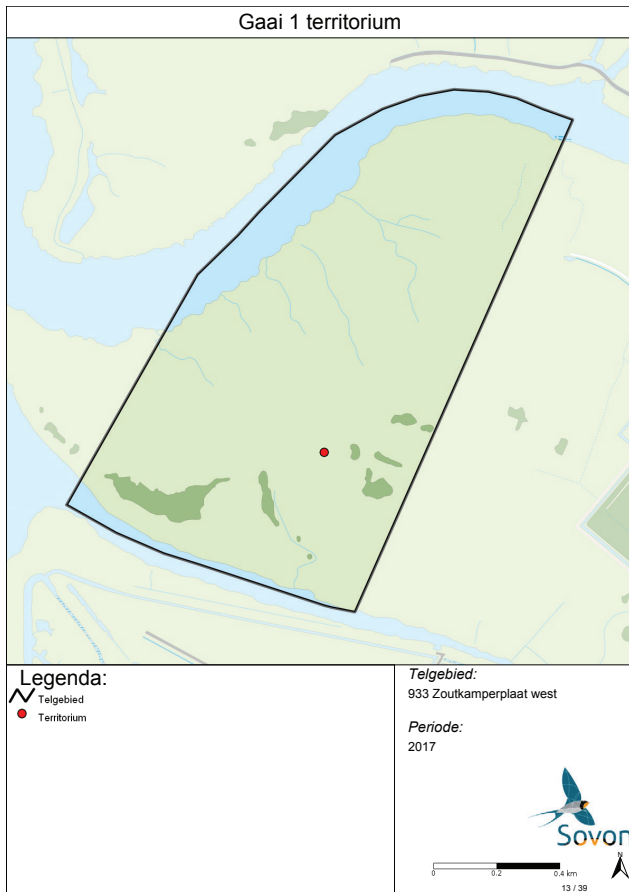


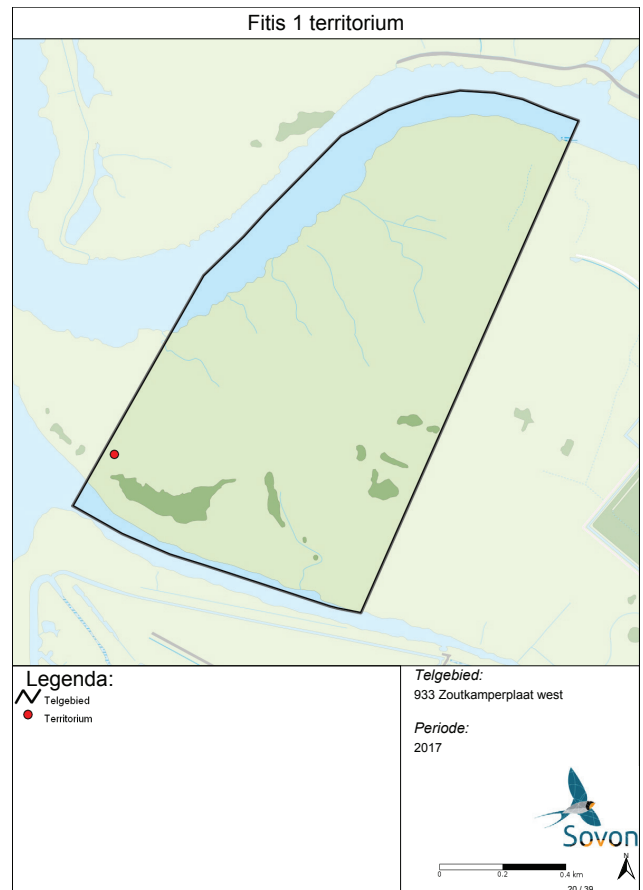
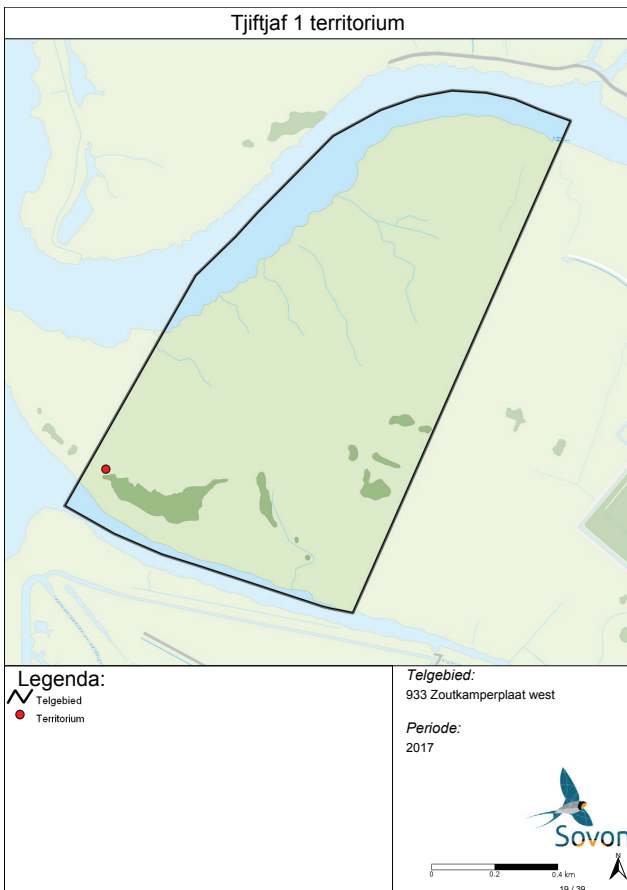
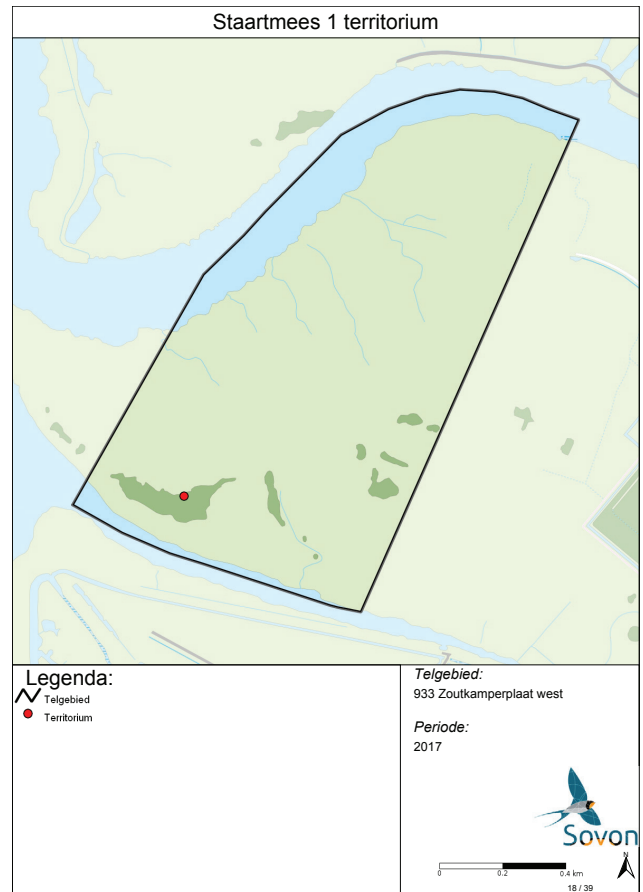
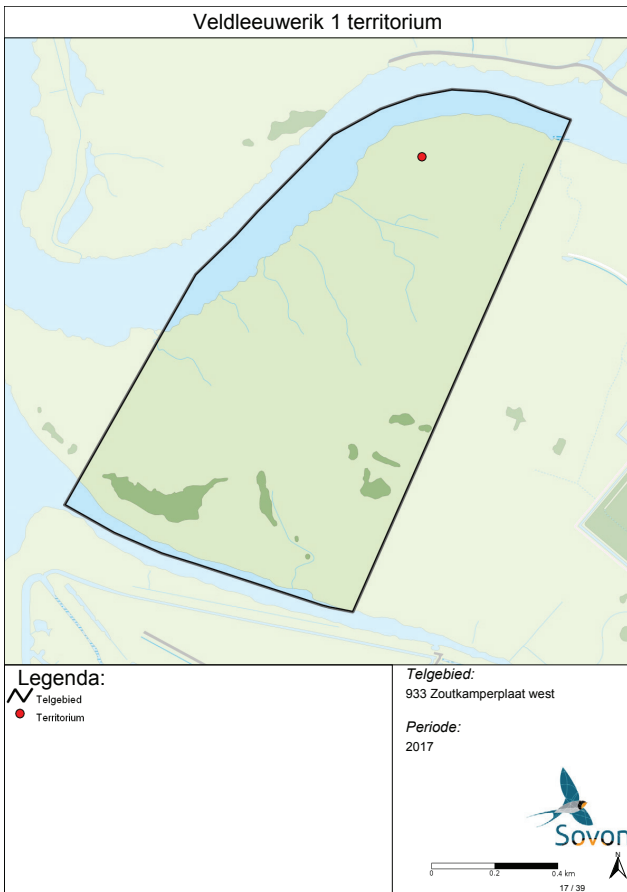
Bijlage 19e. Zoutkamperplaat west 2017

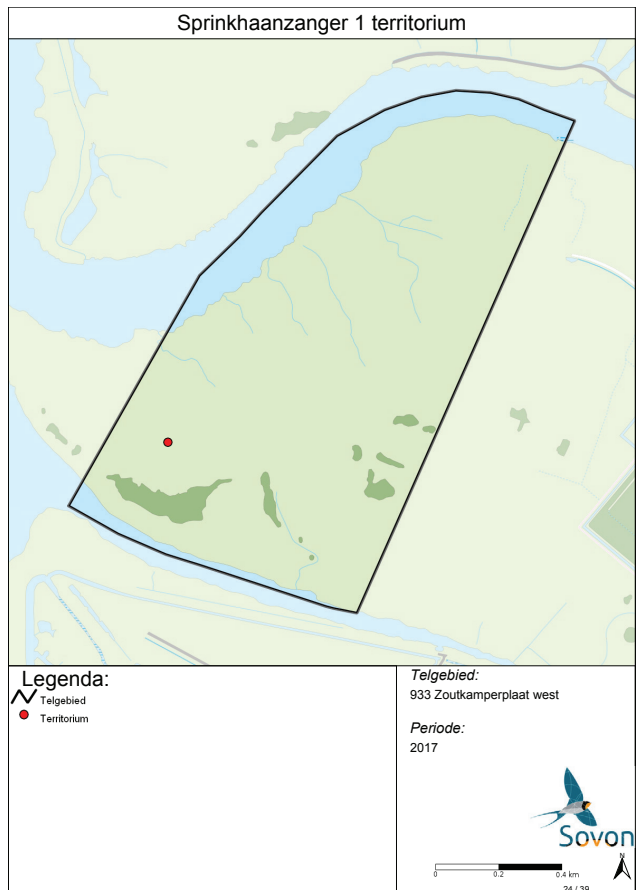
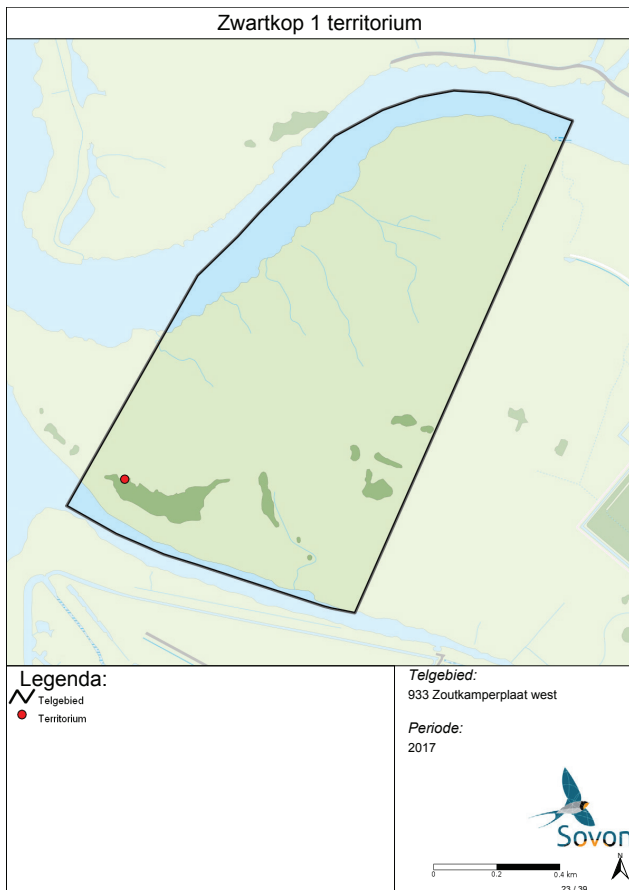
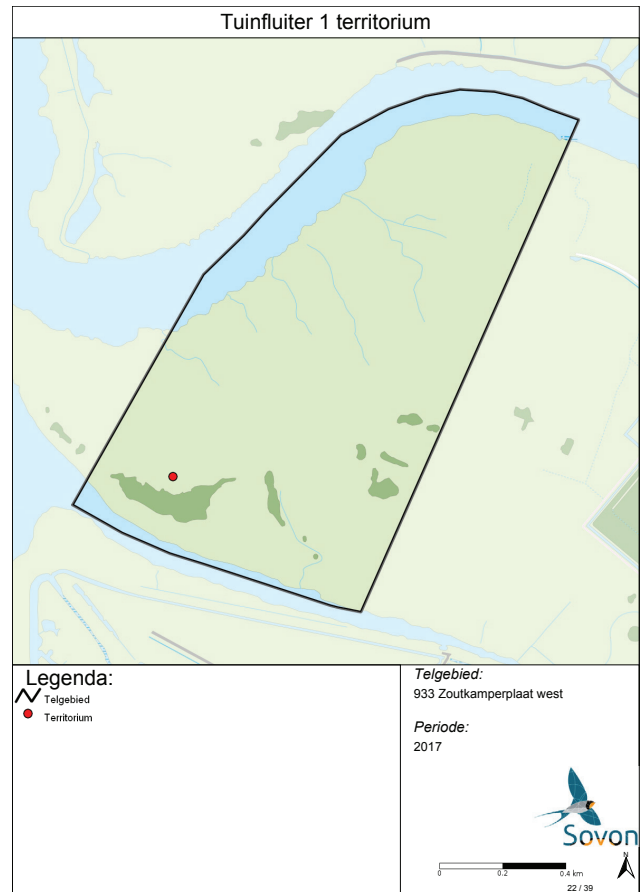
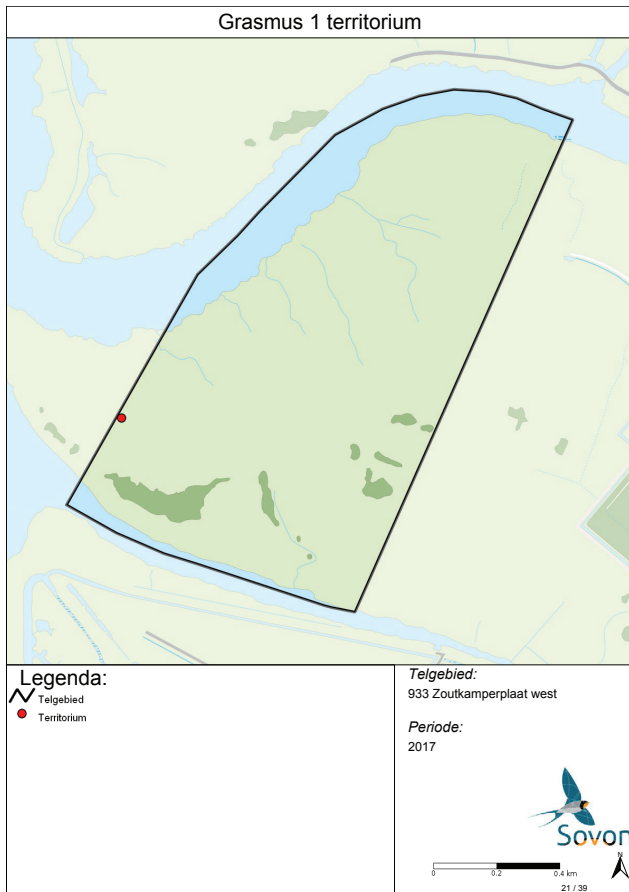


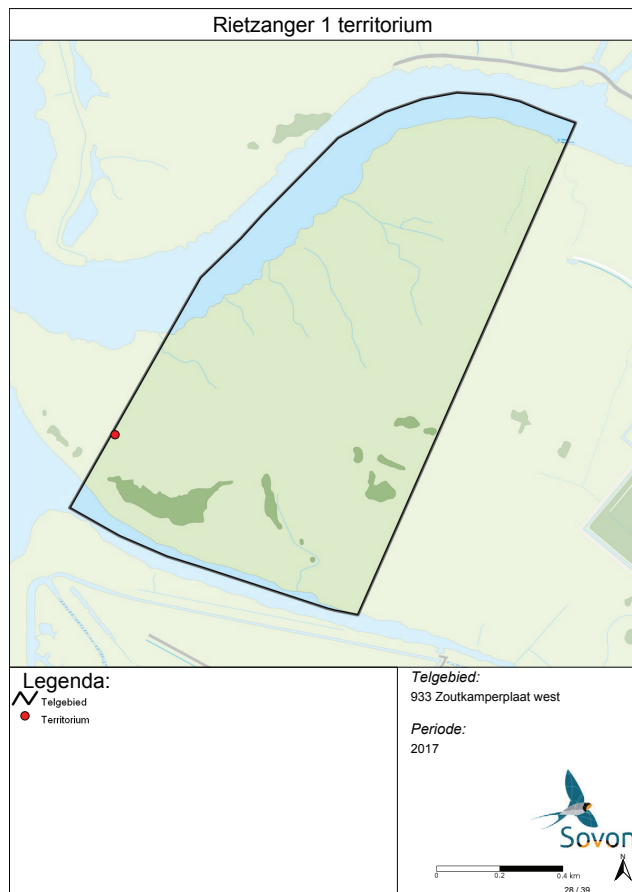
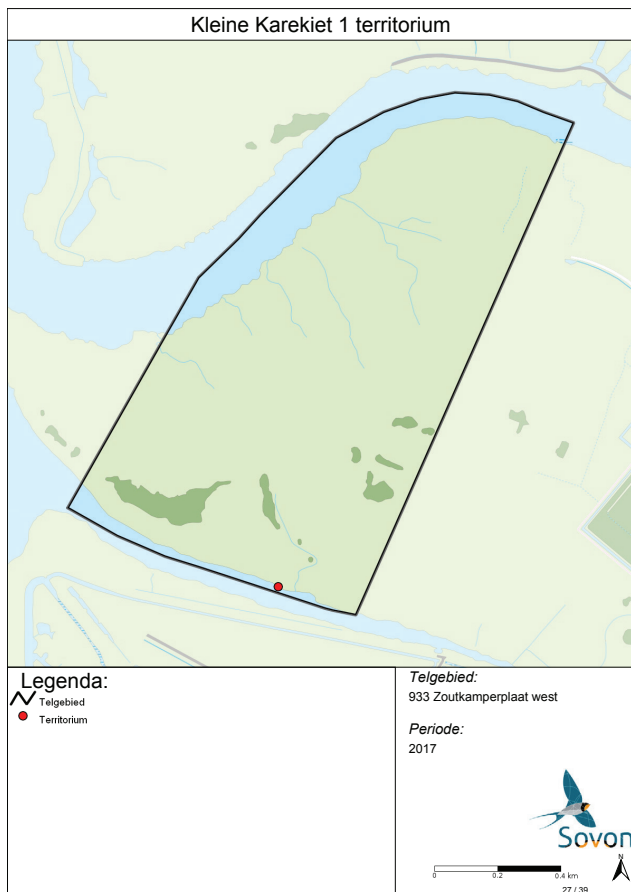
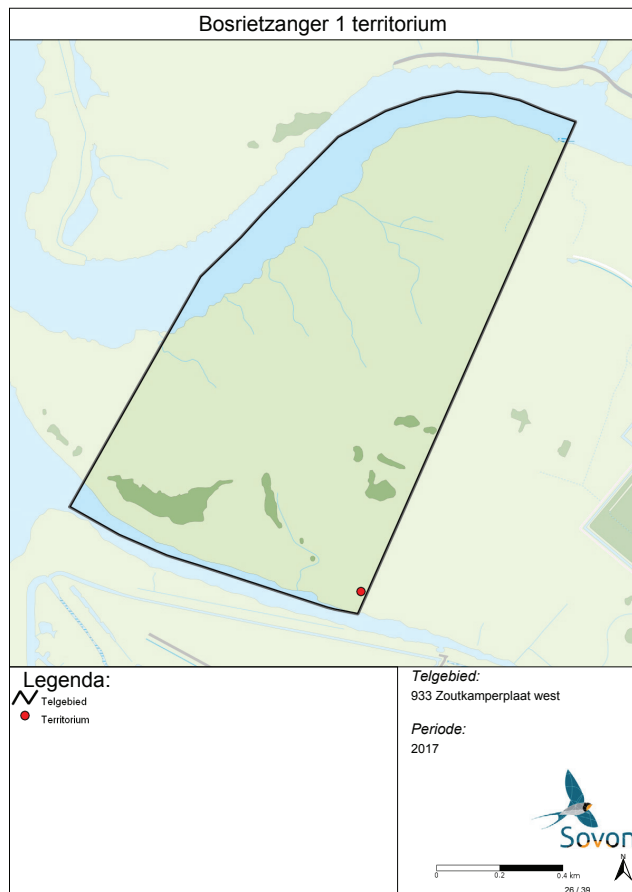
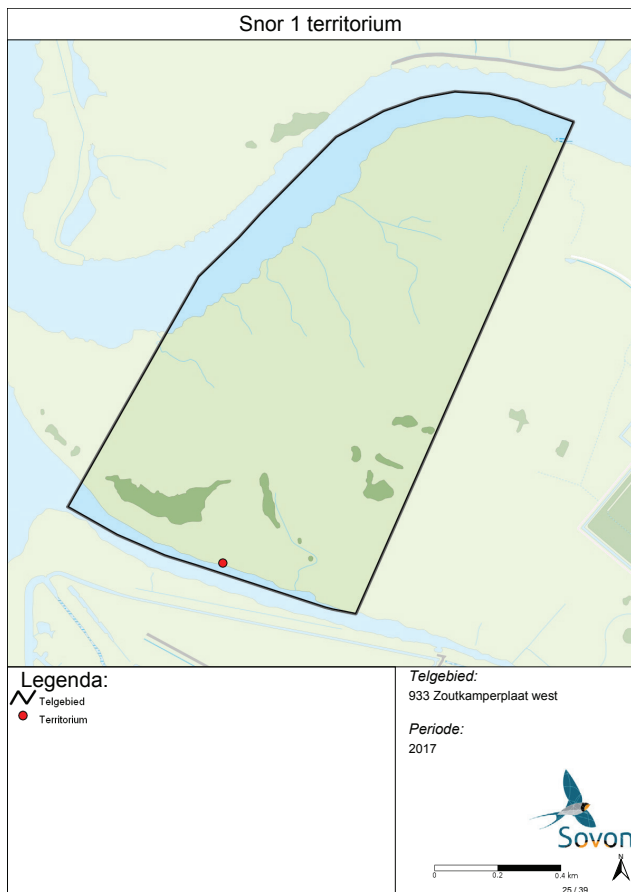


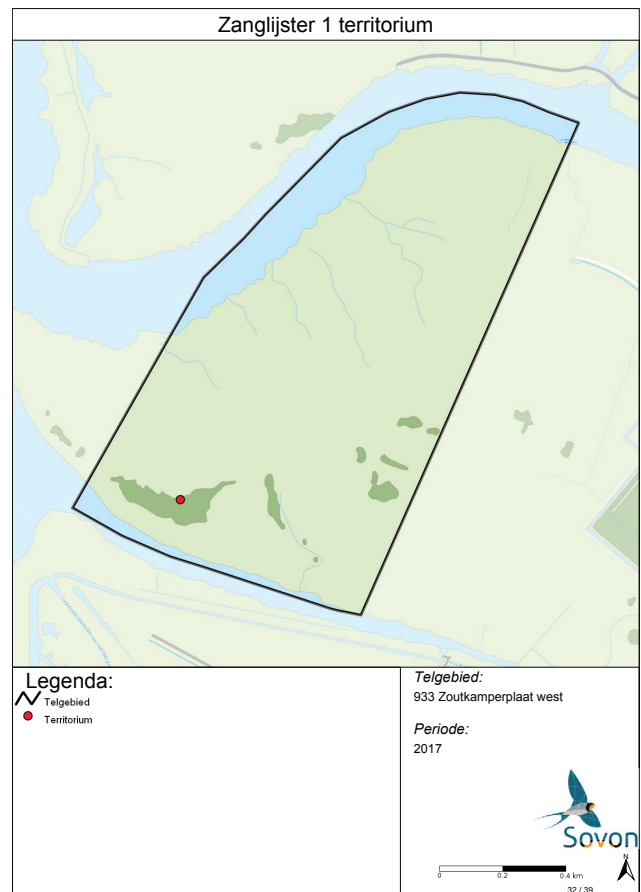
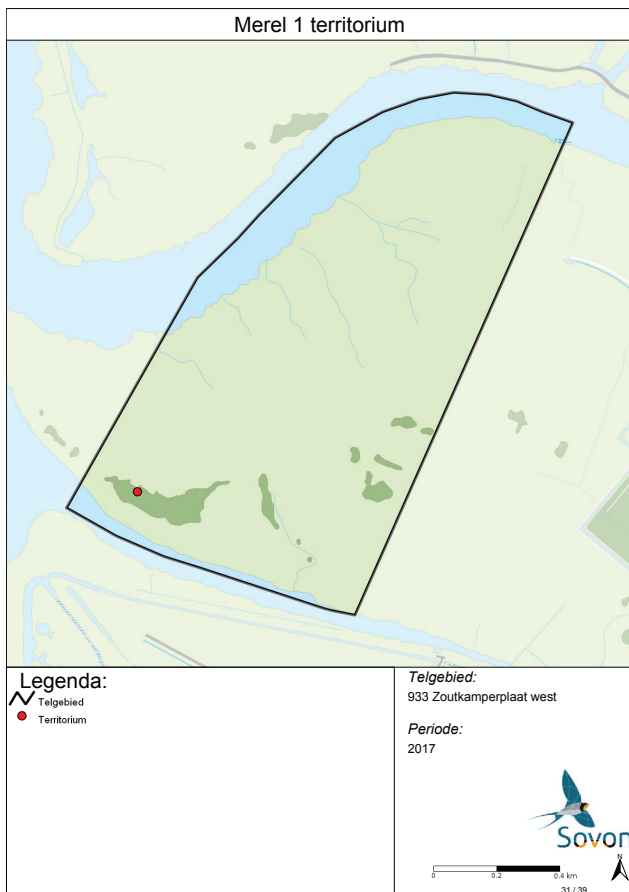
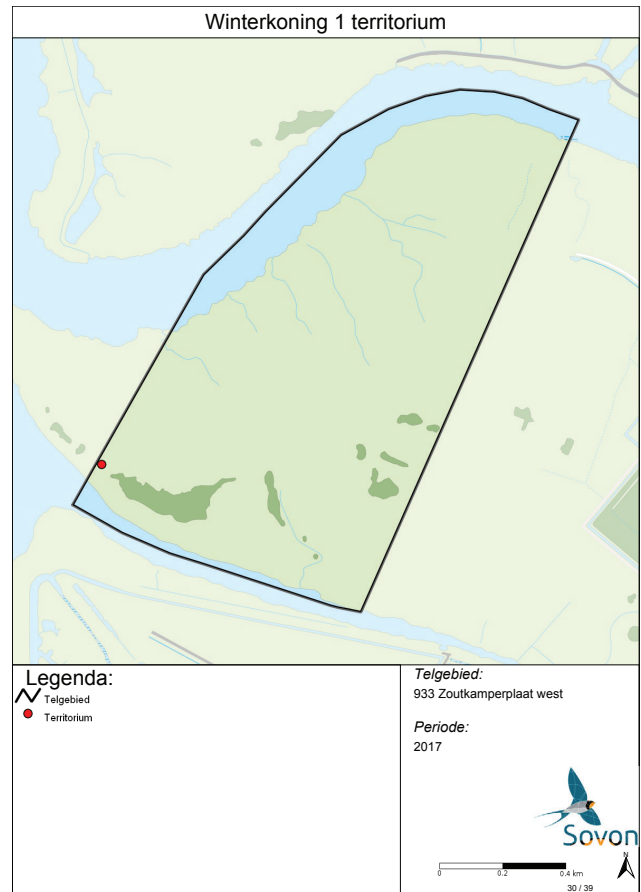
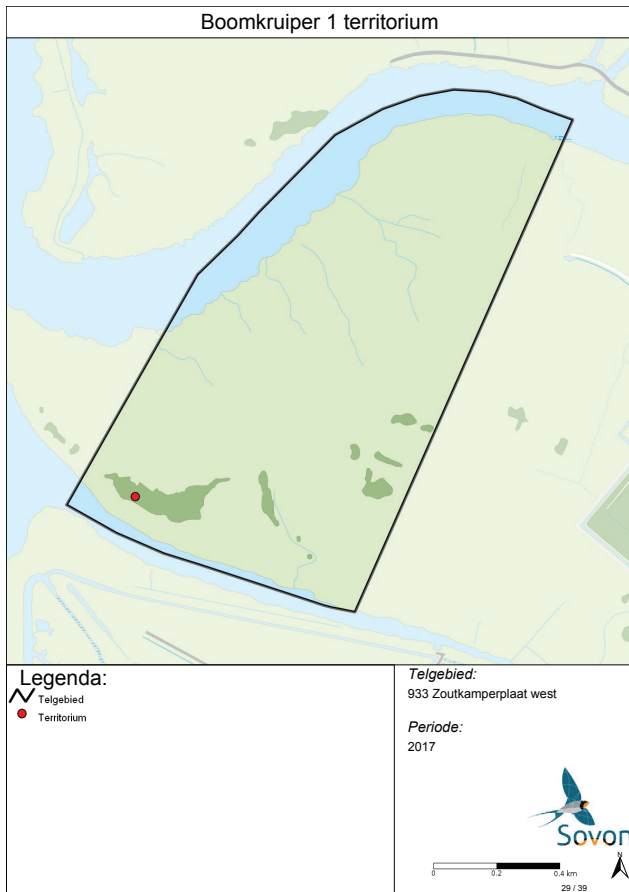


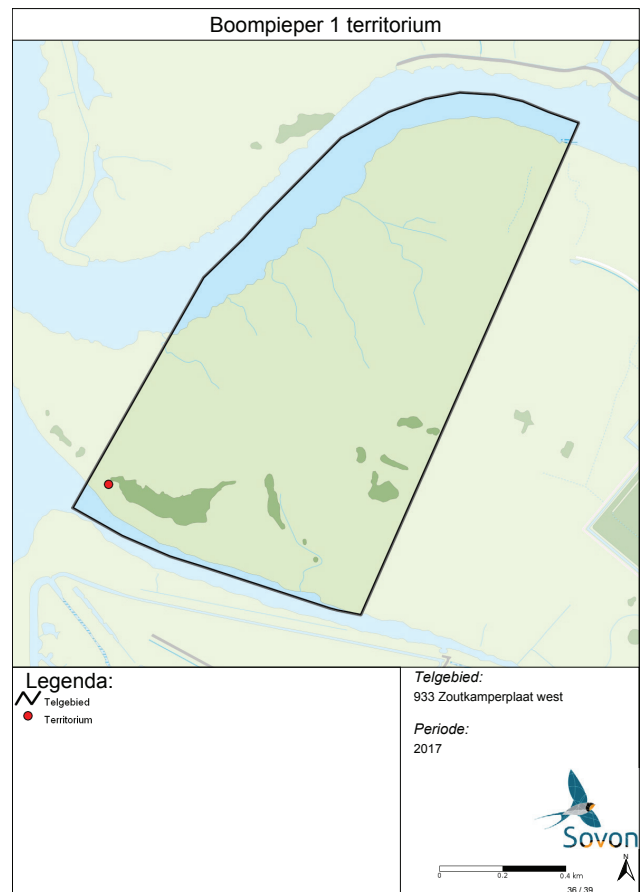
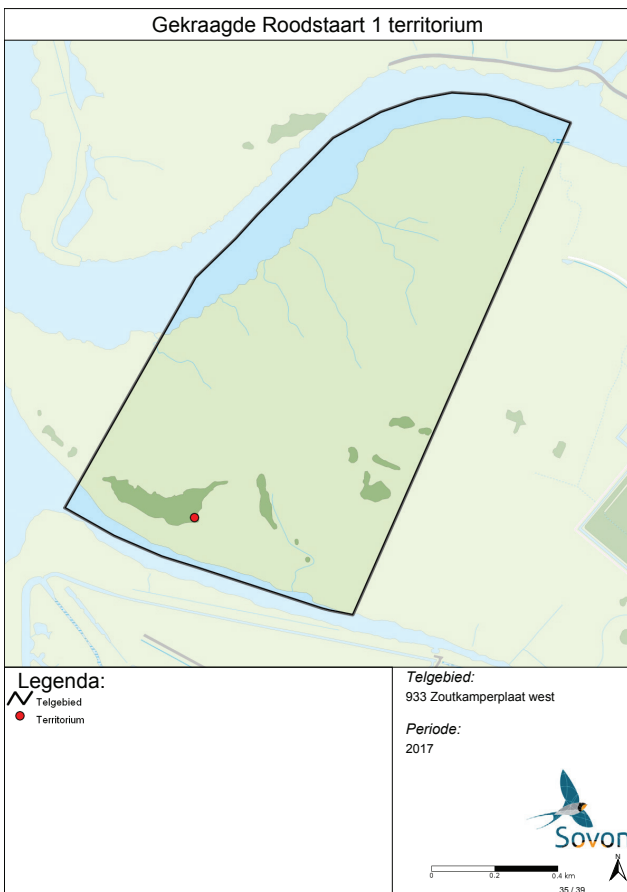
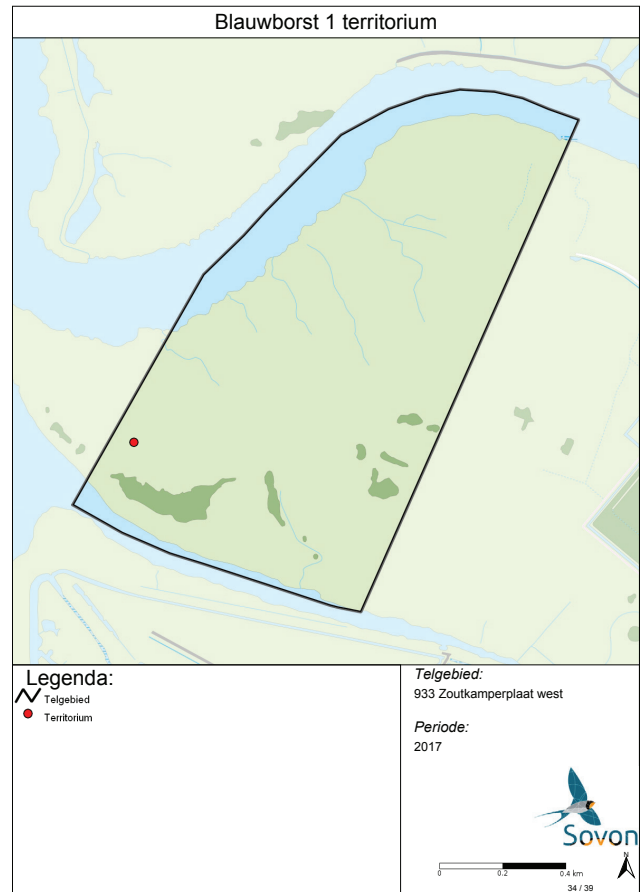
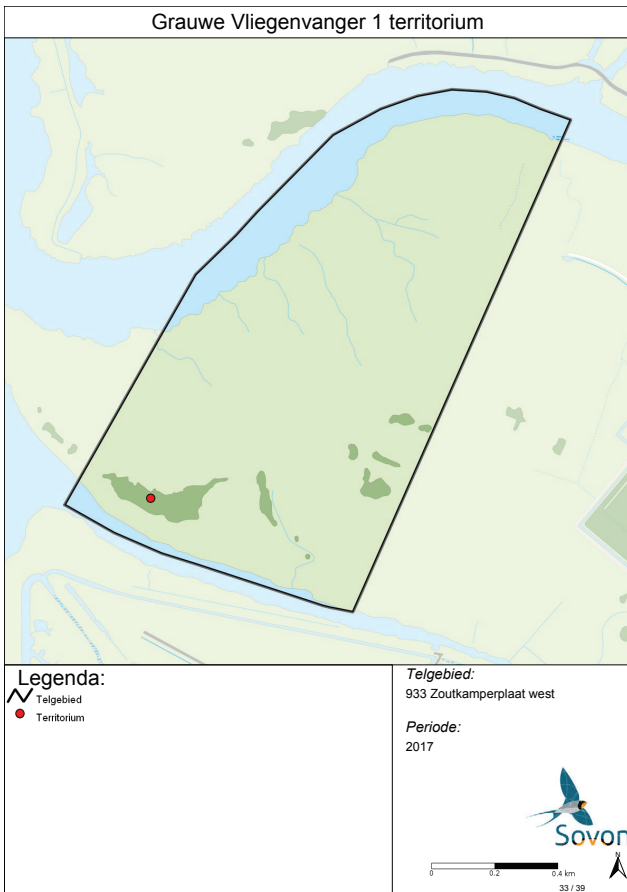


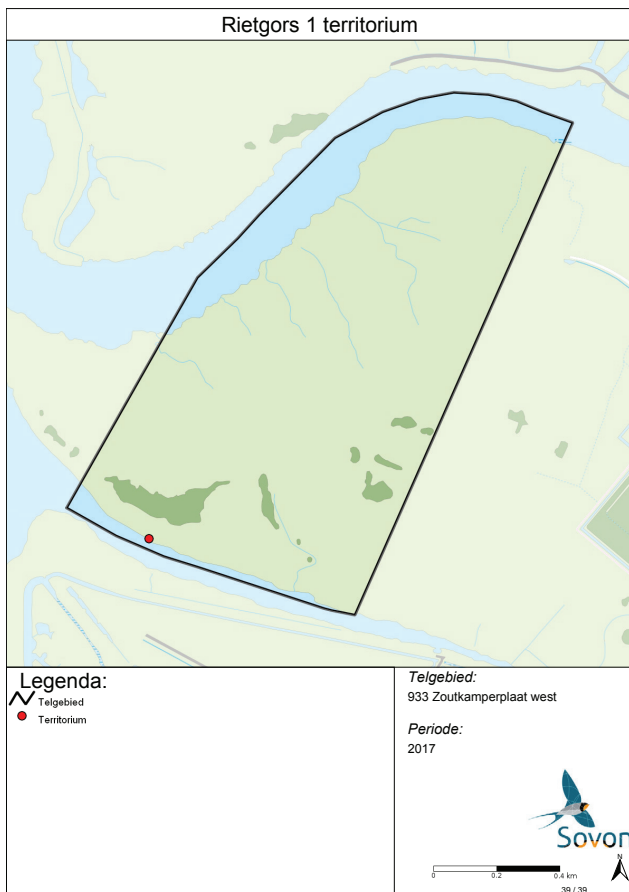
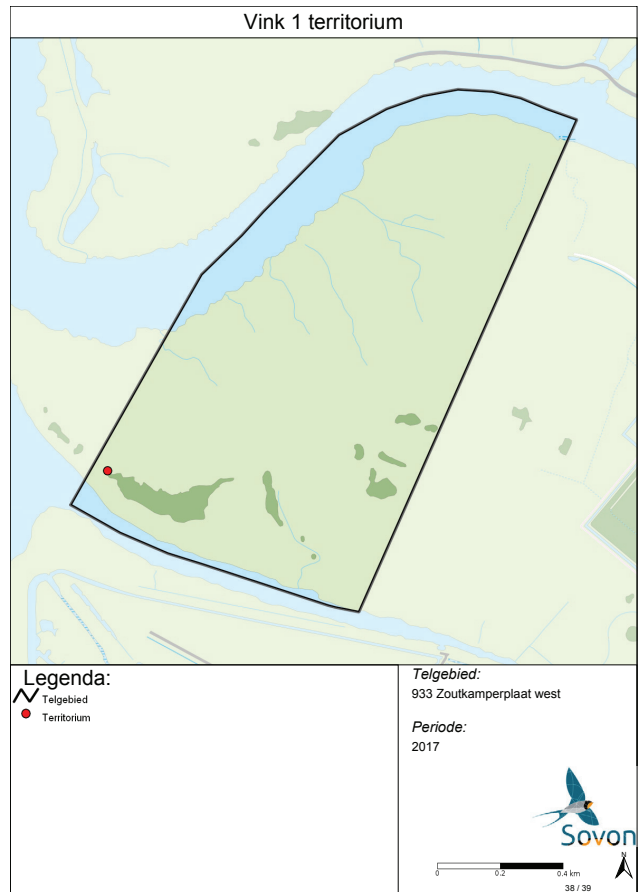
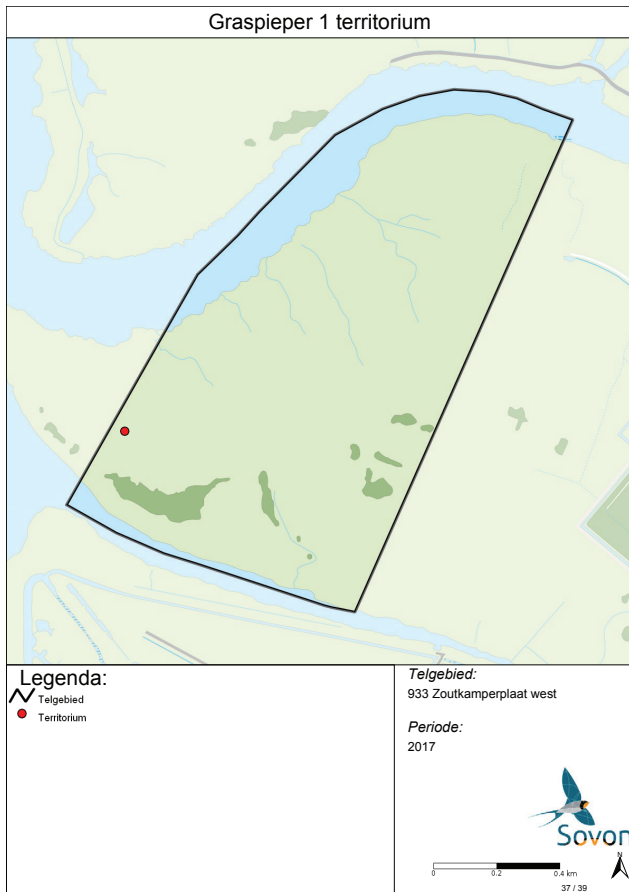




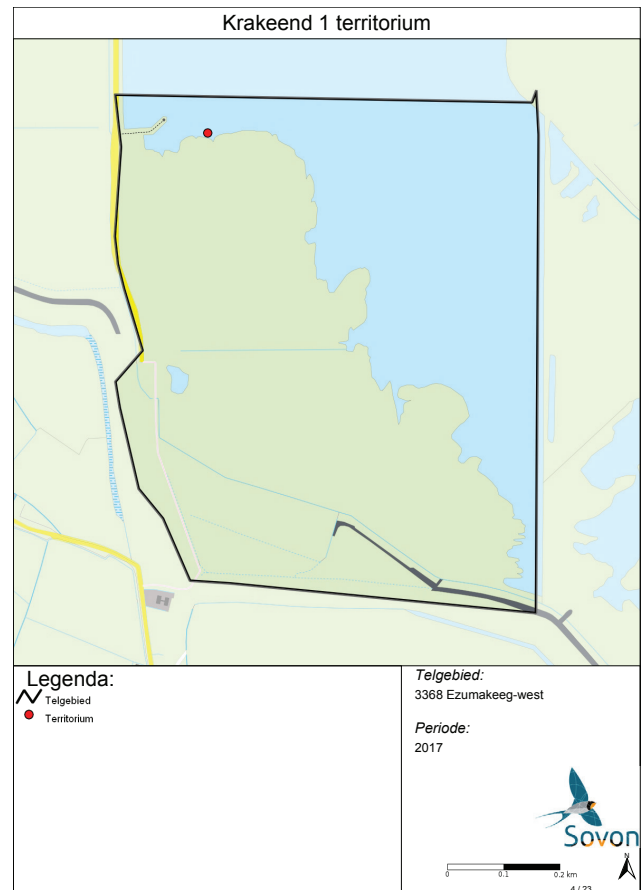
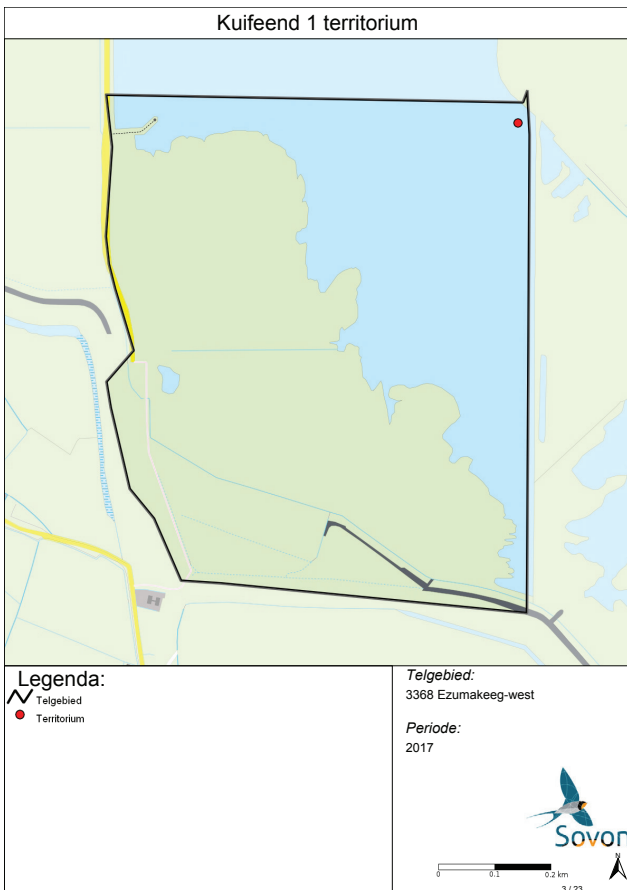
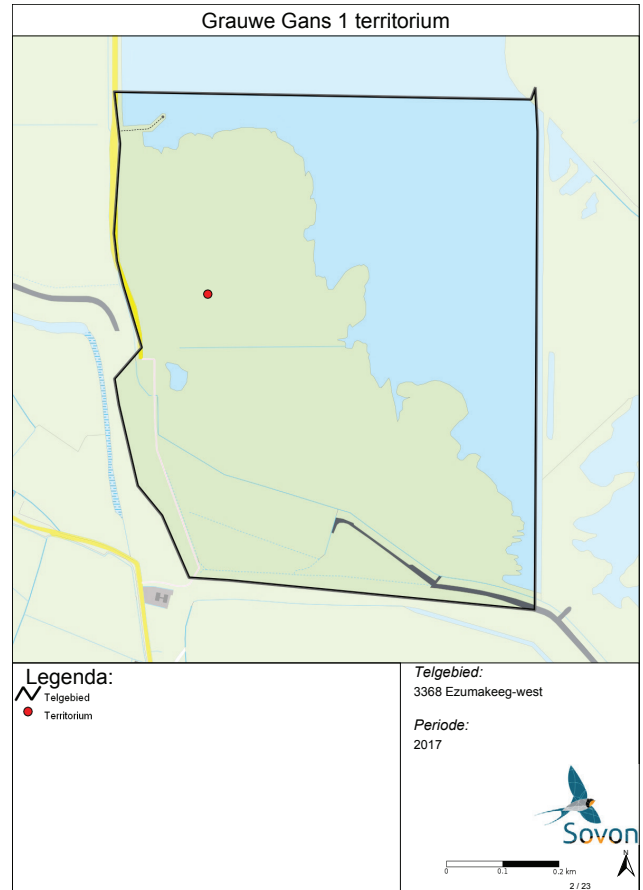
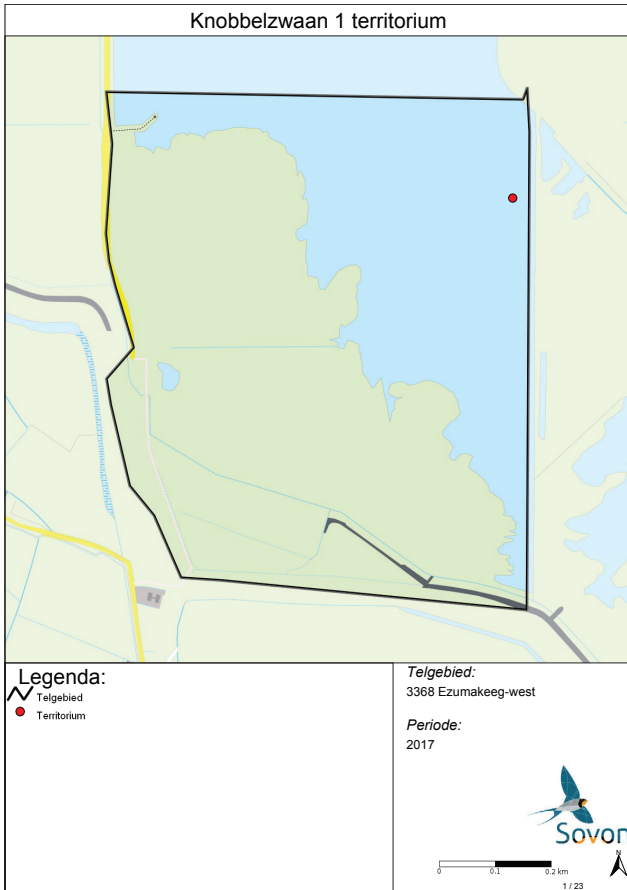


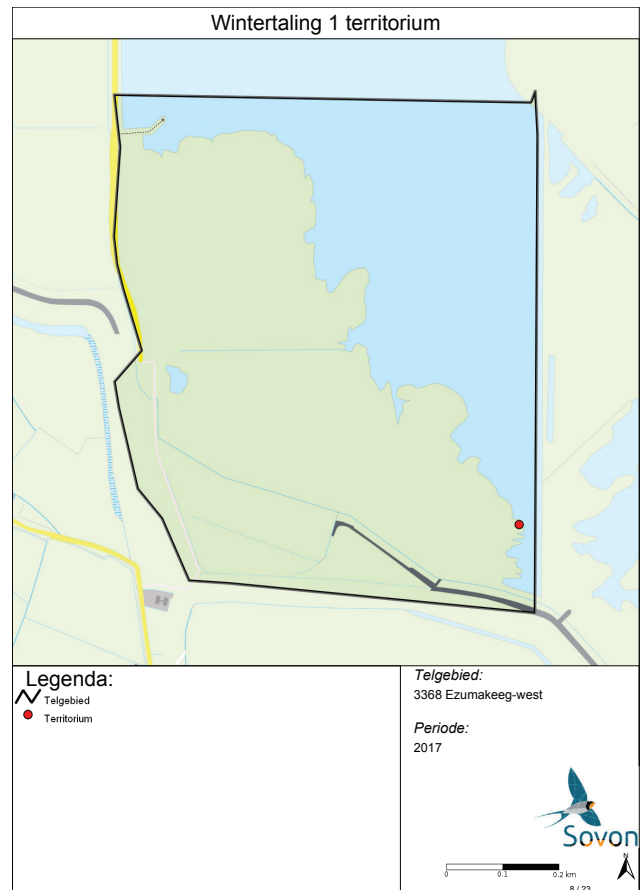
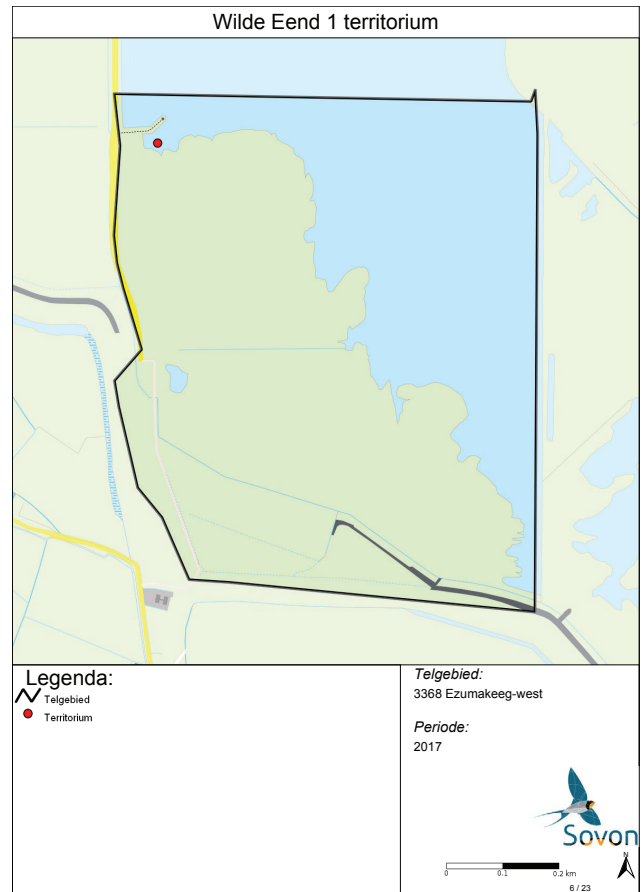
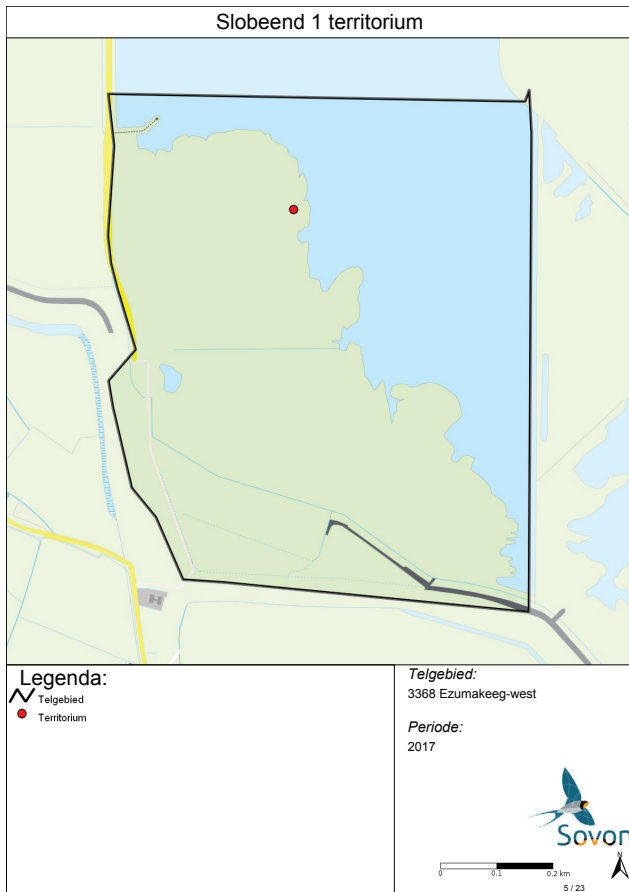


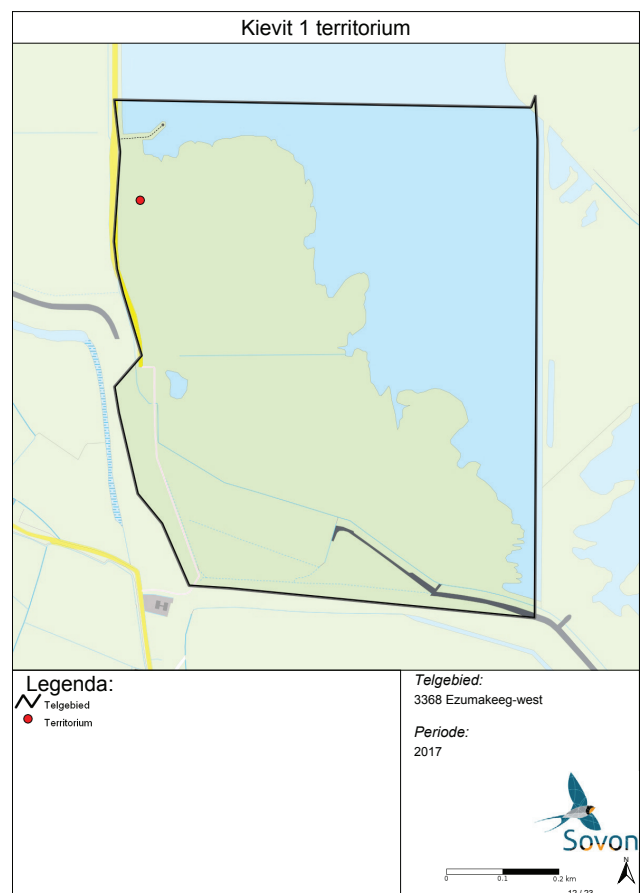
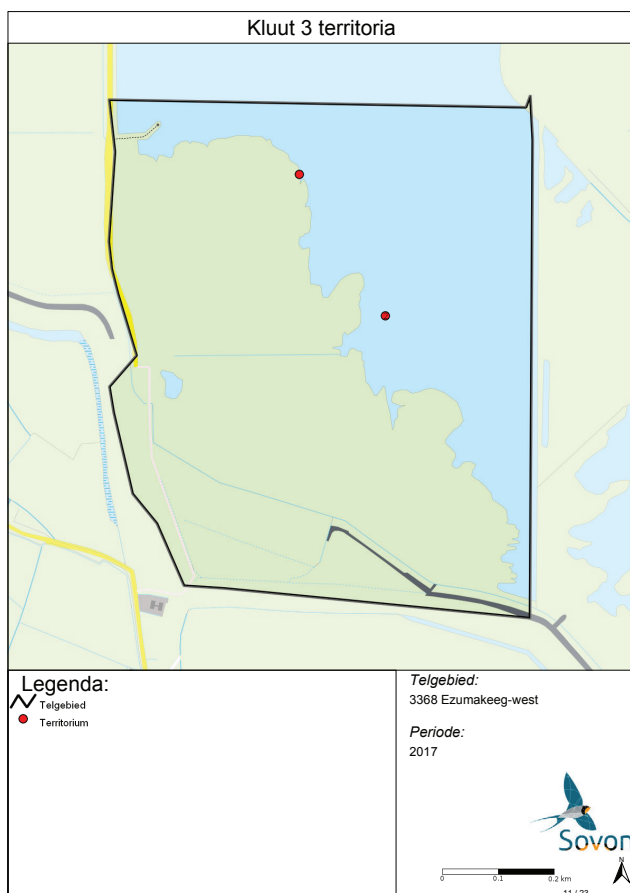
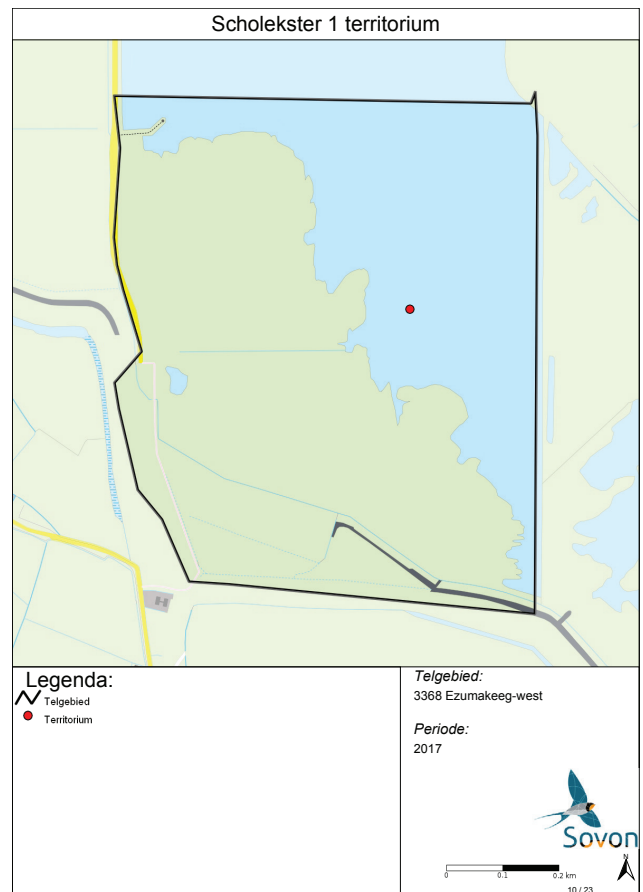
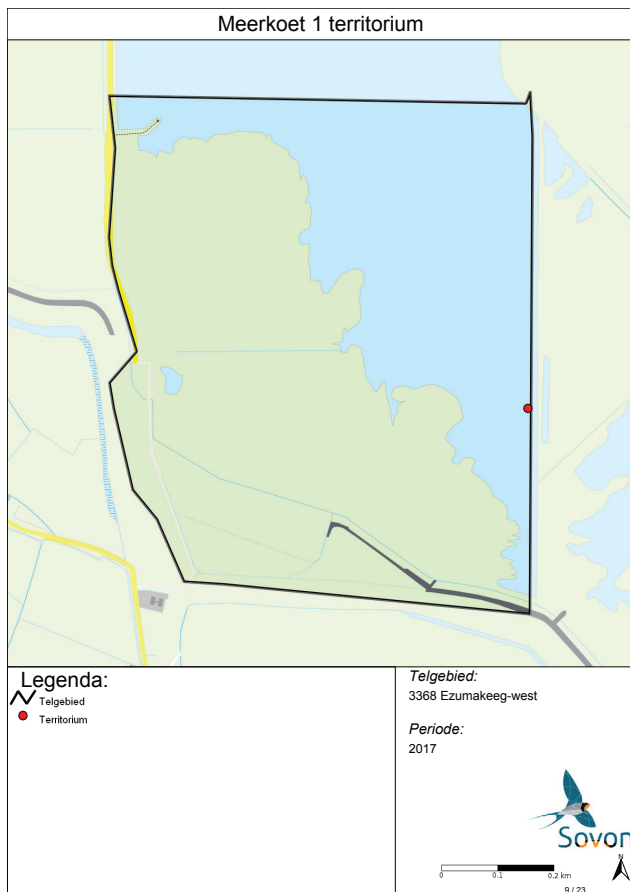


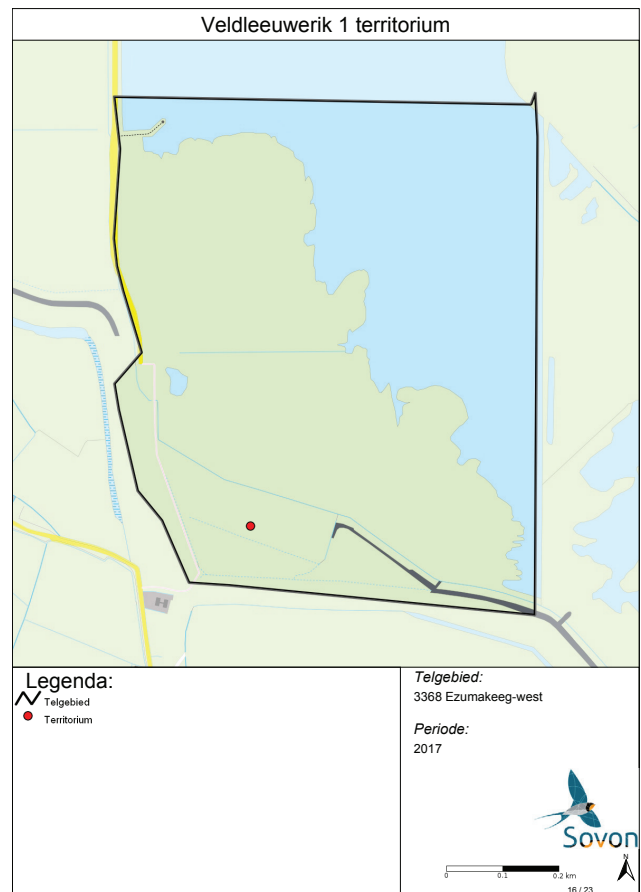
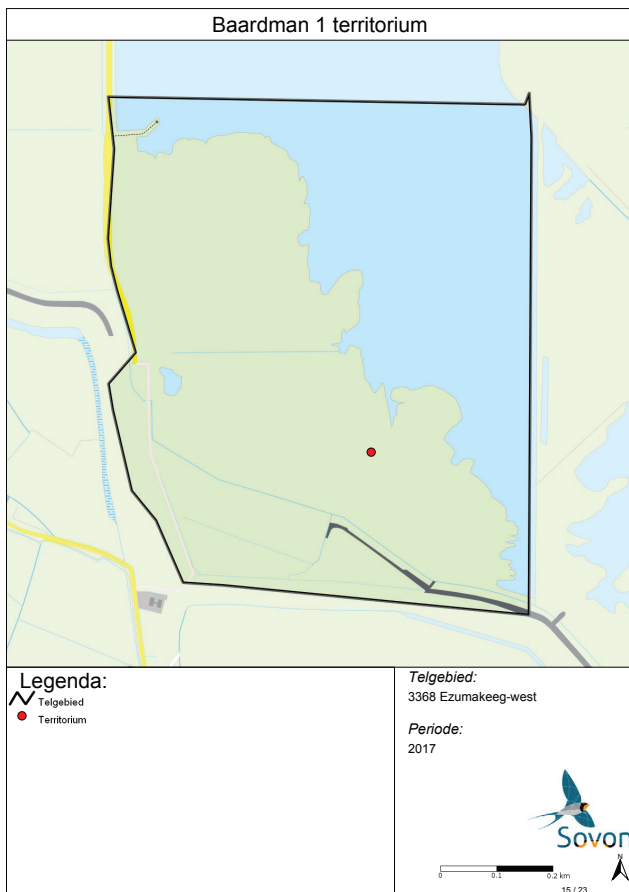
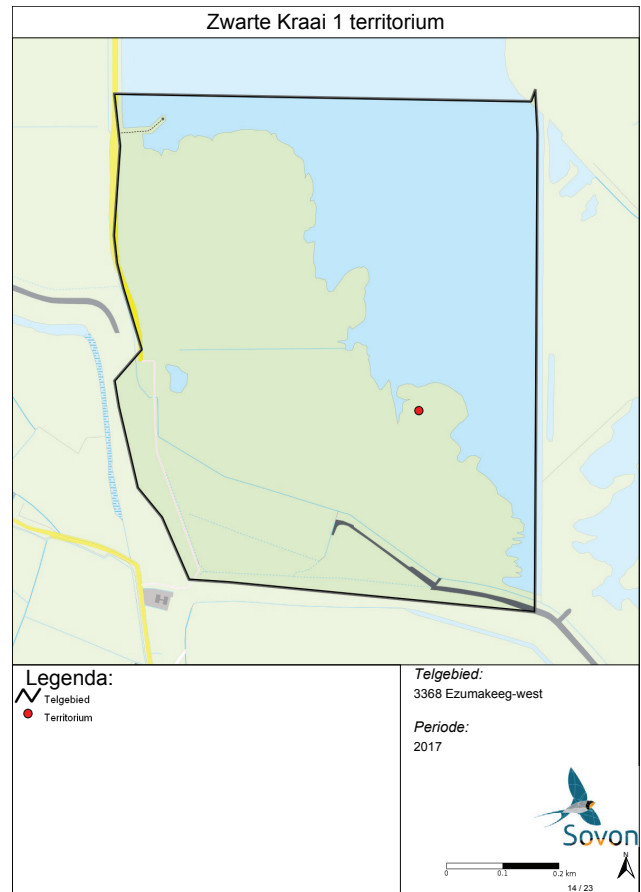
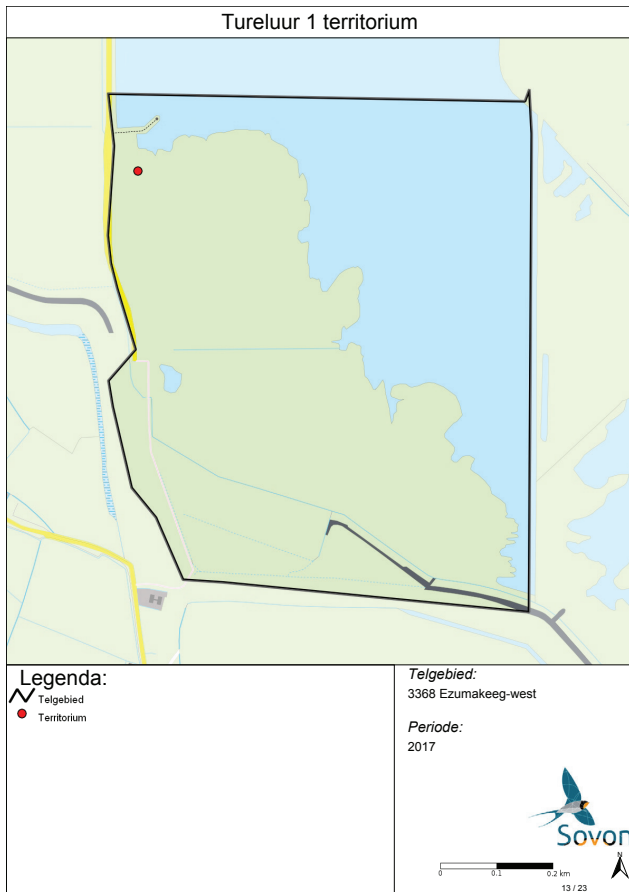


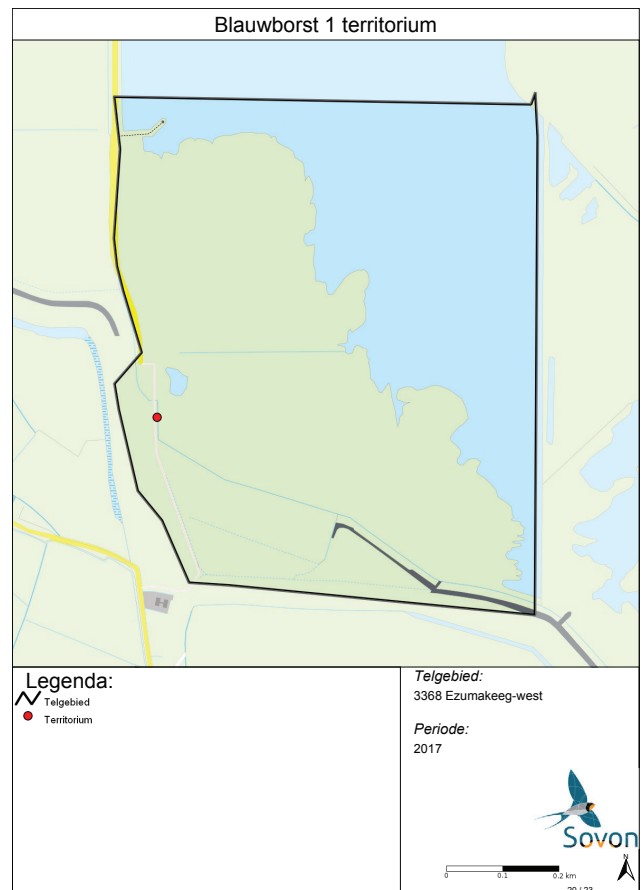
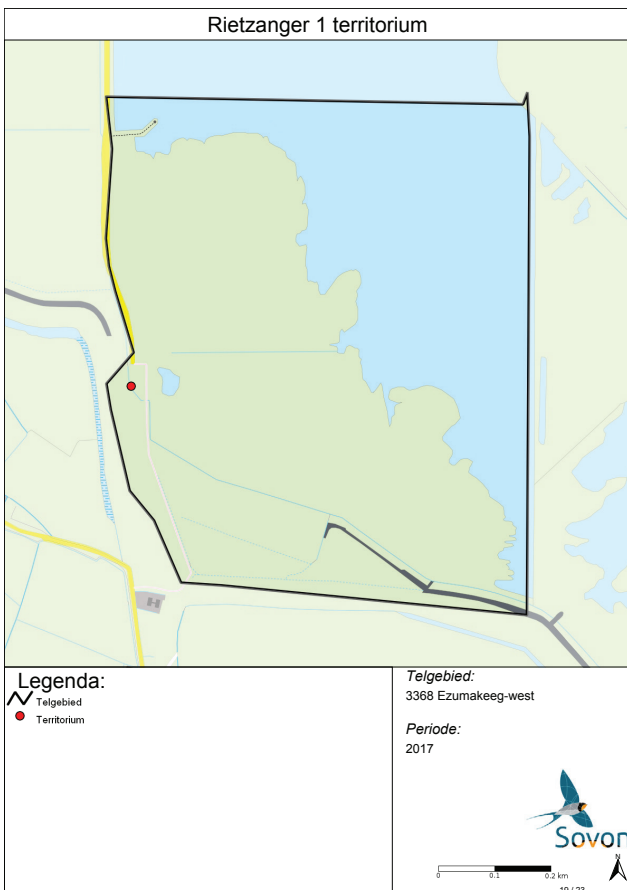
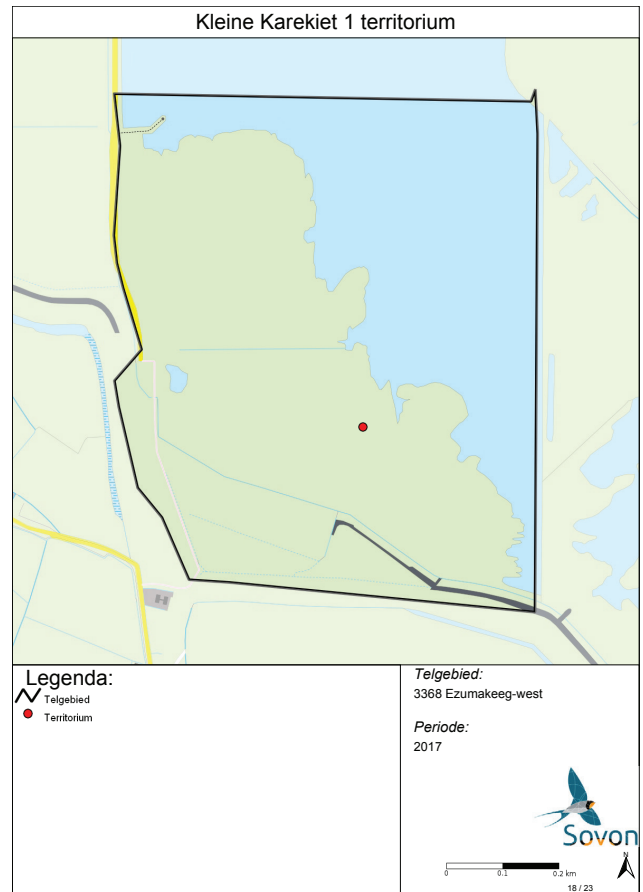
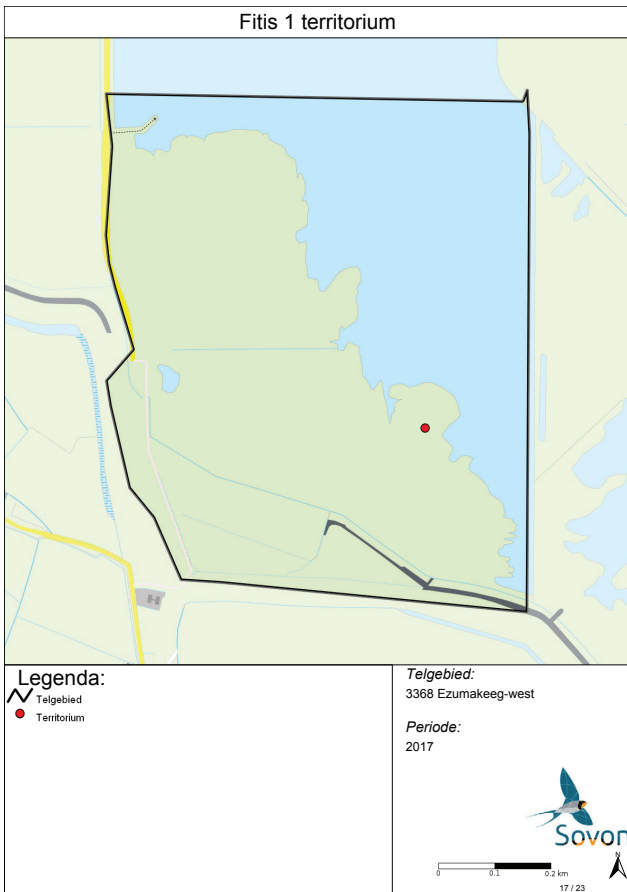
Bijlage 19f. Ezumakeeg west 2017

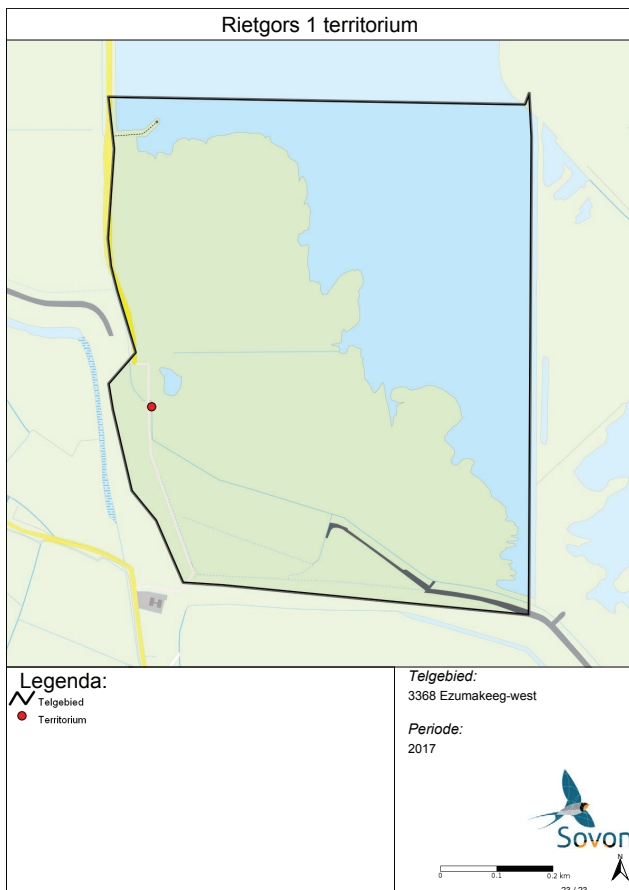
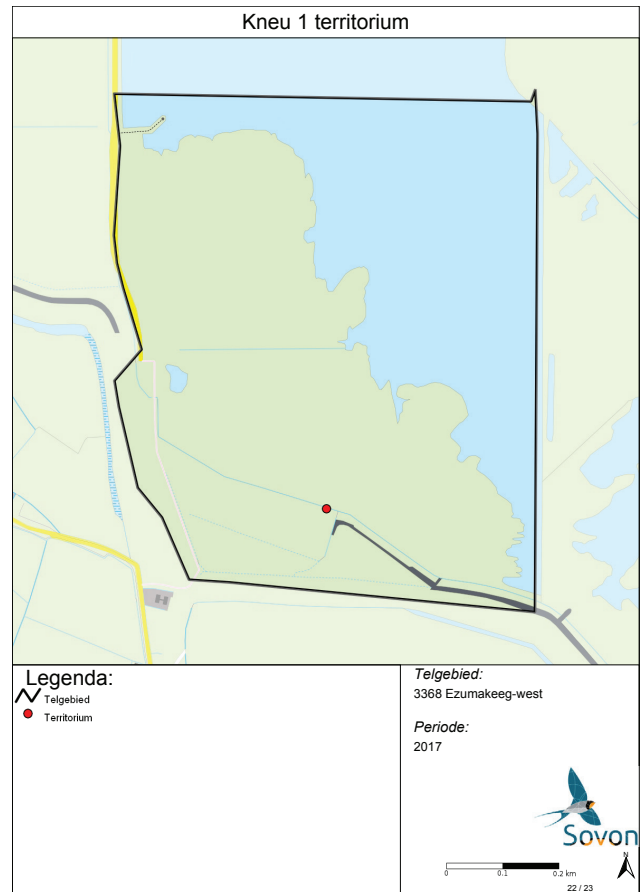
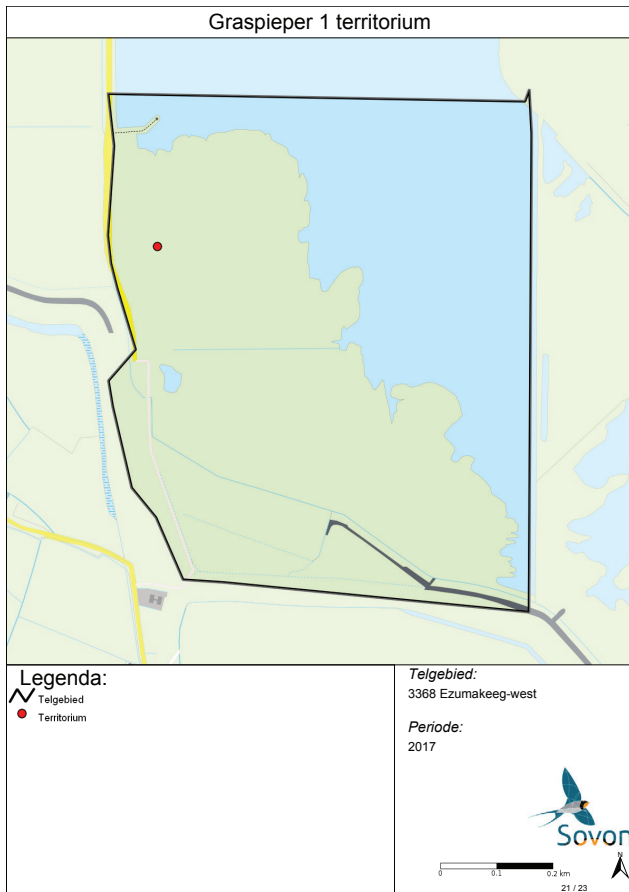




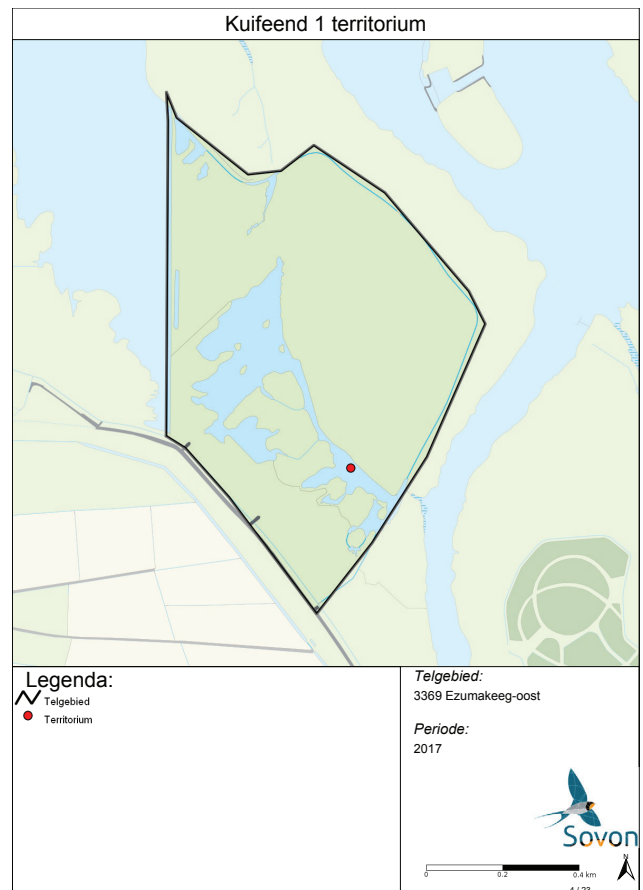
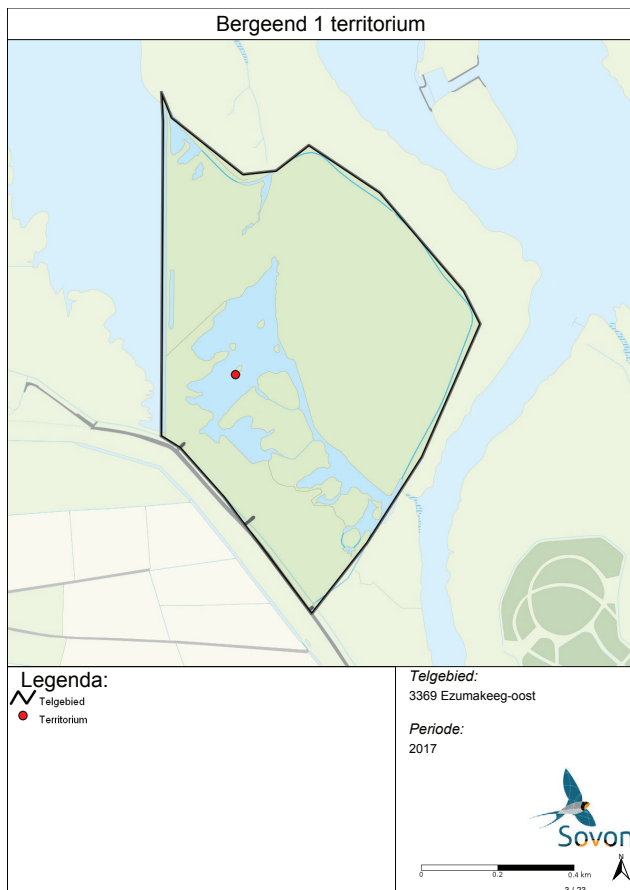
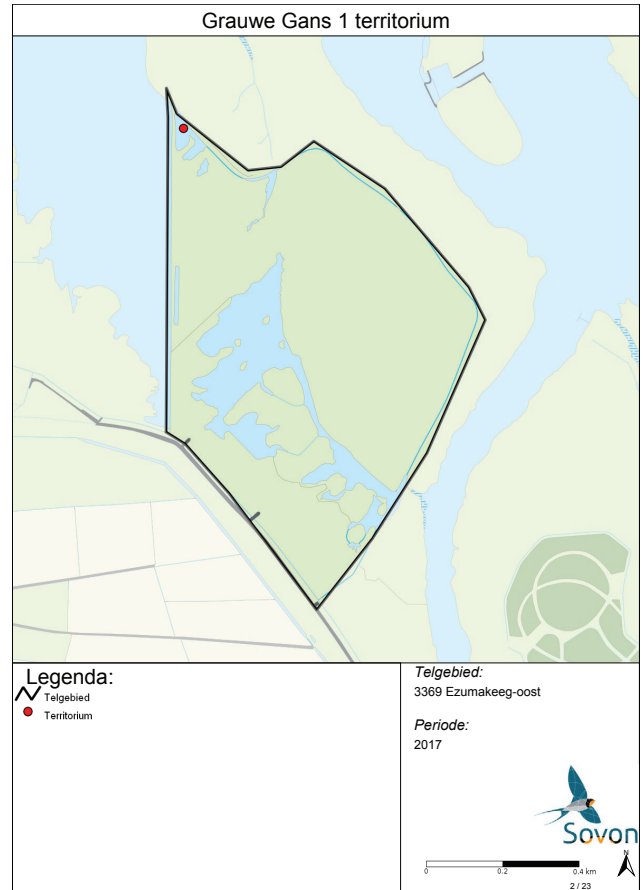
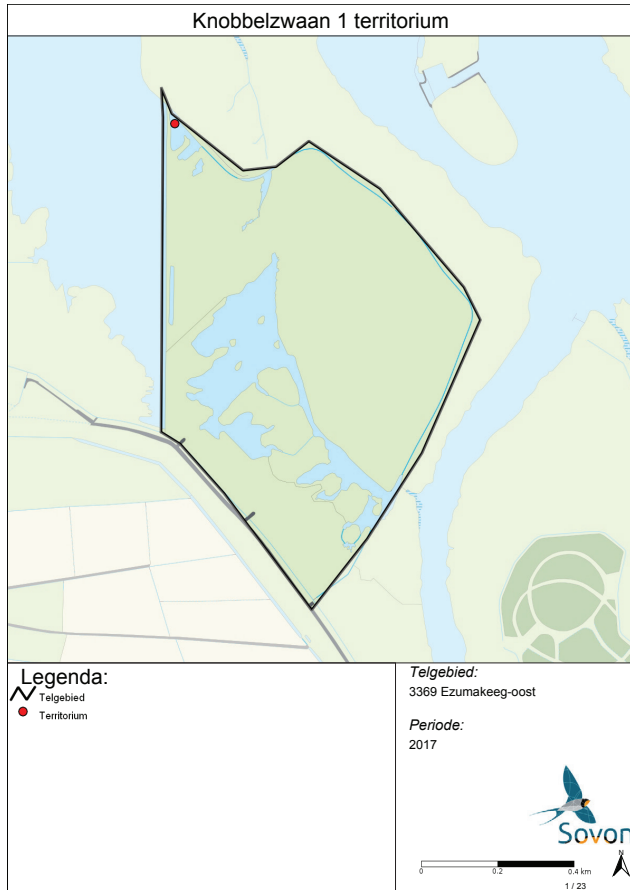


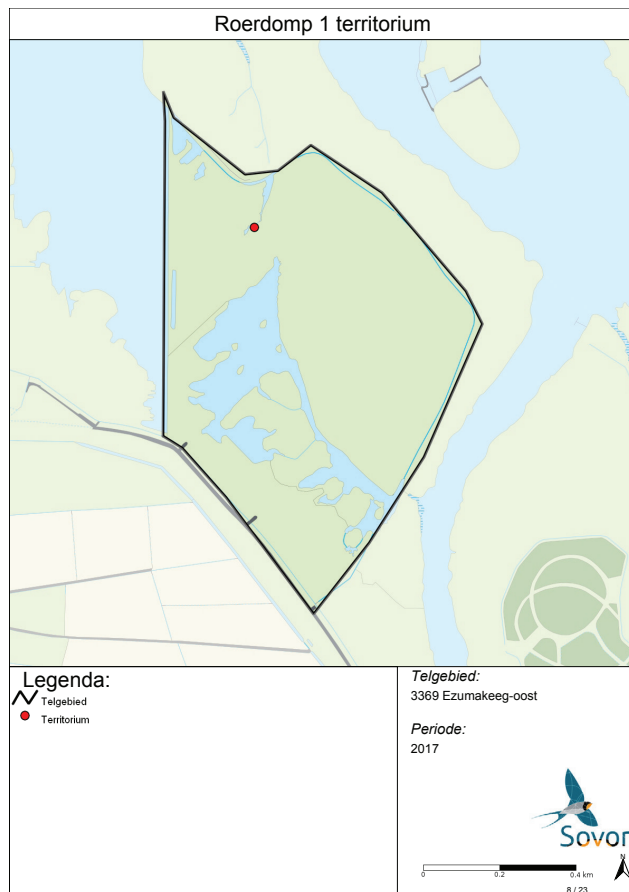
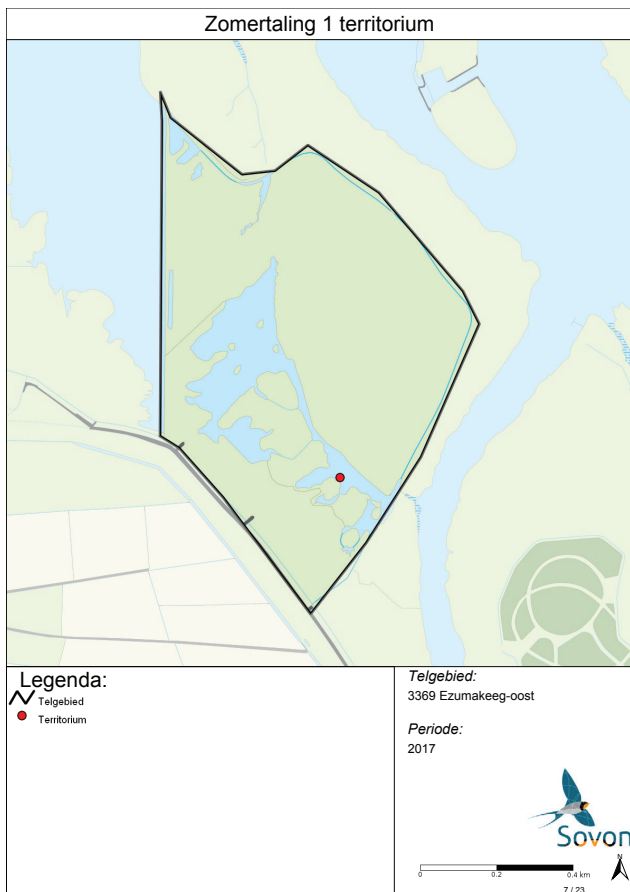
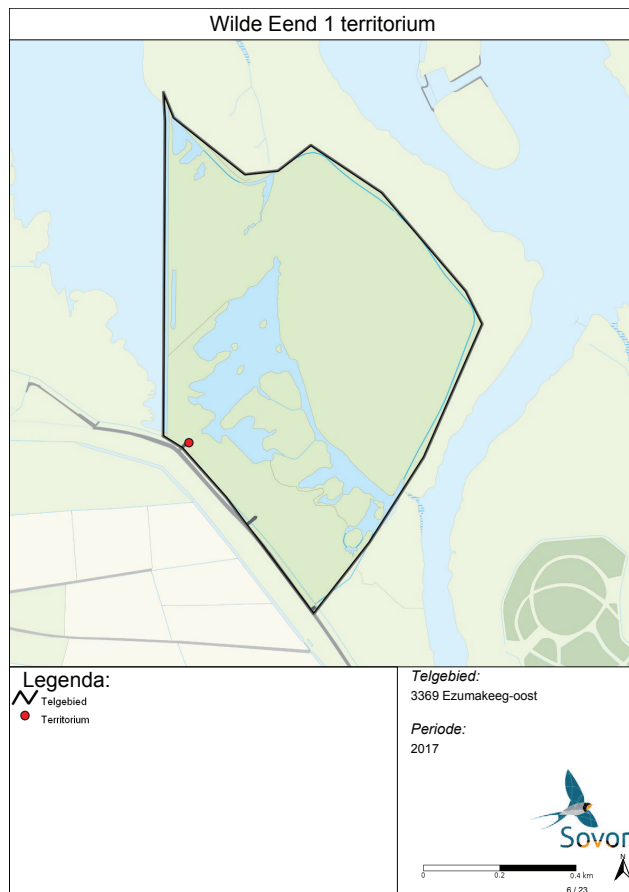
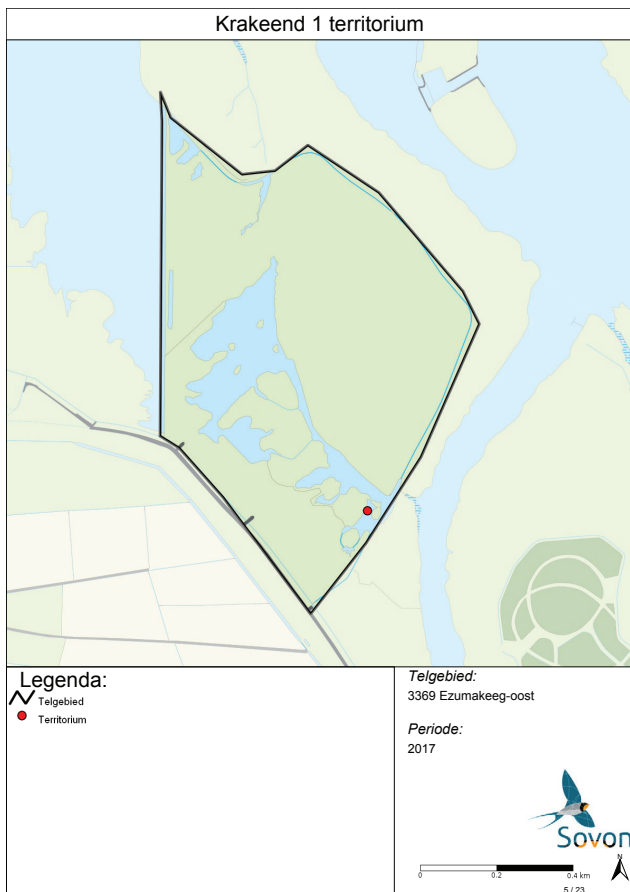


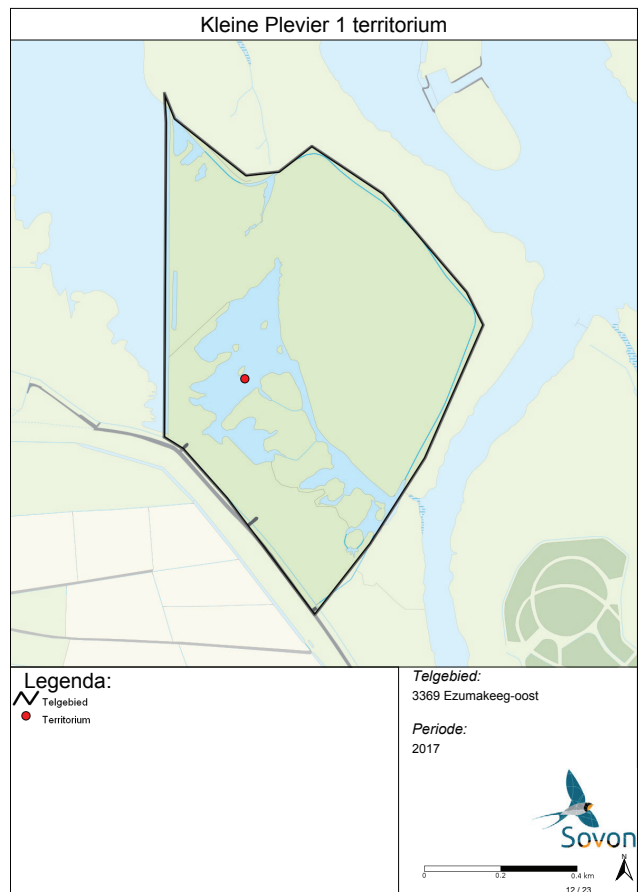
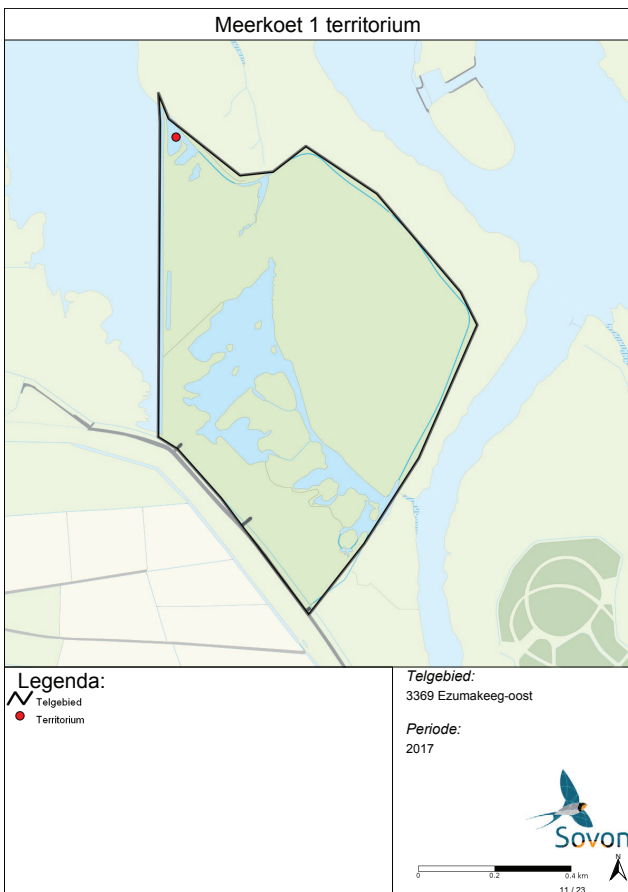
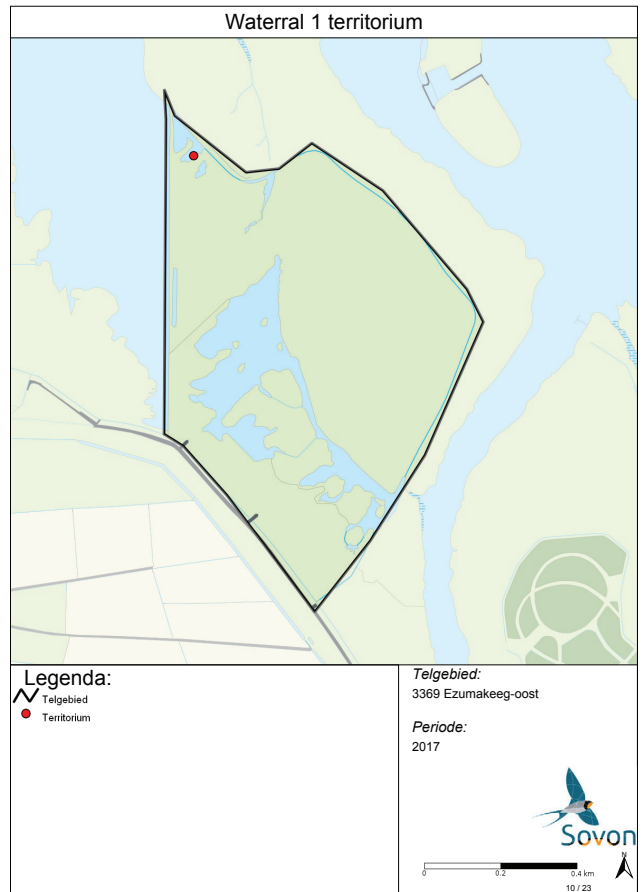
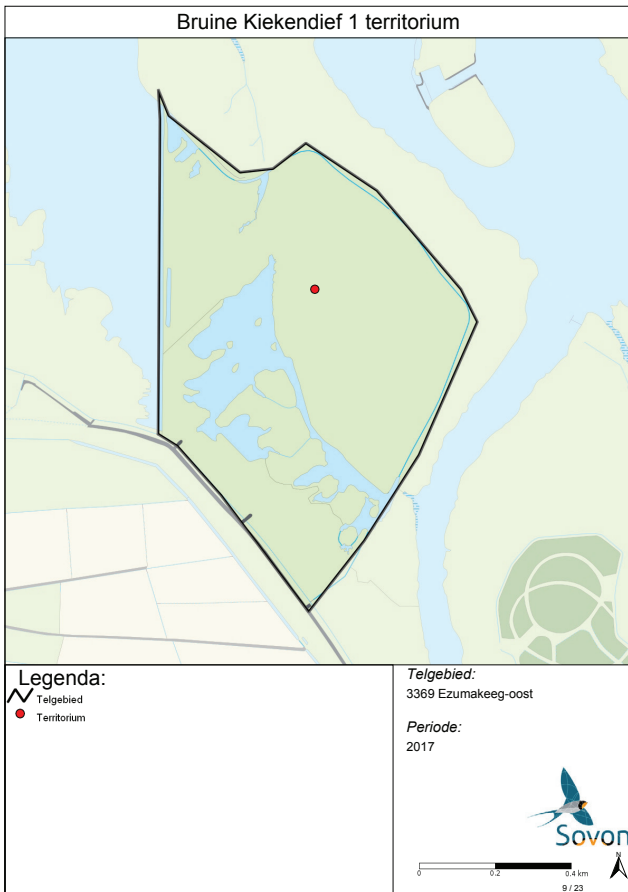


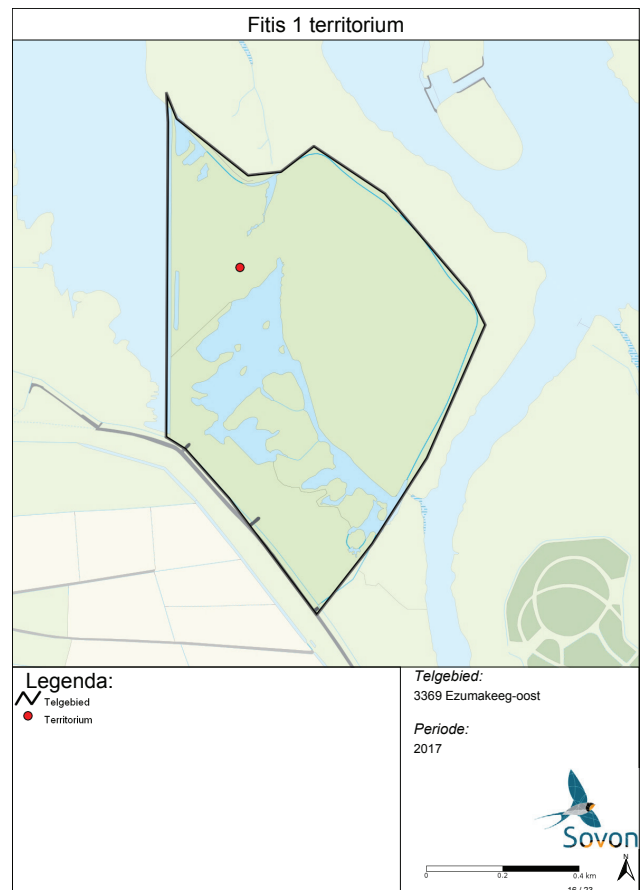
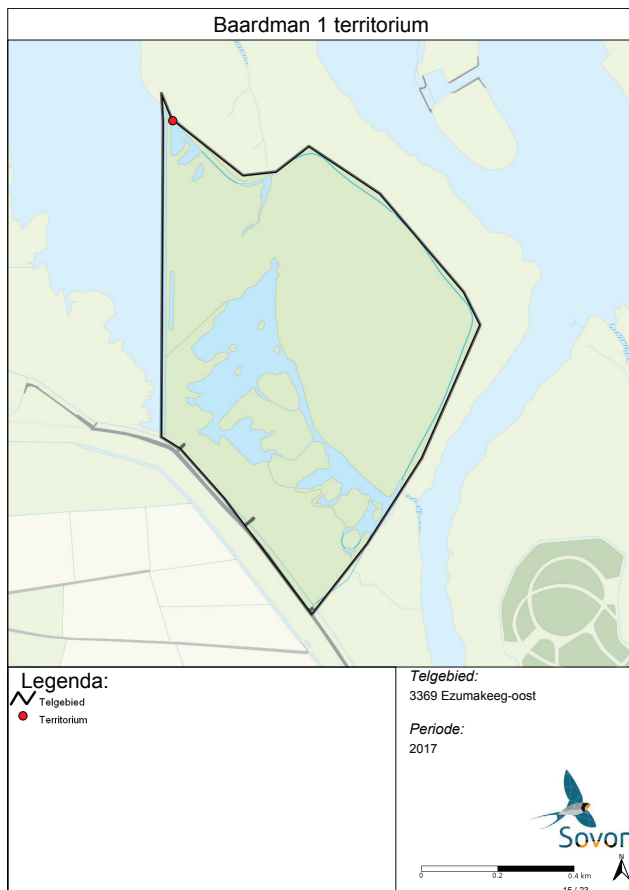
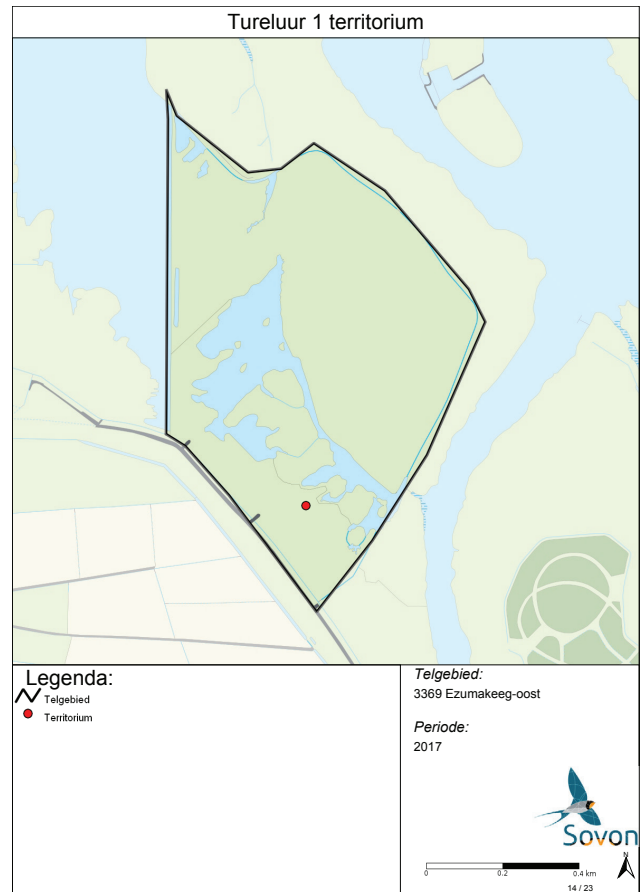
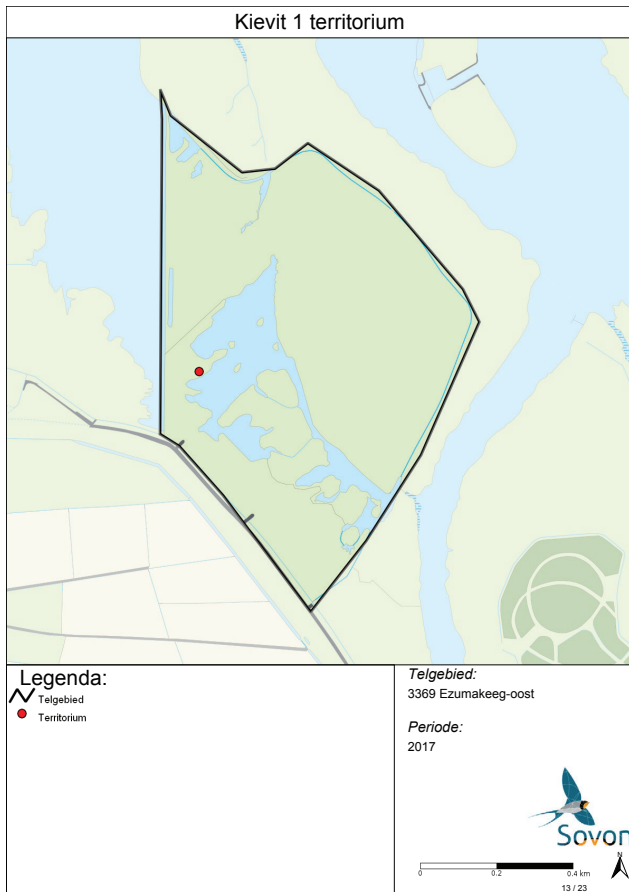


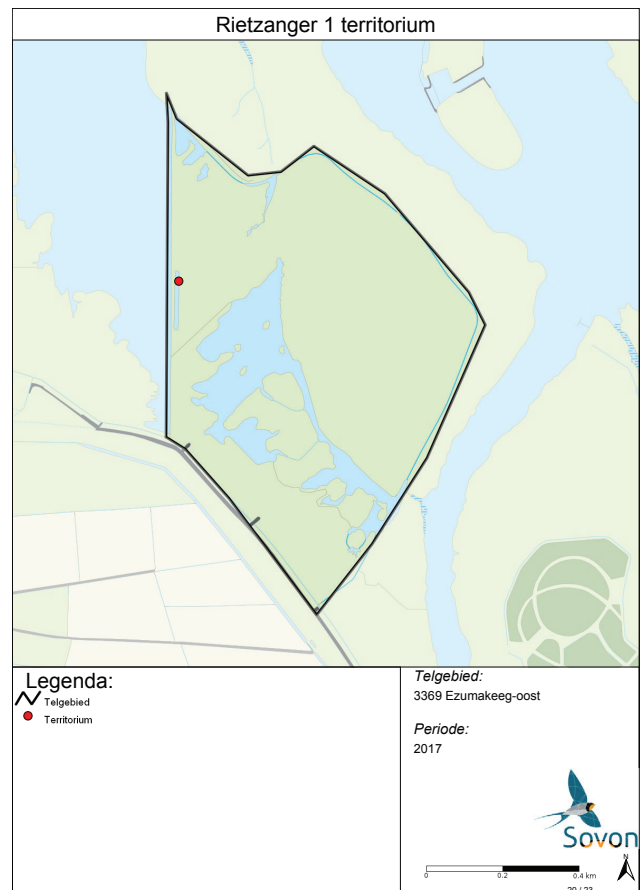
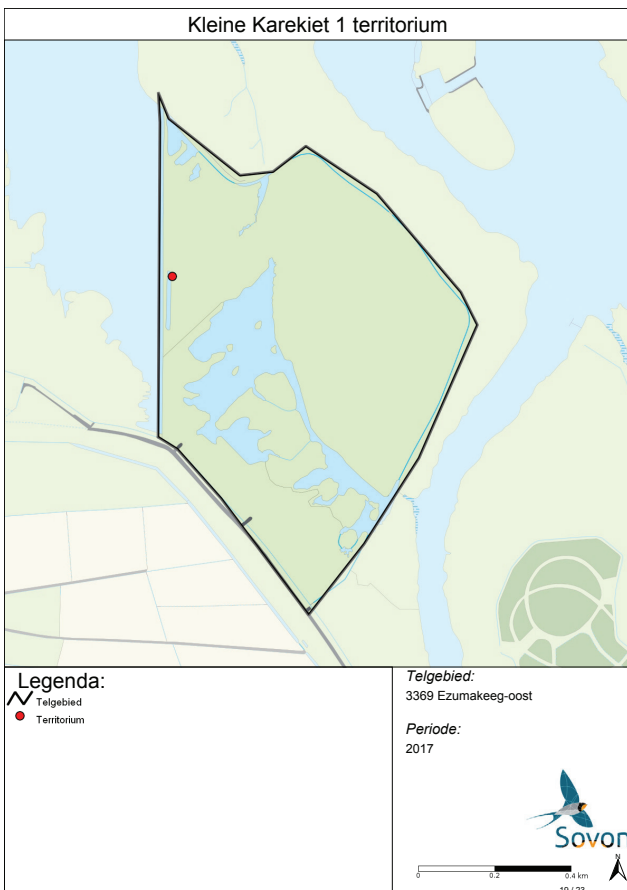
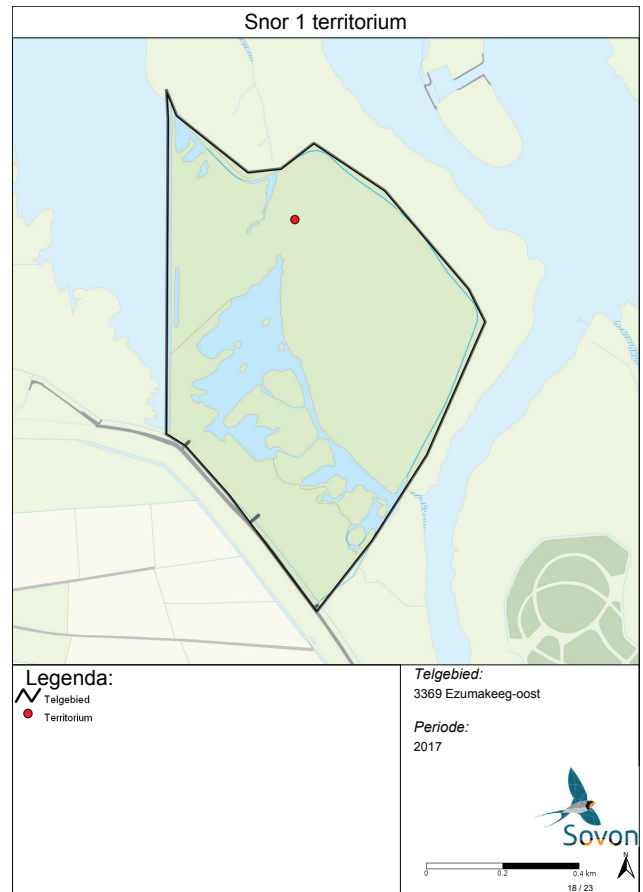
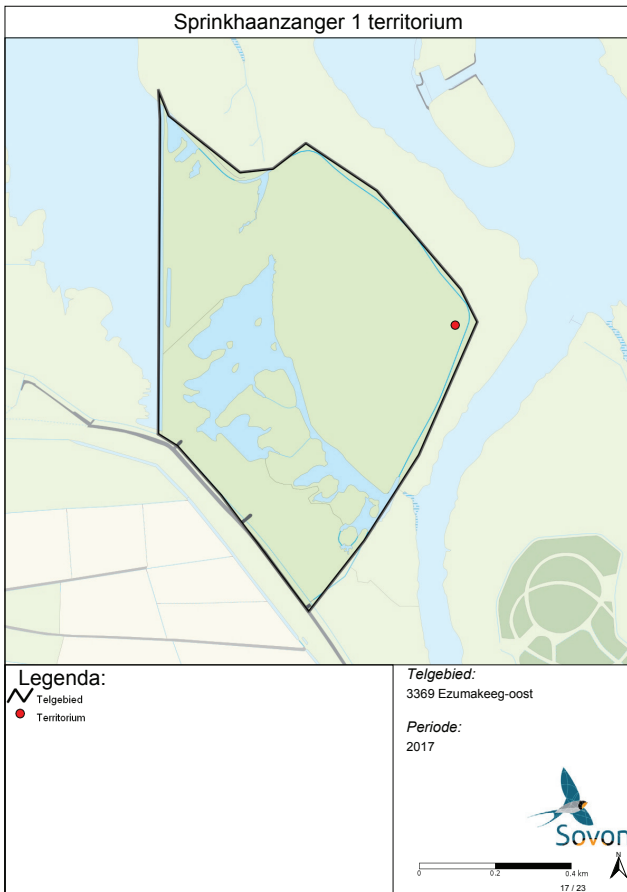
Bijlage 19g. Ezumakeeg oost 2017

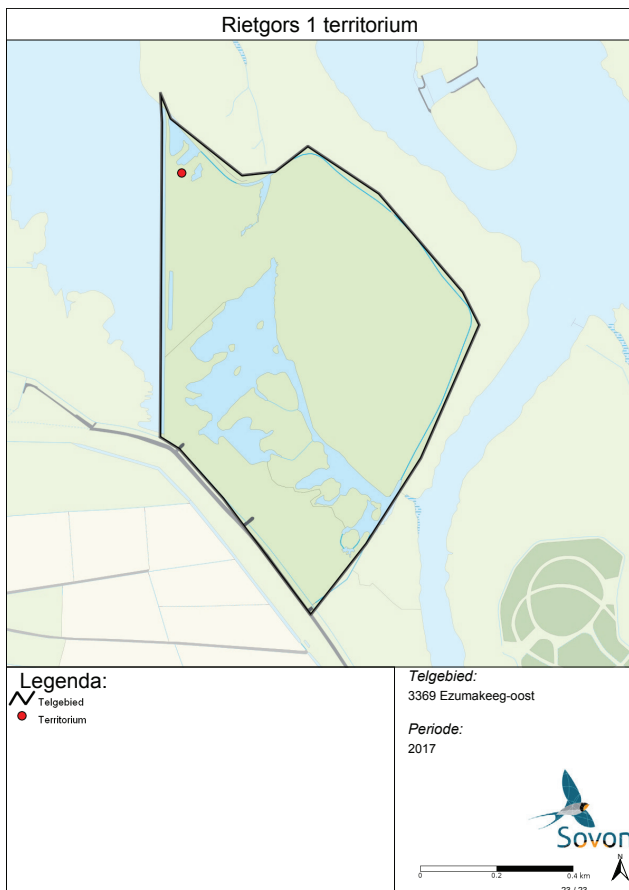
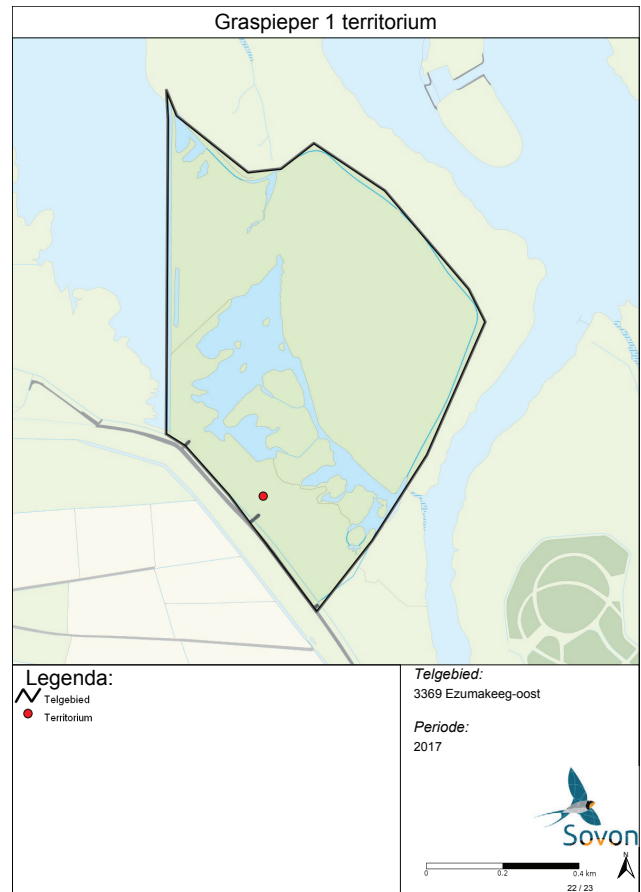
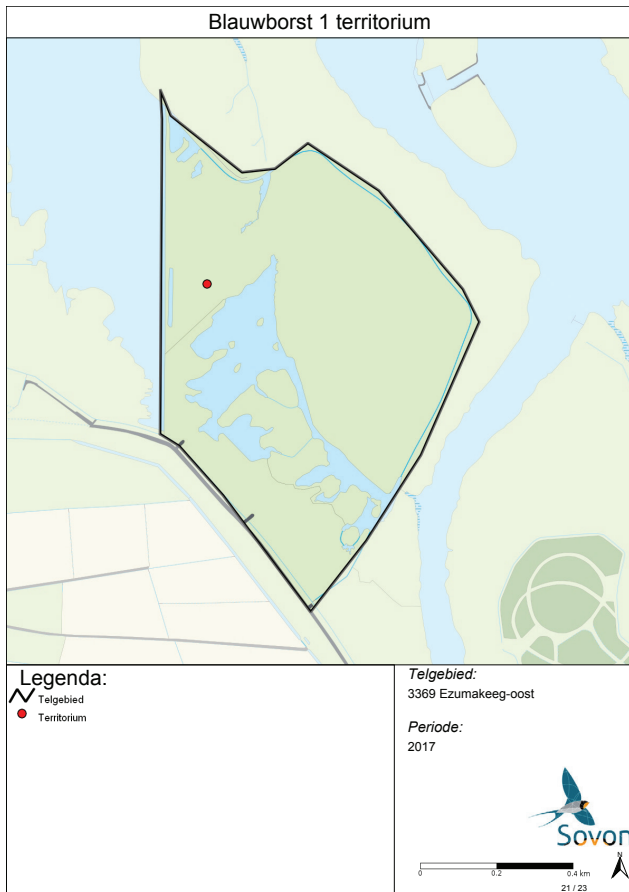




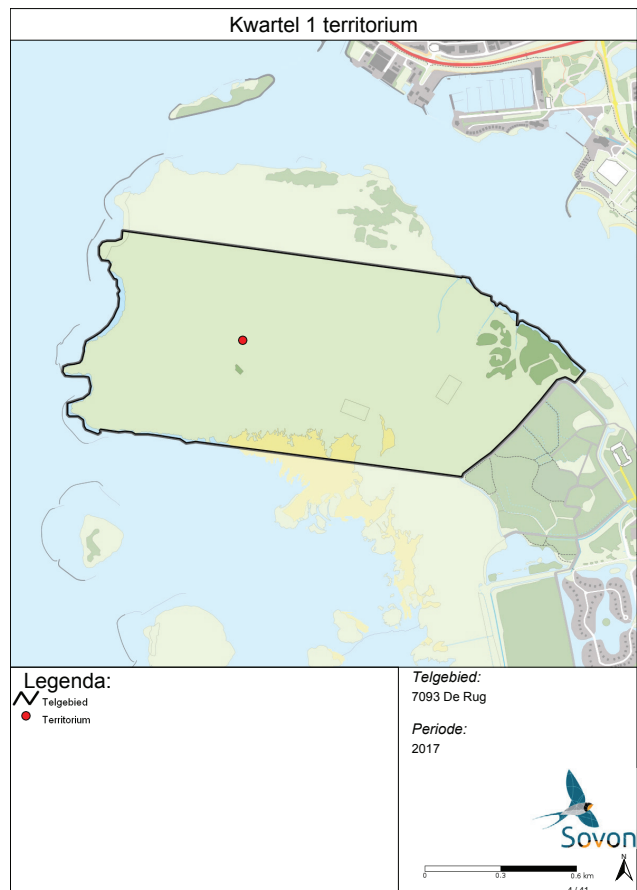
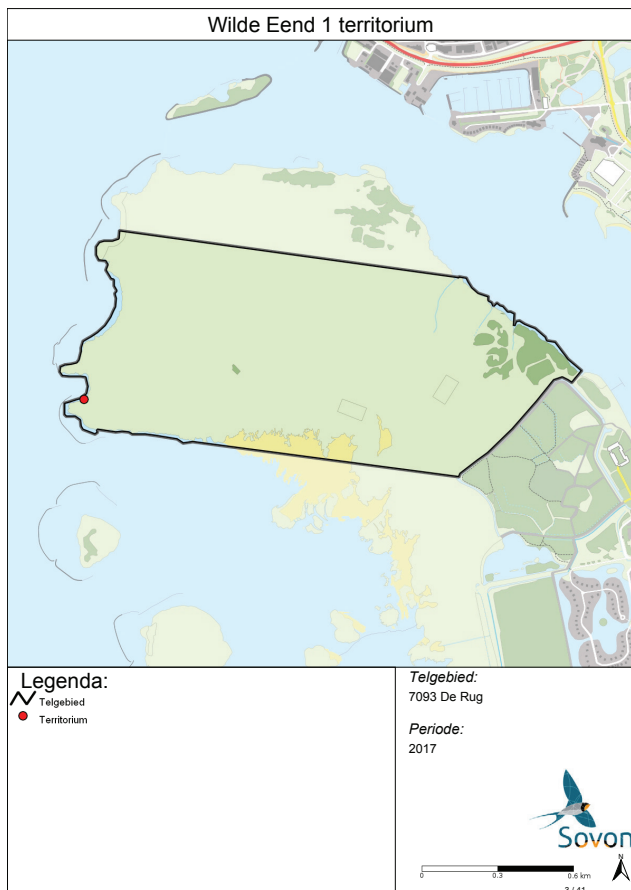
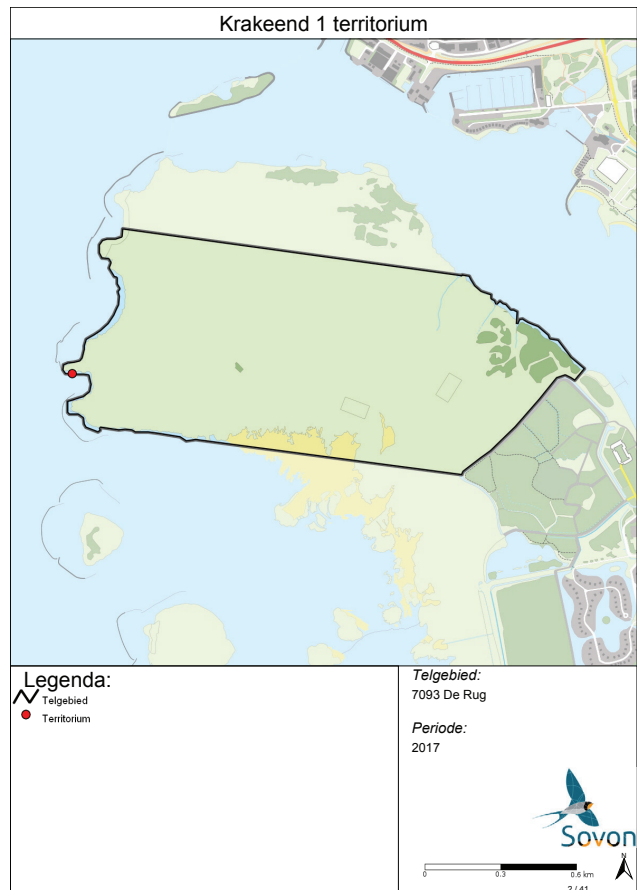
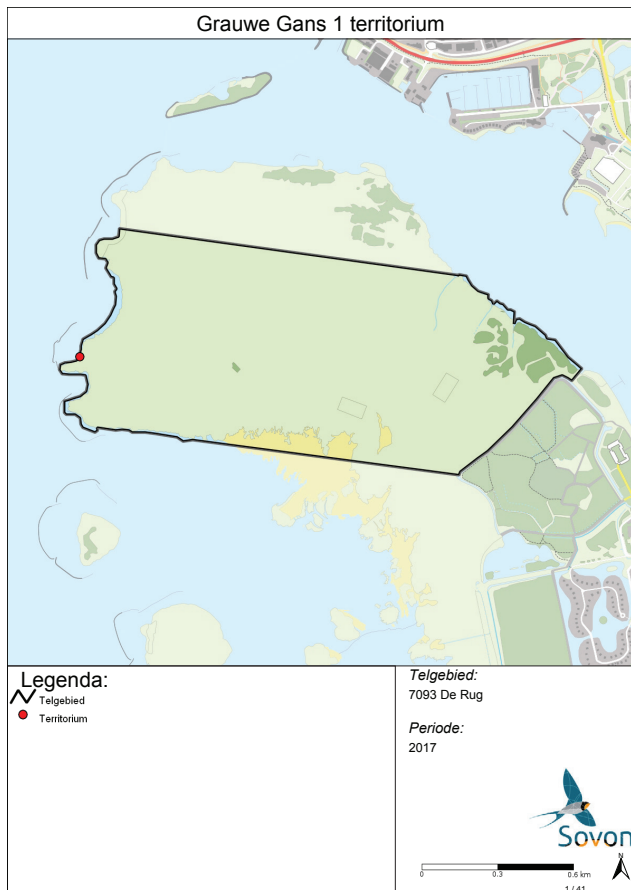


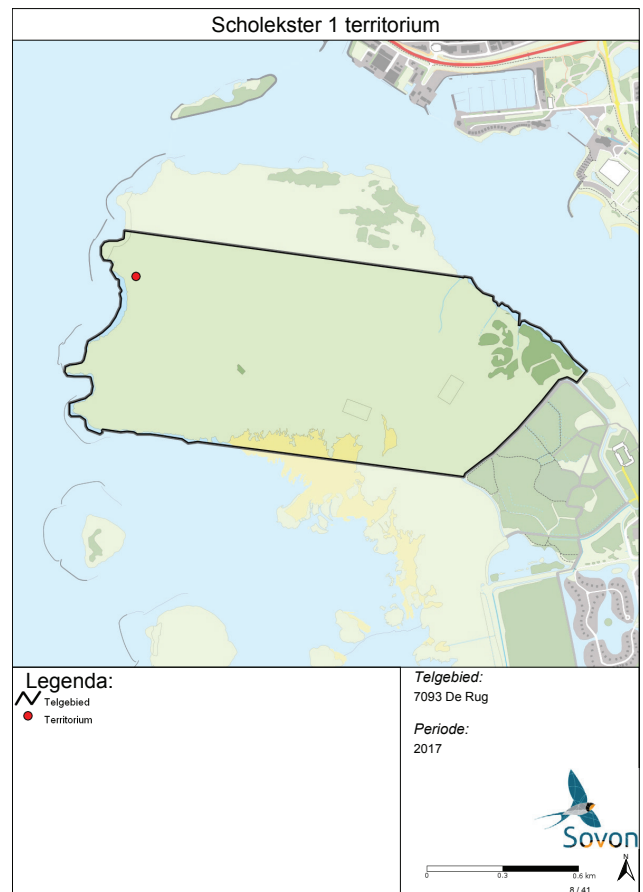
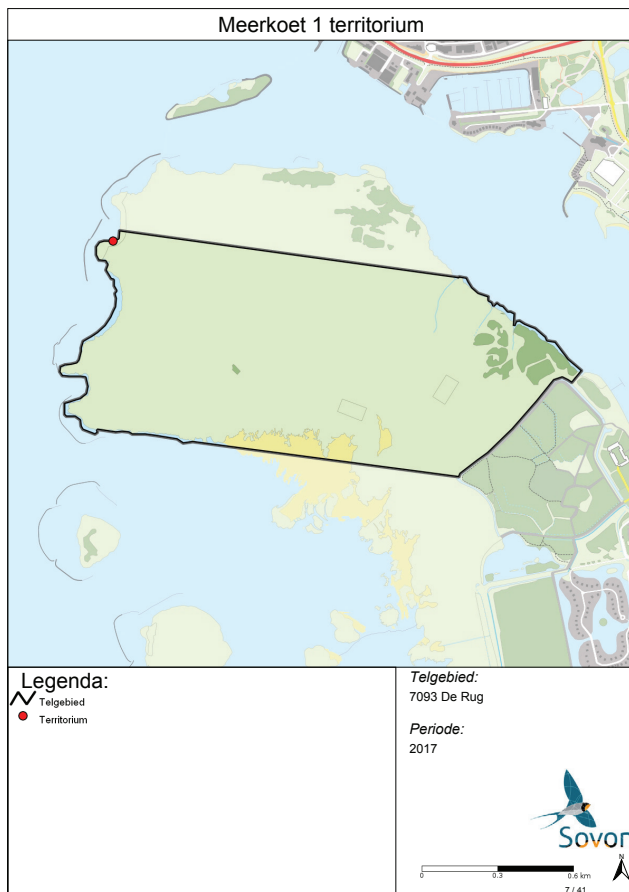
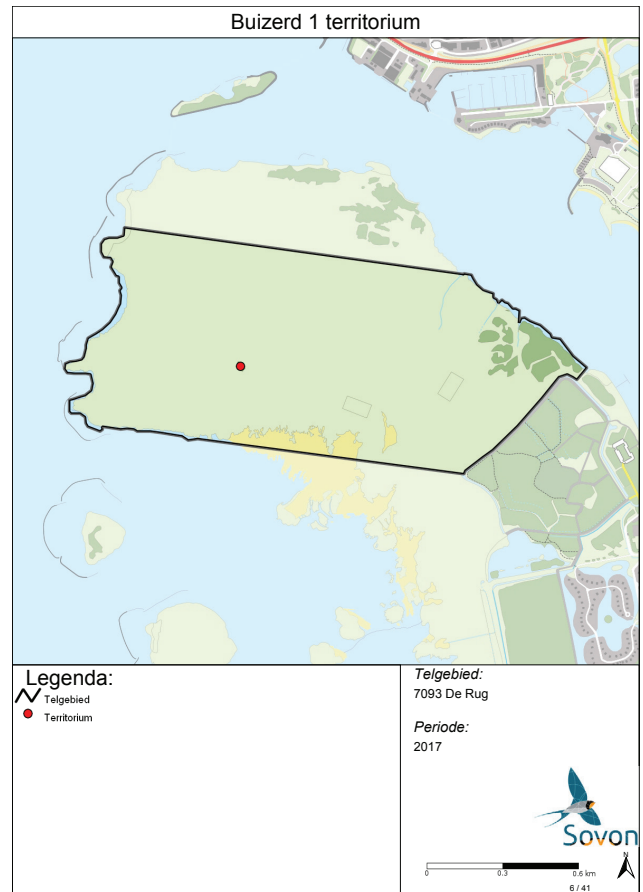
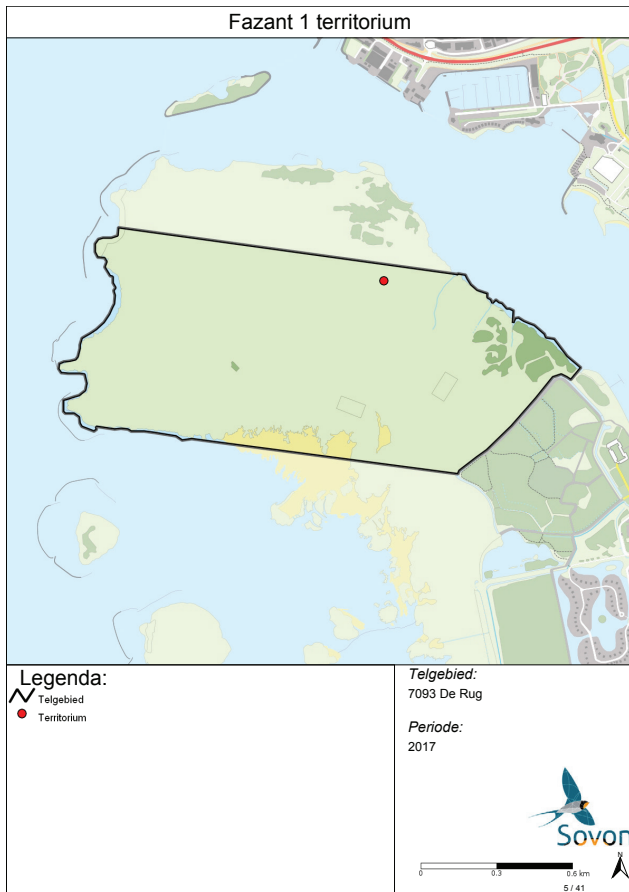


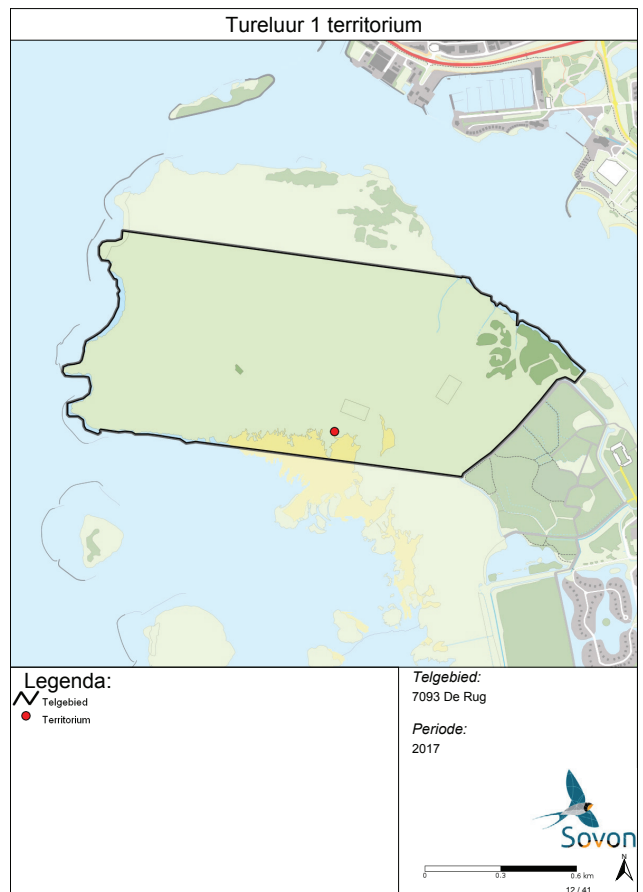
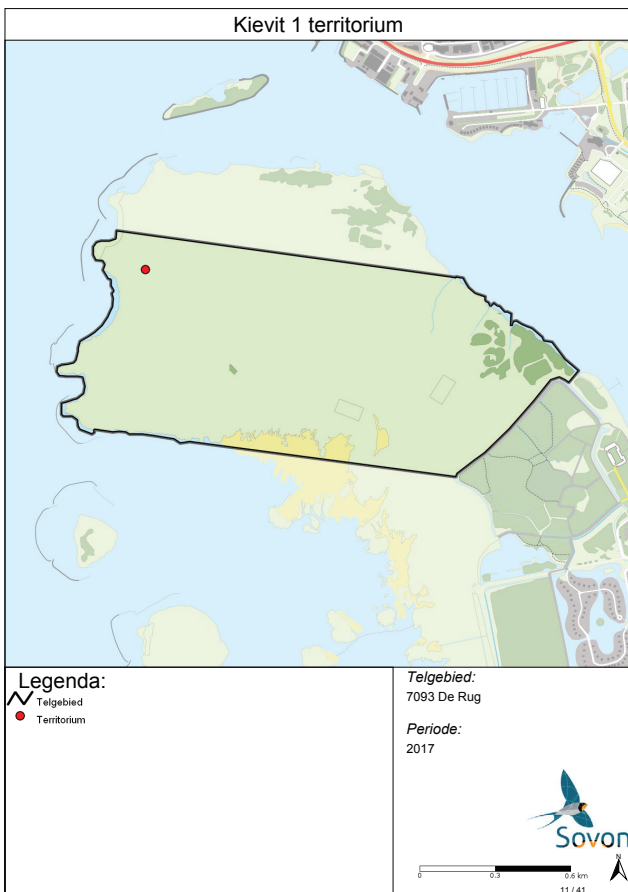
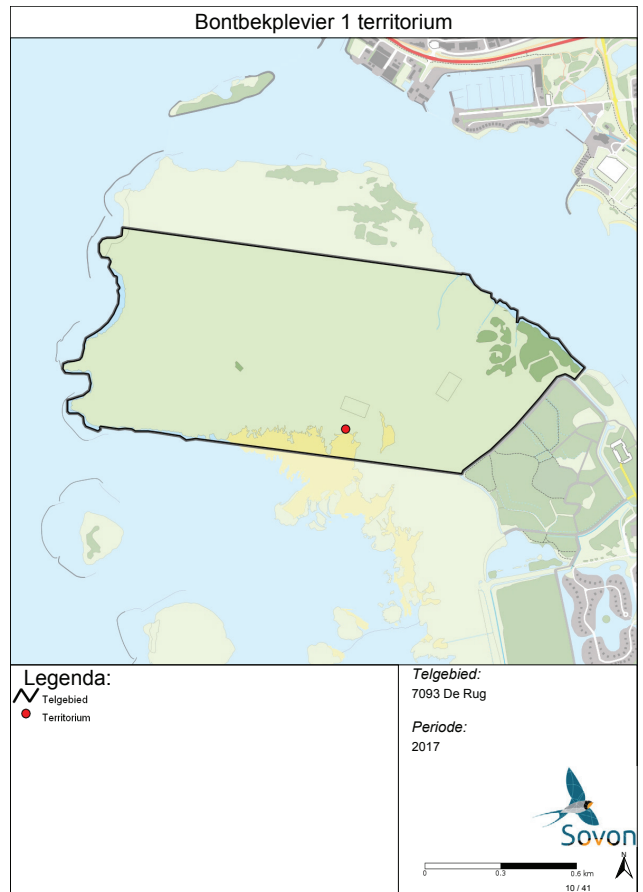
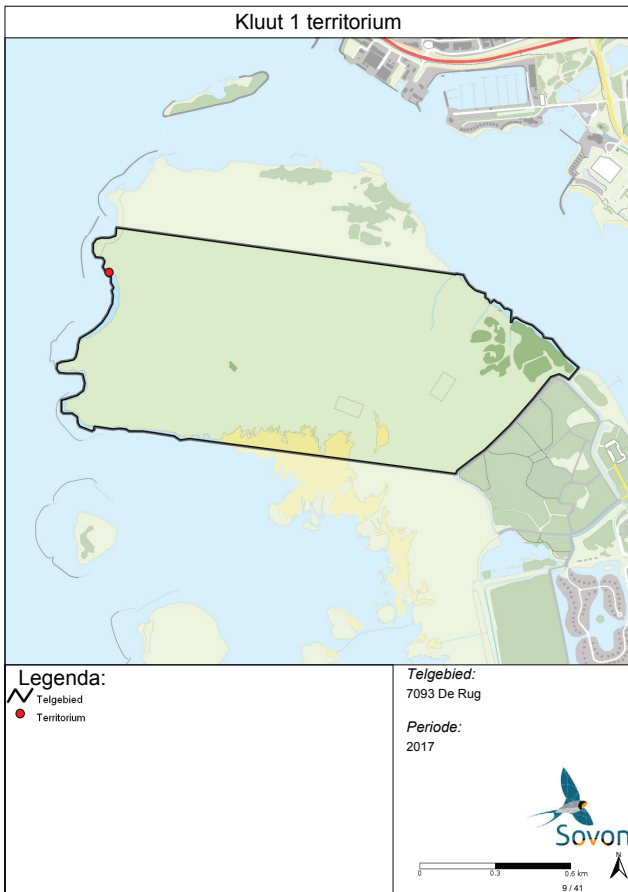


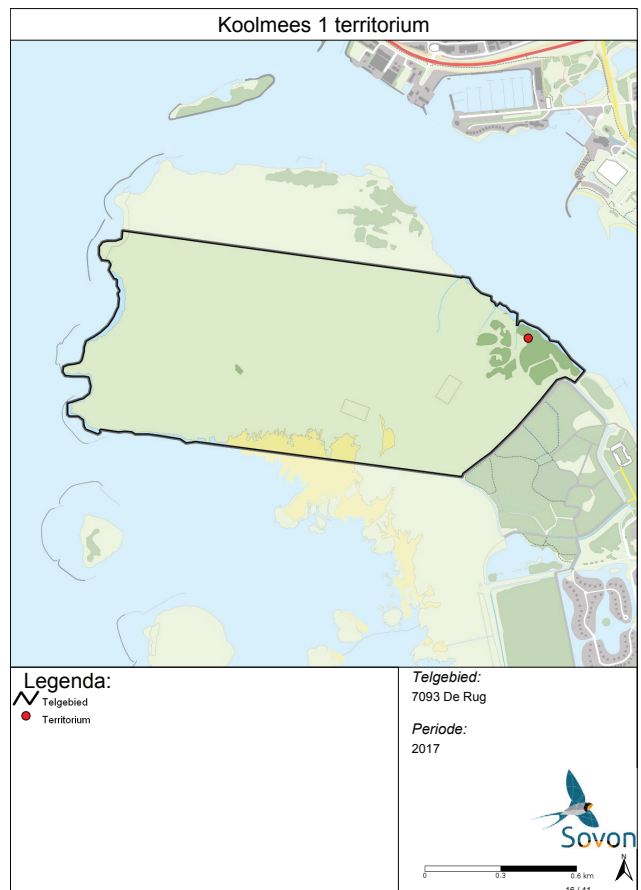
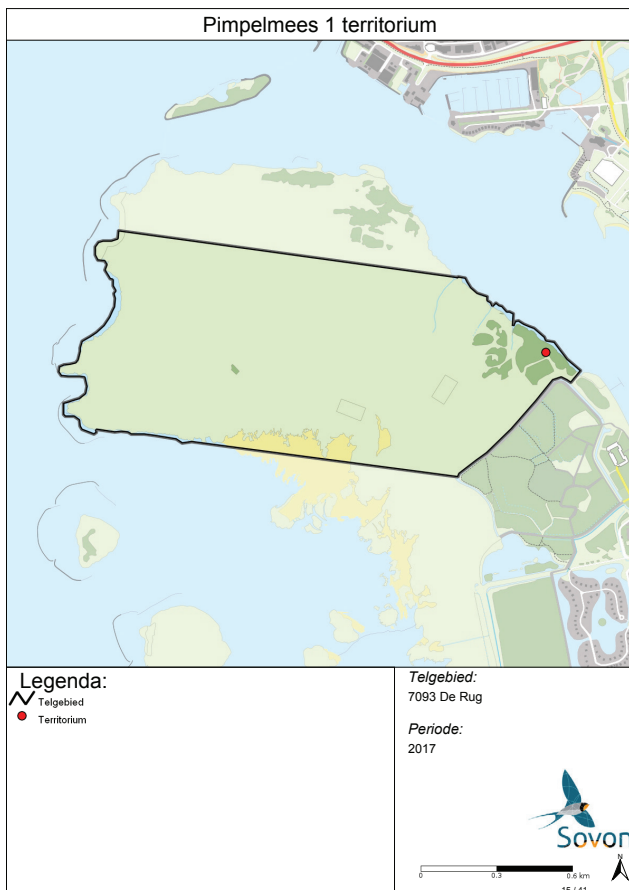
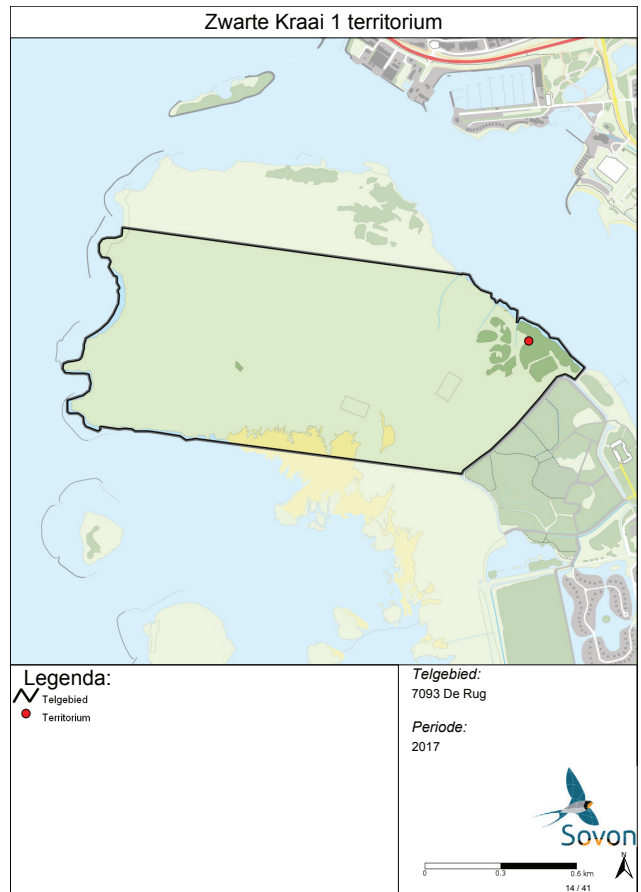
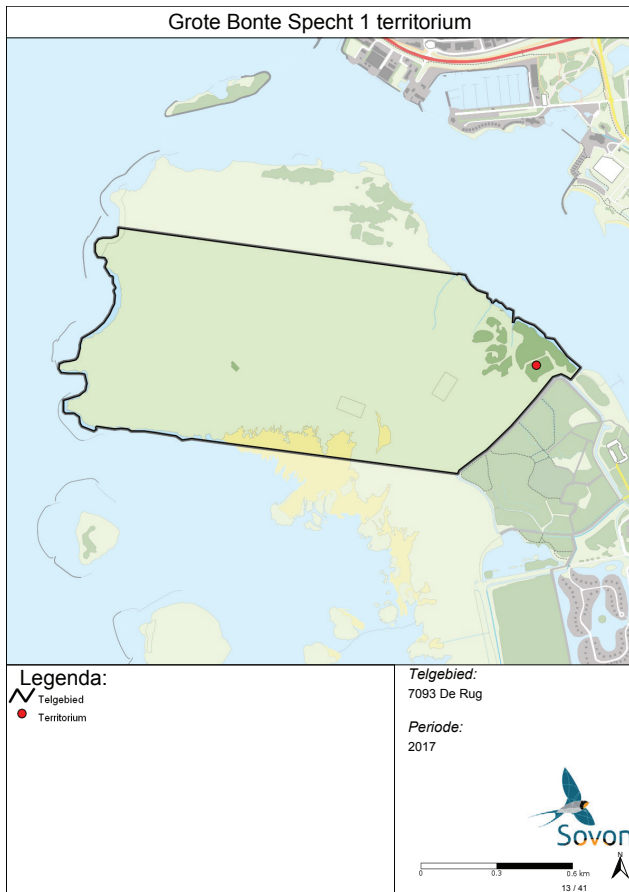


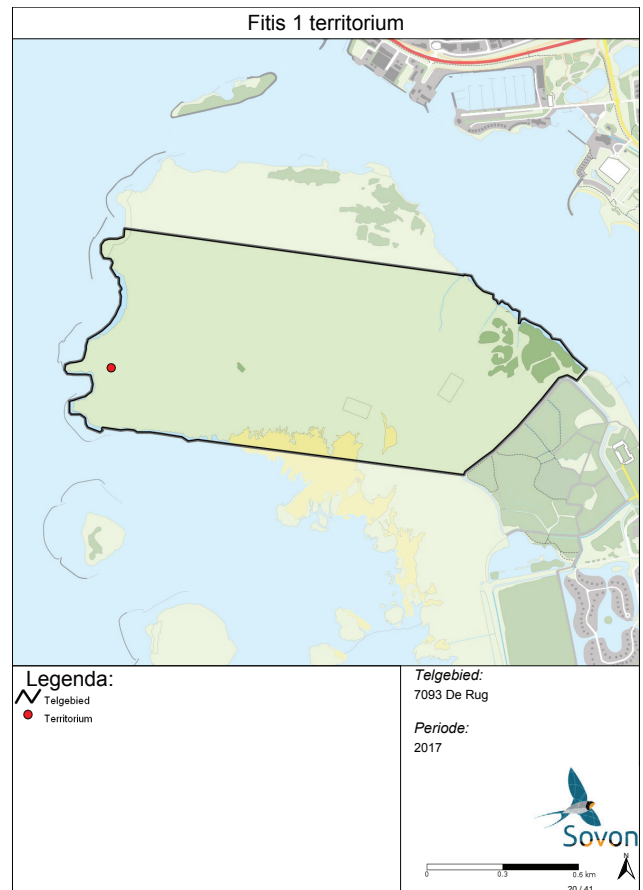
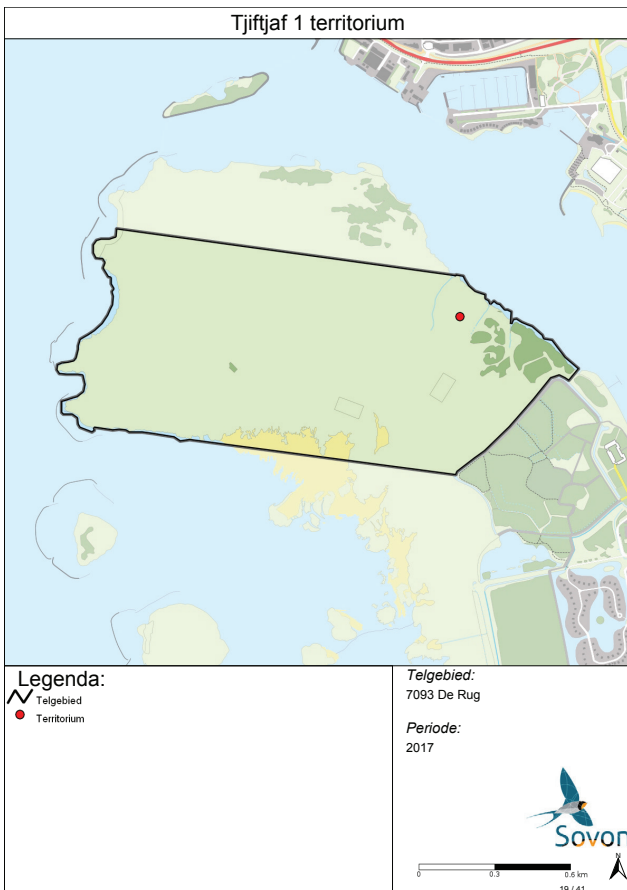
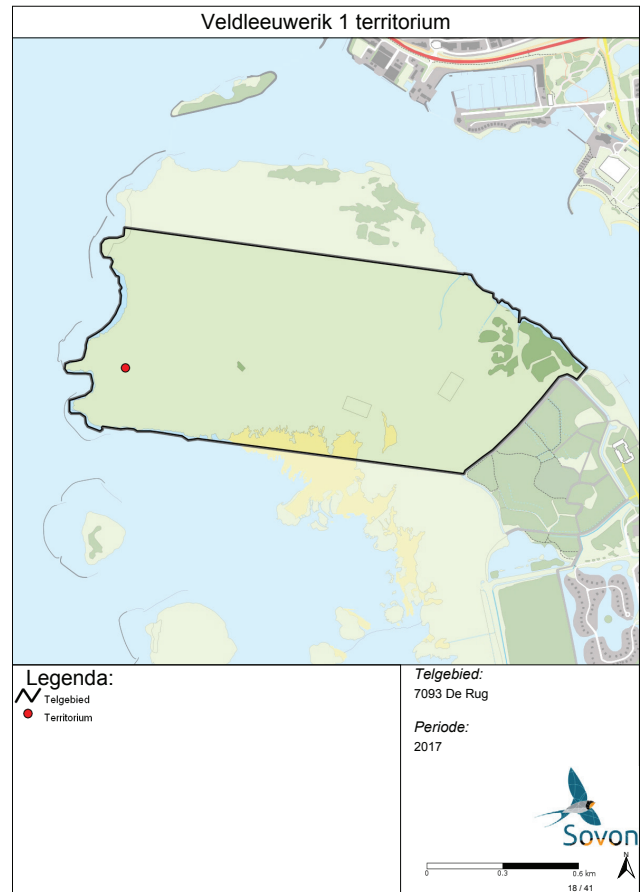
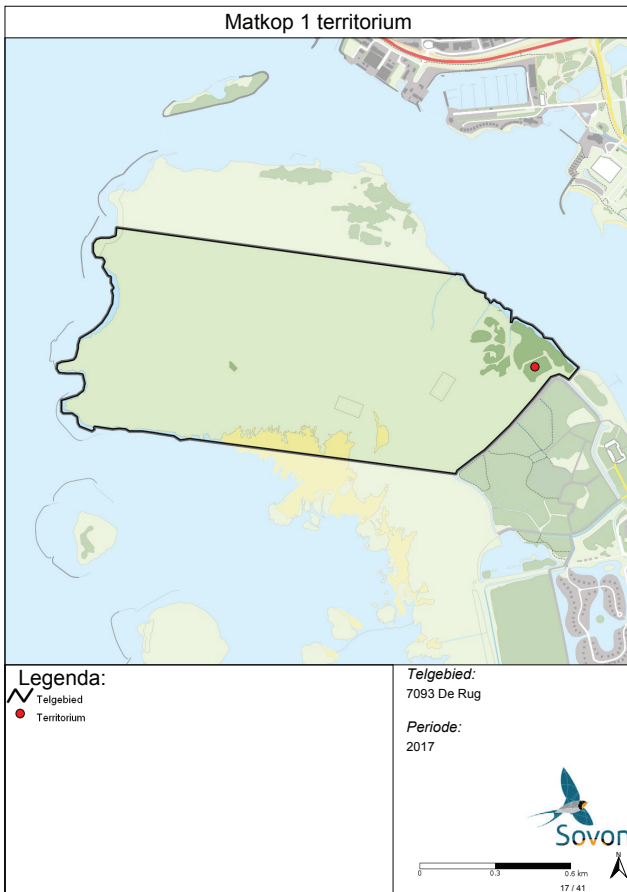
Bijlage 19h. De Rug 2017

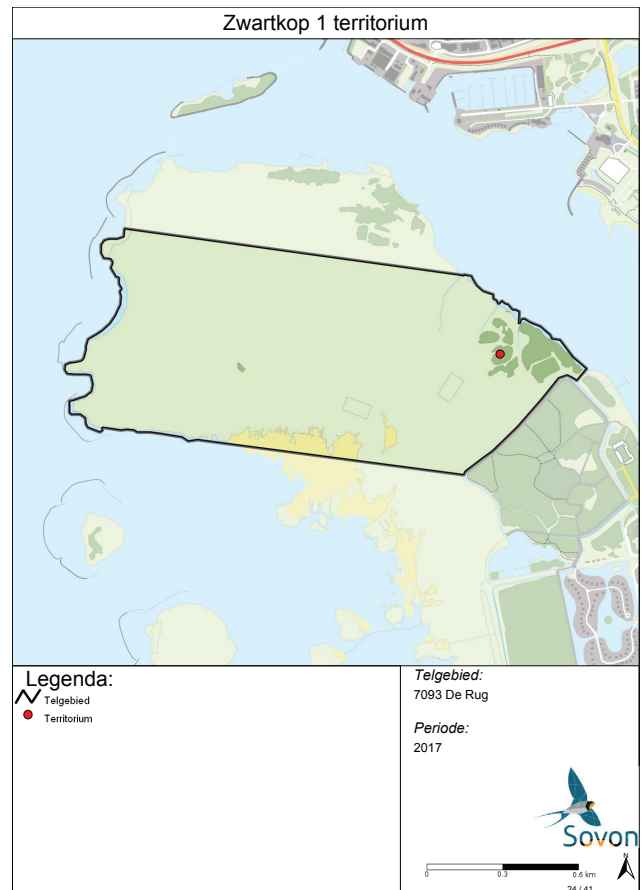
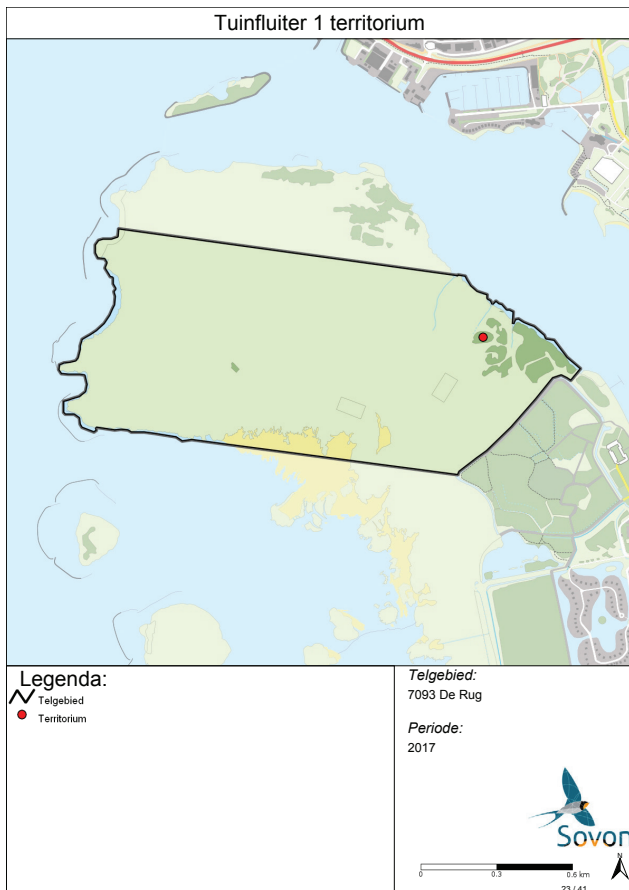
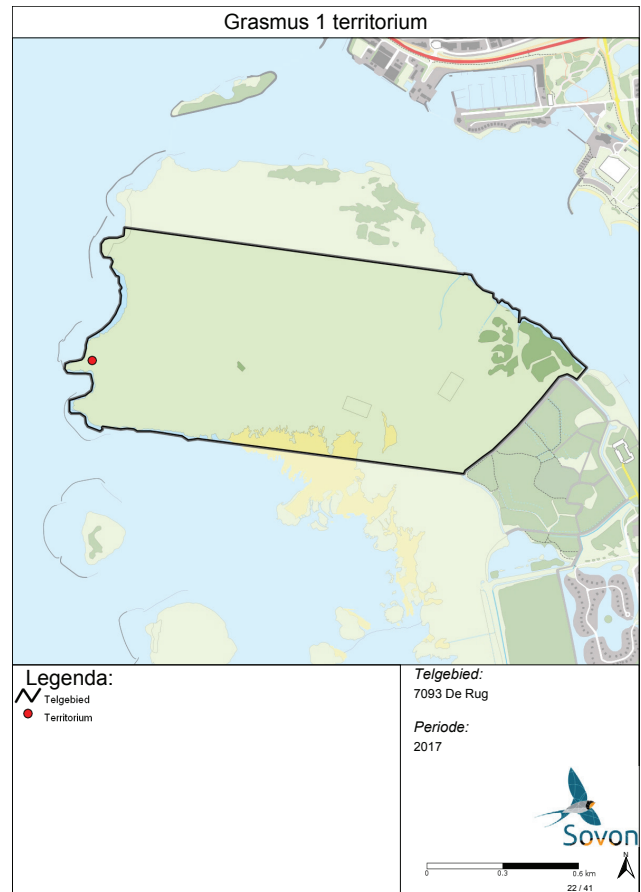
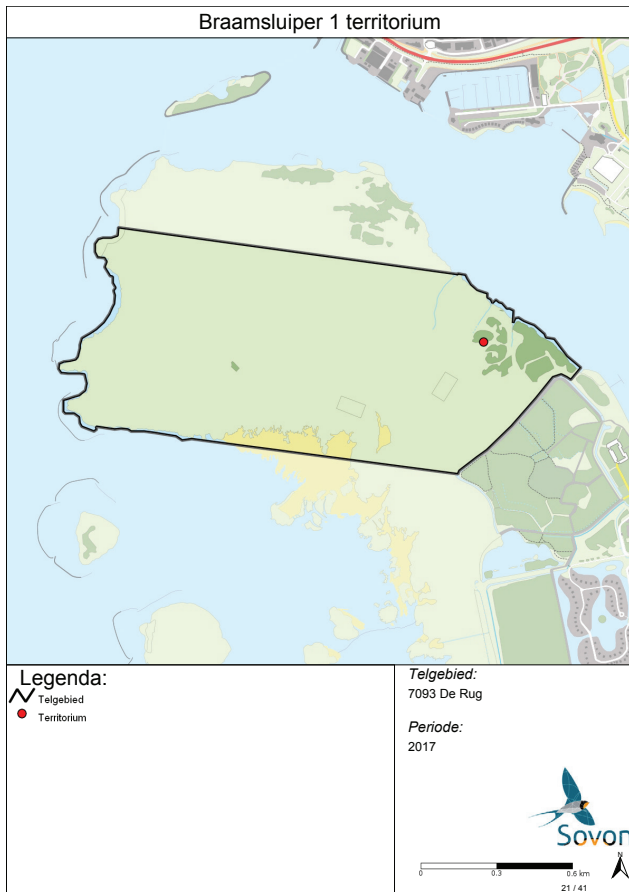


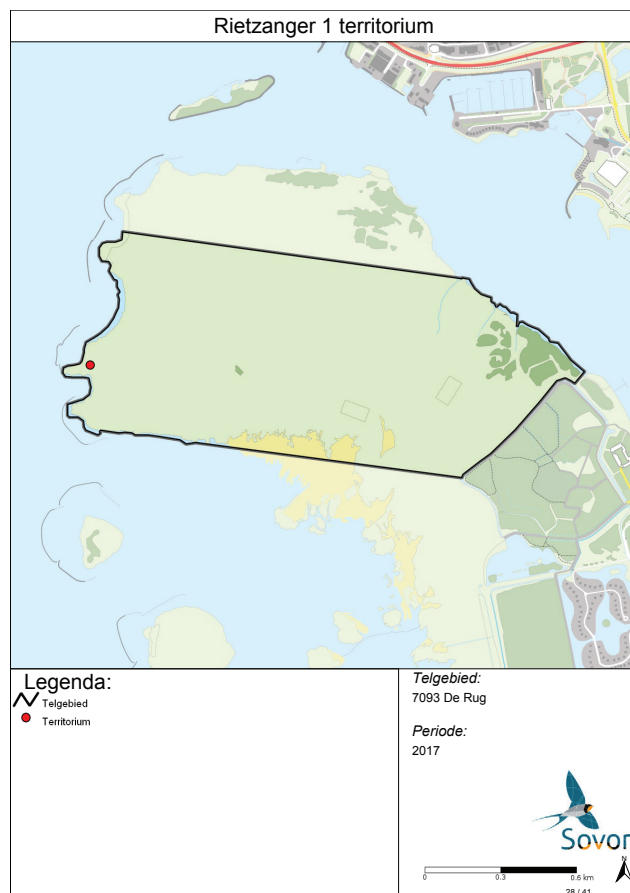
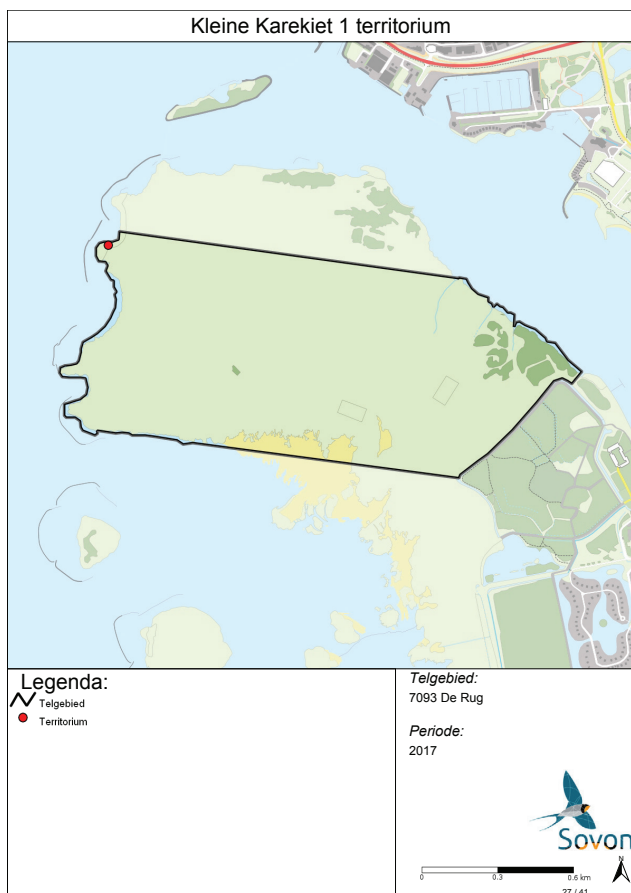
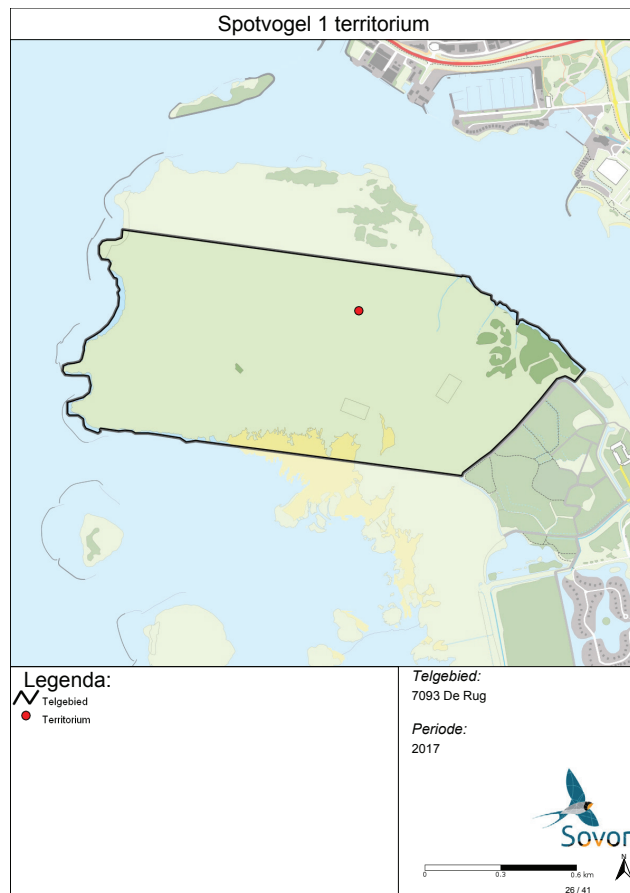
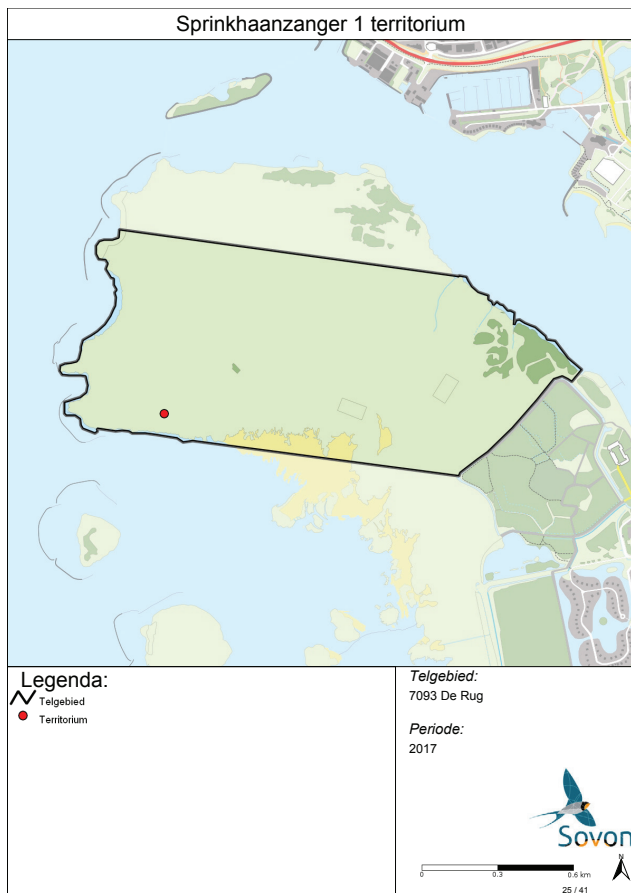


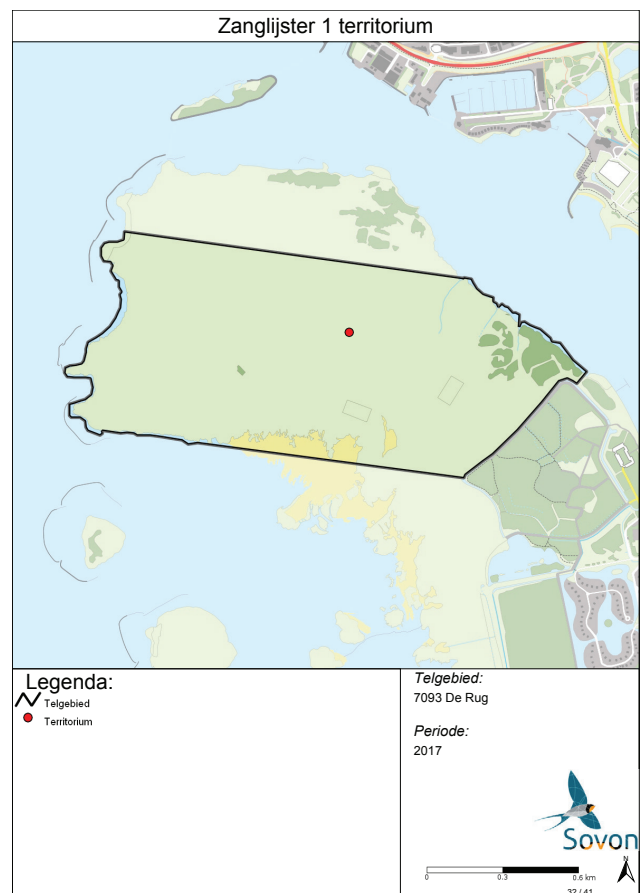
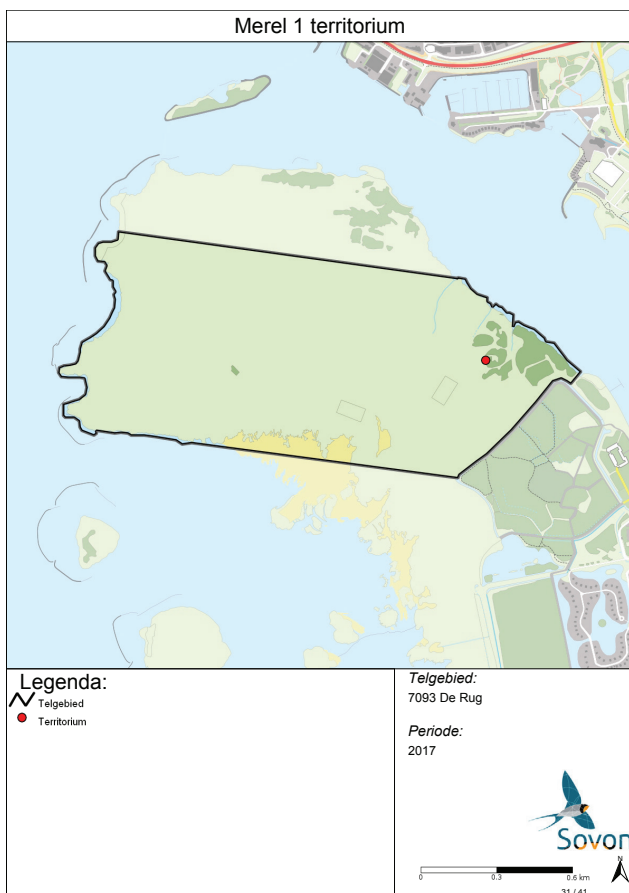
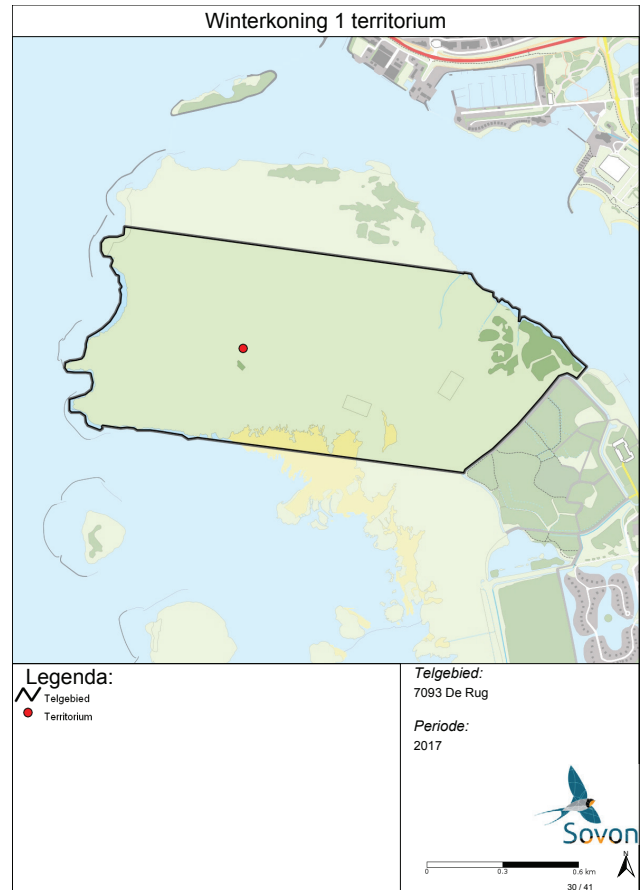
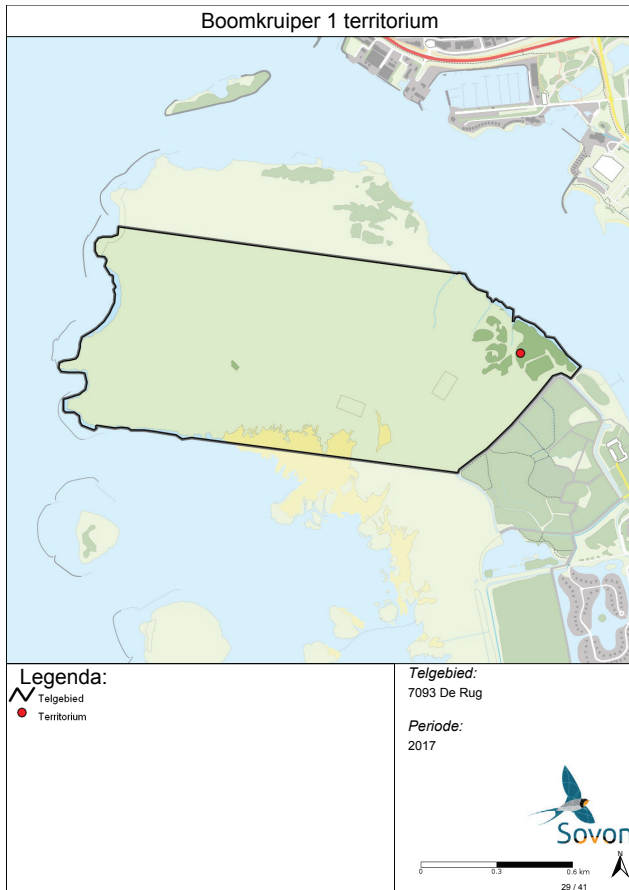


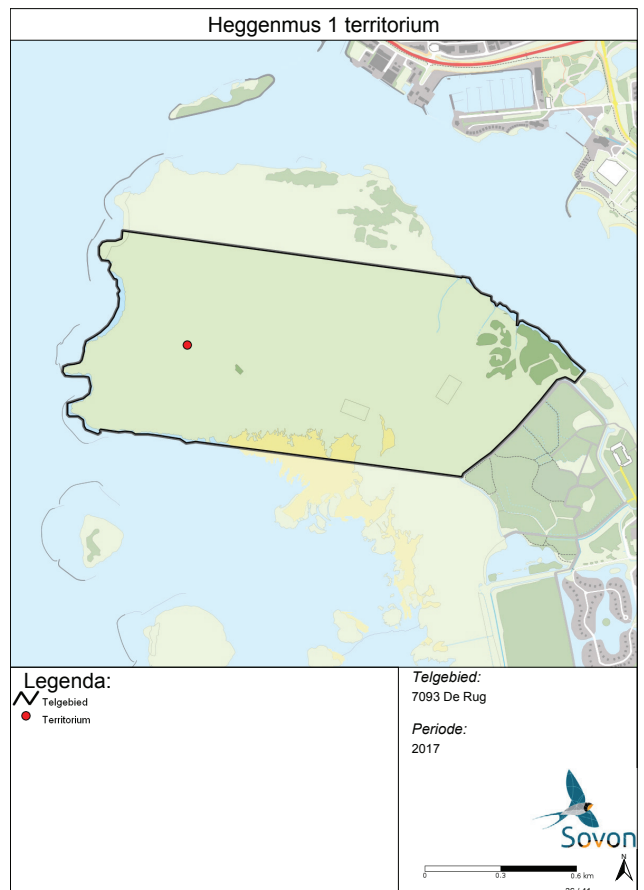
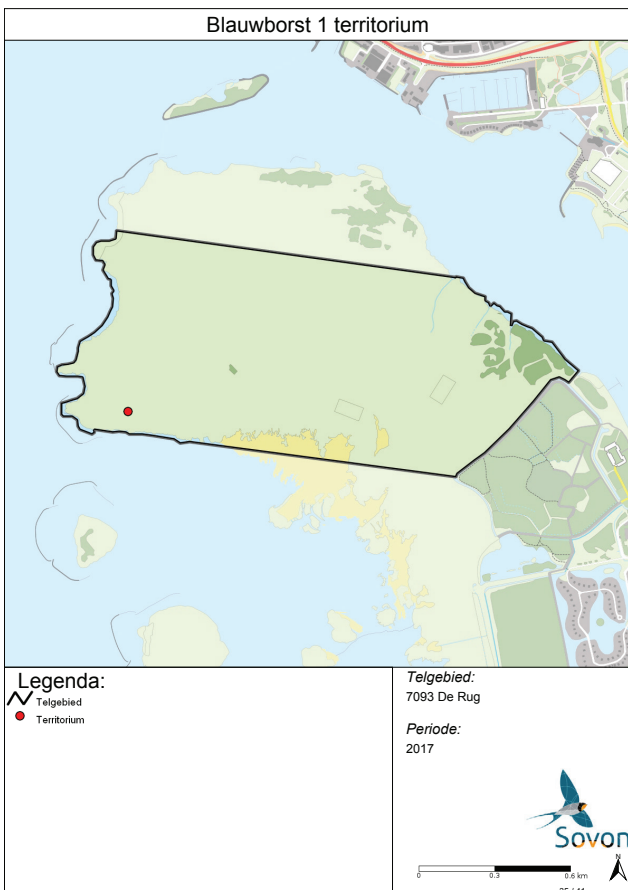
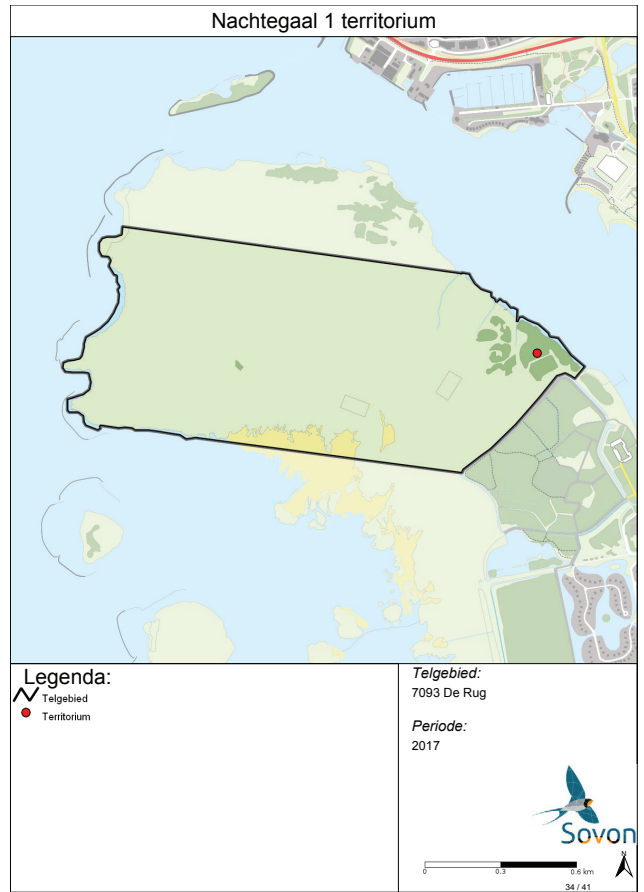
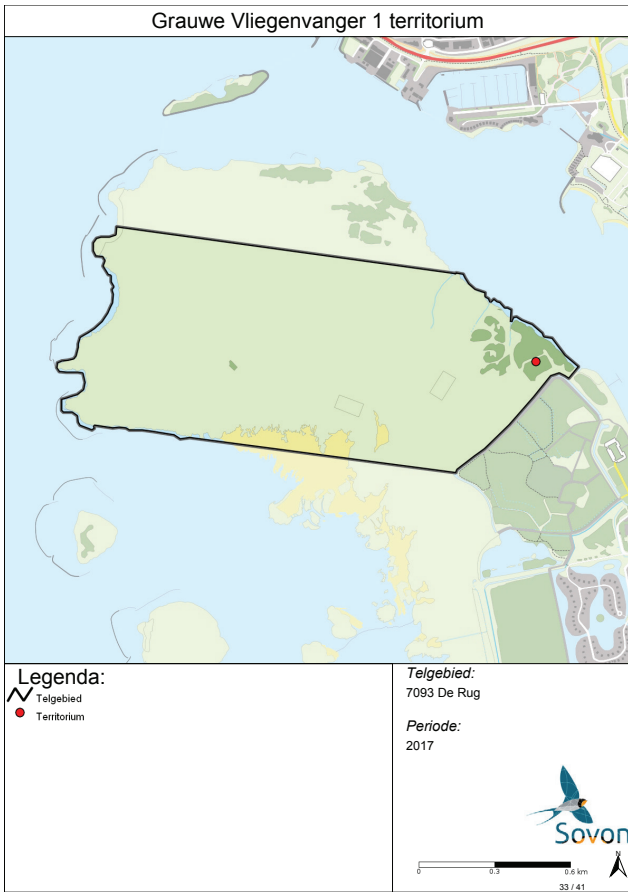


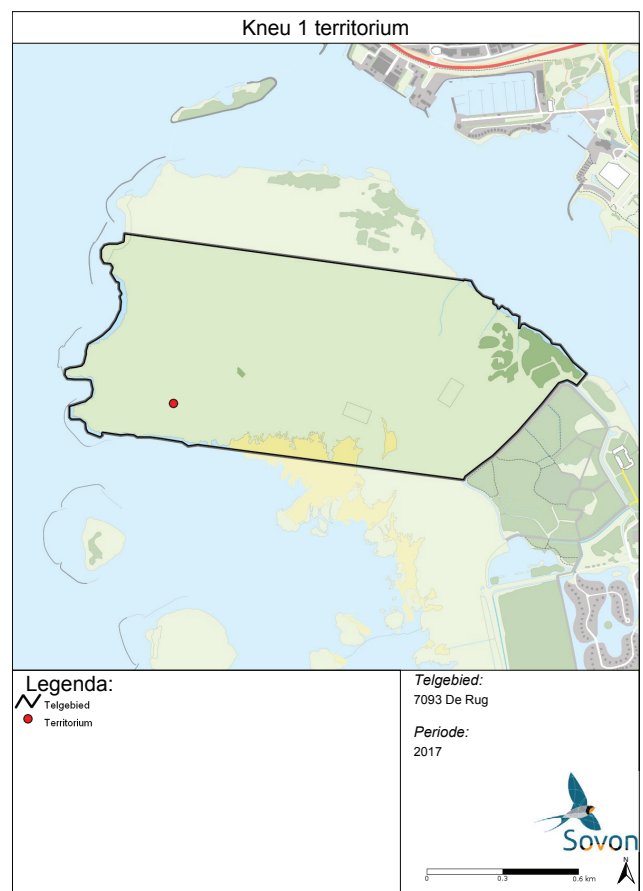
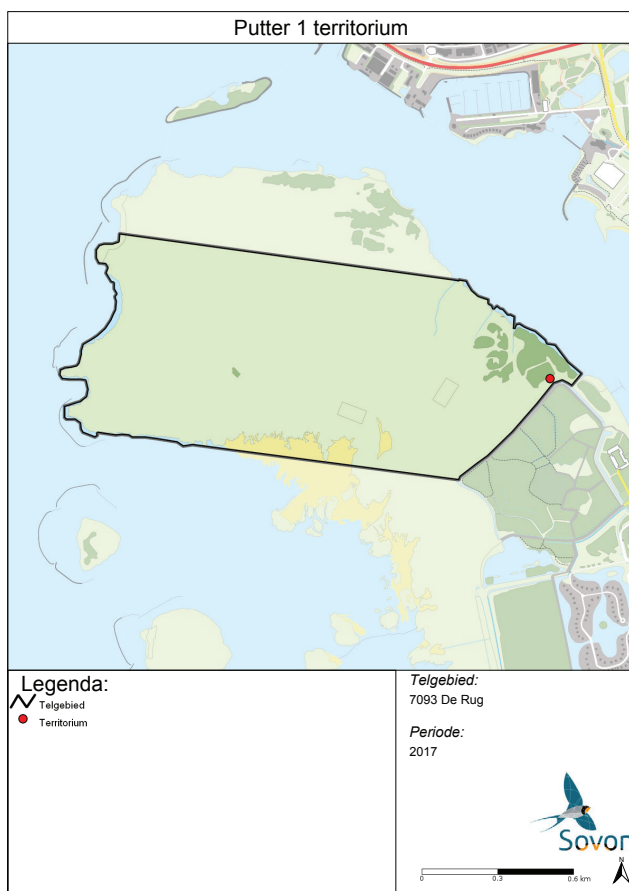
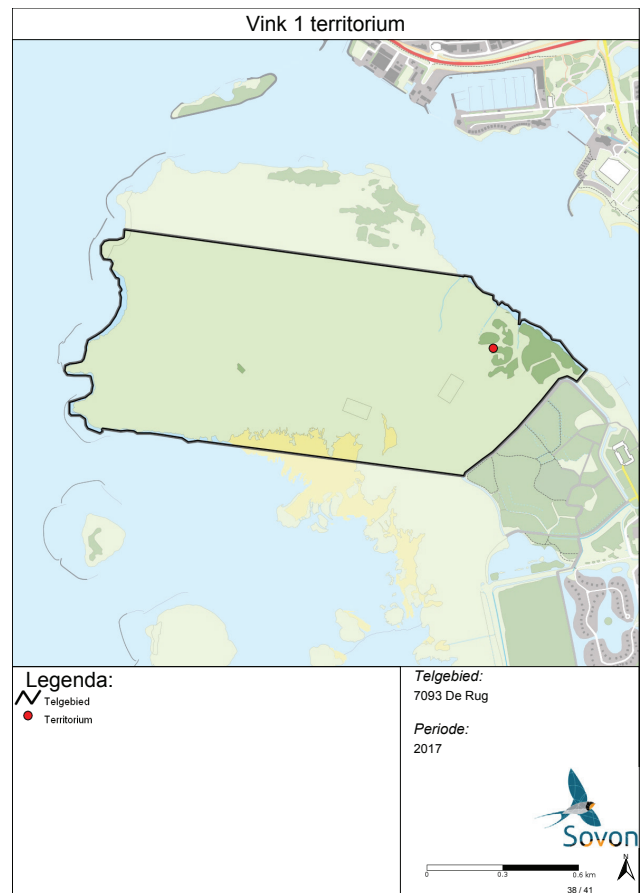
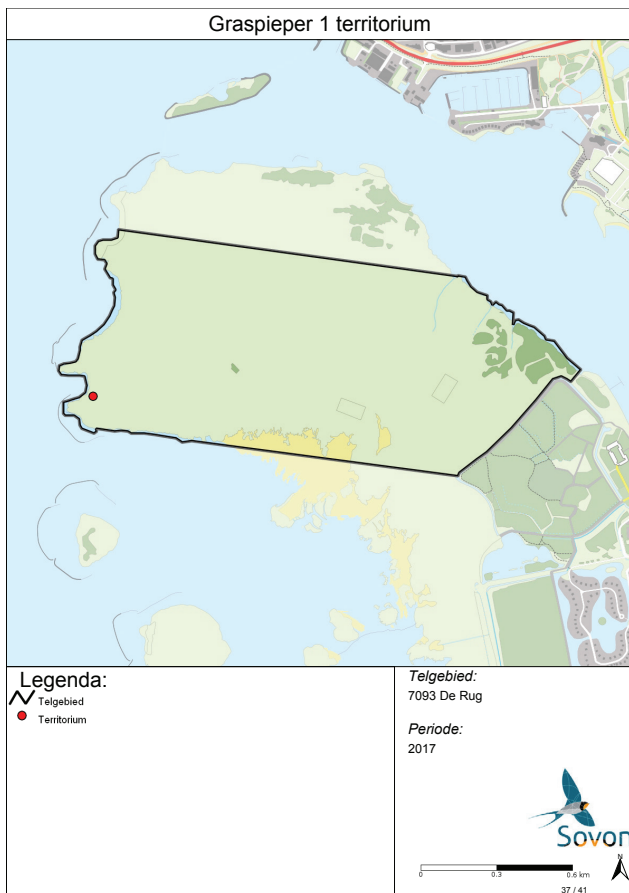


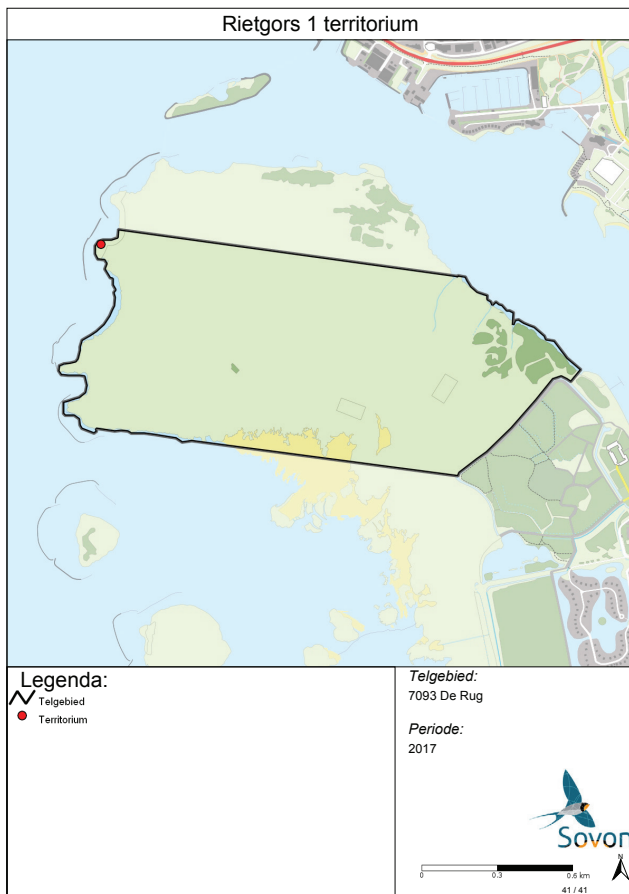




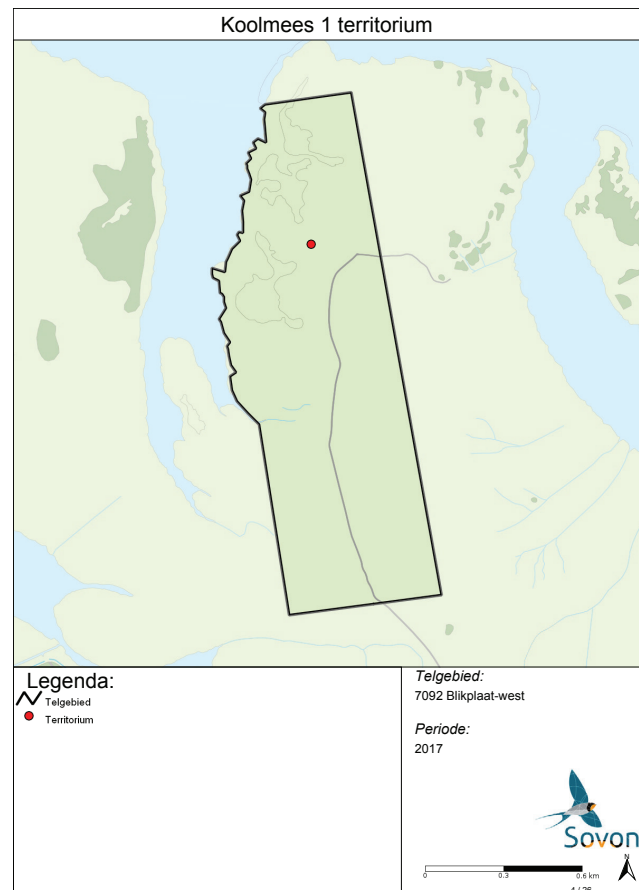
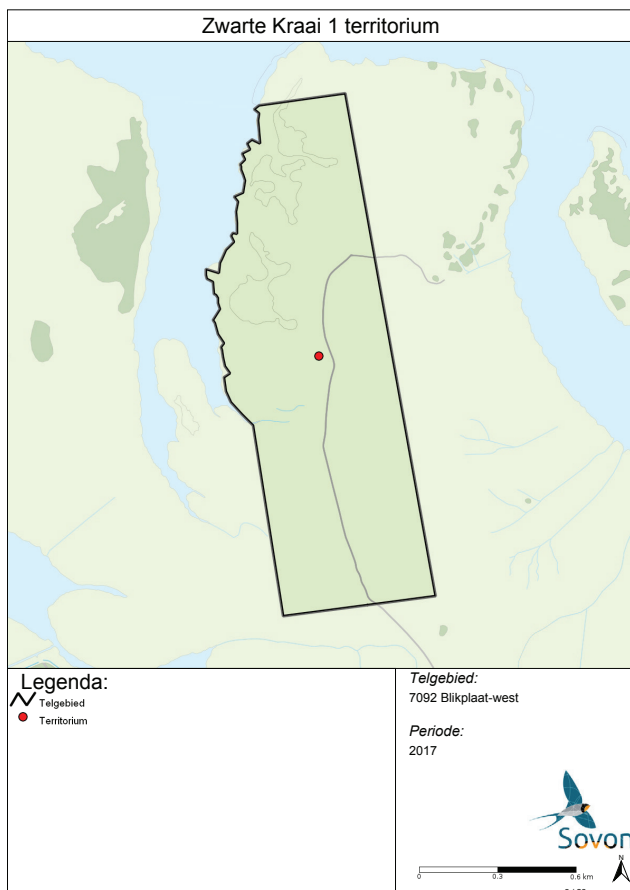
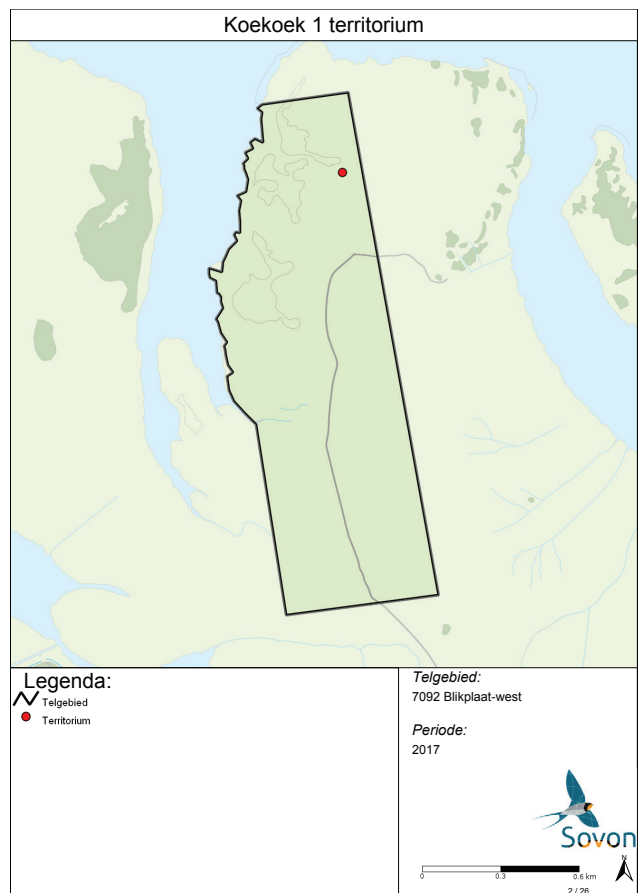
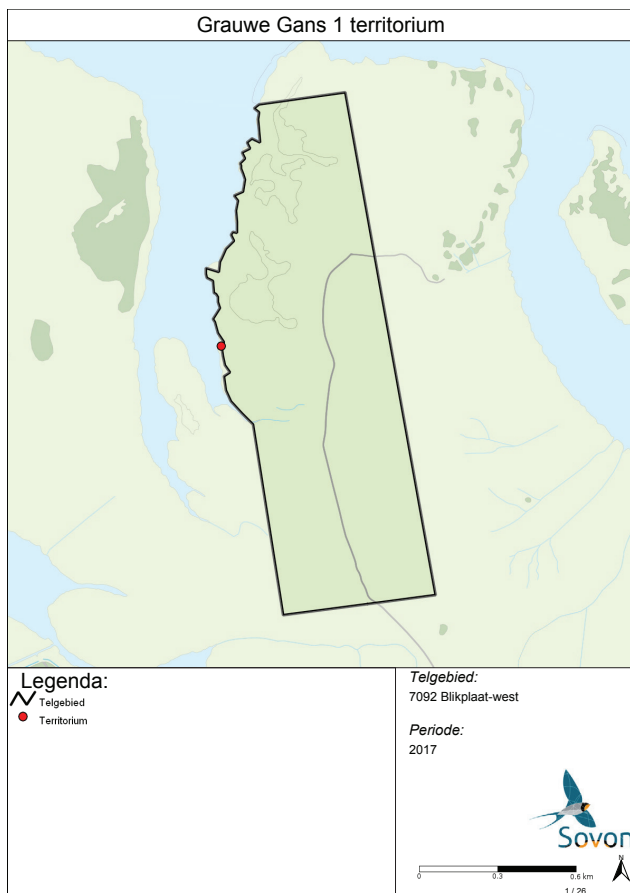


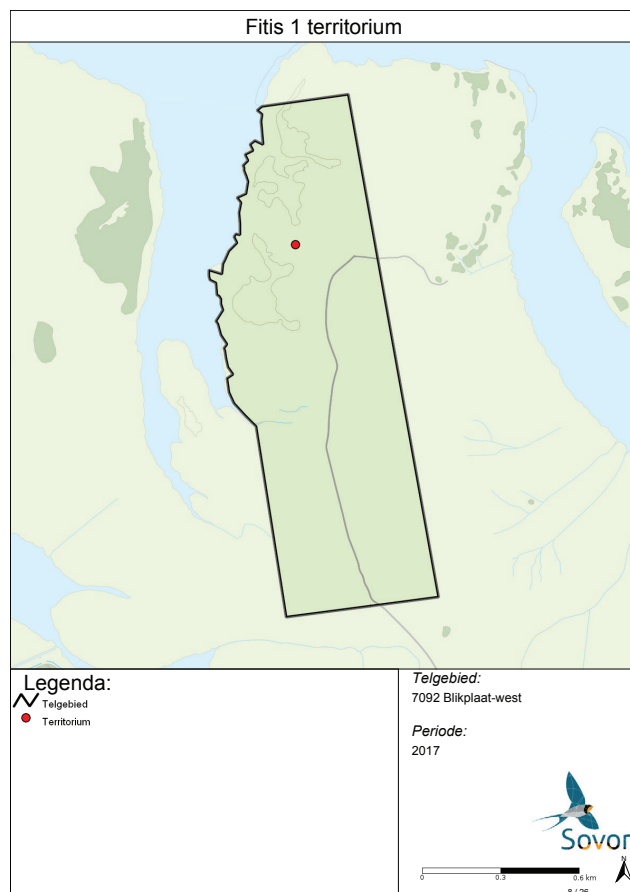
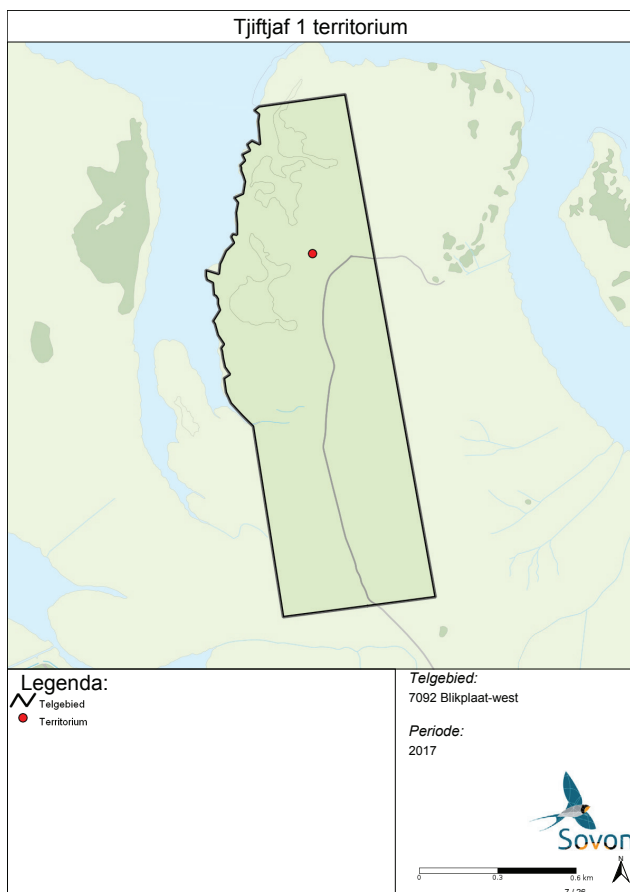
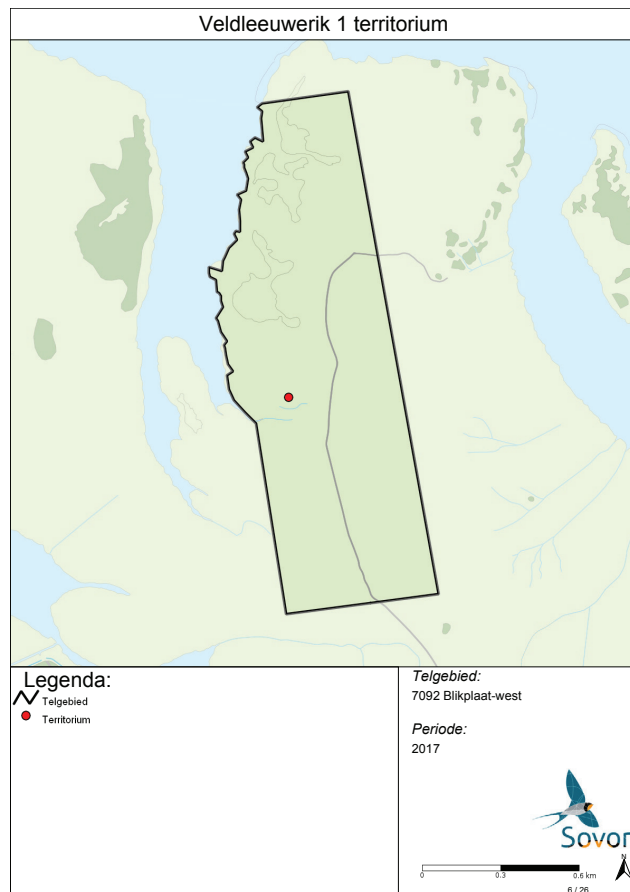
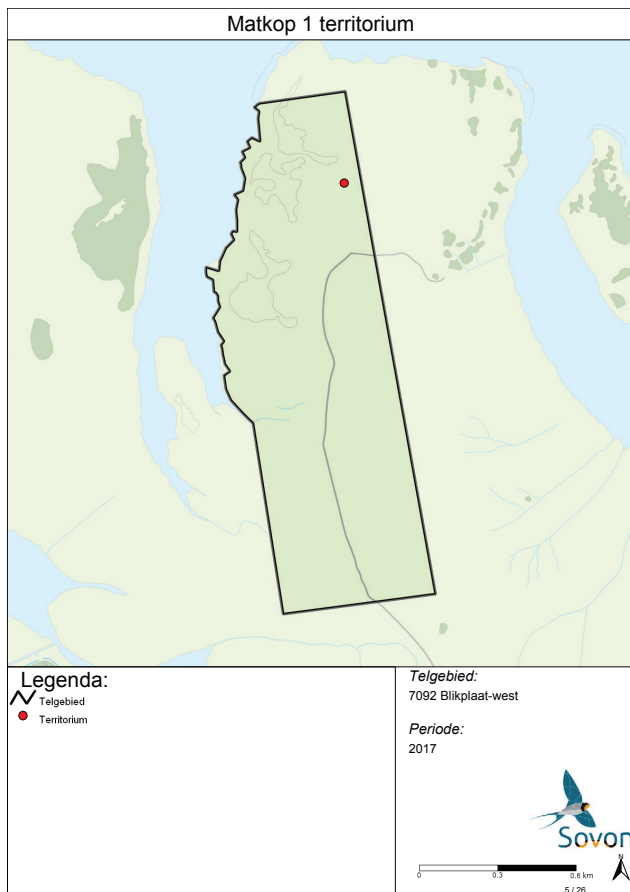


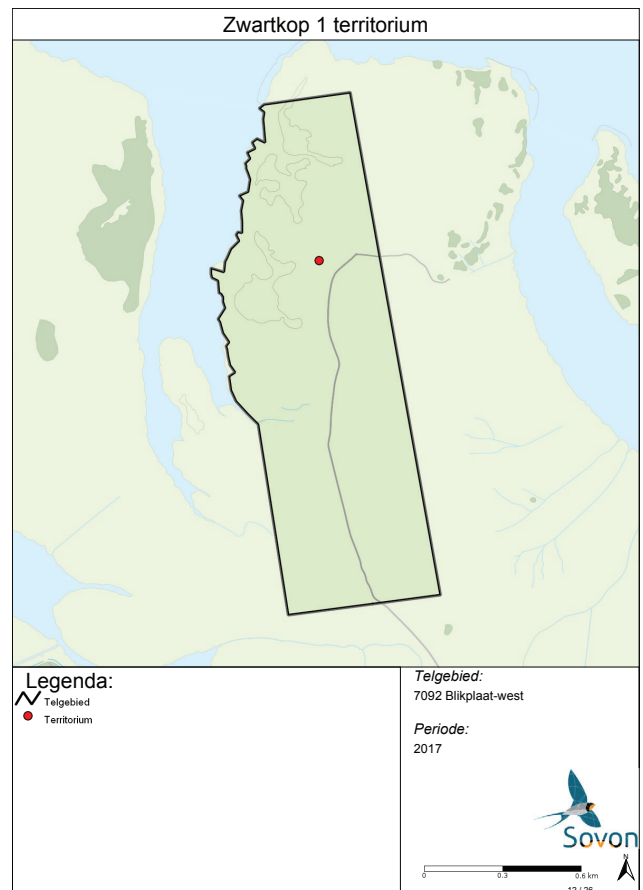
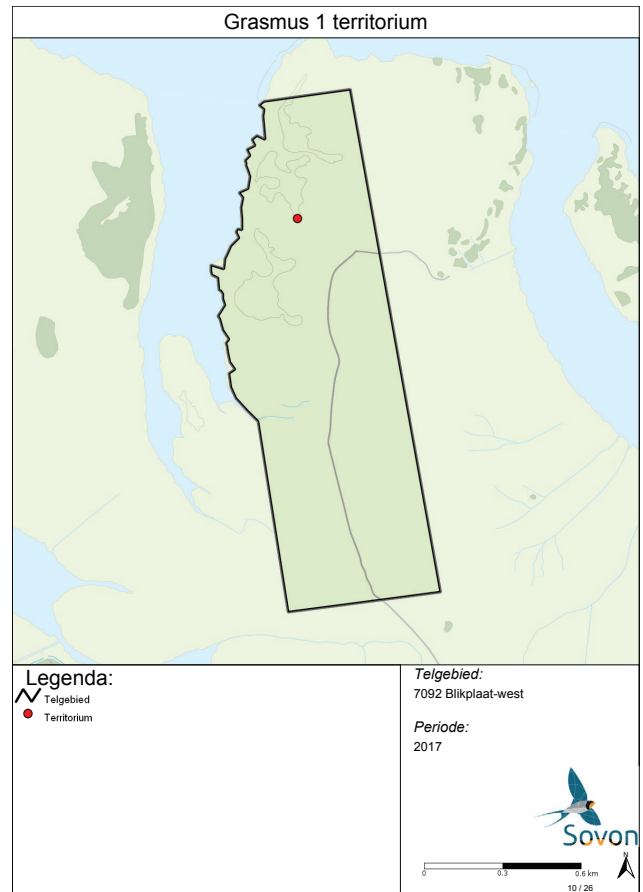


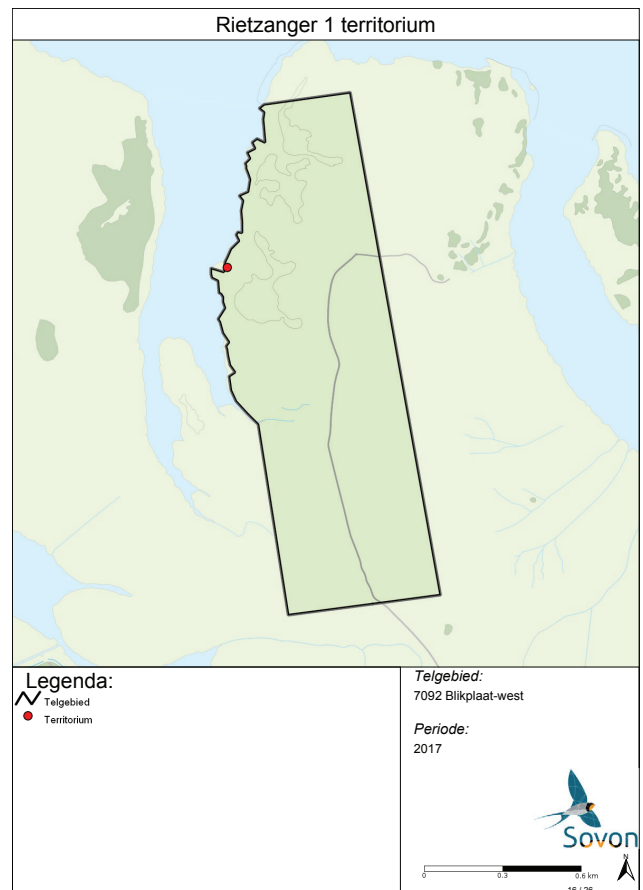
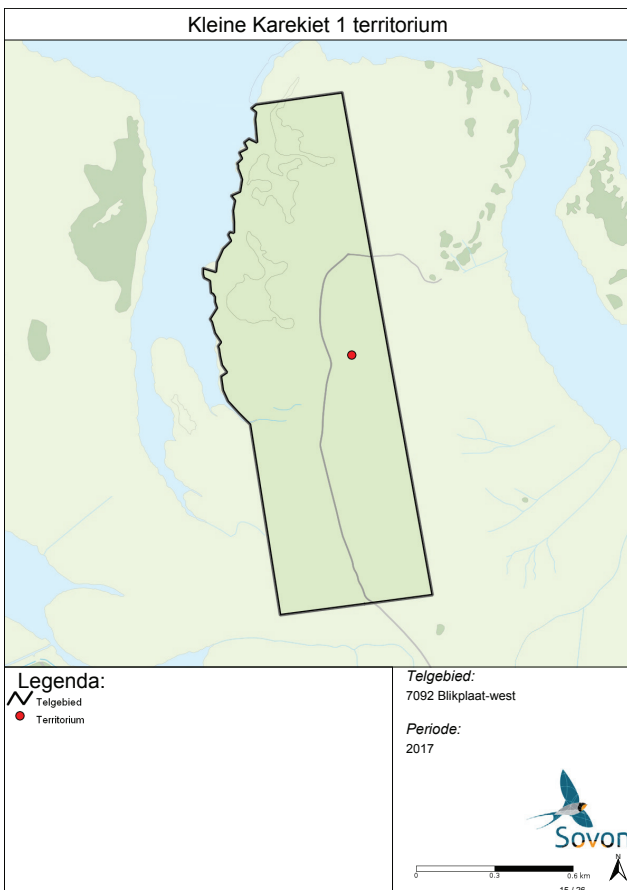
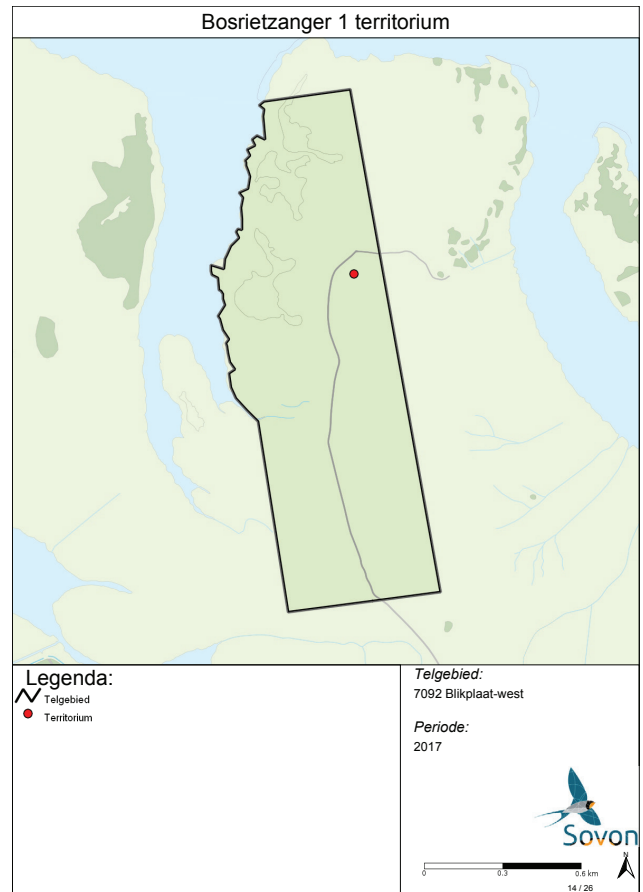


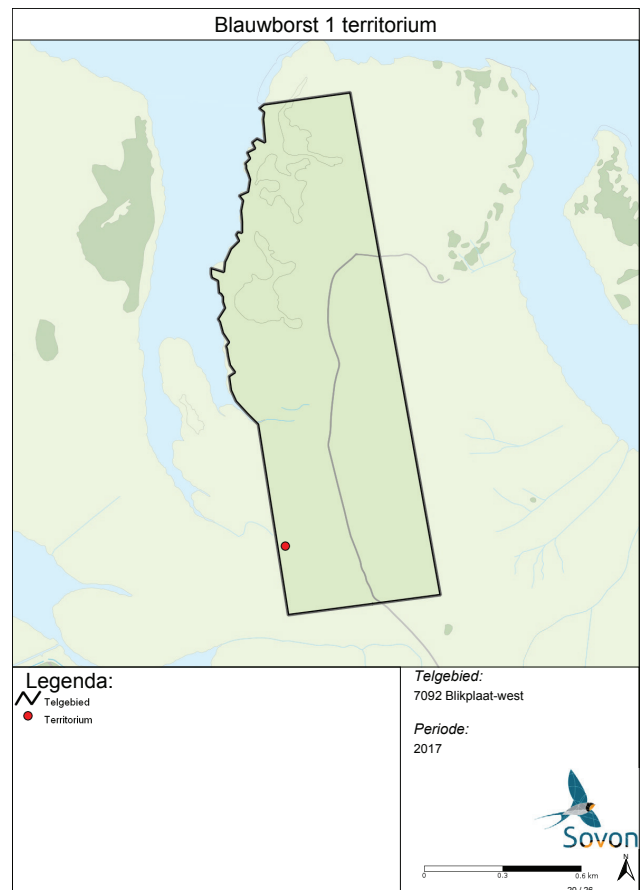
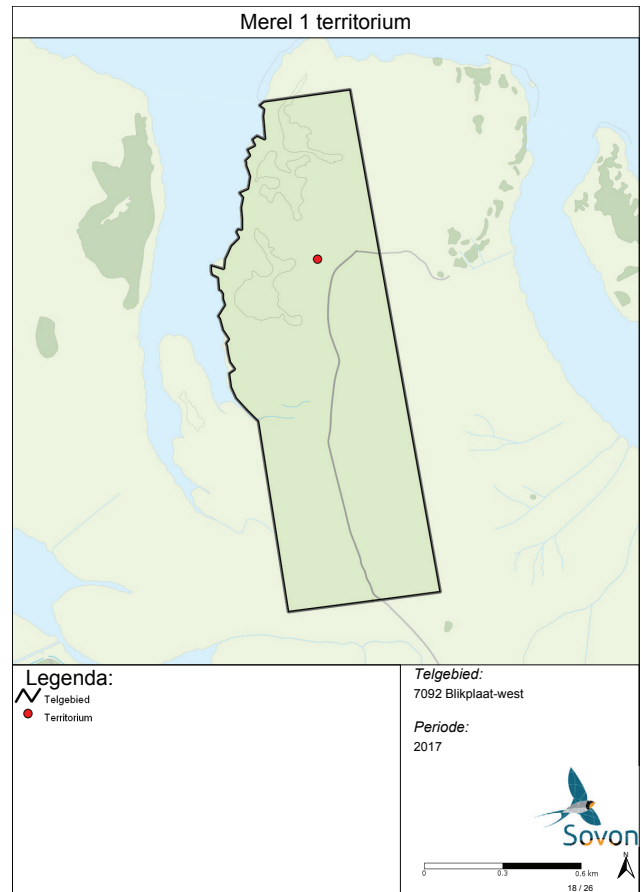
Bijlage 19i. Blikplaat-west 2017

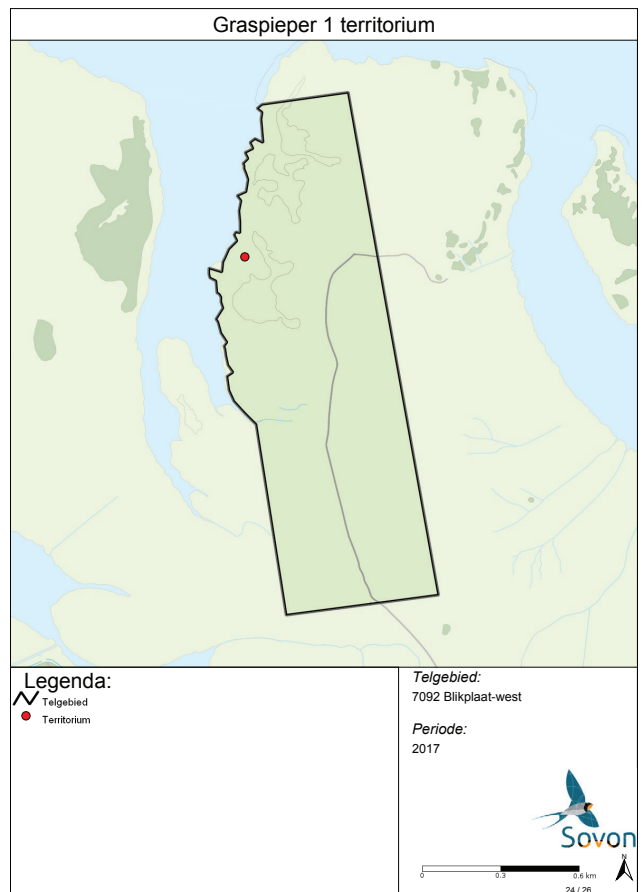
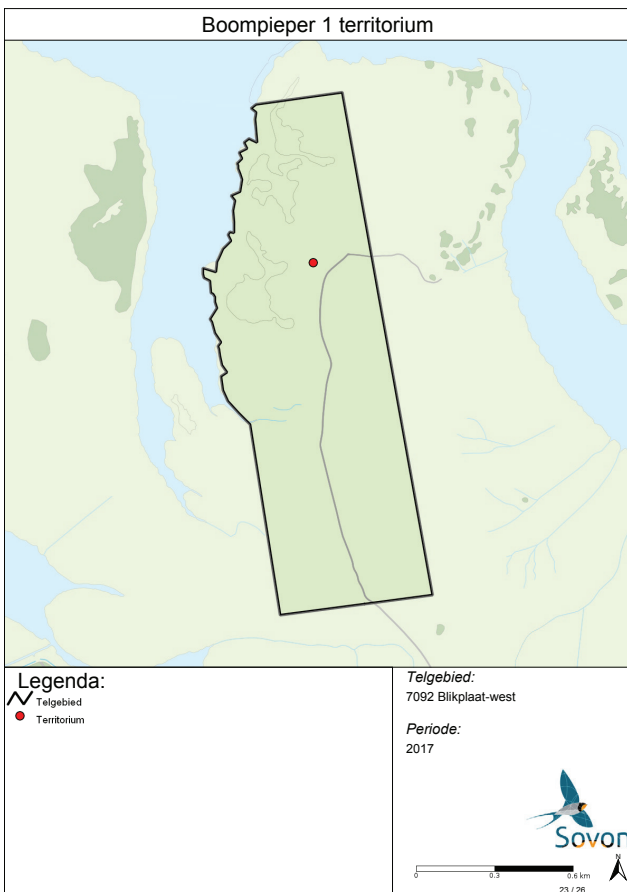
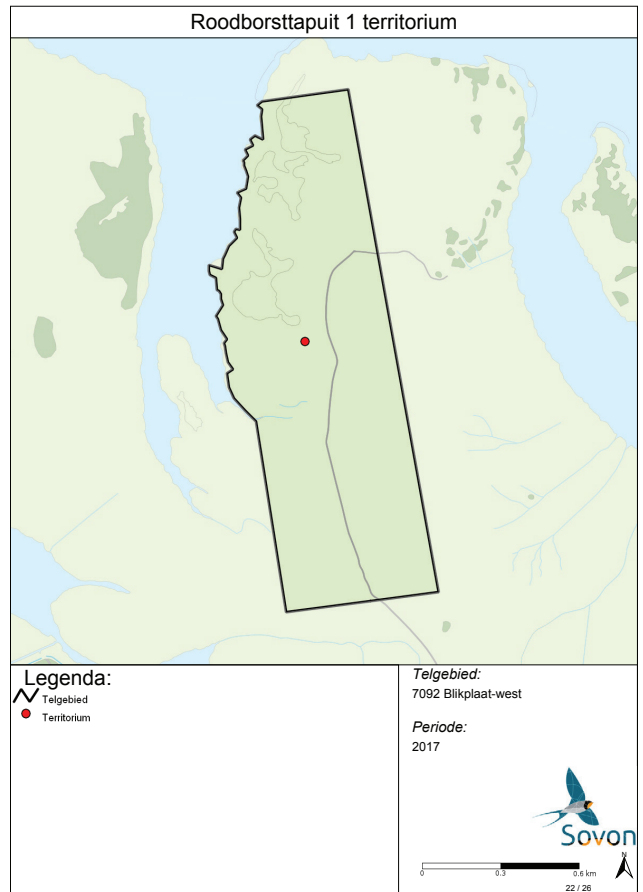


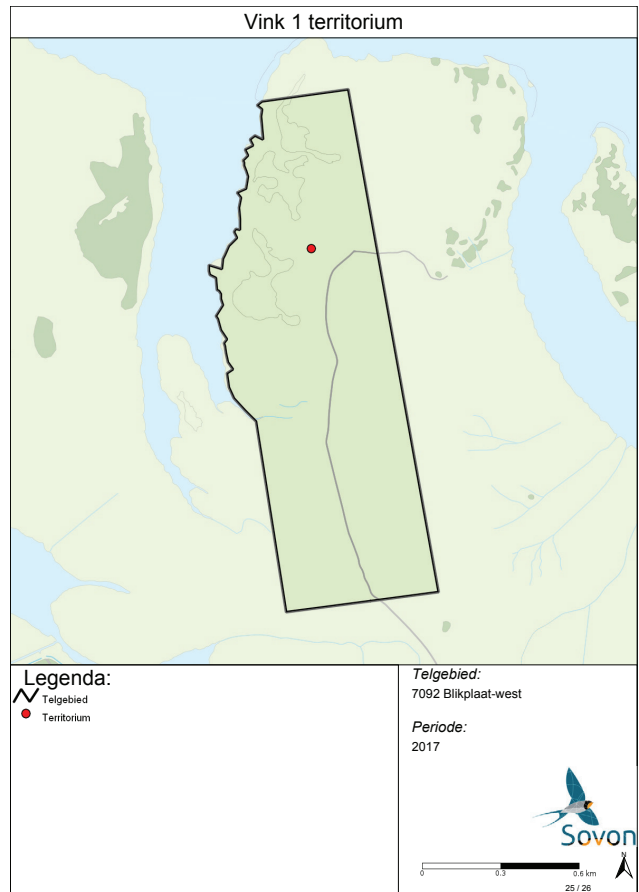
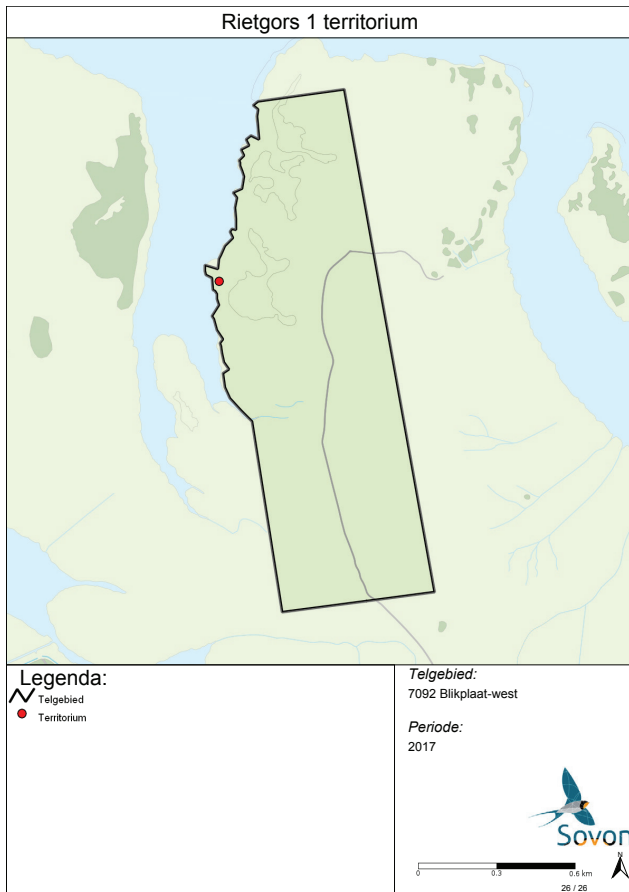




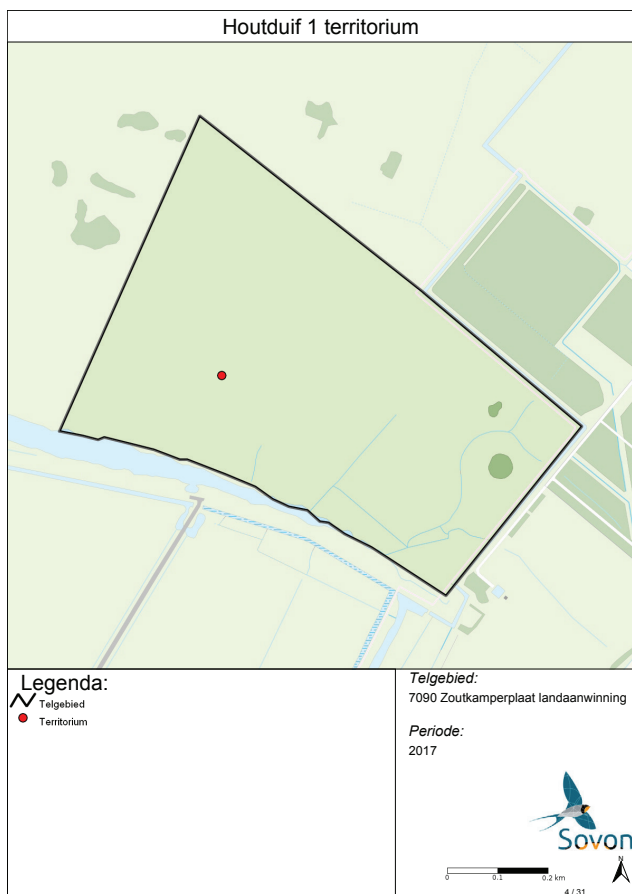
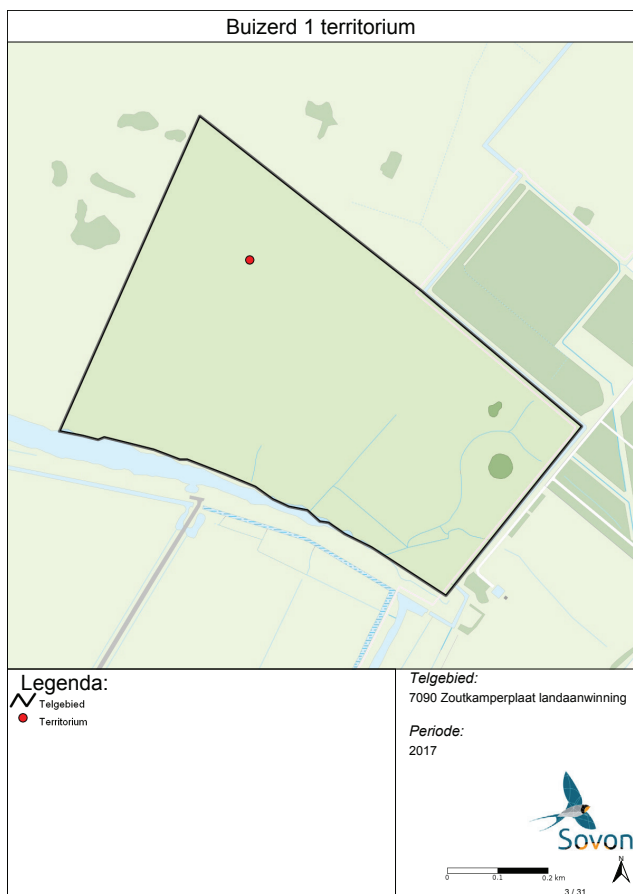
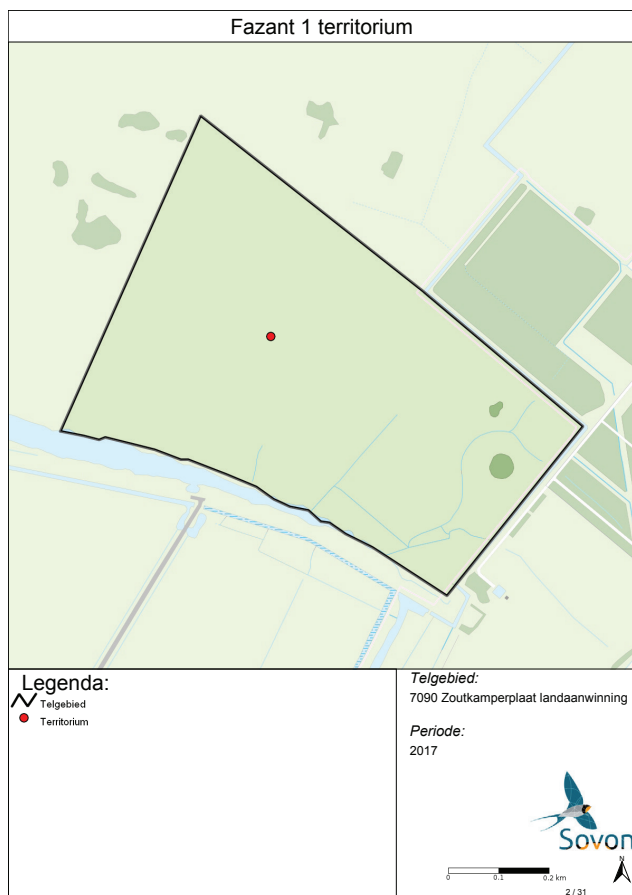


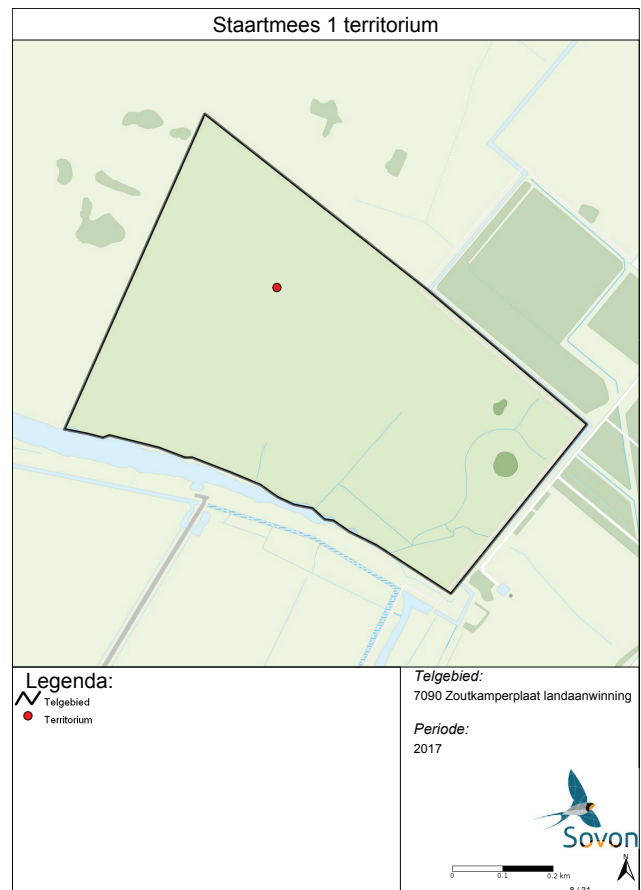
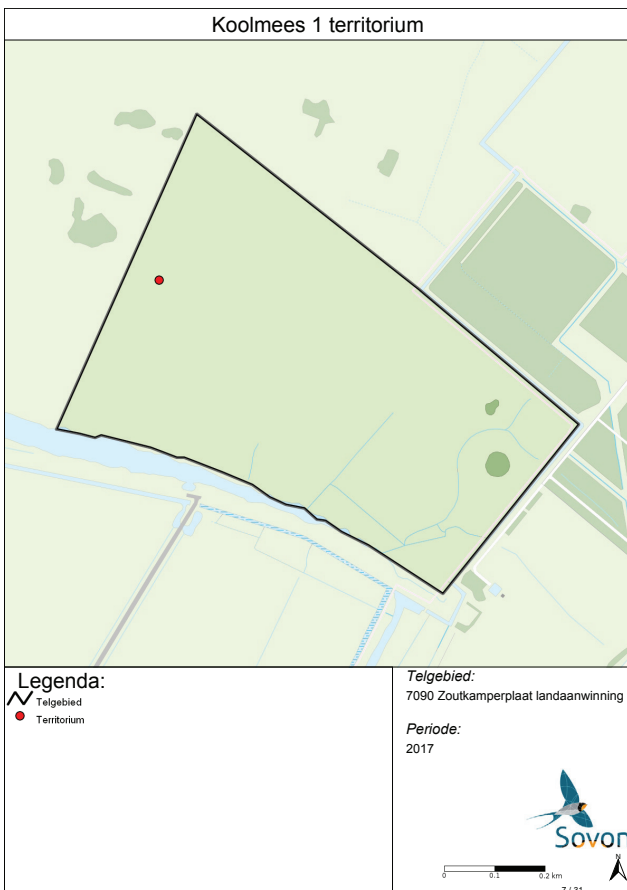
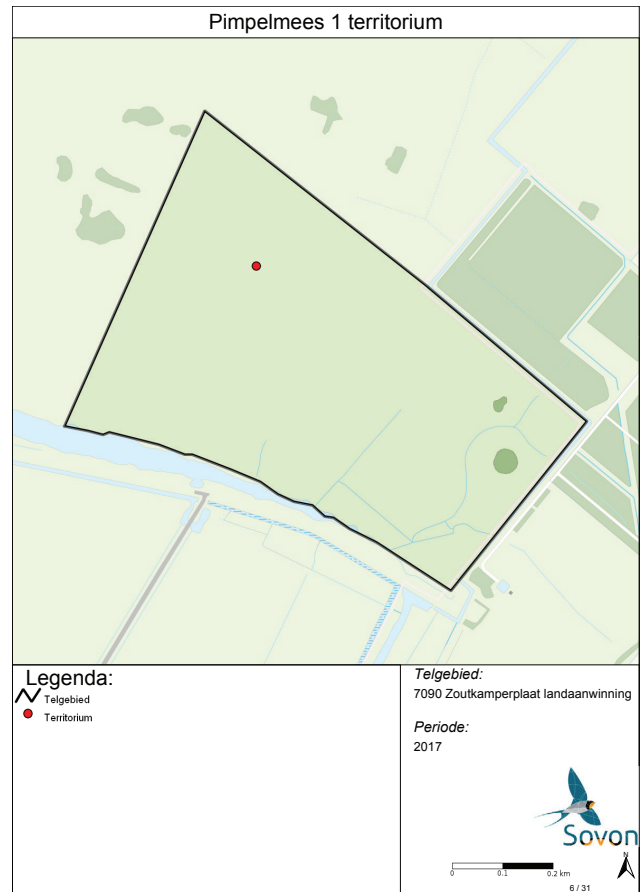


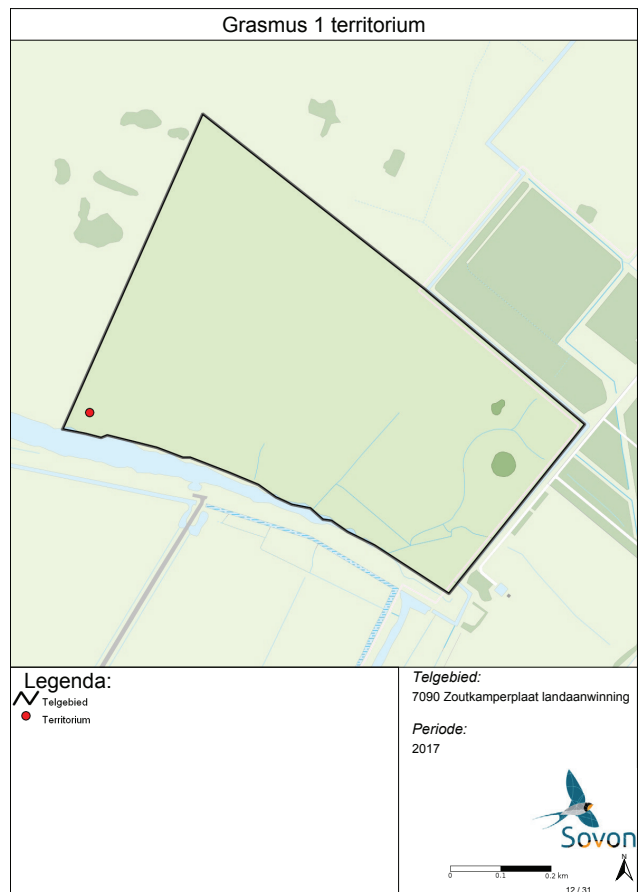
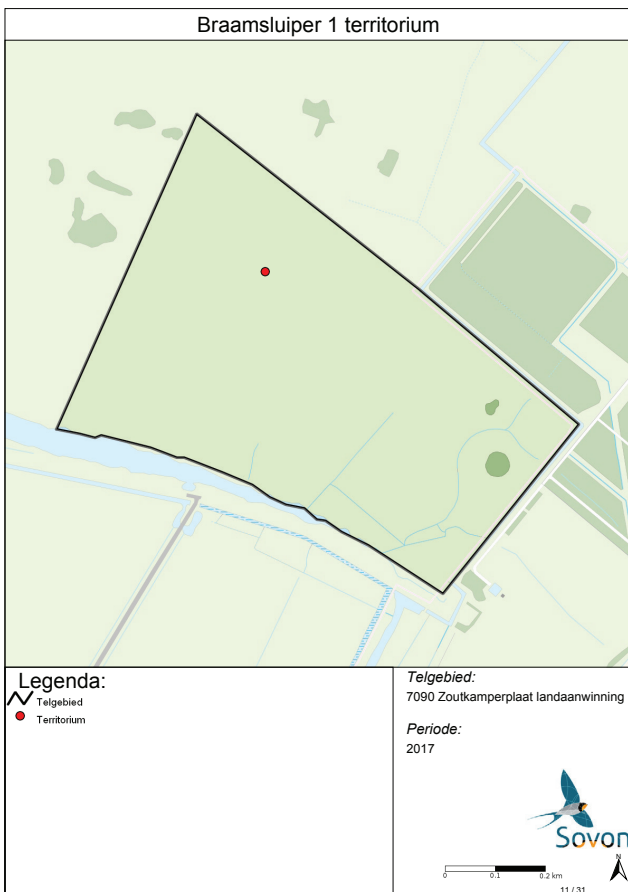
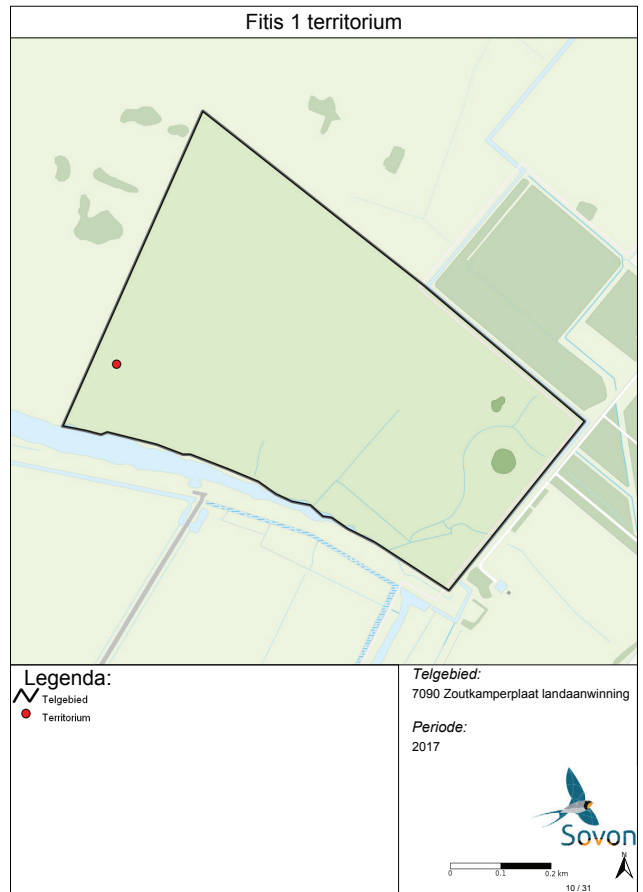


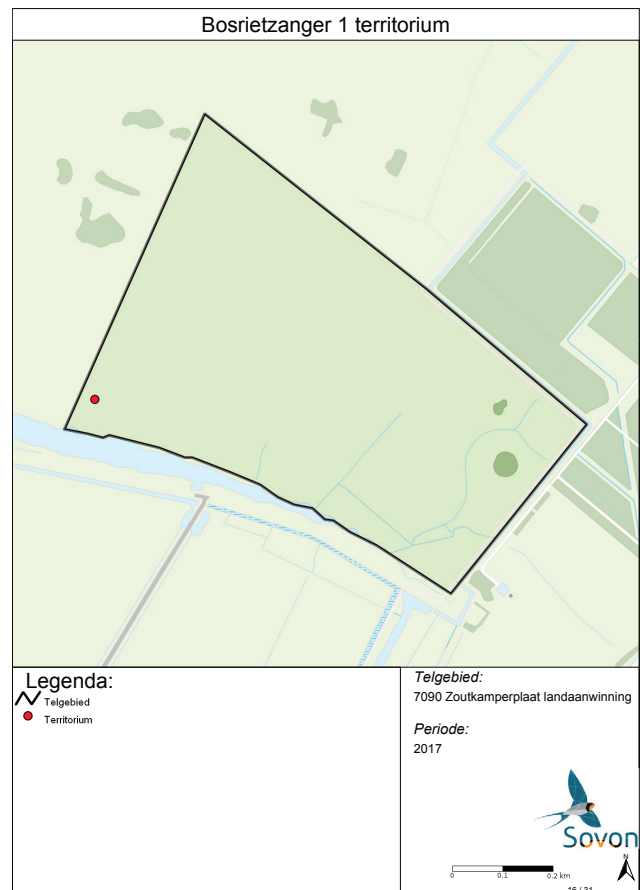
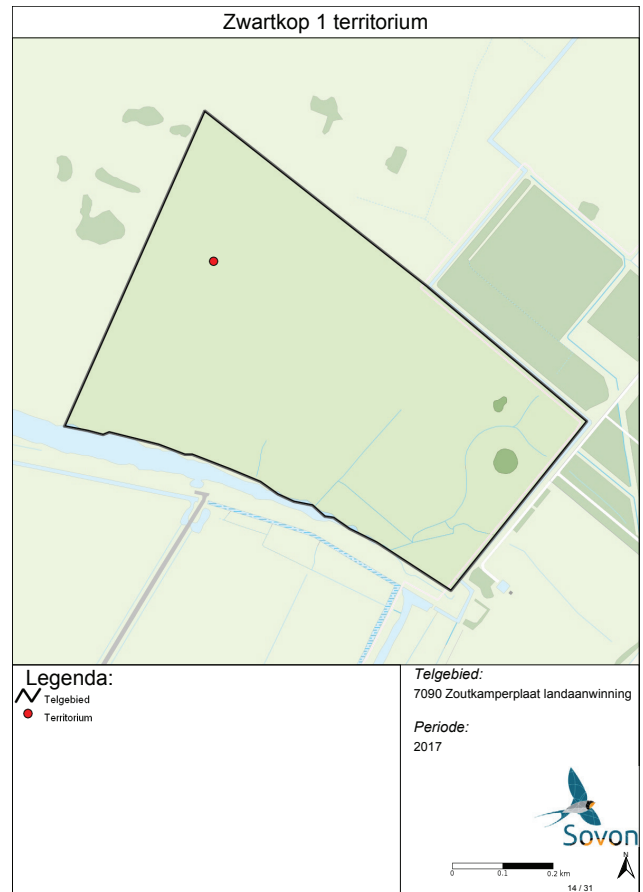


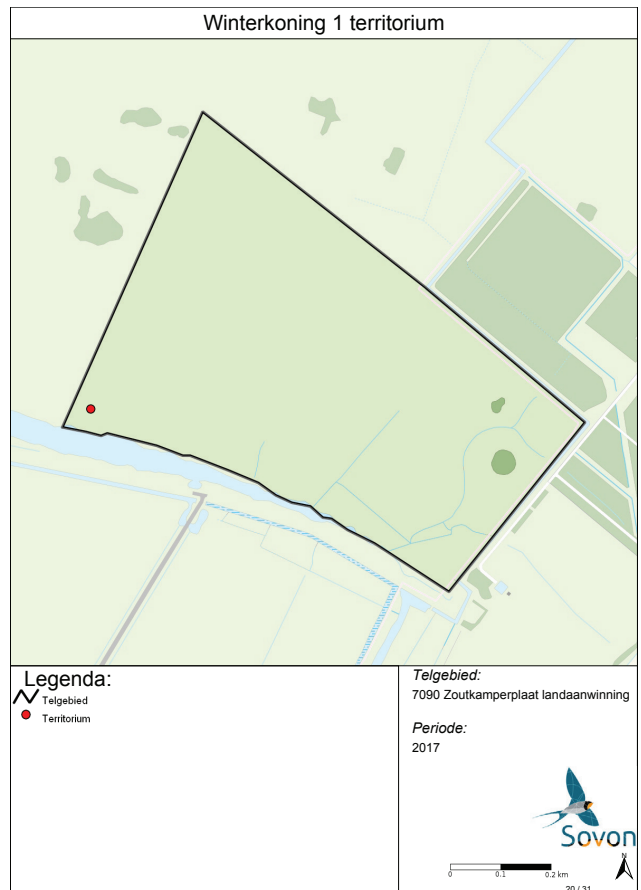
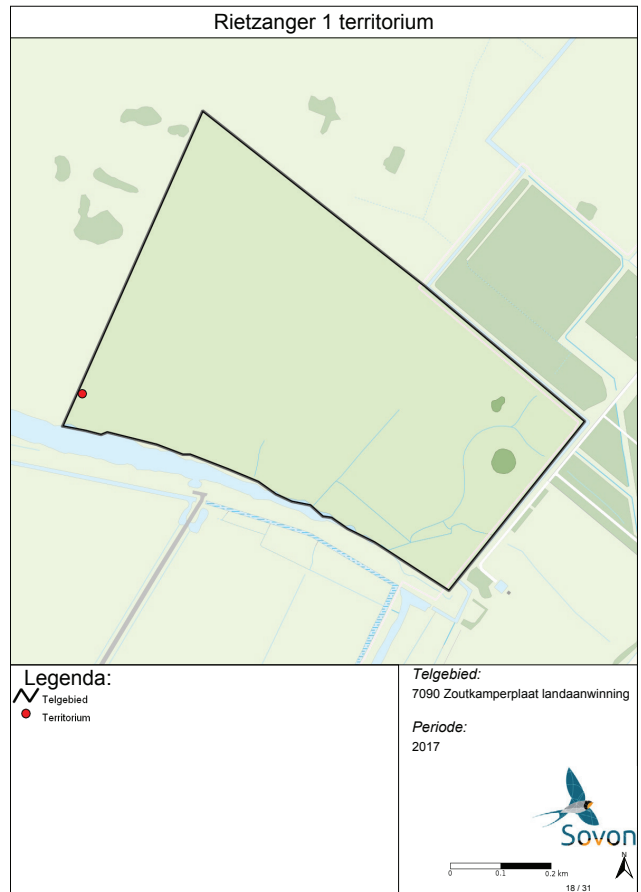
Bijlage 19j. Zoutkamperplaat landaanwinning 2017

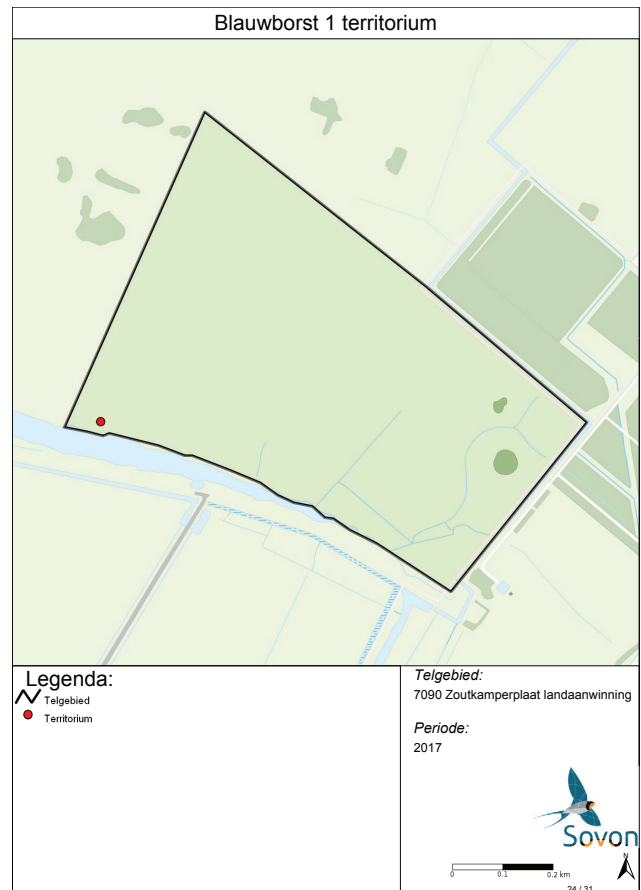
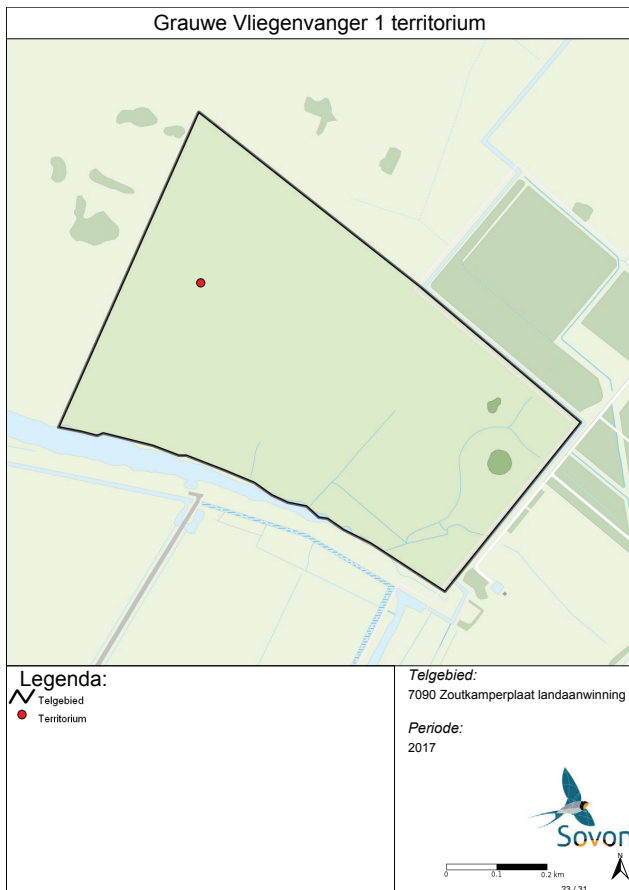
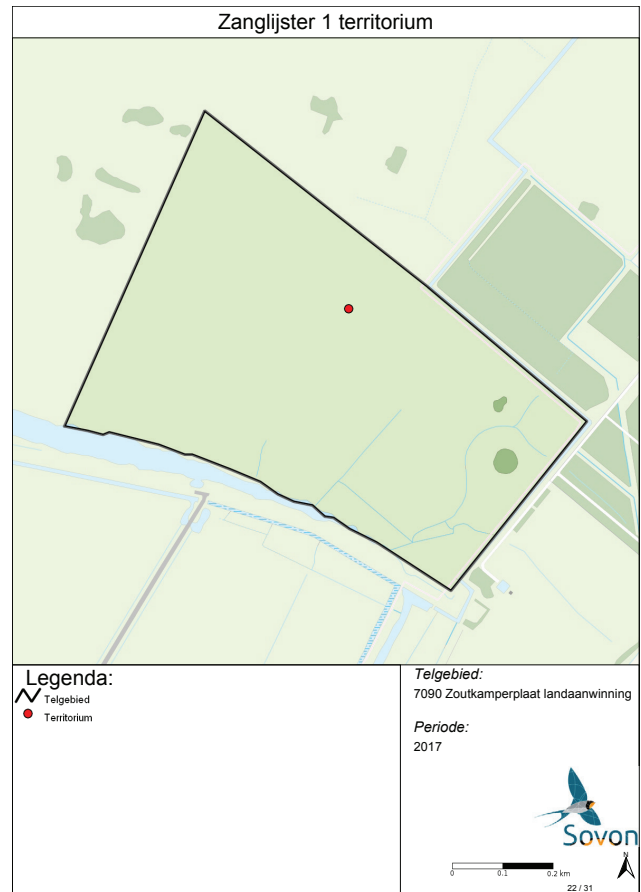
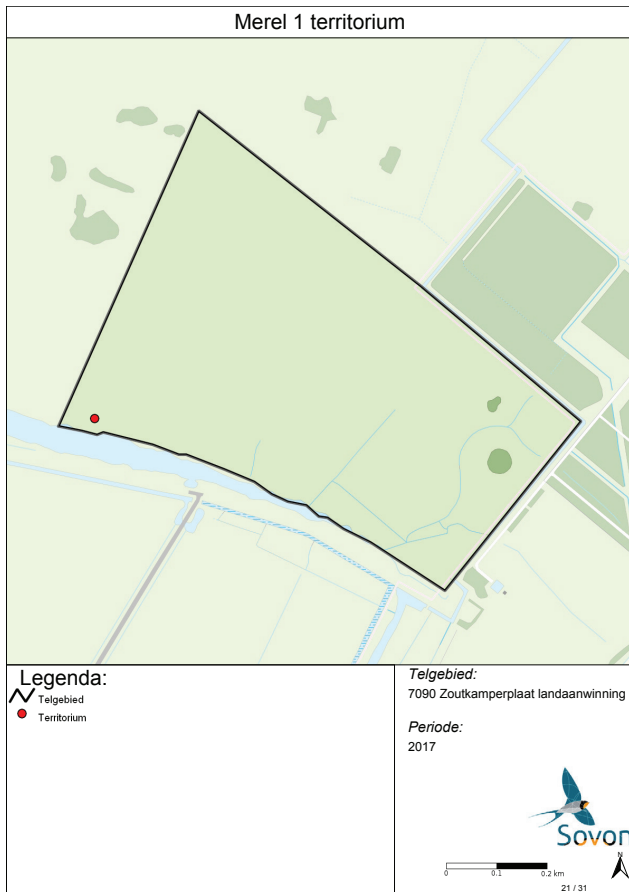


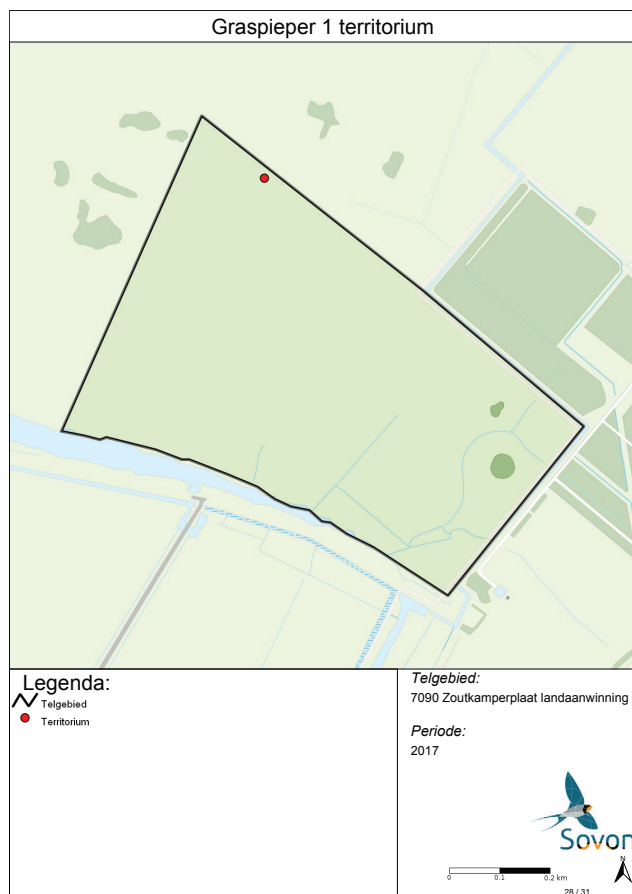


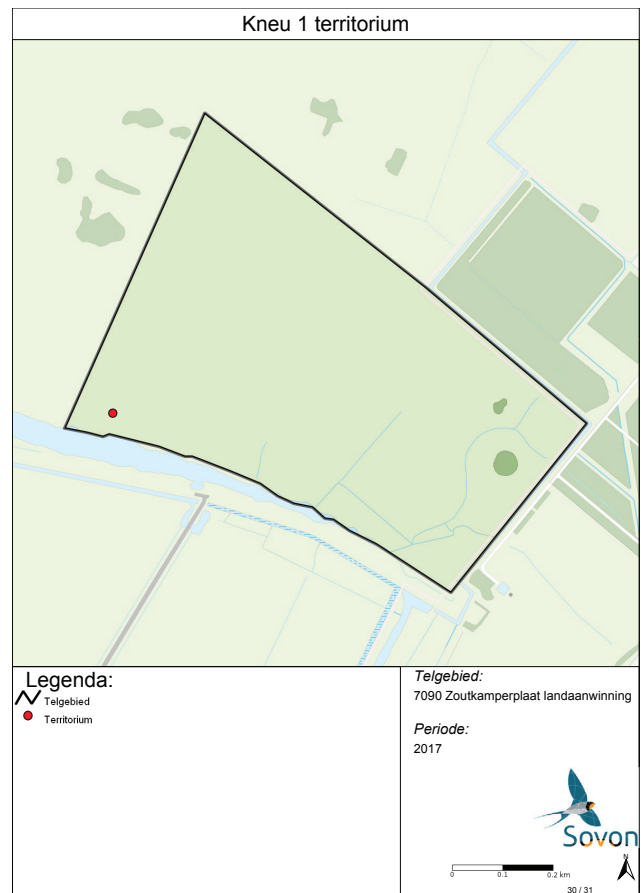
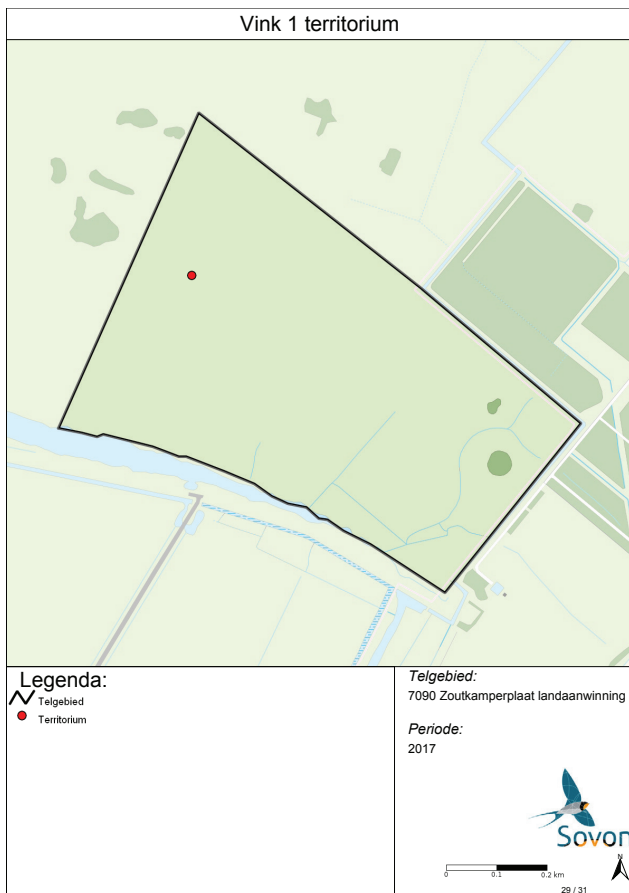




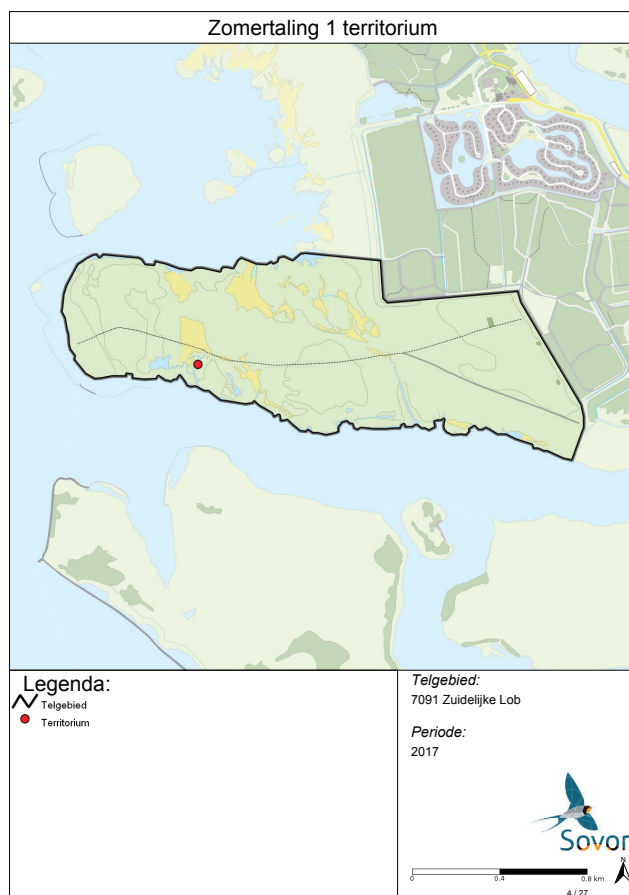
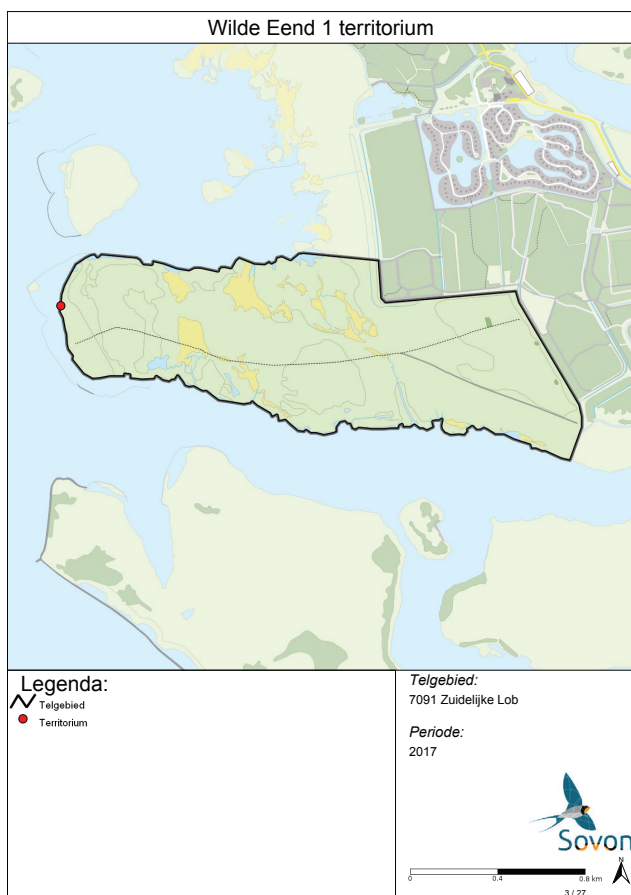
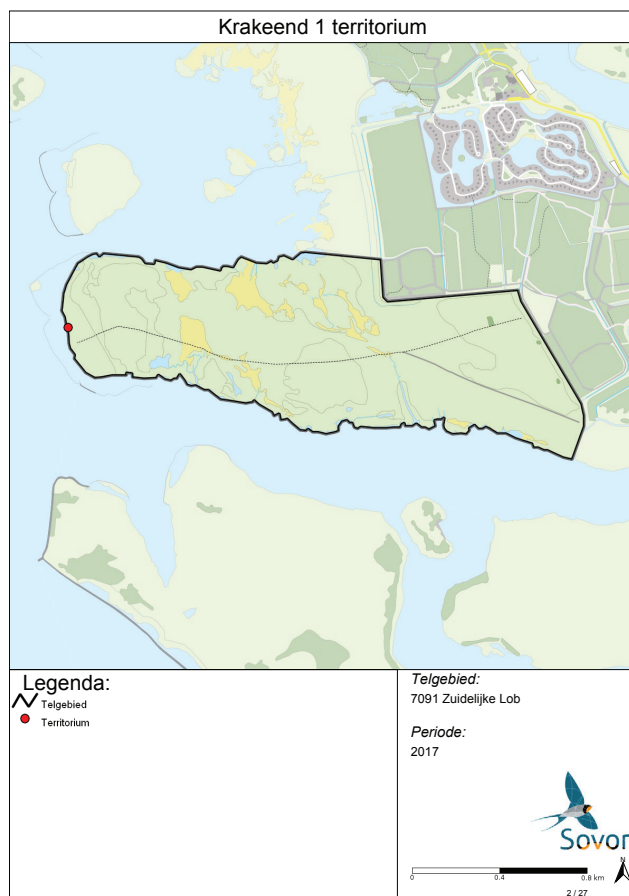
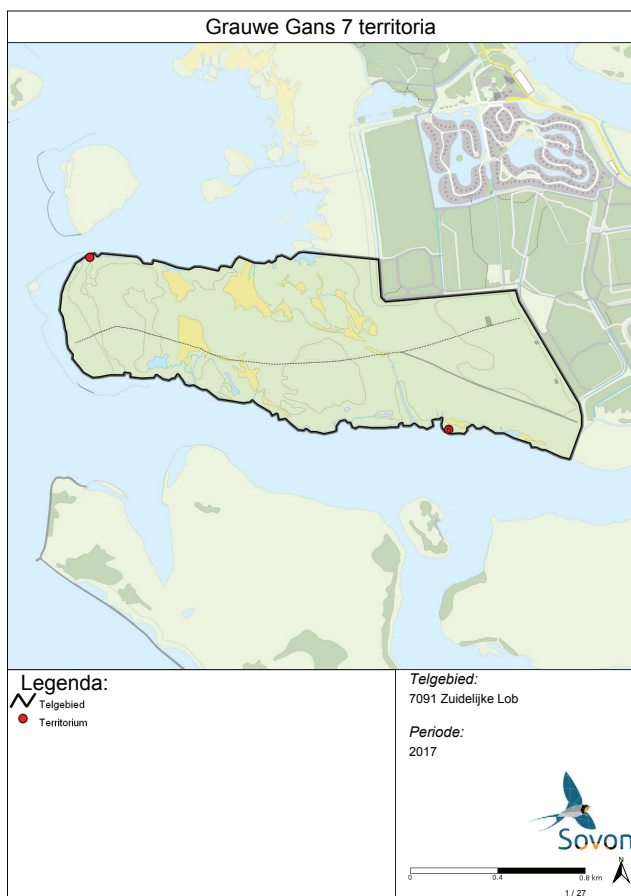


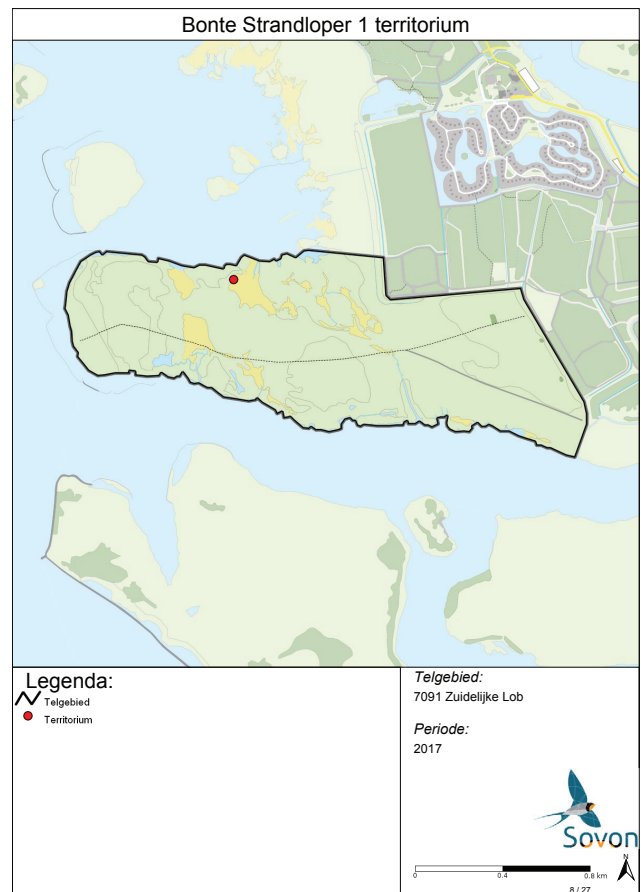
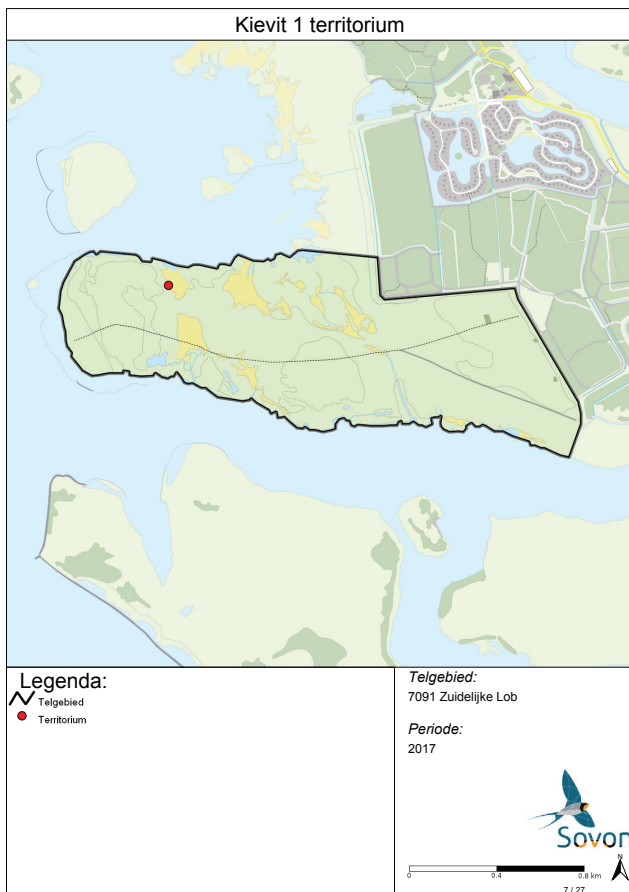
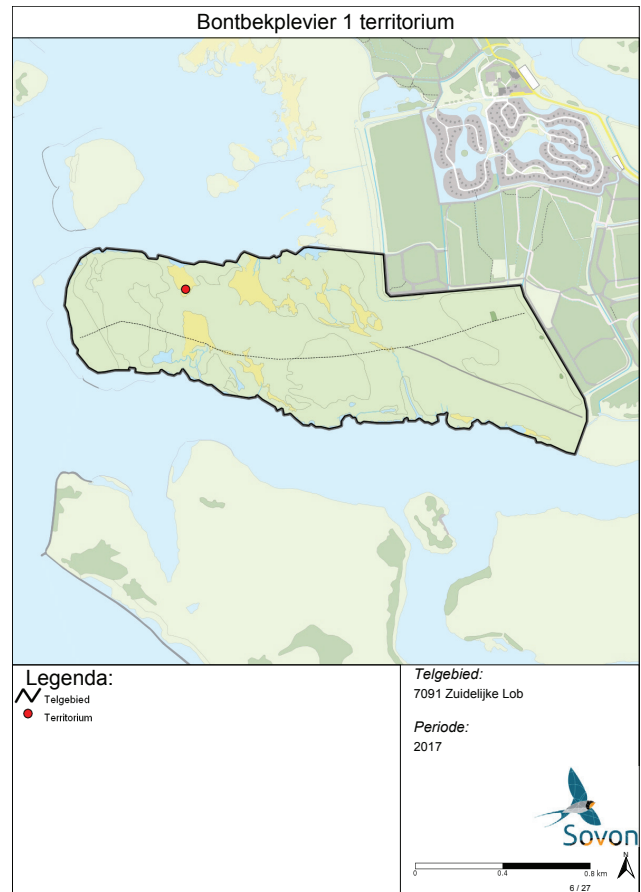
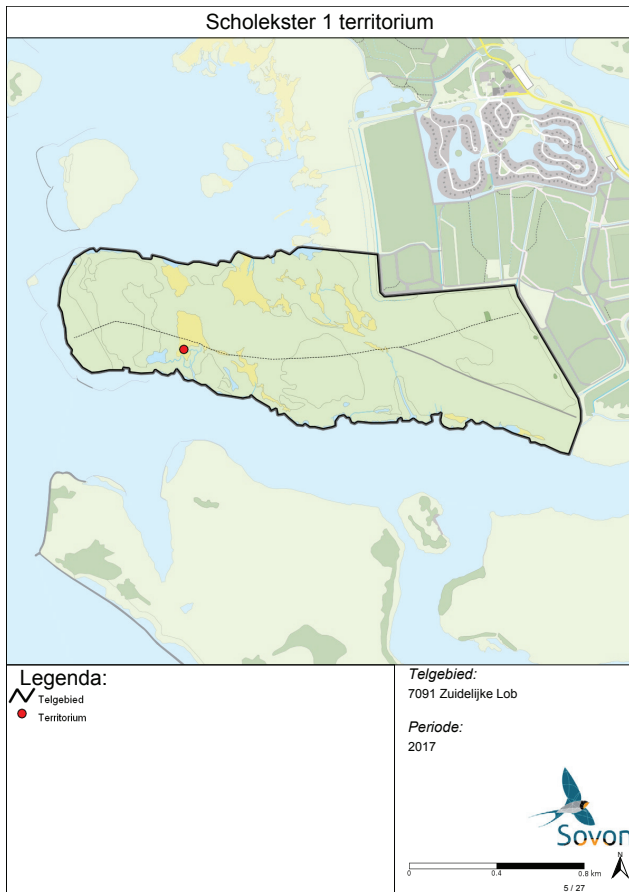


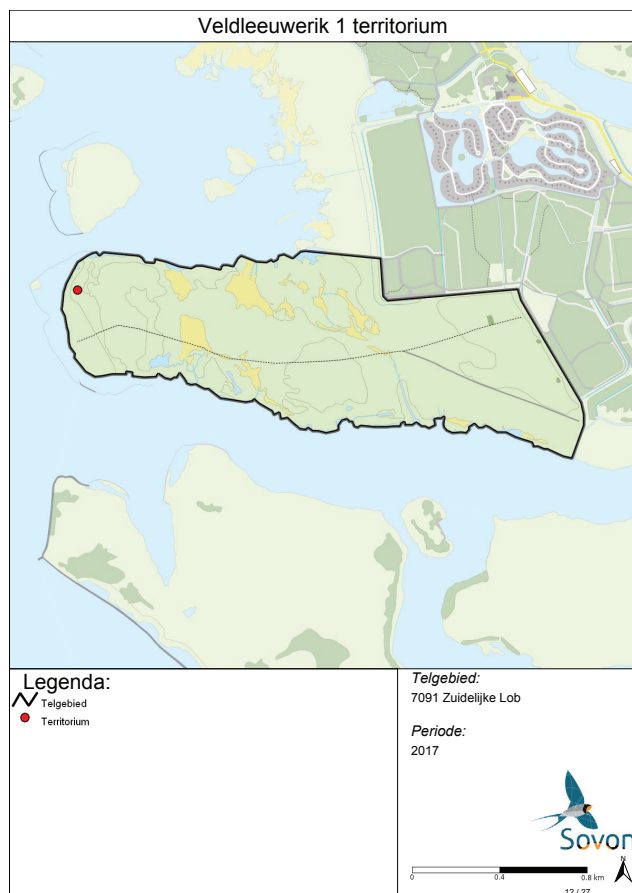
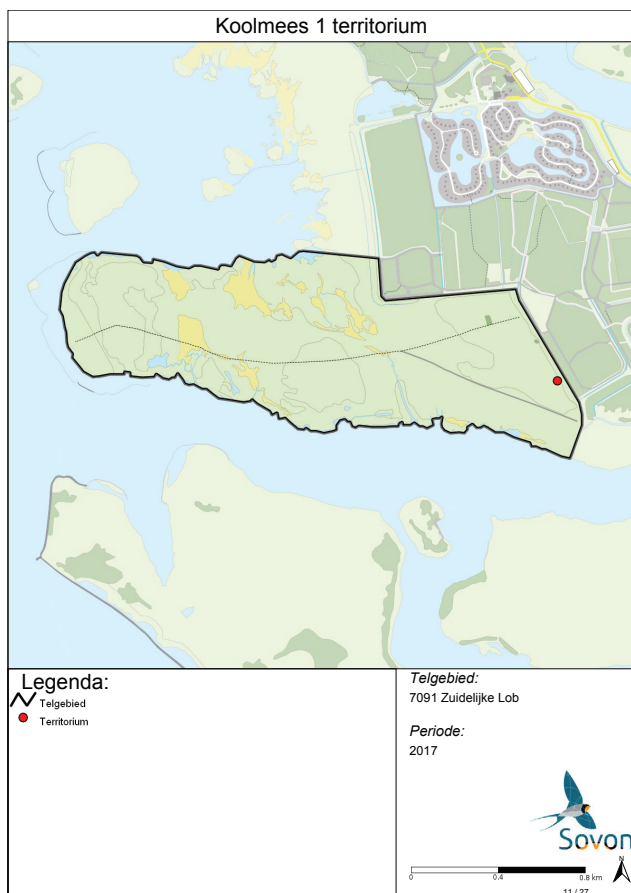
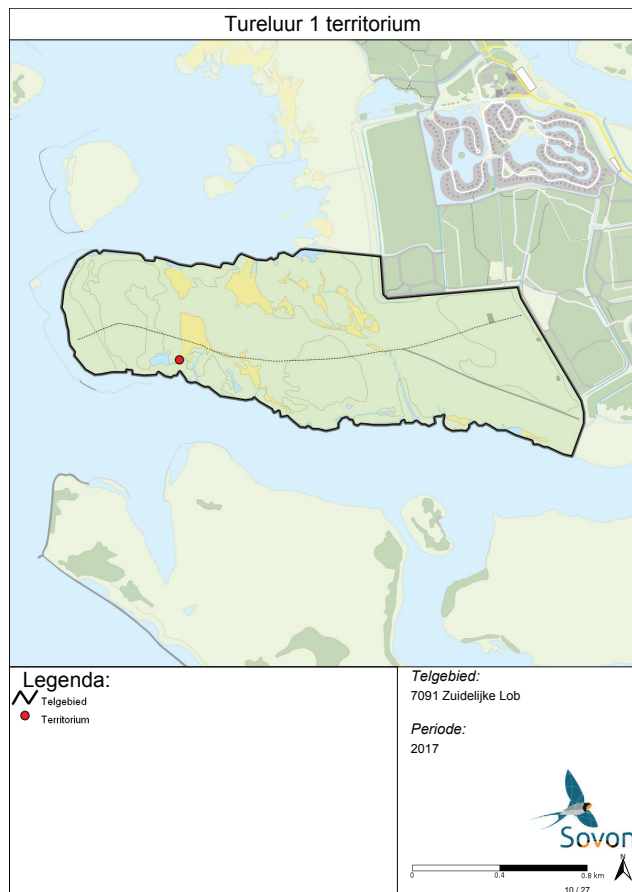
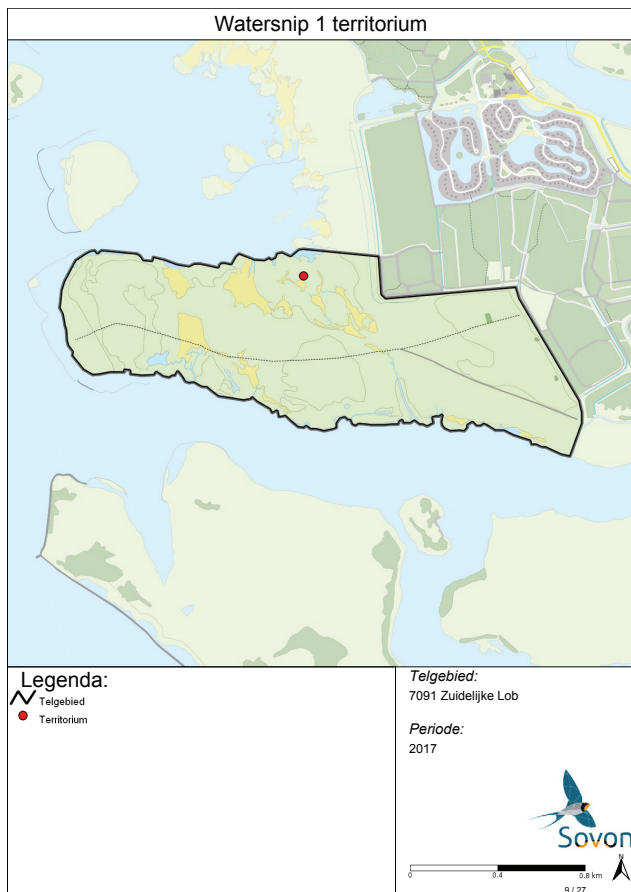


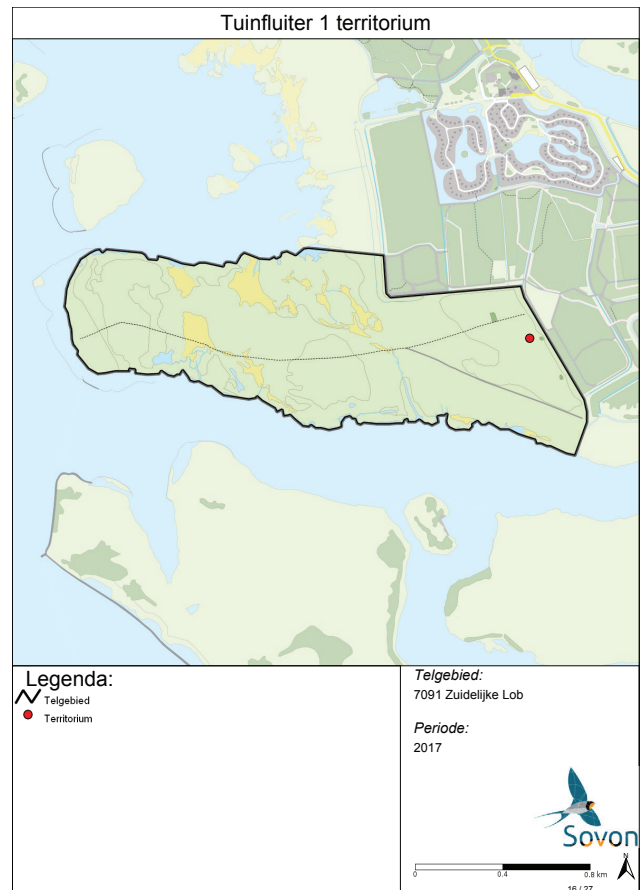
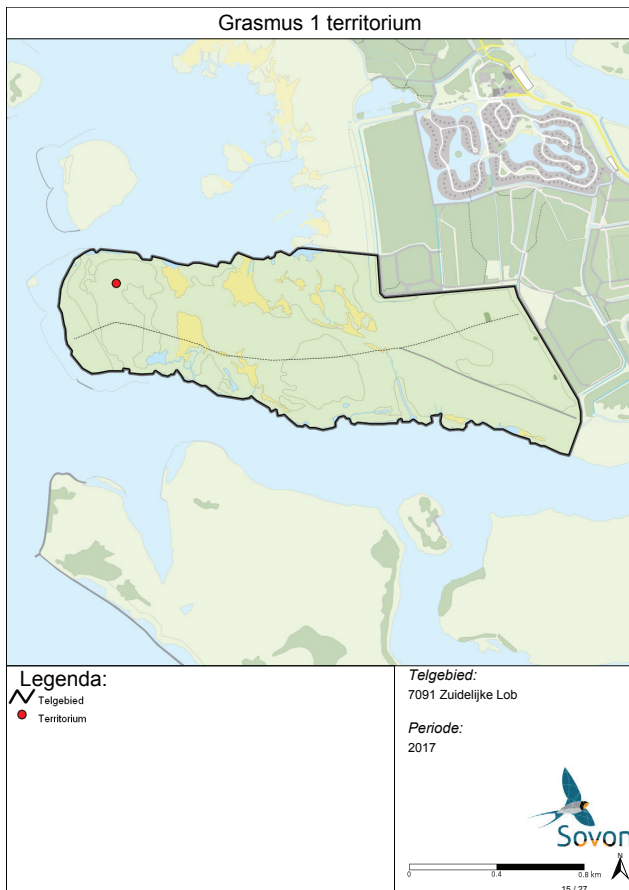
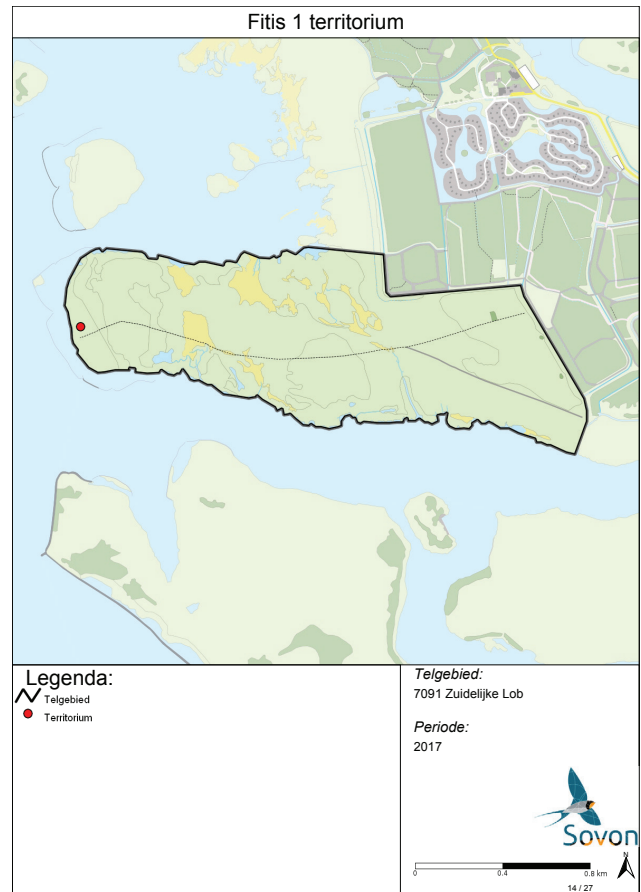
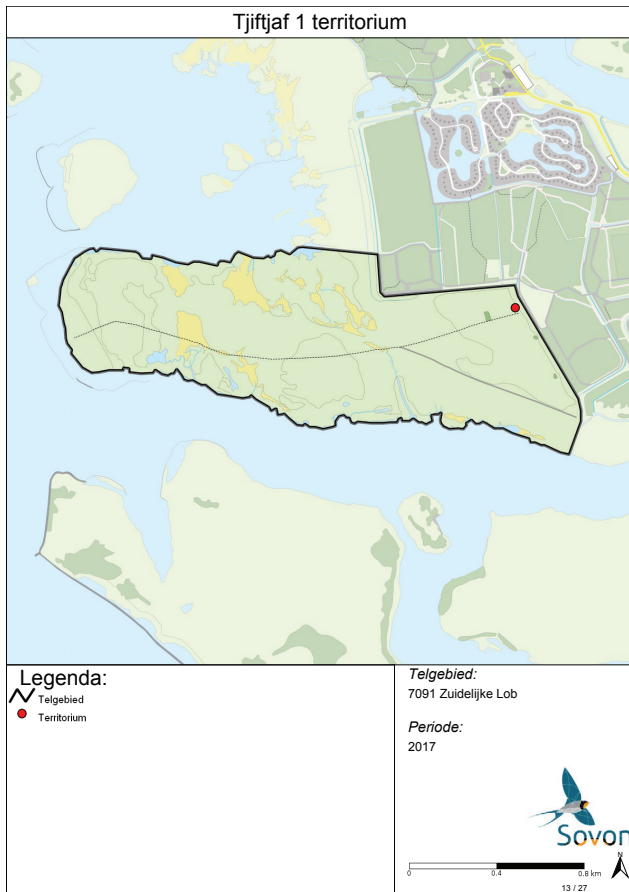


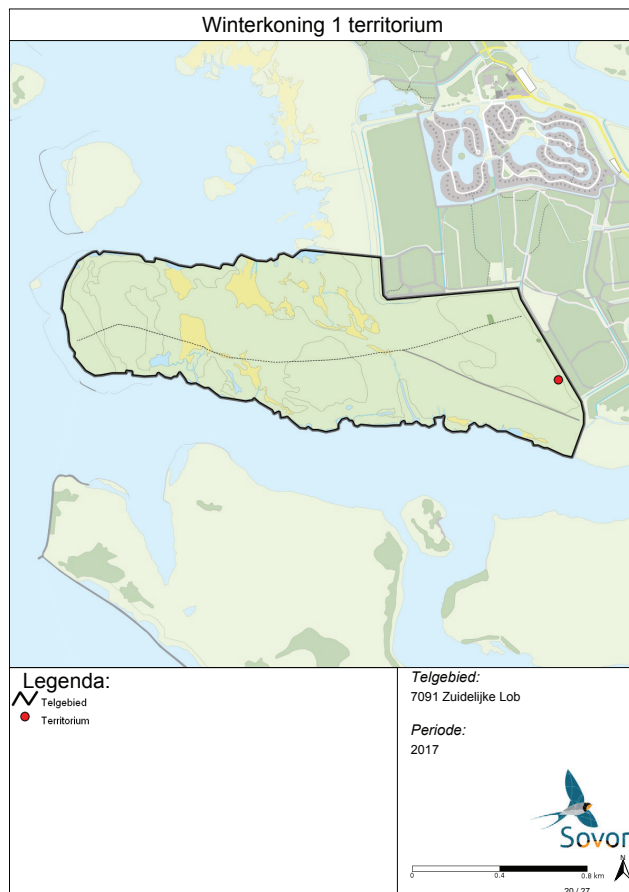
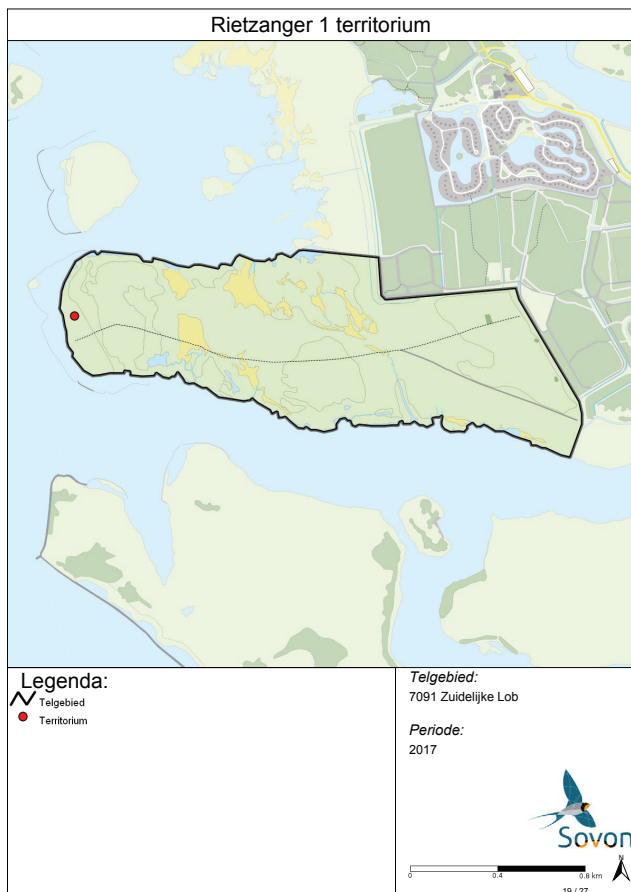
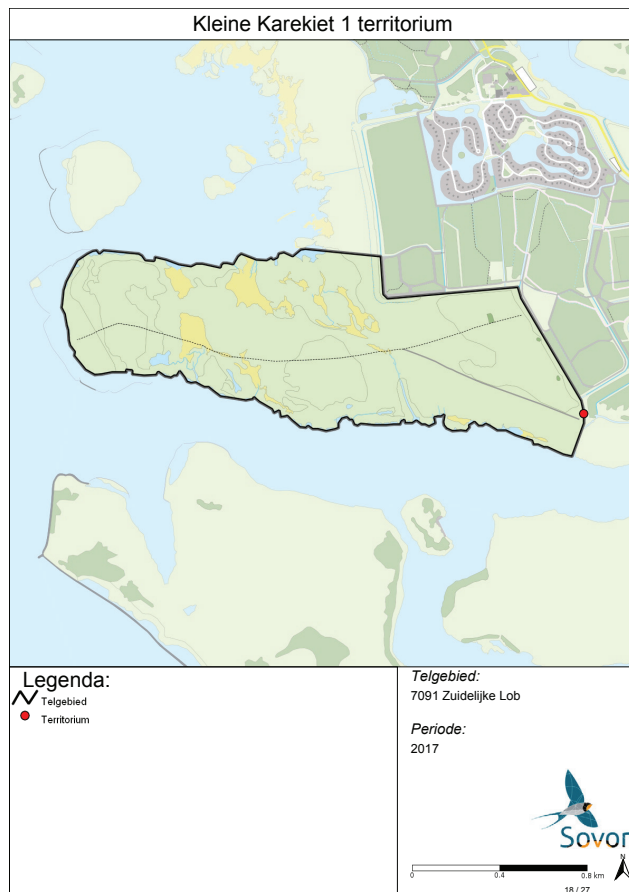
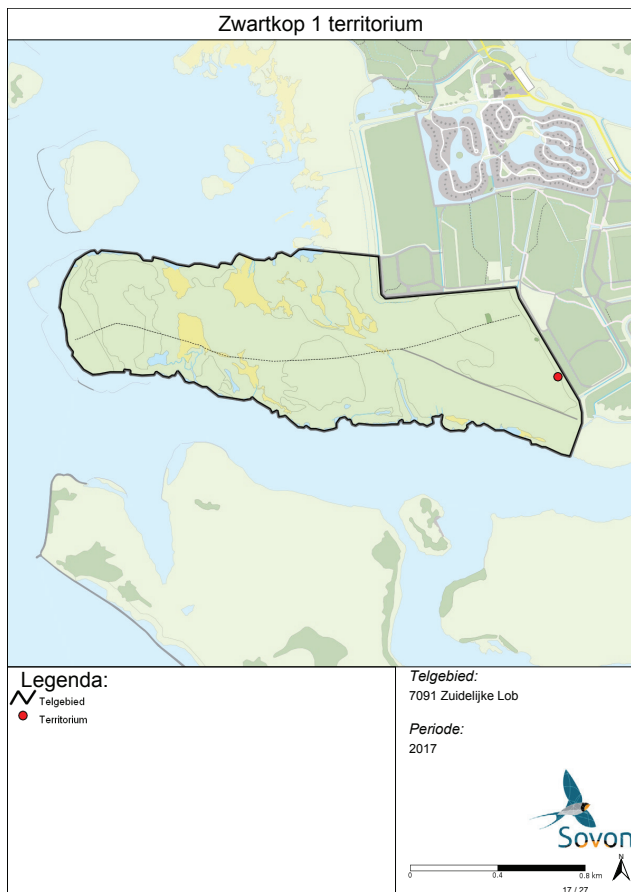
Bijlage 19k. Zuidelijke Lob 2017

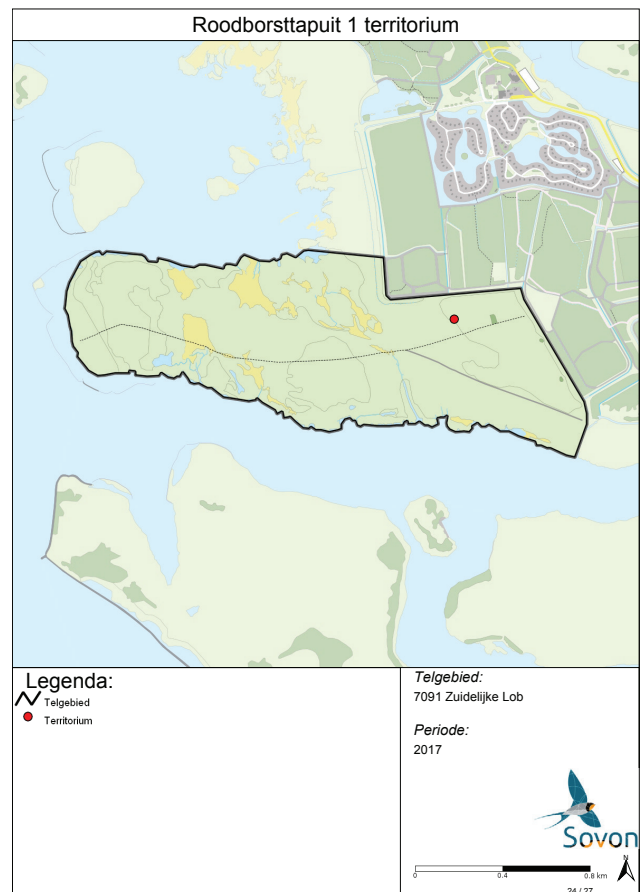
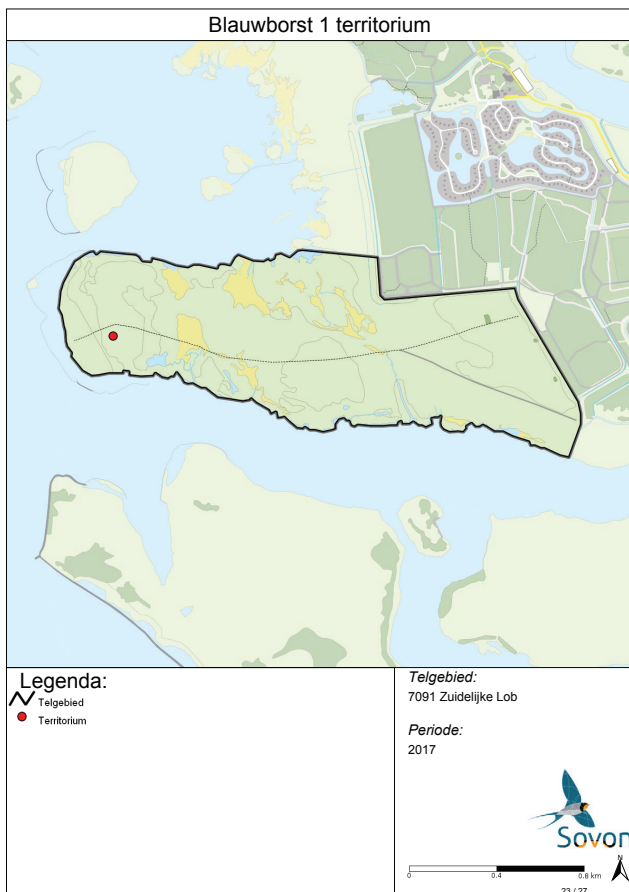
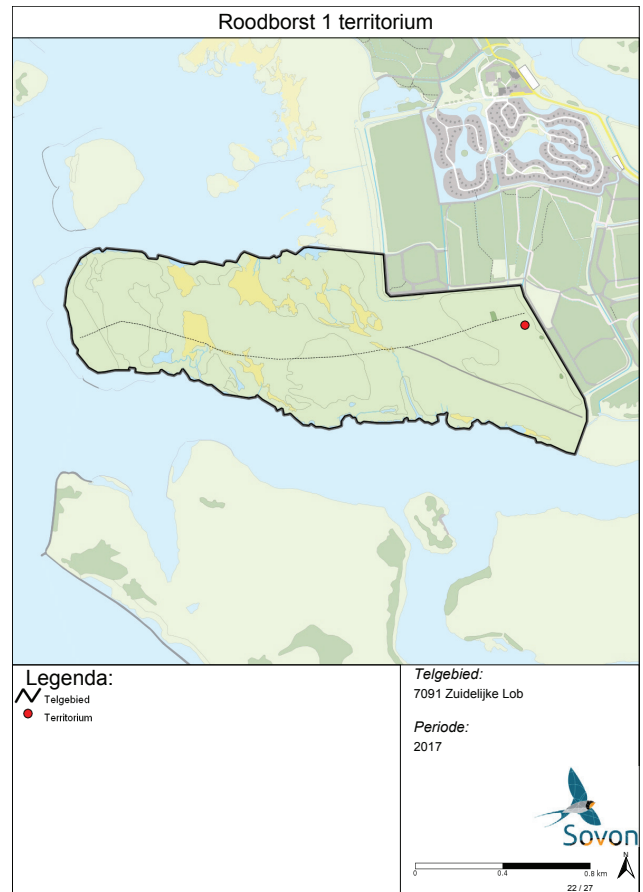
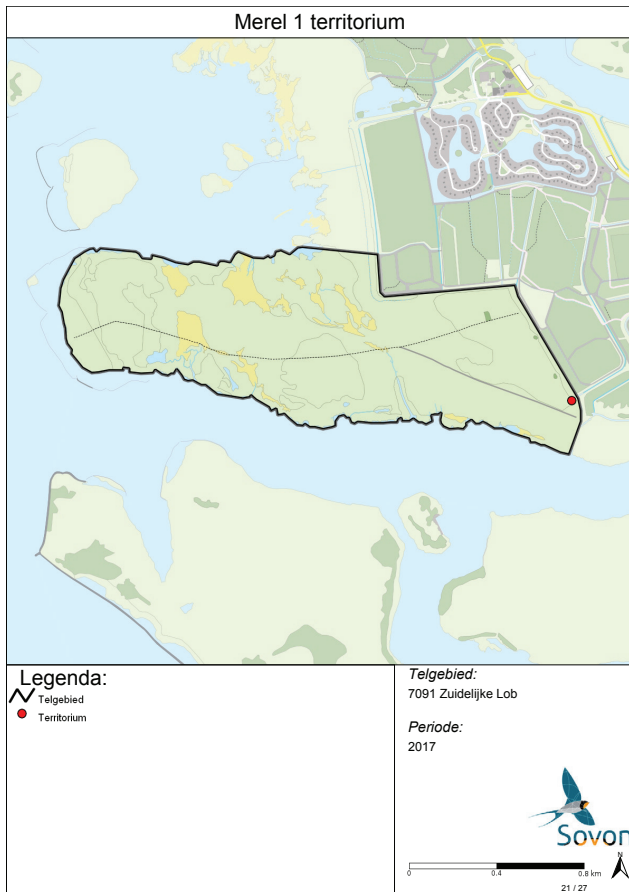


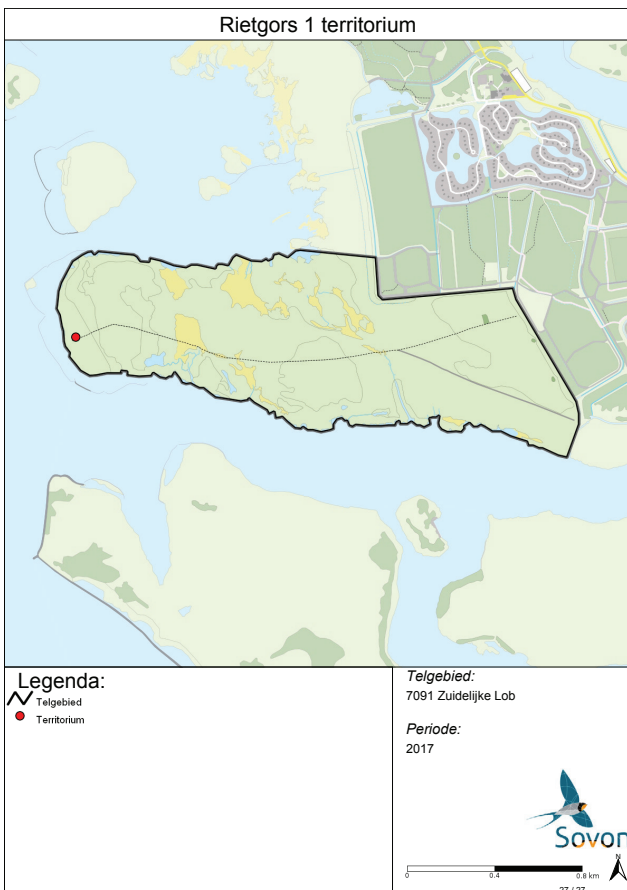
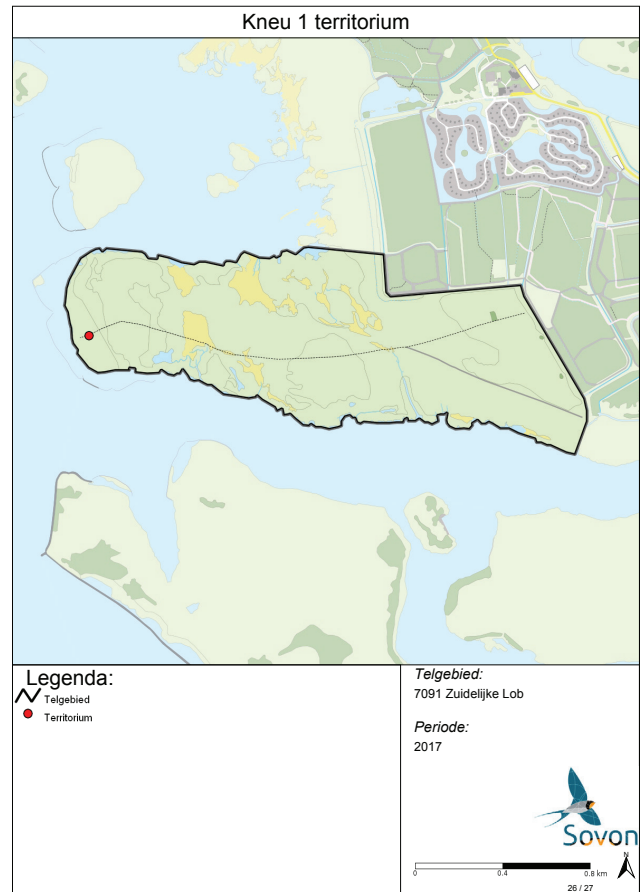
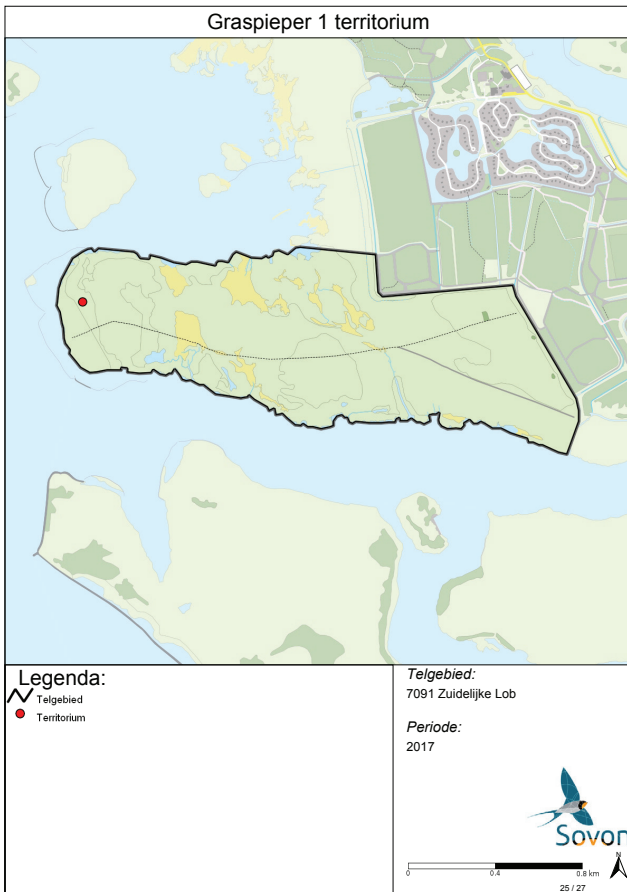




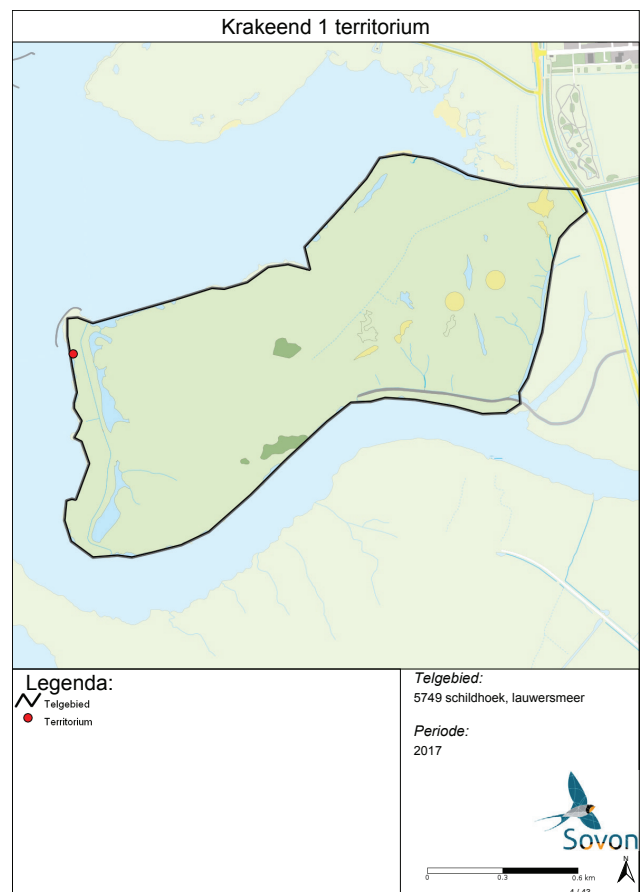
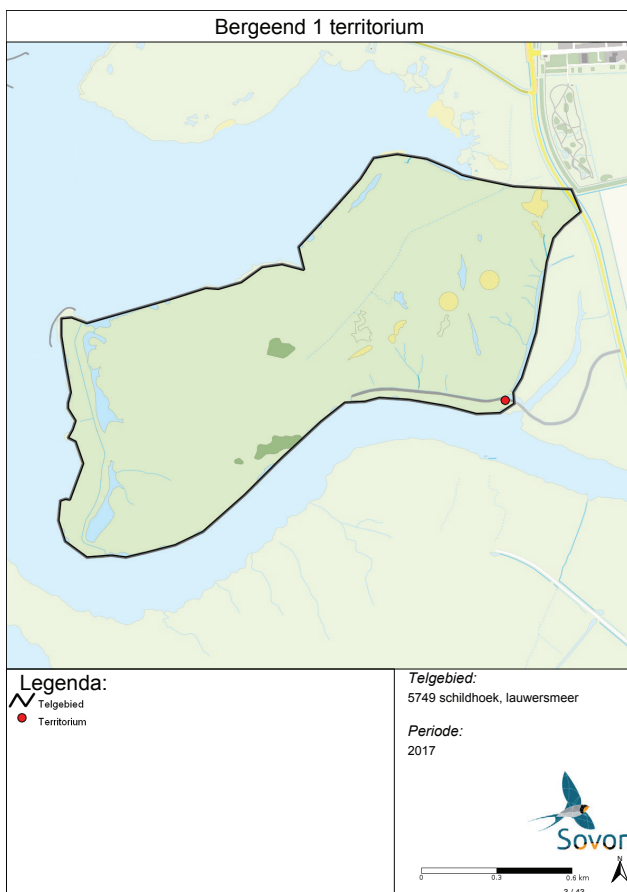
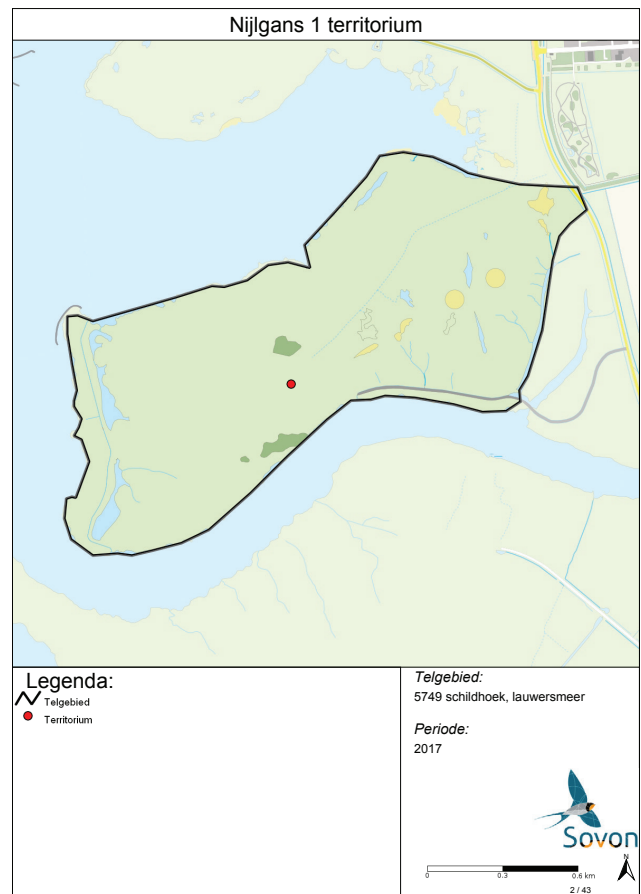
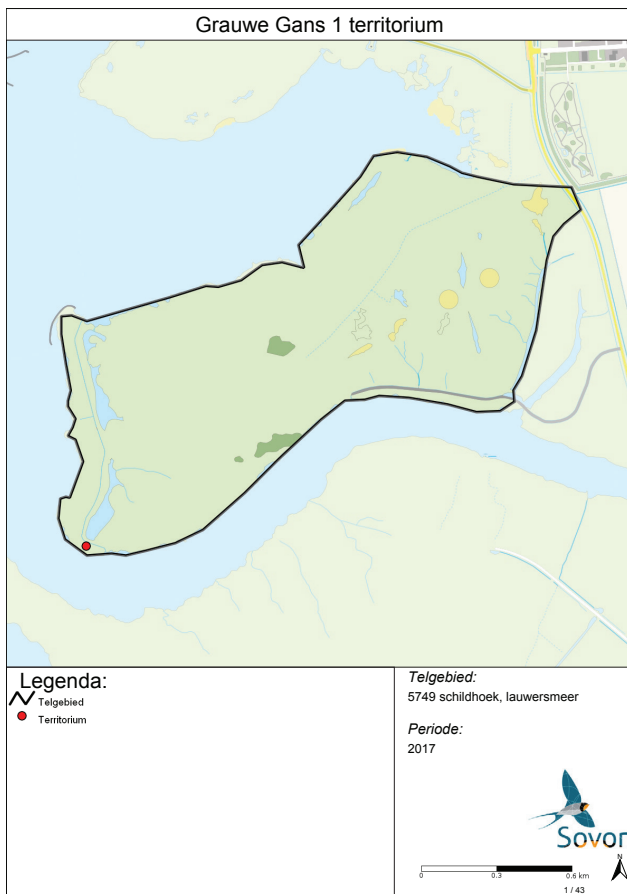


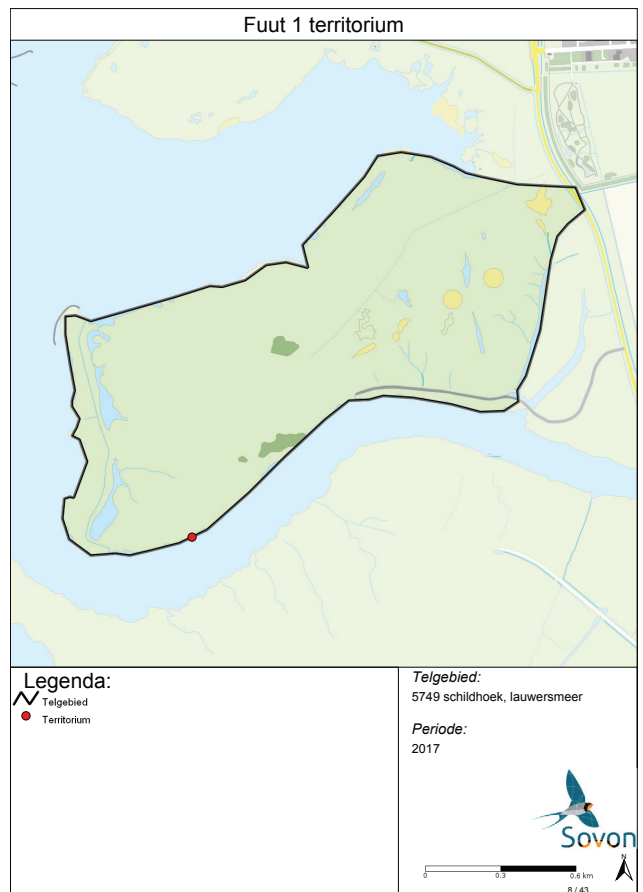
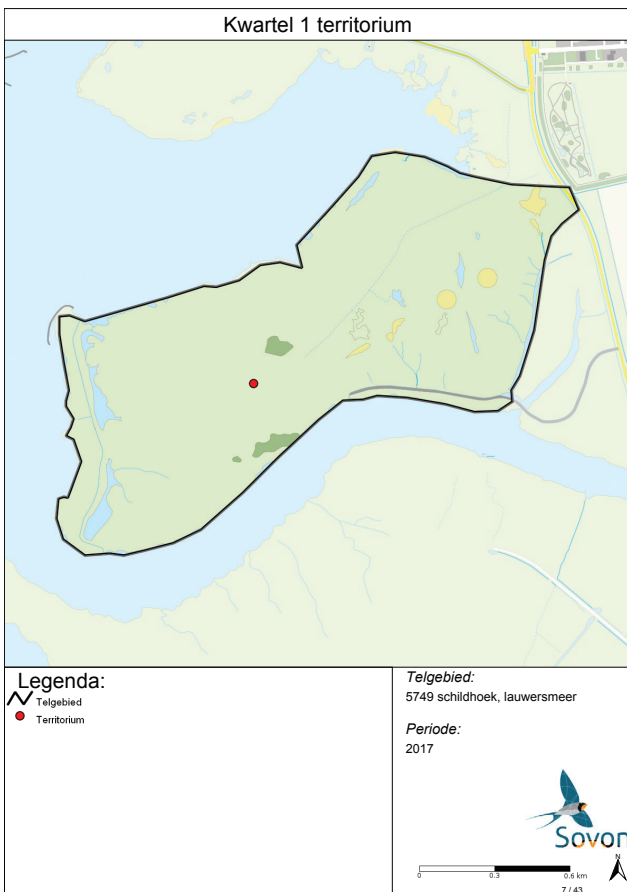
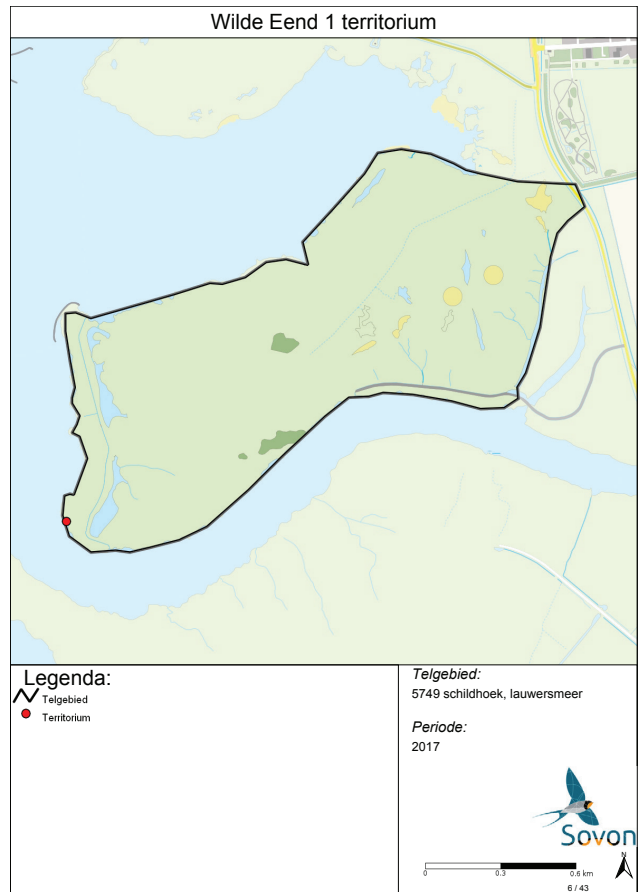
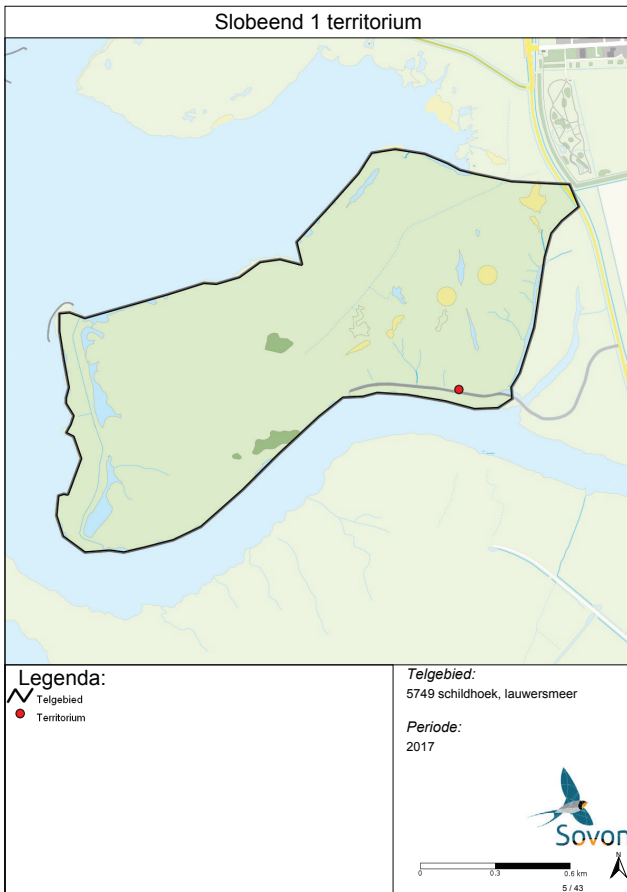


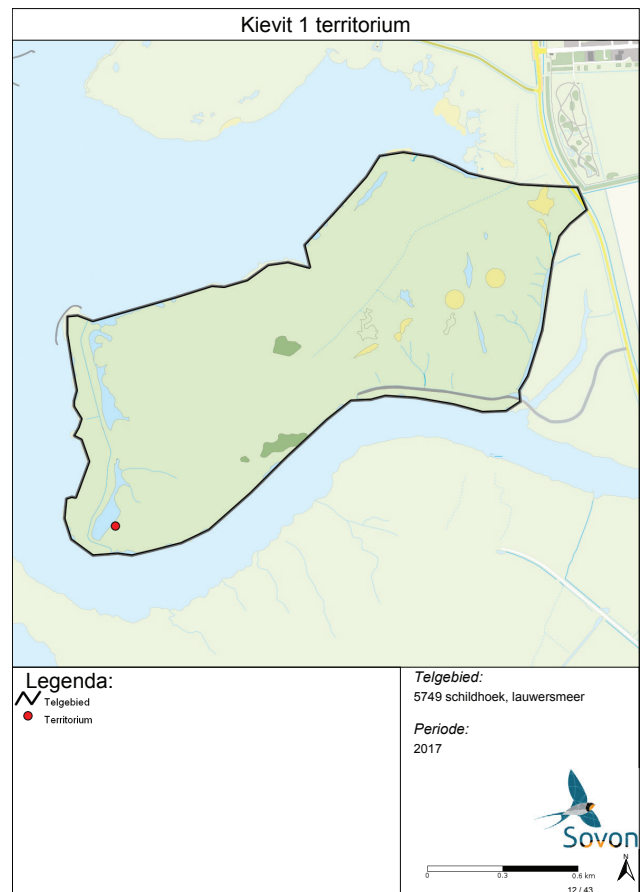
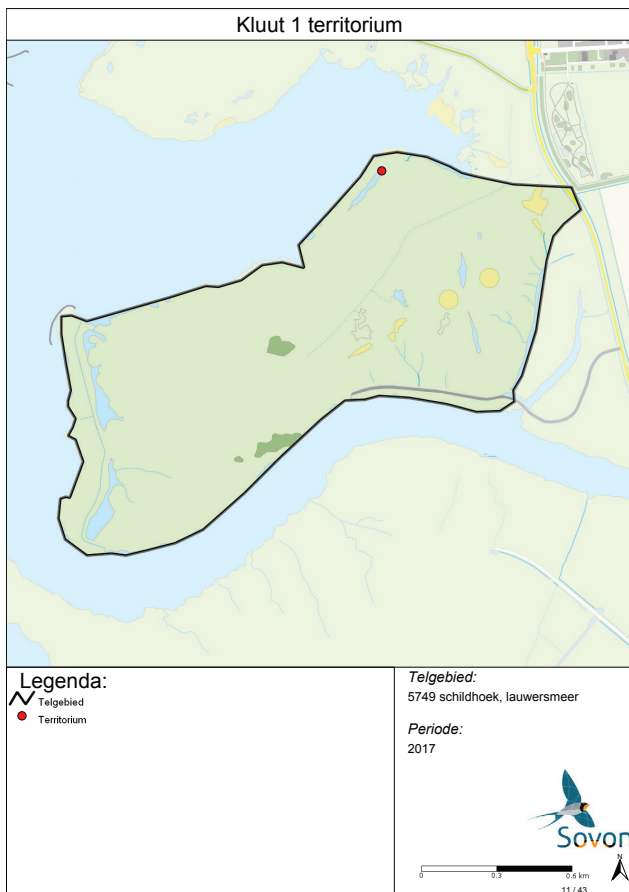
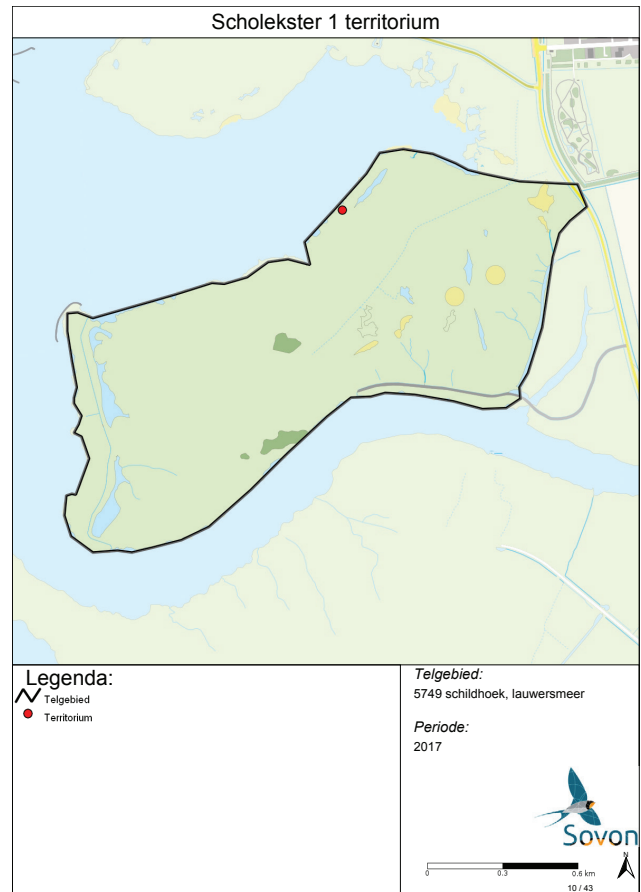
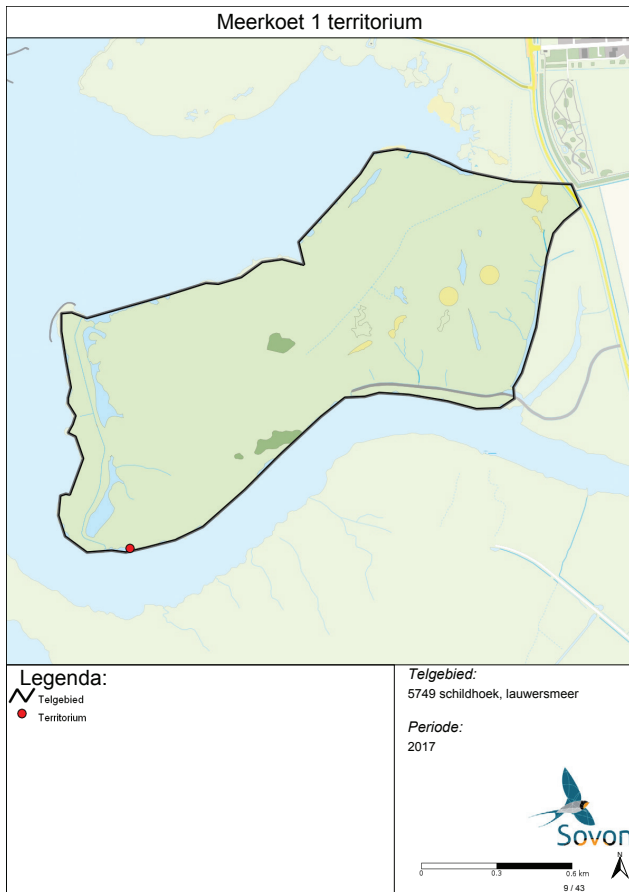


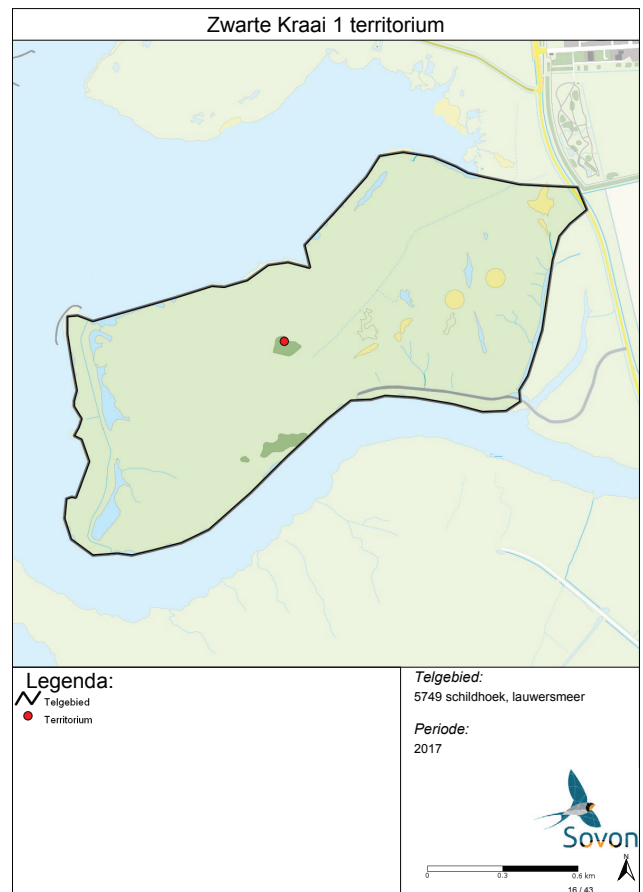
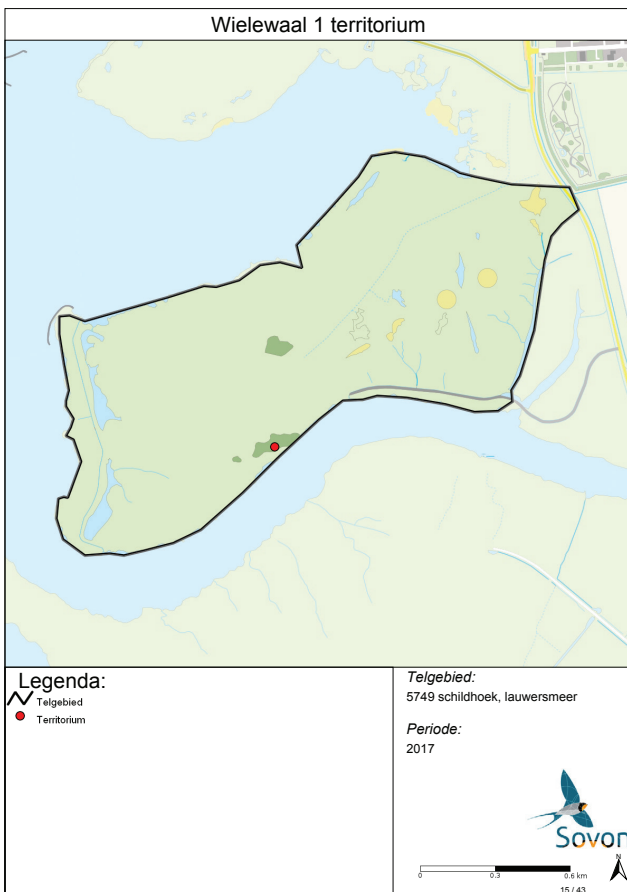
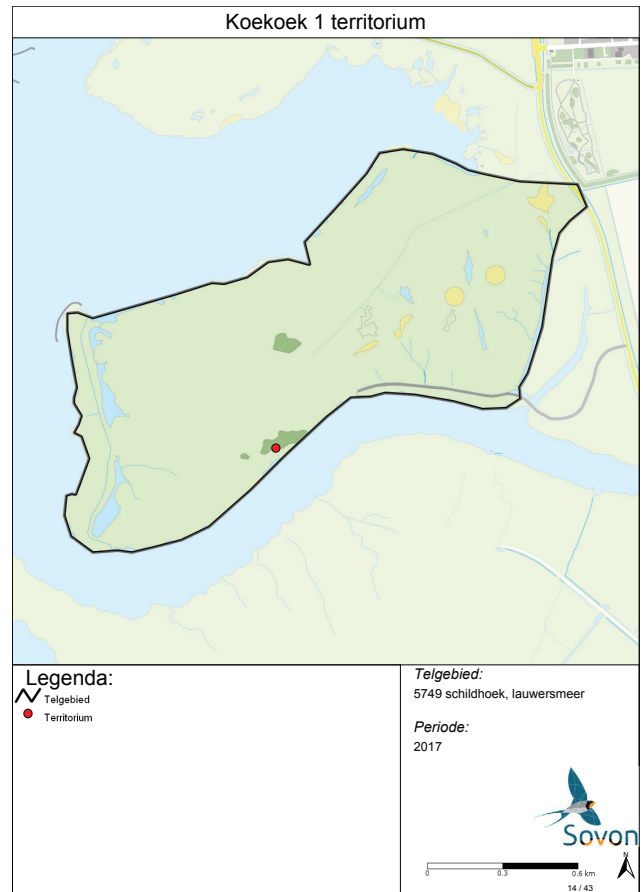
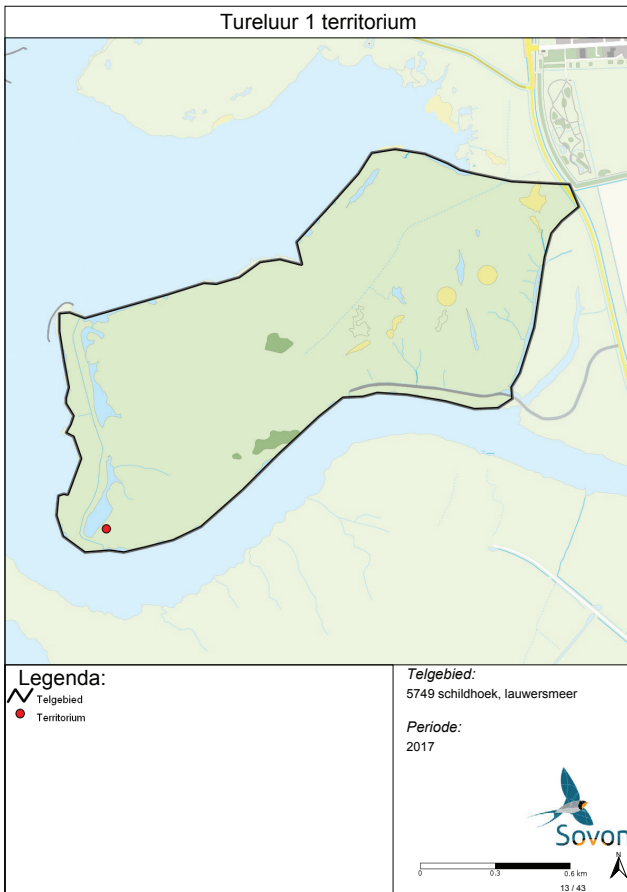


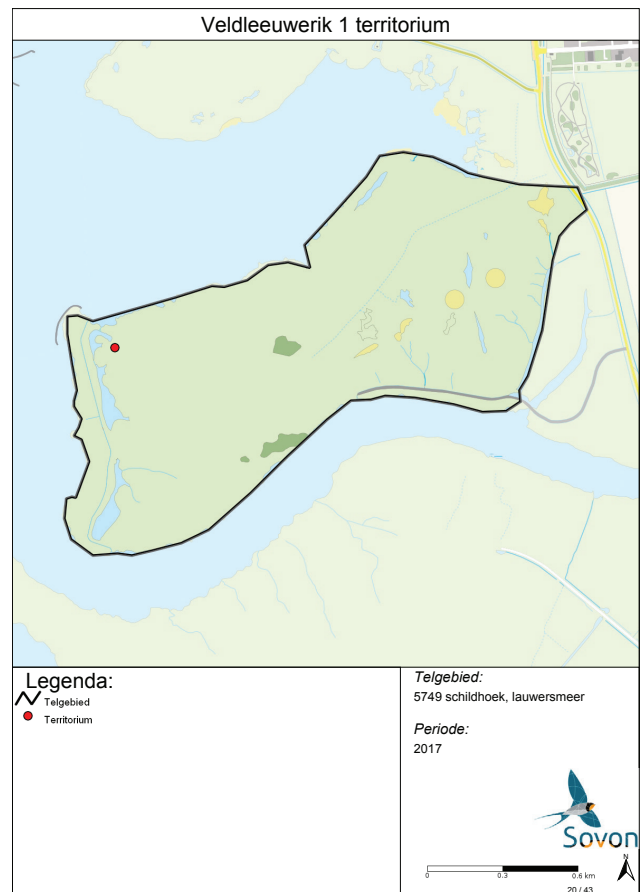
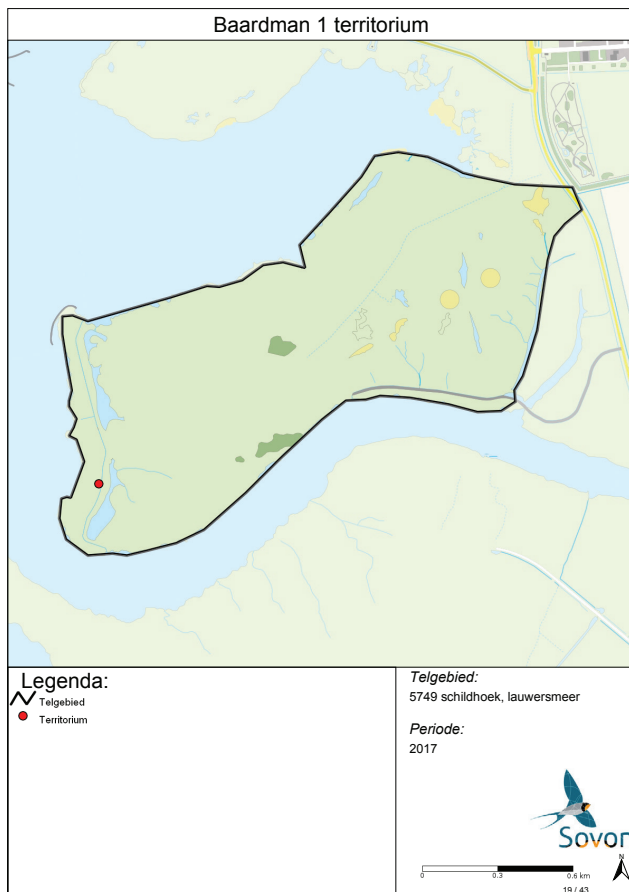
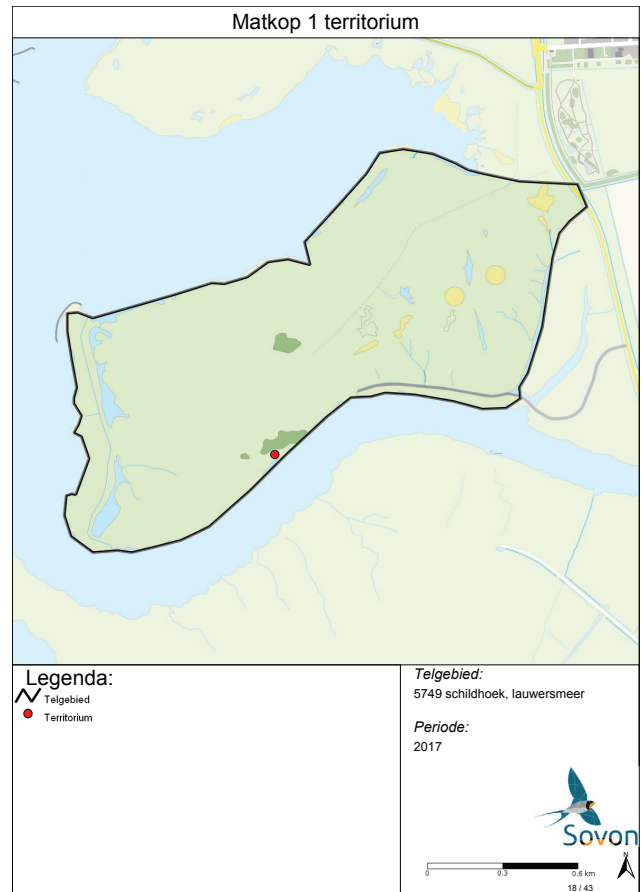
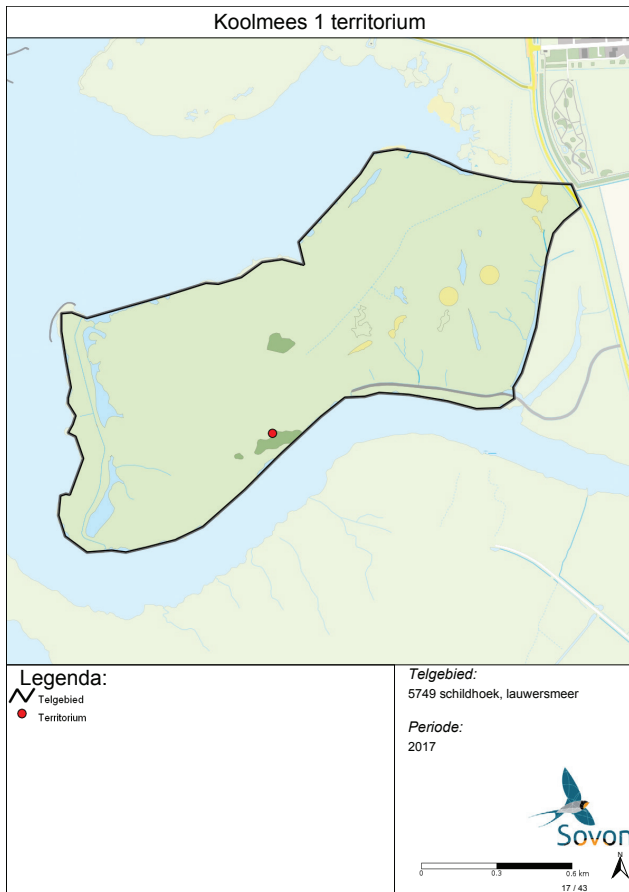
Bijlage 19I. Schildhoek-Lauwersmeer 2017

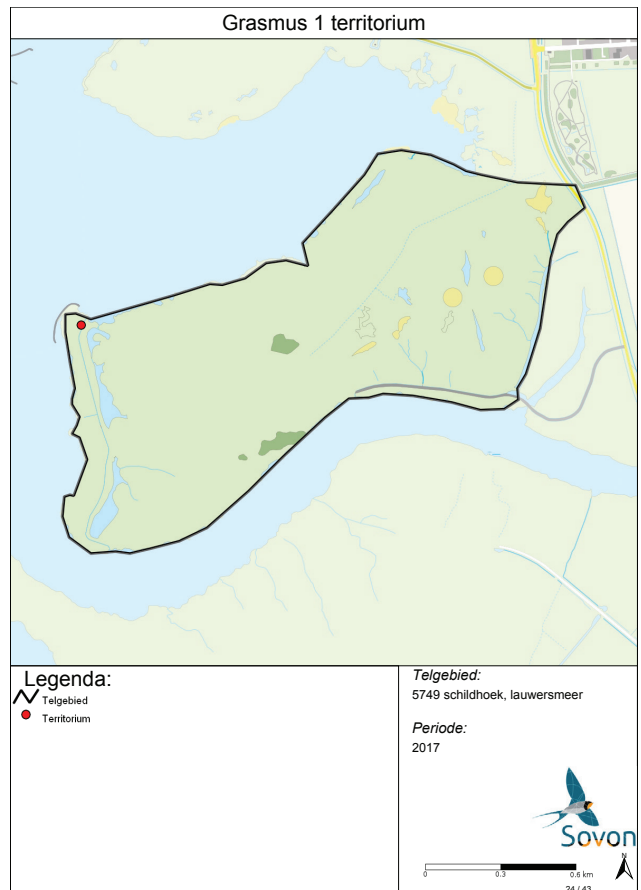
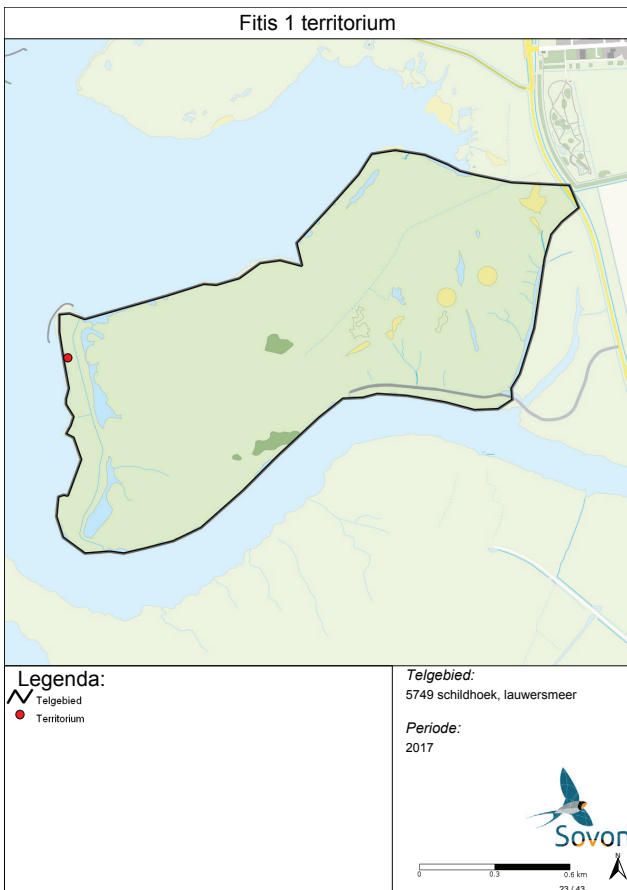
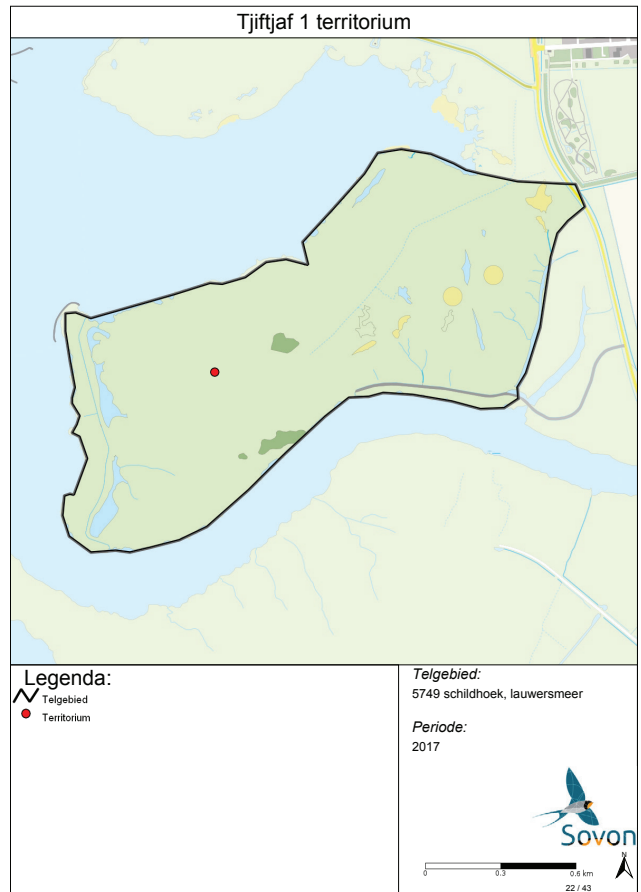
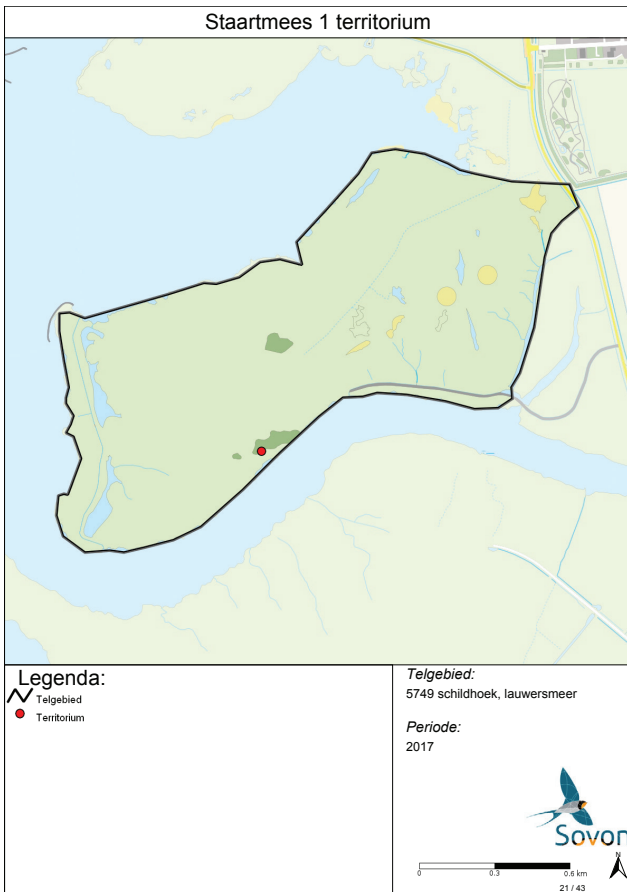


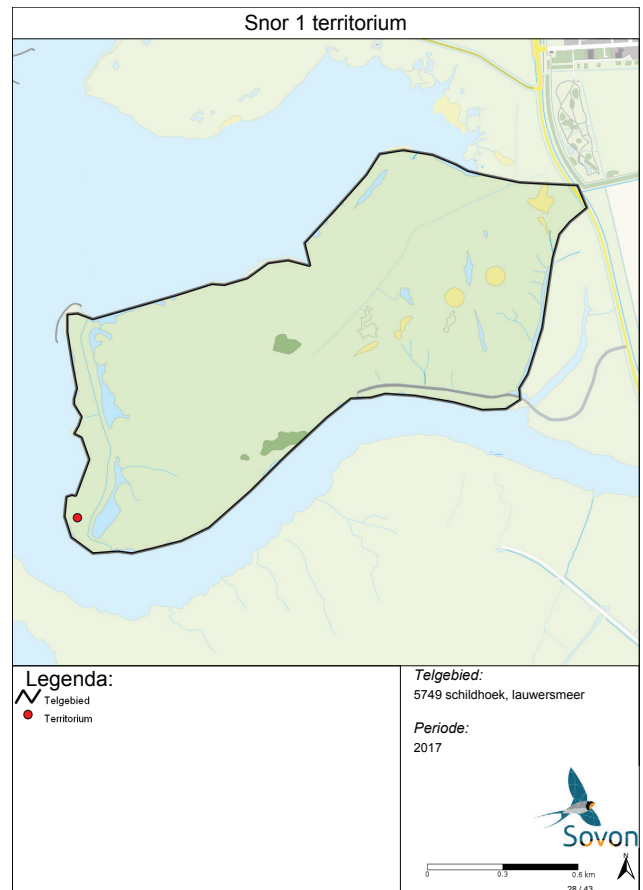
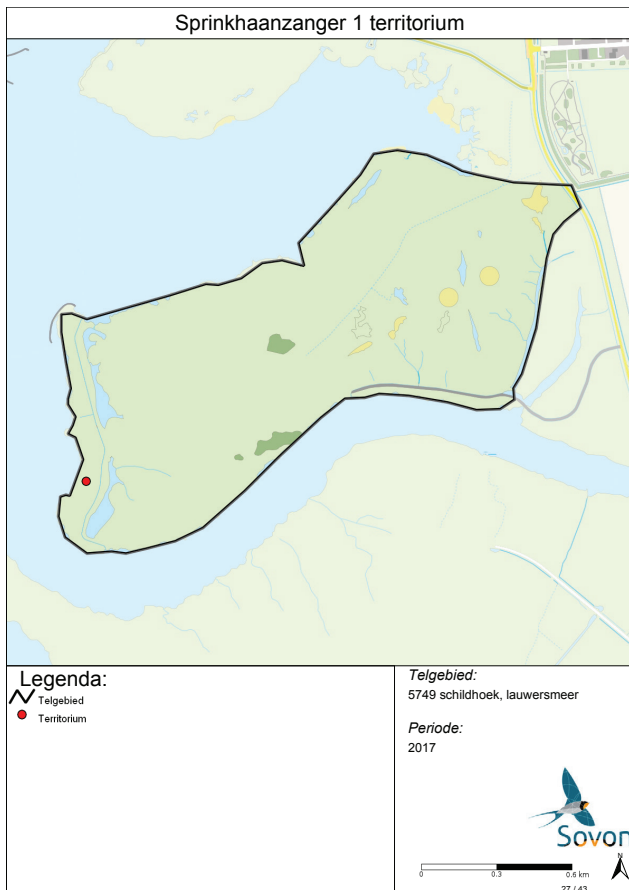
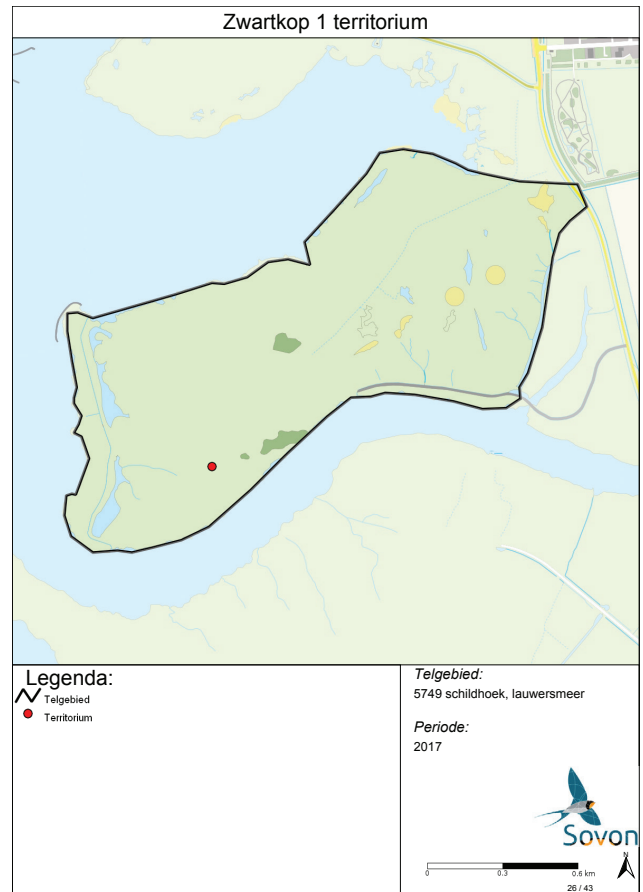
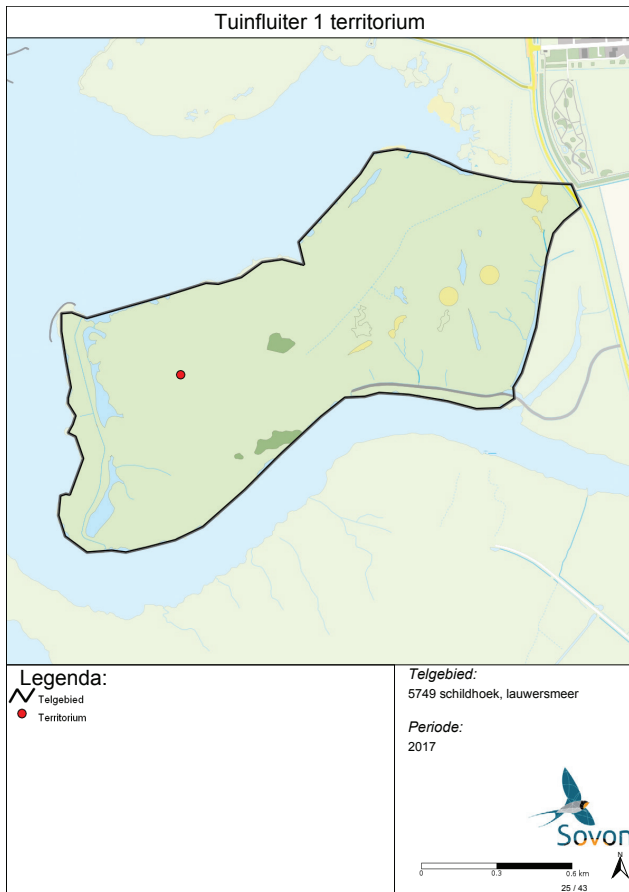


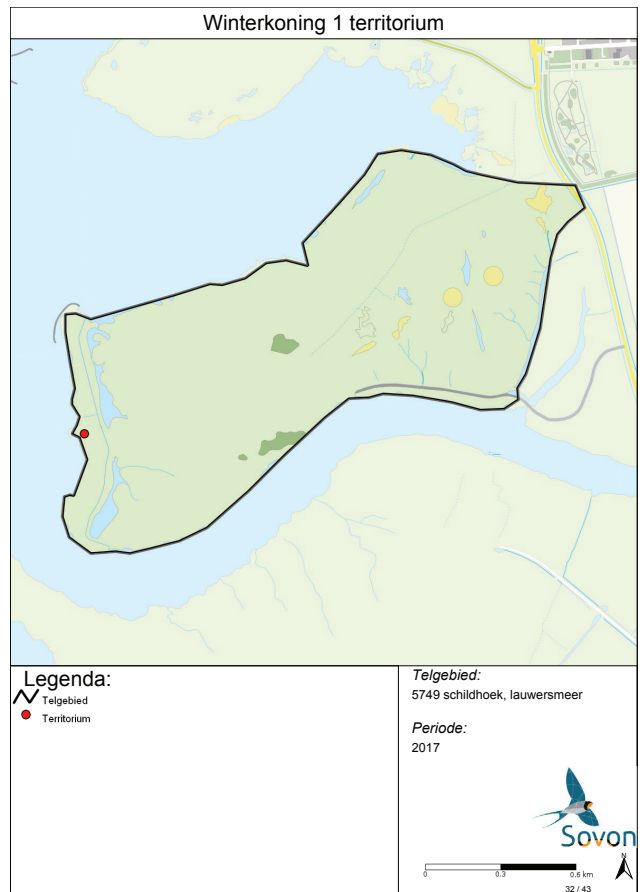
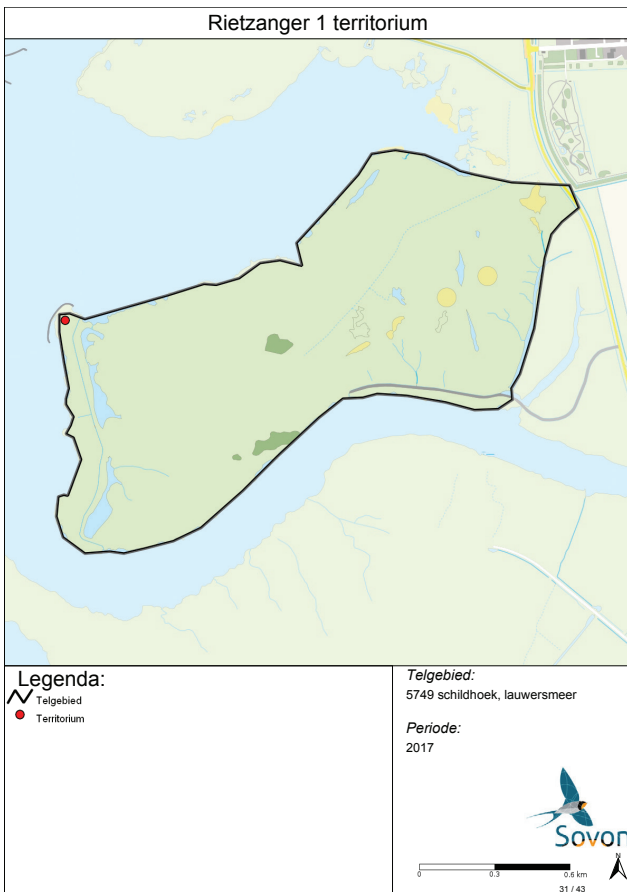
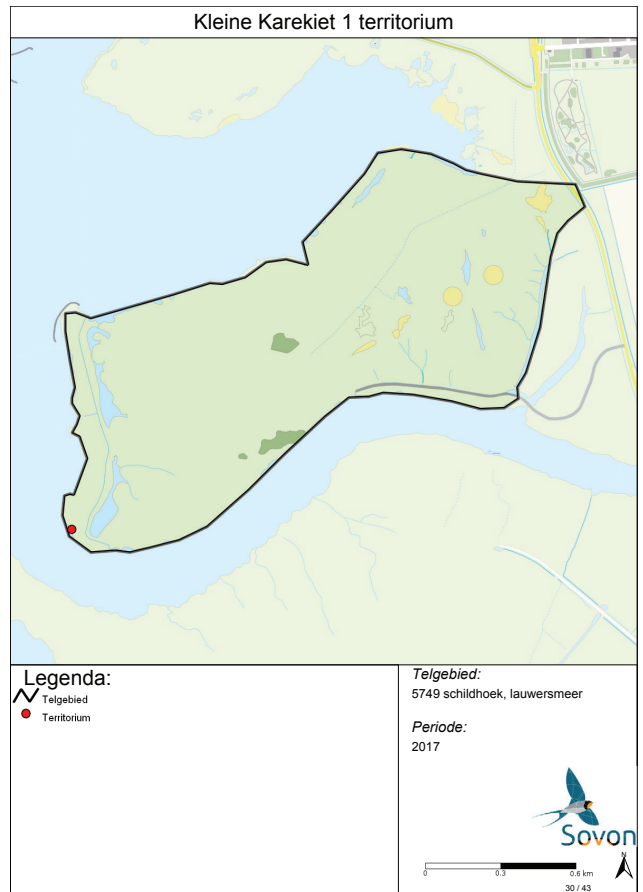
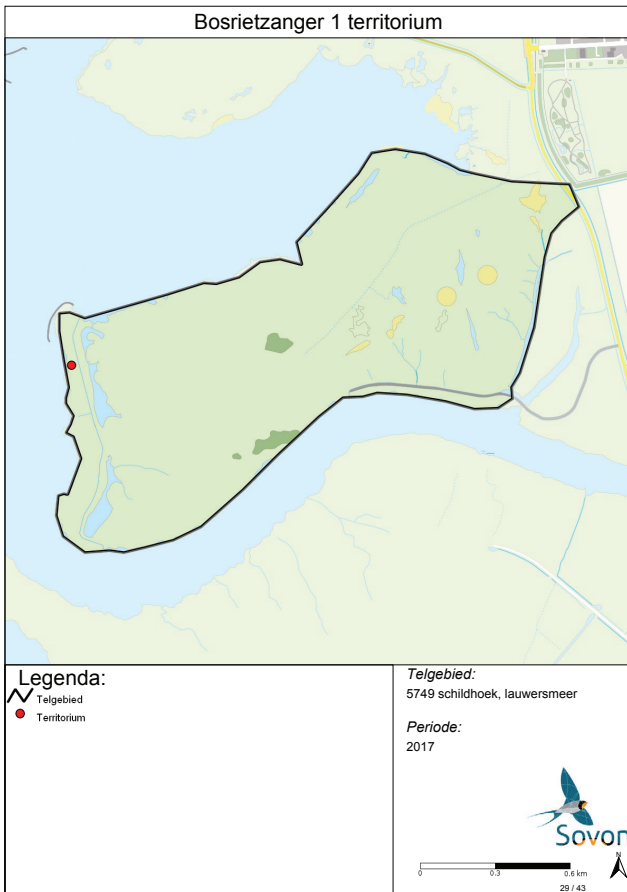


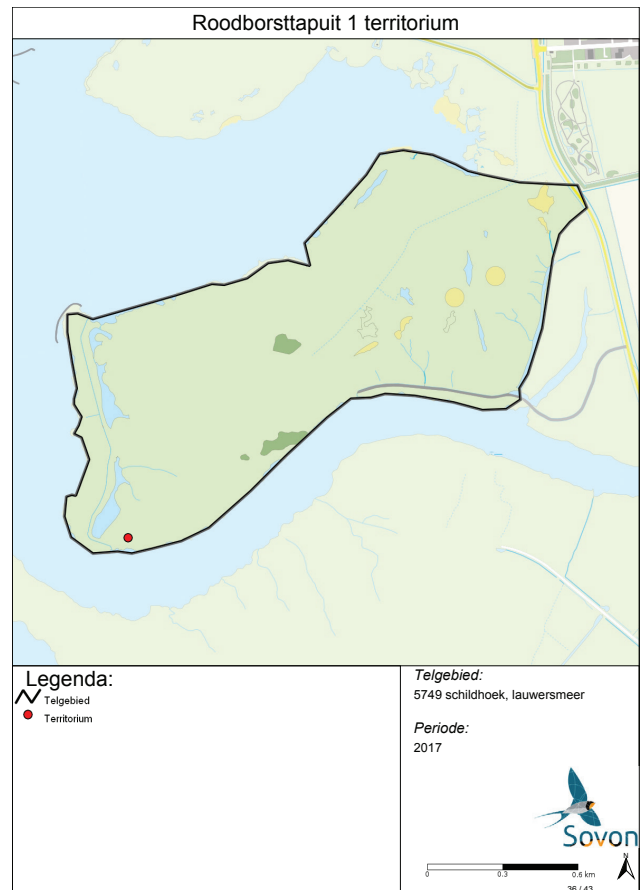
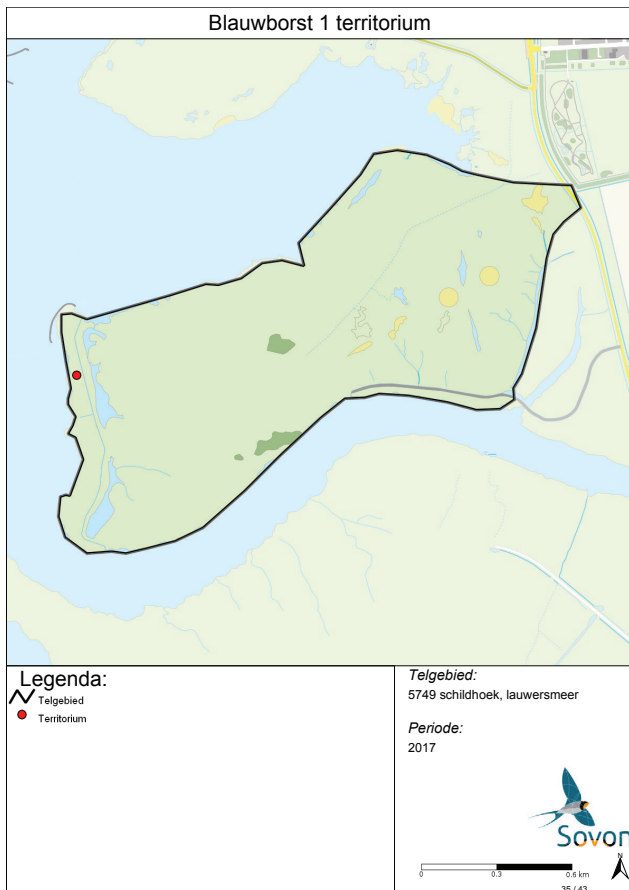
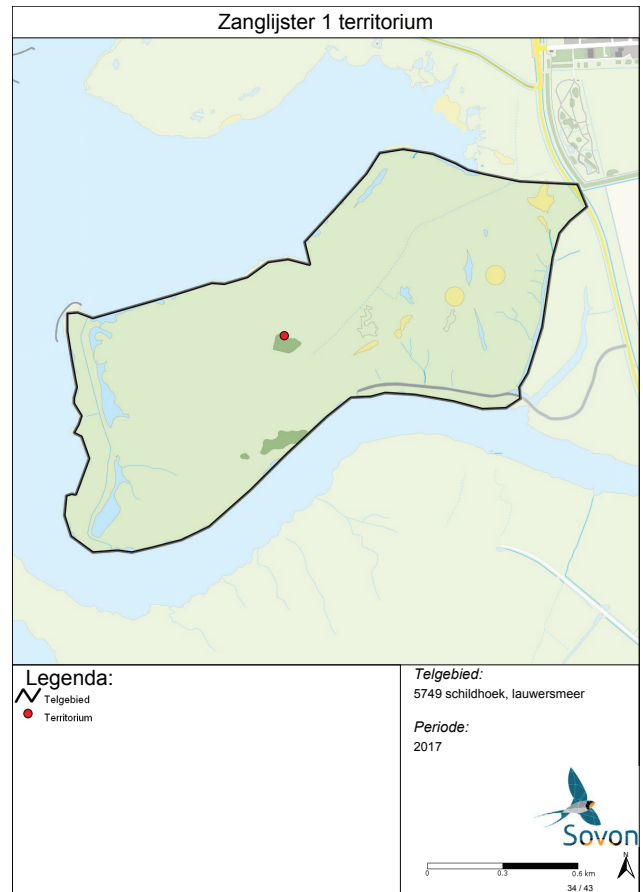
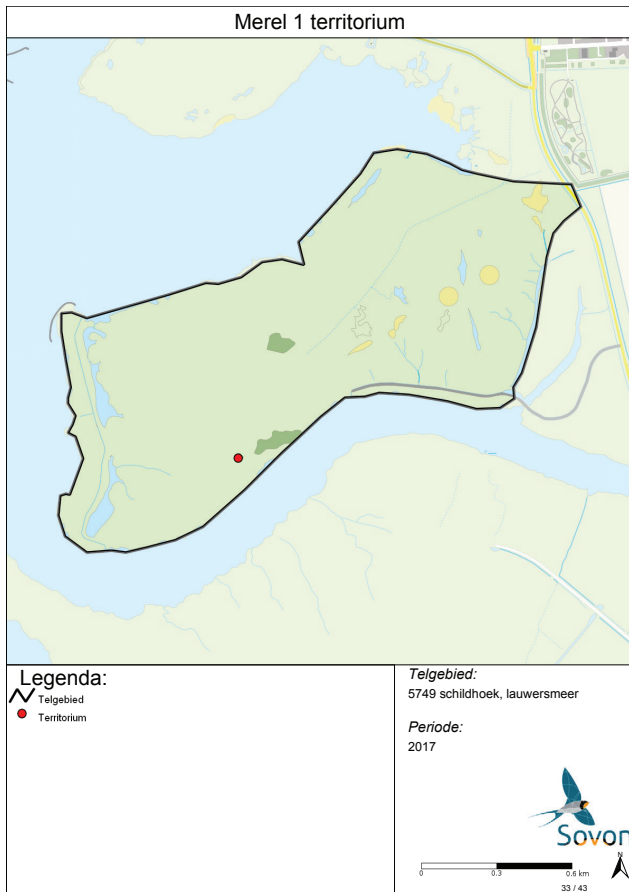


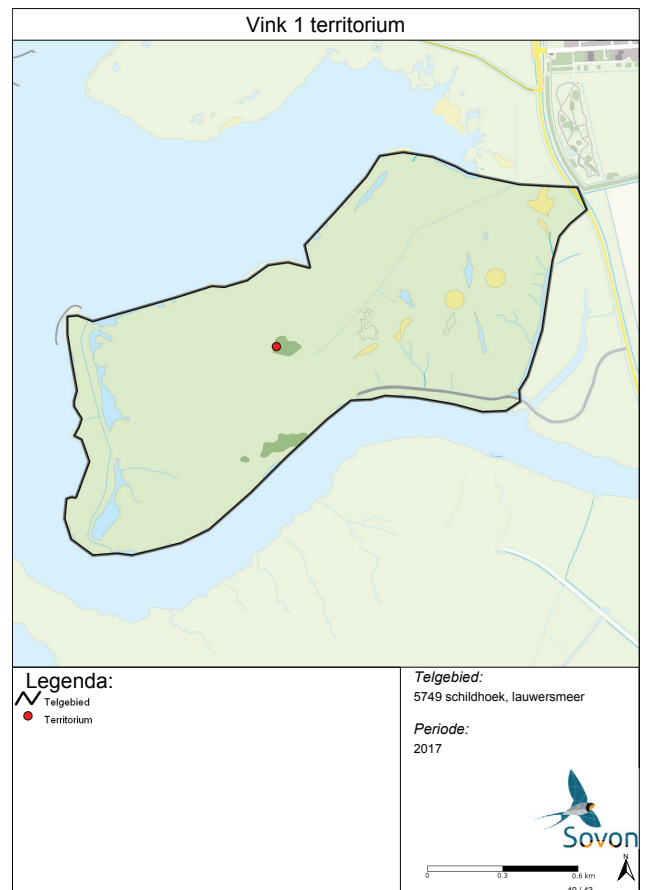
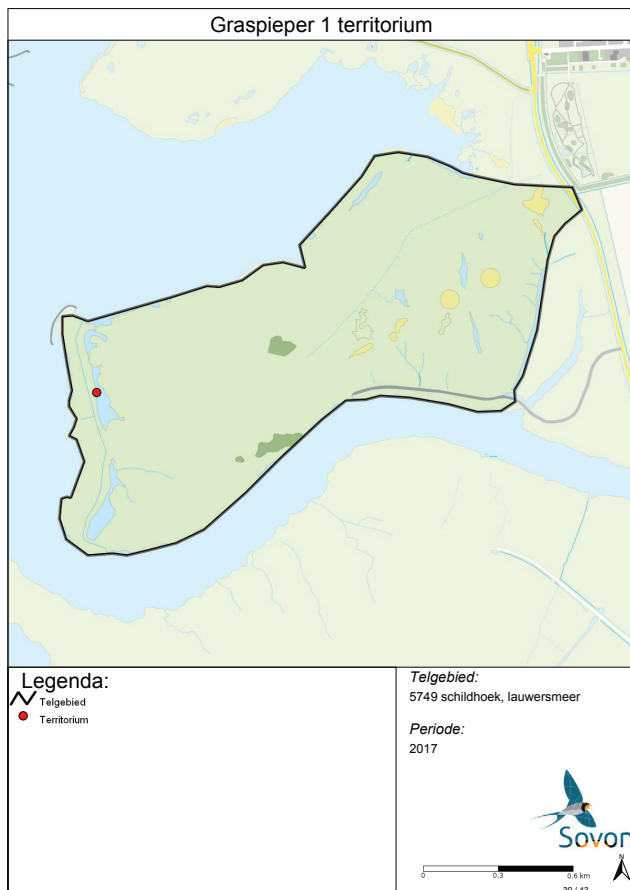
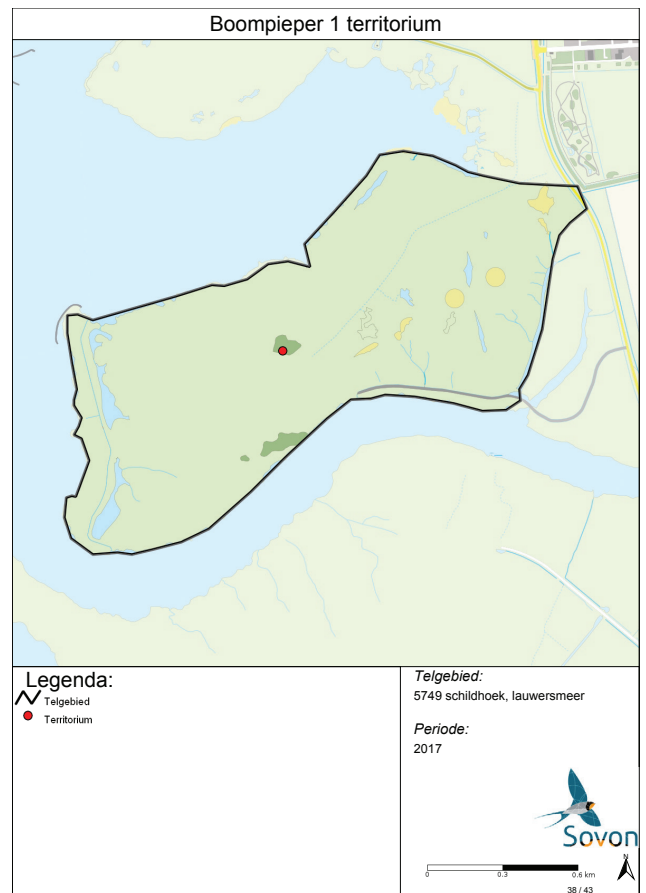
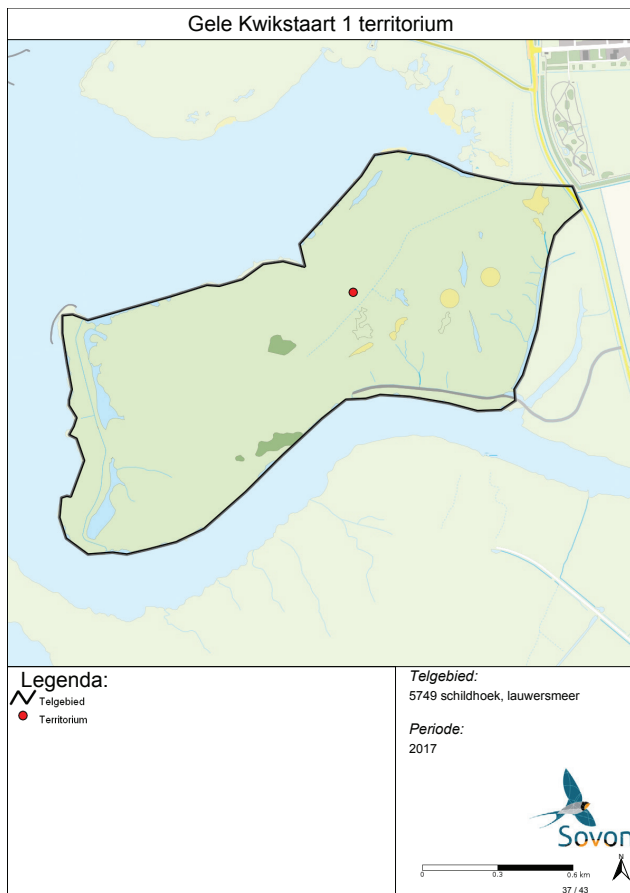


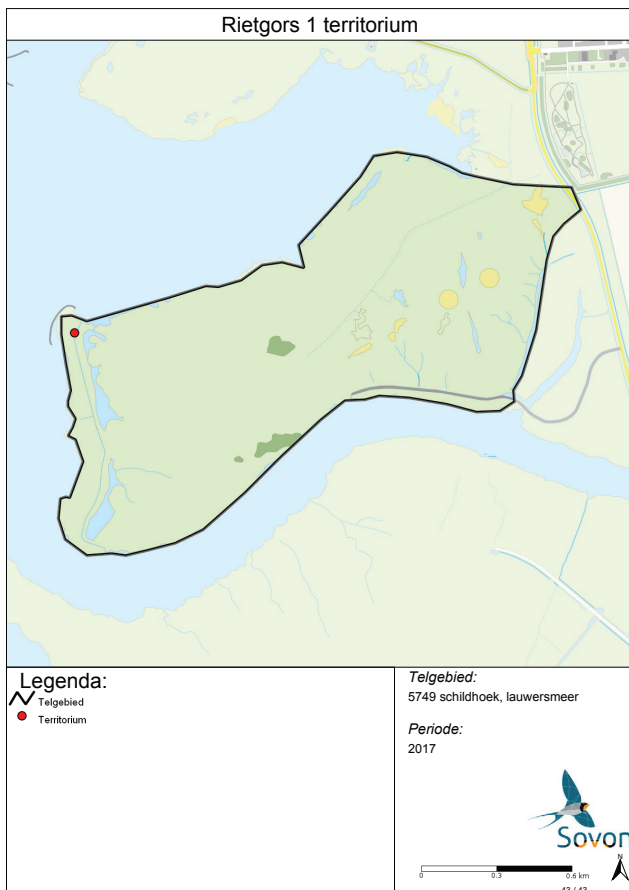
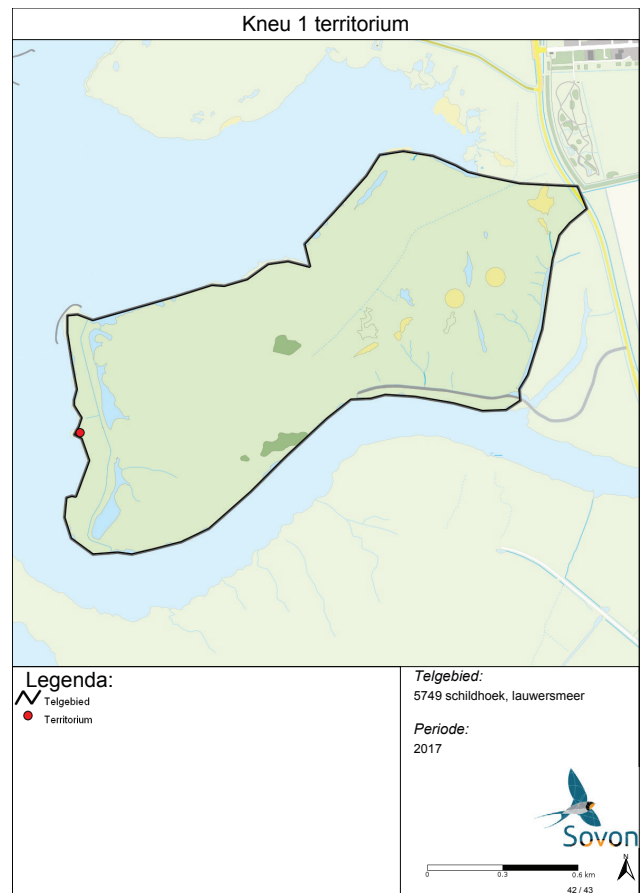
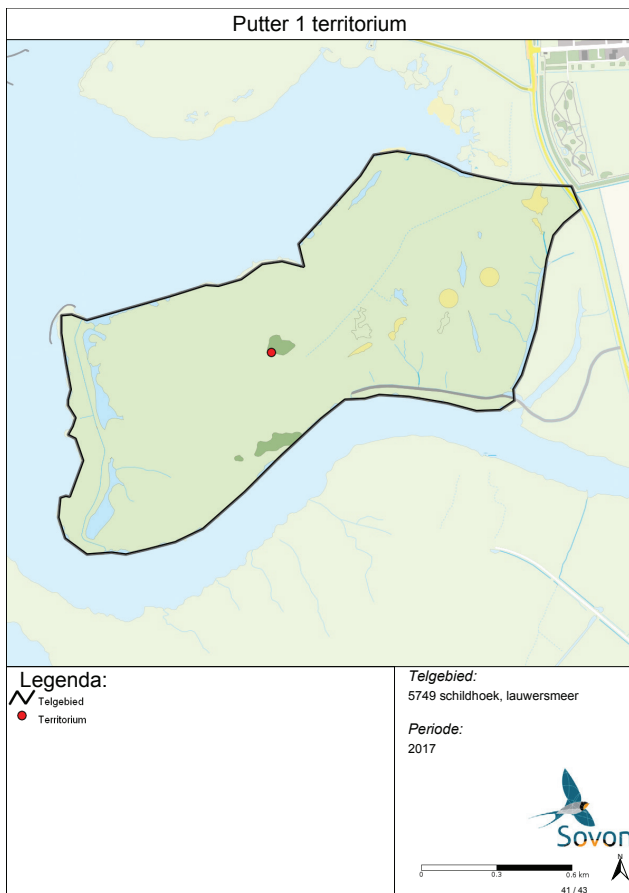












Bijlage 19m. Bandsterwal 2017

