



FINDERS INFORMATION GERMANY (OLD)

SNS Fulmar Study Report:
FINDERSINFORMATION_GER_oldbatch

Abstract

Report for surveyors in the monitoring program of plastics particles in stomachs of beached northern fulmars (*Fulmarus glacialis*) with short information and photos of stomach contents of individual birds.

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Texel, 21 Sep 2020

Liebe Partner im Eissturmvogelprojekt,

dieses Dokument soll alle Partner und Sammler über die Eissturmvogel-Spülsaumfunde informieren, die sie für die Analyse von Plastikmüll in den Mägen beigesteuert haben. Dieses Monitoring-Projekt wird im Auftrag nationaler und internationaler Behörden durchgeführt, um wissenschaftliche Informationen hinsichtlich der aktuellen Belastung und der Trends von Plastikmüll in der Nordsee zu liefern.

Dieses Update umfasst Informationen über eine ältere Serie von in Deutschland gefundenen Eissturmvögeln, die bisher noch nicht analysiert worden waren und die nun für ein vollständiges nordseeweites Update bearbeitet wurden.

Ab und zu erhalten wir Vögel ohne Magen, dennoch sind diese ebenfalls im vorliegenden Bericht enthalten, um einen vollständigen Überblick zu ermöglichen. Bitte beachten Sie, dass wir viel lieber ab und zu einen „leeren“ alten und schmutzigen Vogel auf den Sektionstisch bekommen, als dass Vögel mit Magen am Strand liegen bleiben. Das heißt im Zweifelsfall bitte immer den Vogel einsammeln und nicht enttäuscht sein, wenn mal einer ohne Magen dabei ist.

Wir danken allen Unterstützern, nicht nur denjenigen, die einen Vogel für den vorliegenden Bericht beigesteuert haben, sondern allen Partnern und den Sammlern, die Jahr für Jahr die Augen nach geeigneten Eissturmvögeln für unser Projekt offen halten. Ihre individuelle Unterstützung ist ein wichtiger Beitrag für politische Entscheidungen in Sachen Meeresmüll!

Wir danken Ihnen herzlich im Namen aller regionalen und nationalen Koordinatoren.

Dear all,

This document intends to inform volunteers about the beached Northern Fulmars which they collected for the study of plastics in stomachs. This monitoring project is commissioned by national and international authorities in order to provide scientific information about current levels of, and trends in the abundance of plastic marine litter in the North Sea.

This update holds information on an older series of German fulmars which had not been previously analysed, and which needed to be processed ready for a full North Sea update of findings.

We occasionally receive birds without a stomach, but these are also dealt with in this report because we aim to provide a full overview. Please note that we strongly prefer to receive occasional 'empty' old and dirty birds in case any that do have a stomach may be left on the beach! So, when in doubt, just collect the bird, and don't be disappointed if the occasional one proves to have no stomach.

We thank all helpers, not only the ones that did find a bird discussed in this report, but also all the volunteers that year after year are on the lookout for fulmars suitable for our project. Your individual support represents an important contribution to marine litter policy decisions!

We thank you on behalf of all regional and national coordinators.

Beste allen

Dit document beoogt vrijwilligers te informeren over de door hen verzamelde Noordse Stormvogels in het kader van ons graadmeteronderzoek van plastic in de magen. Dit lange termijn monitoring onderzoek wordt uitgevoerd op verzoek van nationale en internationale overheden om wetenschappelijke informatie te verschaffen over de huidige situatie en ontwikkeling van plastic zwerfvuil in de Noordzee.

Deze update betreft informatie over een oudere serie in Duitsland gevonden Noordse Stormvogels die niet eerder waren onderzocht, maar die nu verwerkt dienen te worden ten behoeve van de voorbereiding van een Noordzee brede update van de projectresultaten.

Niet alle vogels hadden een maag, maar we blijven benadrukken, dat we veel liever zo nu en dan een vogel met incomplete of ontbrekende maag op de snijtafel hebben, dan dat er bruikbare stormvogels op het strand blijven liggen! Dus blijf s.v.p. ook oudere vieze kadavers verzamelen zolang je het mogelijk acht dat de maag nog aanwezig is. Alleen laten liggen als echt duidelijk is dat maag e.d. ontbreekt.

We bedanken iedereen voor de steun aan dit onderzoek: niet alleen de mensen die de hier besproken stormvogels hebben verzameld, maar zeker ook al diegenen die jaar in jaar uit voor ons op de uitkijk zijn en trouw met een plastic verzamelzak naar het strand gaan. De resultaten van al die inspanningen bepalen mede hoe het zwerfvuil-beleid van de Nederlandse en Europese overheden zich ontwikkelt.

Met veel dank namens alle betrokken regionale en nationale en coördinatoren.

This report provides a separate information page with stomach content photos for each individual bird. Pages are also included for birds lacking a stomach or having a stomach without any plastic. Incidental additional pages may be provided to illustrate other remarkable issues. Most abbreviations used to provide information are fairly self-evident or directly explained. However, the acronyms for cause of death are sometimes less straightforward and are explained in the supplementary pages at the end of this document.

Dit rapport bevat voor iedere onderzochte vogel een pagina met detailinformatie en foto's van de maaginhoud. Dus er zijn ook pagina's voor de vogels zonder bruikbare maag of waar de maag geen plastic bevatte. Speciale pagina's kunnen zijn toegevoegd ter illustratie van andere opmerkelijke zaken. De meeste afkortingen op de individuele pagina's zijn min of meer vanzelfsprekend of ter plekke verklaard. Alleen de afkorting voor doodsoorzaak is niet altijd duidelijk voor wat er aan de hand was. Daartoe wordt in een supplement aan het eind van het document uitleg gegeven over gebruikte afkortingen.

Dieser Bericht enthält für jeden Vogel eine Seite mit Detailinformationen und Fotos zum Mageninhalt. Dies umfasst auch Vögel ohne Magen oder solche, die kein Plastik im Magen hatten. Gelegentlich gibt es Extra-Seiten, die auf andere Besonderheiten aufmerksam machen. Die meisten, der verwendeten Abkürzungen sind selbsterklärend oder werden direkt erklärt. Die Abkürzungen zur Todesursache mögen zum Teil weniger leicht verständlich sein, weshalb sie im Anhang am Ende dieses Dokuments erklärt werden.

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Texel 21 Sep 2020

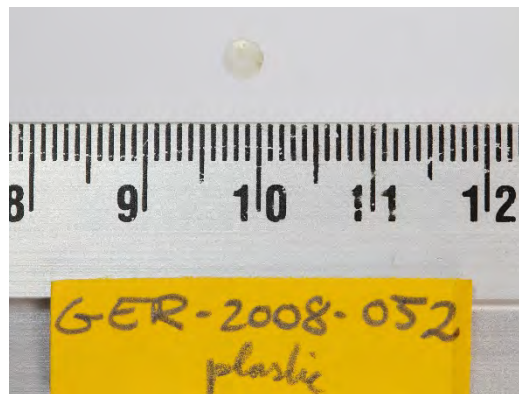
Nr: GER-2007-070

JAFCODE	GER-2007-070
Country	Germany
Location	S.H. Helgoland
Date	20-Apr-2007
Finder	IfV "Vogelwarte Helgoland"
Sex (Male, Female or UNKnown)	F
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	IM
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent)	2
Likely cause of death (STA=starvation unknown reason)	STA
Notes from dissection	X
nr of industrial plastic pellets	2
nr of consumer debris plastic particles	14
Total mass of plastic in stomach (g)	0.3088



Nr: GER-2008-052

JAFCODE	GER-2008-052
Country	Germany
Location	German North Sea coast unspecified
Date	30-Jun-2008
Finder	unknown
Sex (Male, Female or UNKnown)	M
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK	IM
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent)	1
Likely cause of death (STA=starvation unknown reason)	STA
Notes from dissection	X
nr of industrial plastic pellets	0
nr of consumer debris plastic particles	1
Total mass of plastic in stomach (g)	0.0017



Nr: GER-2011-042

JAFCODE	GER-2011-042
Country	Germany
Location	SH NF Hooge Kirchwarft
Date	13-Sep-2011
Finder	Julian Bossek, Schutzstation Wattenmeer e.V.
Sex (Male, Female or UNKnown)	F
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	JU
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent)	6
Likely cause of death (STA=starvation unknown reason)	COL
Notes from dissection	skull heavily fractured no measurements taken; tarsus broken by finder?
nr of industrial plastic pellets	1
nr of consumer debris plastic particles	24
Total mass of plastic in stomach (g)	1.3091

The reddish thread is detonation wire, used e.g. for blasting rocks lake basalt applied in construction work in harbours and along dykes



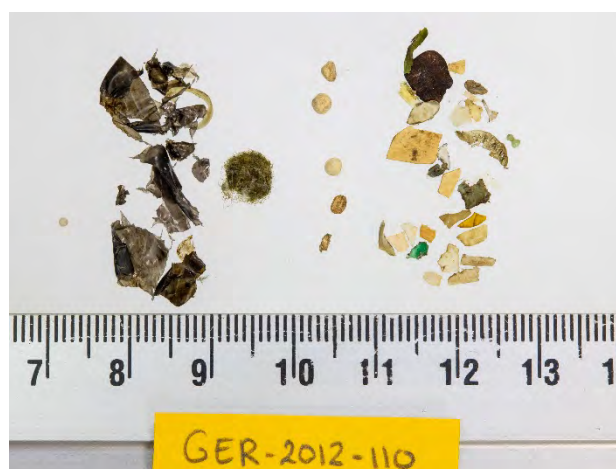
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JAFCODE	GER-2011-043
Country	Germany
Location	S.H. Helgoland
Date	27-Sep-2011
Finder	IfV "Vogelwarte Helgoland"
Sex (Male, Female or UNKnown)	F
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	IM
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent)	2
Likely cause of death (STA=starvation unknown reason)	STA
Notes from dissection	x
nr of industrial plastic pellets	5
nr of consumer debris plastic particles	20
Total mass of plastic in stomach (g)	0.449



Nr: GER-2012-110

JAFCODE	GER-2012-110
Country	Germany
Location	SH NF Sönke-Nissen-Koog VN422
Date	27-Nov-2012
Finder	Rainer Rehm, LKN.SH
Sex (Male, Female or UNKnown)	M
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	JU
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent)	0
Likely cause of death (STA=starvation unknown reason)	STA
Notes from dissection	x
nr of industrial plastic pellets	1
nr of consumer debris plastic particles	49
Total mass of plastic in stomach (g)	0.105



Nr: **GER-2012-111**

JAFCODE	GER-2012-111
Country	Germany
Location	SH NF Hallig Gröde
Date	4-Oct-2012
Finder	Rainer Rehm, LKN.SH
Sex (Male, Female or UNKnown)	F
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	JU
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent)	0
Likely cause of death (STA=starvation unknown reason)	STA
Notes from dissection	kidneys and sex organs eaten by maggots; but from bursa and other characters without doubt juv female
nr of industrial plastic pellets	0
nr of consumer debris plastic particles	10
Total mass of plastic in stomach (g)	0.0991



Nr: GER-2012-112

JAFCODE	GER-2012-112
Country	Germany
Location	SH NF Föhr
Date	5-Jan-2012
Finder	Achim Steinbeck, LKN.SH
Sex (Male, Female or UNKnown)	F
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	2Y
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent)	0
Likely cause of death (STA=starvation unknown reason)	STA
Notes from dissection	JAF decided 2Y on basis of sex organs and moult
nr of industrial plastic pellets	8
nr of consumer debris plastic particles	25
Total mass of plastic in stomach (g)	0.4495

In the blue capped glass jar are pieces of latex rubber like material. Once take out of the stomach and exposed to air, latex like material tend to desintegrate to a sticky fluid like material.



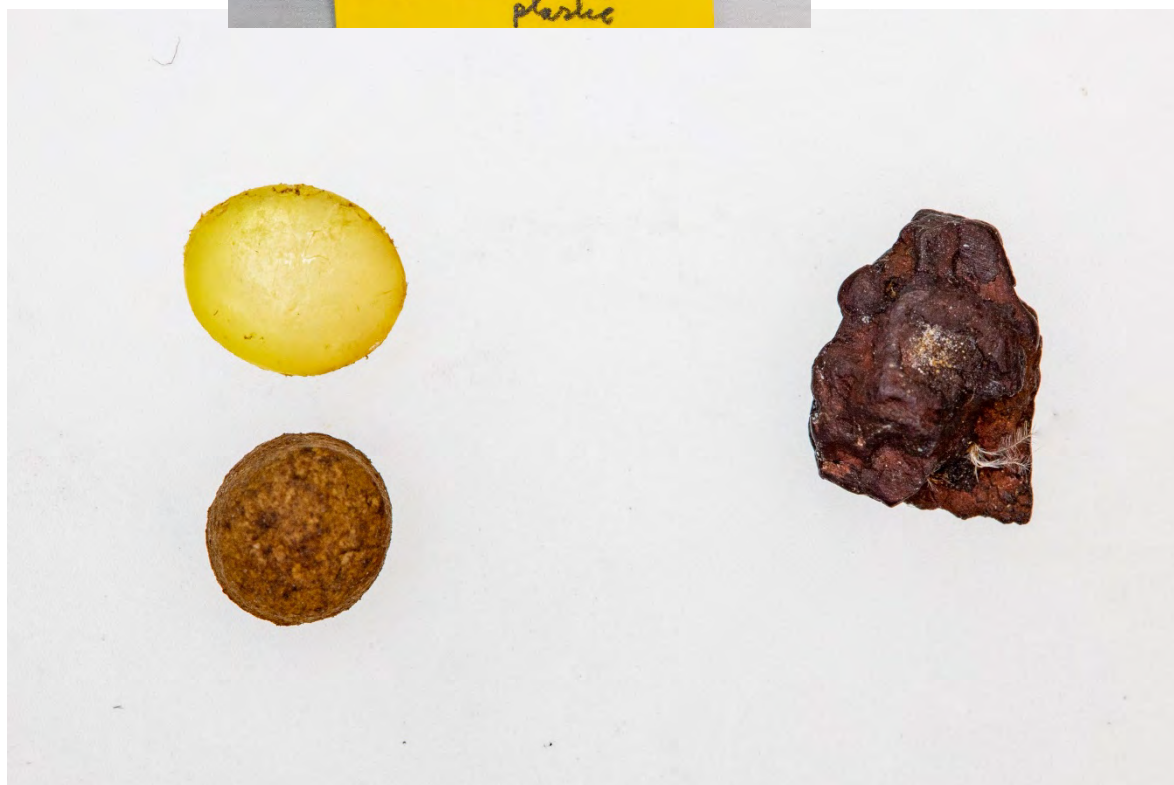
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JAFCODE	GER-2012-113
Country	Germany
Location	SH NF Sylt Keitumer Schöpfwerk
Date	28-Apr-2012
Finder	Schutzstation Wattenmeer e.V.
Sex (Male, Female or UNKnown)	M
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	JU
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent)	0
Likely cause of death (STA=starvation unknown reason)	STA
Notes from dissection	form says incubation patch but totally incompatible with date and age; probably old and down wiped off; no feet
nr of industrial plastic pellets	4
nr of consumer debris plastic particles	55
Total mass of plastic in stomach (g)	0.217



Nr: GER-2012-114

JAFCODE	GER-2012-114
Country	Germany
Location	SH NF Föhr IF42
Date	22-Sep-2012
Finder	Christopher Ulrich, Schutzstation Wattenmeer e.V.
Sex (Male, Female or UNKnown)	M
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	JU
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent)	4
Likely cause of death (STA=starvation unknown reason)	STA
Notes from dissection	deathcause incidated as COL; not clear from form why this would be a collision victim
nr of industrial plastic pellets	2
nr of consumer debris plastic particles	1
Total mass of plastic in stomach (g)	0.0764



Nr: GER-2012-115

JAFCODE	GER-2012-115
Country	Germany
Location	SH Fuhlehörn VN 721
Date	8-Jan-2012
Finder	Wiebke Jansen
Sex (Male, Female or UNKnown)	F
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK	JU
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent)	0
Likely cause of death (STA=starvation unknown reason)	STA
Notes from dissection	x
nr of industrial plastic pellets	1
nr of consumer debris plastic particles	15
Total mass of plastic in stomach (g)	0.1468



Nr: GER-2012-116

JAFCODE	GER-2012-116
Country	Germany
Location	Niedersachsen Juist #280
Date	11-Oct-2012
Finder	NLWKN
Sex (Male, Female or UNKnown)	M
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	JU
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent)	1
Likely cause of death (STA=starvation unknown reason)	STA
Notes from dissection	found alive died after 1 day; extremely small skull even for juv male; JAF doubts if correctly measured/noted
nr of industrial plastic pellets	0
nr of consumer debris plastic particles	20
Total mass of plastic in stomach (g)	0.3273



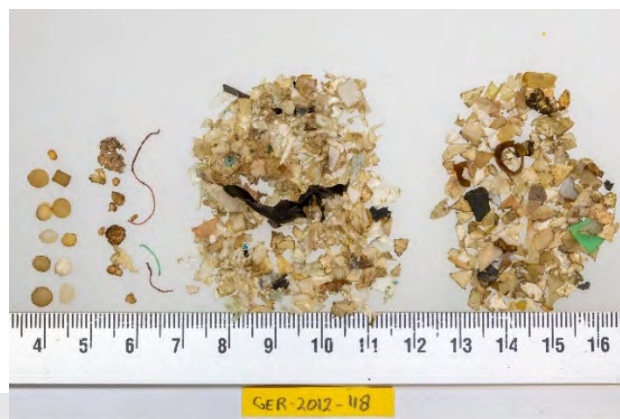
Nr: GER-2012-117

JAFCODE	GER-2012-117
Country	Germany
Location	SH NF Beltringharder Koog
Date	28-Feb-2012
Finder	Rainer Rehm, LKN.SH
Sex (Male, Female or UNKnown)	M
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	JU
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent)	0
Likely cause of death (STA=starvation unknown reason)	STA
Notes from dissection	x
nr of industrial plastic pellets	24
nr of consumer debris plastic particles	258
Total mass of plastic in stomach (g)	1.0413



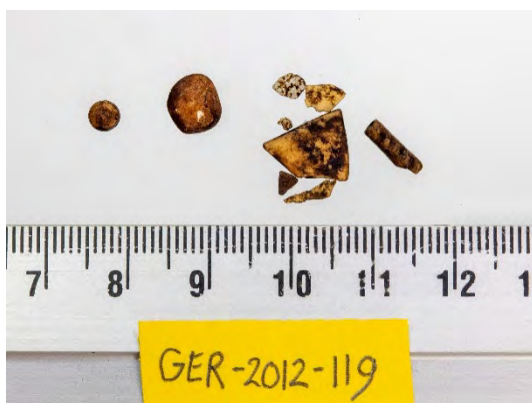
Nr: GER-2012-118

JAFCODE	GER-2012-118
Country	Germany
Location	Niedersachsen Spiekeroog
Date	6-Jun-2012
Finder	NLWKN
Sex (Male, Female or UNKnown)	F
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK	AD
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent)	1
Likely cause of death (STA=starvation unknown reason)	STA
Notes from dissection	x
nr of industrial plastic pellets	11
nr of consumer debris plastic particles	742
Total mass of plastic in stomach (g)	1.3298



Nr: **GER-2012-119**

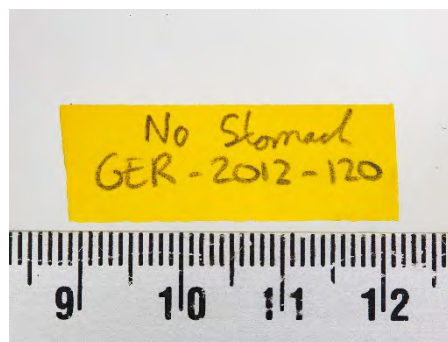
JAFCODE	GER-2012-119
Country	Germany
Location	SH NF Hooge
Date	24-Jan-2012
Finder	Borchert & Finke, Schutzstation Wattenmeer e.V.
Sex (Male, Female or UNKnown)	F
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	2Y
Colourphase (LL, L, D, DD or UNKnown)	D
Condition score (0=fully emaciated to 9=excellent)	1
Likely cause of death (STA=starvation unknown reason)	PLU
Notes from dissection	poor down on breast and belly; sec and bodymoult indicated 2Y in spite of juv like sex and bursa
nr of industrial plastic pellets	1
nr of consumer debris plastic particles	8
Total mass of plastic in stomach (g)	0.1517



Nr: GER-2012-120

JAFCODE	GER-2012-120
Country	Germany
Location	Niedersachsen Juist FK0412
Date	13-Oct-2012
Finder	NLWKN
Sex (Male, Female or UNKnown)	F
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	JU
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent)	1
Likely cause of death (STA=starvation unknown reason)	COL
Notes from dissection	Heavily scavenged, NO STOMACH PRESENT
nr of industrial plastic pellets	
nr of consumer debris plastic particles	
Total mass of plastic in stomach (g)	

NO STOMACH PRESENT



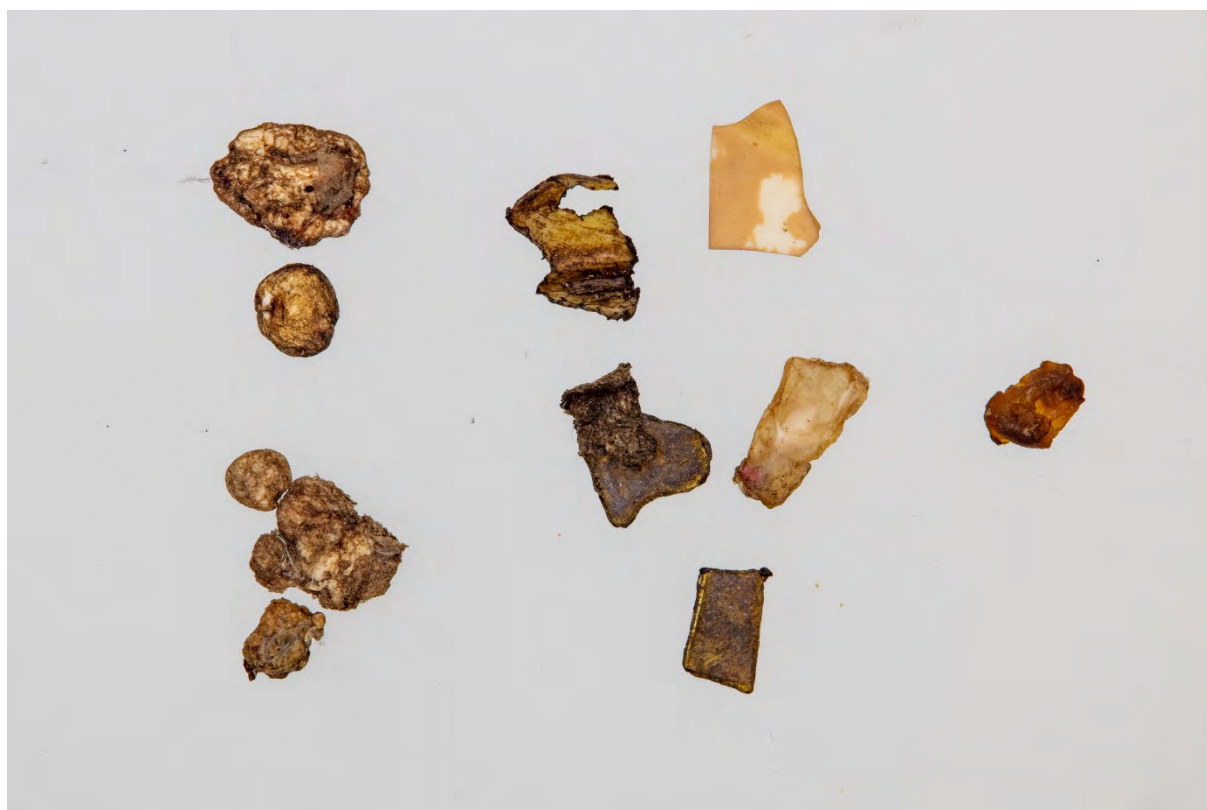
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JAFCODE	GER-2012-121
Country	Germany
Location	SH NF St. Peter-Ording VE 31 Sandbank
Date	25-Feb-2012
Finder	Schutzstation Wattenmeer e.V.
Sex (Male, Female or UNKnown)	F
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	IM
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent)	1
Likely cause of death (STA=starvation unknown reason)	STA
Notes from dissection	follicle size originally written as 0.1 but likely writing error for 1.0 and indeed immature age
nr of industrial plastic pellets	1
nr of consumer debris plastic particles	19
Total mass of plastic in stomach (g)	0.0772



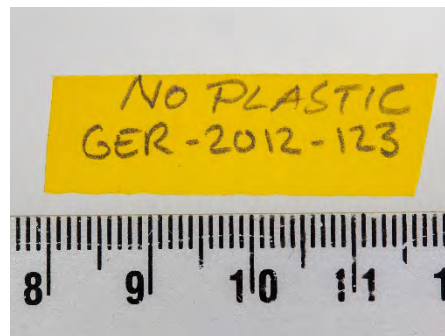
Nr: GER-2012-122

JAFCODE	GER-2012-122
Country	Germany
Location	SH HEI; Büsum; Perlebucht
Date	22-Jan-2012
Finder	Ilka Beermann, Schutzstation Wattenmeer e.V.
Sex (Male, Female or UNKnown)	F
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	JU
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent)	0
Likely cause of death (STA=starvation unknown reason)	STA
Notes from dissection	x
nr of industrial plastic pellets	0
nr of consumer debris plastic particles	11
Total mass of plastic in stomach (g)	0.0404



Nr: GER-2012-123

JAFCODE	GER-2012-123
Country	Germany
Location	SH NF Föhr IF42
Date	24-Jan-2012
Finder	Schutzstation Wattenmeer e.V.
Sex (Male, Female or UNKnown)	M
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK	IM
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent)	0
Likely cause of death (STA=starvation unknown reason)	STA
Notes from dissection	only 12 tailfeathers; testis size and colour suggest immature
nr of industrial plastic pellets	0
nr of consumer debris plastic particles	0
Total mass of plastic in stomach (g)	0



Nr: GER-2012-124

JAFCODE	GER-2012-124
Country	Germany
Location	SH NF Amrum Kniepbucht
Date	7-Feb-2012
Finder	Schutzstation Wattenmeer e.V.
Sex (Male, Female or UNKnown)	F
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	AD
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent)	1
Likely cause of death (STA=starvation unknown reason)	STA
Notes from dissection	form says incubation patch but totally incompatible with date; probably old and down wiped off
nr of industrial plastic pellets	0
nr of consumer debris plastic particles	4
Total mass of plastic in stomach (g)	0.022



Nr: GER-2012-125

JAFCODE	GER-2012-125
Country	Germany
Location	SH NF St. Peter-Ording
Date	21-Sep-2012
Finder	Schutzstation Wattenmeer e.V.
Sex (Male, Female or UNKnown)	M
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK	JU
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent)	1
Likely cause of death (STA=starvation unknown reason)	STA
Notes from dissection	start of cement cloaca may have triggered starvation
nr of industrial plastic pellets	0
nr of consumer debris plastic particles	12
Total mass of plastic in stomach (g)	1.6017

large piece of sticky clingfoil size 37*24cm
1.5303g; small piece balloon (in glass jar;
balloon latex from stomachs when exposed
to air tend to change into a slimy fluid like
state



Nr: GER-2012-126

JAFCODE	GER-2012-126
Country	Germany
Location	SH NF Amrum Kniepbucht
Date	7-Feb-2012
Finder	Maria Kaiser, Schutzstation Wattenmeer e.V.
Sex (Male, Female or UNKnown)	F
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	AD
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent)	0
Likely cause of death (STA=starvation unknown reason)	GUT
Notes from dissection	heavily constipated close to CEM status; Magdalena rinsed gut contents forwarded to Albert van Oyen
nr of industrial plastic pellets	16
nr of consumer debris plastic particles	99
Total mass of plastic in stomach (g)	0.5442



Nr: GER-2012-127

JAFCODE	GER-2012-127
Country	Germany
Location	SH NF Föhr IF32
Date	20-Sep-2012
Finder	Christopher Ulrich, Schutzstation Wattenmeer e.V.
Sex (Male, Female or UNKnown)	F
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	JU
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent)	1
Likely cause of death (STA=starvation unknown reason)	STA
Notes from dissection	x
nr of industrial plastic pellets	1
nr of consumer debris plastic particles	37
Total mass of plastic in stomach (g)	1.0622



Nr: GER-2012-128

JAFCODE	GER-2012-128
Country	Germany
Location	SH Helgoland D-Aade
Date	2-Feb-2012
Finder	IfV "Vogelwarte Helgoland"
Sex (Male, Female or UNKnown)	M
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	IM
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent)	1
Likely cause of death (STA=starvation unknown reason)	STA
Notes from dissection	Im to adult..... Testis a bit doubtful size and colour
nr of industrial plastic pellets	1
nr of consumer debris plastic particles	1
Total mass of plastic in stomach (g)	0.0093



Nr: GER-2012-129

JAFCODE	GER-2012-129
Country	Germany
Location	SH NF St. Peter-Ording
Date	21-Sep-2012
Finder	Schutzstation Wattenmeer e.V.
Sex (Male, Female or UNKnown)	F
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	JU
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent)	0
Likely cause of death (STA=starvation unknown reason)	STA
Notes from dissection	already worn looking plumage maybe due to lice
nr of industrial plastic pellets	0
nr of consumer debris plastic particles	6
Total mass of plastic in stomach (g)	0.0239



Nr: GER-2012-130

JAFCODE	GER-2012-130
Country	Germany
Location	SH NF Hooge Hanswarft
Date	15-Jan-2012
Finder	Jennifer Timrott, Schutzstation Wattenmeer e.V.
Sex (Male, Female or UNKnown)	M
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	AD
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent)	1
Likely cause of death (STA=starvation unknown reason)	STA
Notes from dissection	testis pinky pale and by colour assigned adult
nr of industrial plastic pellets	11
nr of consumer debris plastic particles	113
Total mass of plastic in stomach (g)	1.6157

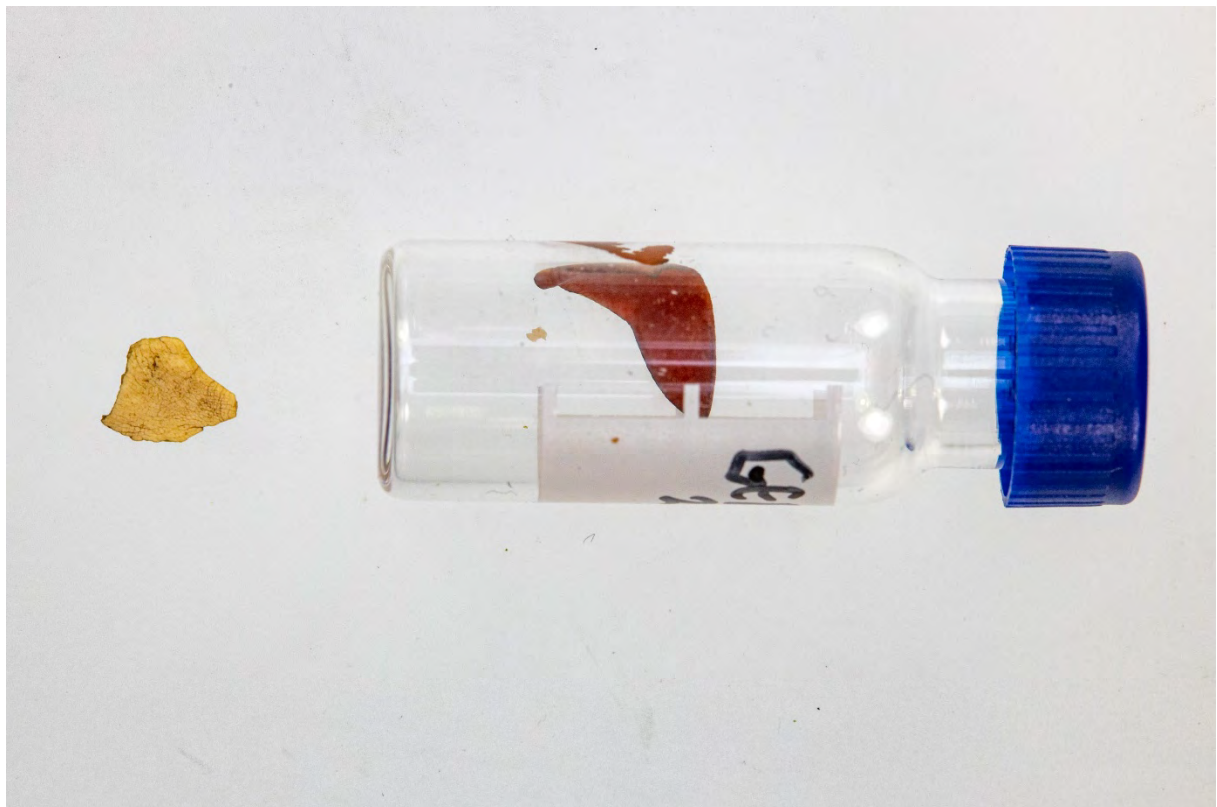
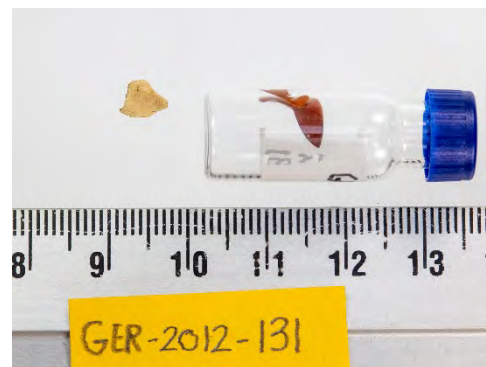
In the glass container sticky remains of
balloon latex



Nr: GER-2012-131

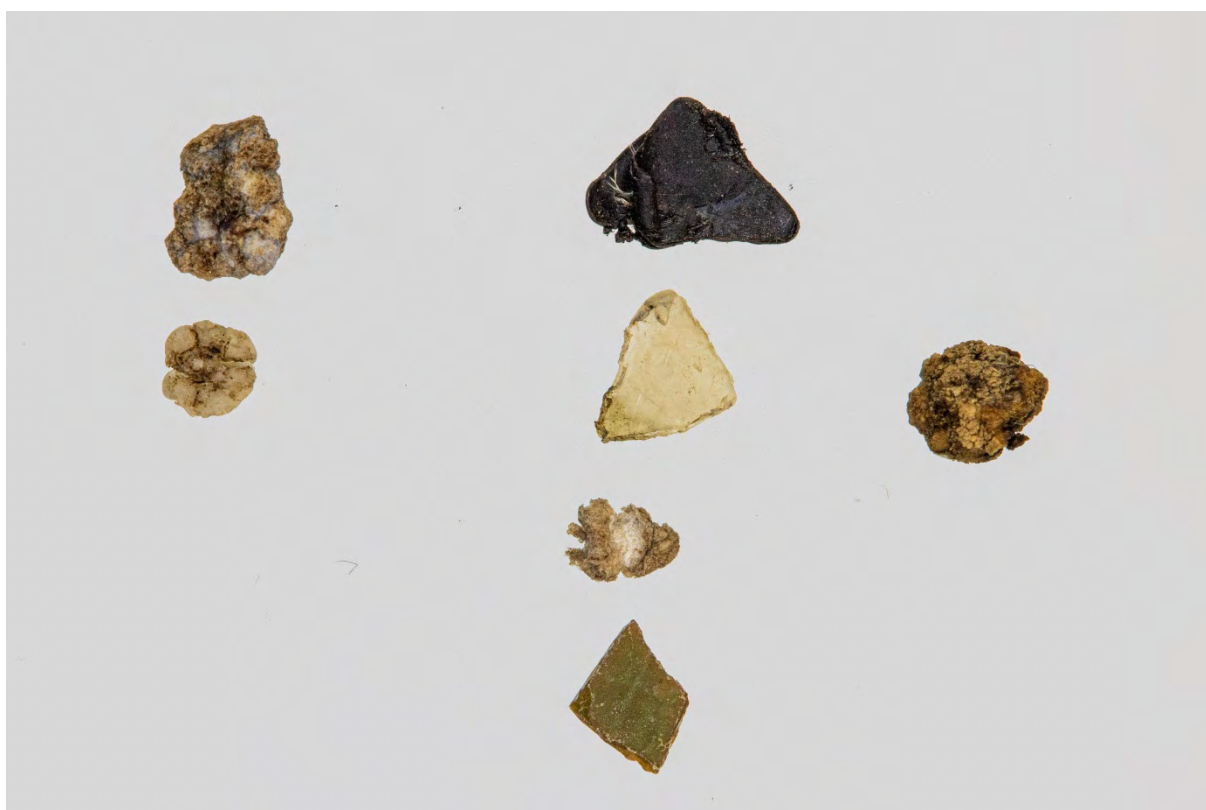
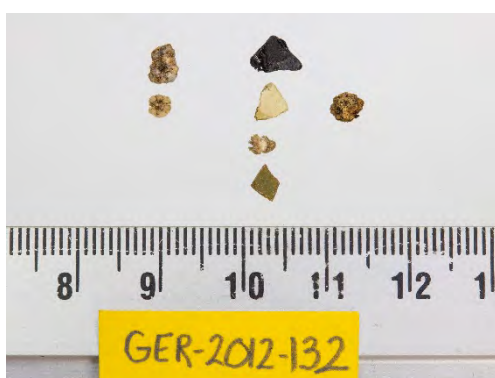
JAFCODE	GER-2012-131
Country	Germany
Location	SH HEI Kaiser-Wilhelm-Koog
Date	17-Sep-2012
Finder	Michael Beverungen, LKN.SH
Sex (Male, Female or UNKnown)	M
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	JU
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent)	1
Likely cause of death (STA=starvation unknown reason)	EXT
Notes from dissection	brownish discoloured feathers heavily preened at breast; unusual internal moult likely related to fouling
nr of industrial plastic pellets	0
nr of consumer debris plastic particles	2
Total mass of plastic in stomach (g)	0.0279

In the glass container sticky remains of red coloured balloon latex



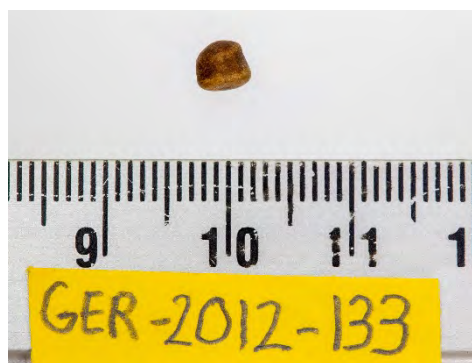
Nr: GER-2012-132

JAFCODE	GER-2012-132
Country	Germany
Location	SH NF Ockholmer Koog VN421
Date	1-Oct-2012
Finder	Rainer Rehm, LKN.SH
Sex (Male, Female or UNKnown)	F
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	JU
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent)	0
Likely cause of death (STA=starvation unknown reason)	STA
Notes from dissection	small internal inflammation
nr of industrial plastic pellets	0
nr of consumer debris plastic particles	7
Total mass of plastic in stomach (g)	0.0371



Nr: GER-2012-133

JAFCODE	GER-2012-133
Country	Germany
Location	SH NF Beltringharder Koog VN62
Date	28-Feb-2012
Finder	Rainer Rehm, LKN.SH
Sex (Male, Female or UNKnown)	M
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK	JU
Colourphase (LL, L, D, DD or UNKnown)	L
Condition score (0=fully emaciated to 9=excellent)	1
Likely cause of death (STA=starvation unknown reason)	STA
Notes from dissection	cheeslike infection along rib
nr of industrial plastic pellets	1
nr of consumer debris plastic particles	0
Total mass of plastic in stomach (g)	0.0384



Nr: GER-2012-134

JAFCODE	GER-2012-134
Country	Germany
Location	Sehestedt Brake
Date	5-Jan-2012
Finder	Frerk Meermann
Sex (Male, Female or UNKnown)	M
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	2Y
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent)	3
Likely cause of death (STA=starvation unknown reason)	CEM
Notes from dissection	roadkill inland but also poor down and cementcloaca 21x13
nr of industrial plastic pellets	1
nr of consumer debris plastic particles	4
Total mass of plastic in stomach (g)	0.086



Nr: GER-2012-135

JAFCODE	GER-2012-135
Country	Germany
Location	Schleswig Holstein St. Peter-Ording
Date	10-Feb-2012
Finder	Schutzstation Wattenmeer e.V.
Sex (Male, Female or UNKnown)	F
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK	2Y
Colourphase (LL, L, D, DD or UNKnown)	D
Condition score (0=fully emaciated to 9=excellent)	0
Likely cause of death (STA=starvation unknown reason)	STA
Notes from dissection	left leg missing considered post mortem
nr of industrial plastic pellets	3
nr of consumer debris plastic particles	54
Total mass of plastic in stomach (g)	0.2304



Nr: GER-2014-012

JAFCODE	GER-2014-012
Country	Germany
Location	Niedersachsen, Wangerooge, Hauptstrand
Date	3-Jun-2014
Finder	Der Mellumrat e.V.
Sex (Male, Female or UNKnown)	F
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK	JU
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent)	2
Likely cause of death (STA=starvation unknown reason)	STA
Notes from dissection	x
nr of industrial plastic pellets	10
nr of consumer debris plastic particles	15
Total mass of plastic in stomach (g)	0.5131



Supplement individual details (acronyms)

Supplement individuele details (afkortingen)

Anhang individuelle Details (Abkürzungen)

The ruler in photo's shows mm and cm scaling

De lineaal bij de fotos toont mm en cm schaal

Das Lineal in den Fotos zeigt den Maßstab in mm und cm

CEM = cementcloaca - cementcloaca – Zementkloake

A blockage in the final part of the intestine by a 'hard' egg-shaped ball formed by accumulation of layer upon layer of hardened faeces and ureum. At some stage this completely blocks defaecation, the parts of the intestine above this fill up with digested mud that can't be excreted.

Blokkering van de einddarm met een steenachtige meestal eivormig bal van laag op laag opgehoopte uitwerpselen met ureum. Op zeker moment blokkeert dit de volledige 'stoelgang' en de voorliggende darm zwelt op met darmmateriaal.

Blockade des Enddarms durch eine harte, eiförmige Kugel, die durch eine schichtweise Aufhäufung von gehärtetem Kot und Harnstoff entsteht. Ab einem bestimmten Stadium verhindert diese vollständig die Darmentleerung, so dass sich die davor liegenden Darmbereiche mit Verdauungsresten füllen und anschwellen.

COL = collision – botsing – Kollision

Collision is used when we observe signs of a mechanical death, e.g. broken bones, or internal heavy bruises. These may be caused by collisions with cables, wires, ship- or lighthouse lights, cliff accidents, and also roadkills. Collision may lead to instant death, but also to a slow starvation in birds being injured and alive, but unable to provide themselves with food.

Botsing als doodsoorzaak wordt gebruikt wanneer er tekenen zijn van een 'mechanische' doodsoorzaak, zoals gebroken botten of zware inwendige kneuzingen. Dit kan ontstaan door botsing met kabels, draden, verlichting op schepen of vuurtoren, ongelukken op de klif, maar bv ook verkeersslachtoffers. Botsingen kunnen de onmiddellijke doodsoorzaak zijn, maar kunnen ook leiden tot de hongerdood als een dier niet meer in staat is voldoende voedsel te verzamelen.

Kollision wird als Todesursache angesehen, wenn es Anzeichen für einen „mechanischen“ Tod, z.B. durch gebrochene Knochen oder starke innere Verletzungen gibt. Diese können durch Kollisionen mit Kabeln, Drähten, Lichtern von Schiffen oder Leuchttürmen, bei Unfällen in Steilklippen oder bei Verkehrsunfällen auftreten. Kollision kann sofort zum Tode oder langsam zum Verhungern führen, wenn sich die Tiere so sehr verletzt haben, dass sie sich nicht mehr mit Nahrung versorgen können.

DRO = drowning – verdrinking – Ertrinken

This is used when the birds appear healthy, and in good body condition, except for bloodfilled or soaked lungs. These things suggest that the bird may have drowned instantly in surface nets. This could also be on longline hooks but without visible damage from the longline (see below).

De term DRO wordt gebruikt als de vogel uitwendig en inwendig gezond oogt en in normale conditie is, maar waarbij bloed in longen of gesprongen aderen een aanwijzing zijn dat de vogel verdronken is. Dat kan in netten zijn, maar ook door lange-lijn-visserij maar zonder zichtbare schade van haken of lijnen (zie hieronder).

Dies wird angewendet, wenn die Vögel gesund und in guter körperlicher Verfassung erscheinen und nur die Lungen durch das Platzen von Gefäßen mit Blut gefüllt sind. Dies deutet an, dass der Vogel in oberflächennahen Netzen oder auch an einer Langleine ertrunken ist, ohne jedoch offensichtliche Spuren einer Hakenverletzung zu zeigen (siehe unten).

LLV = long-line victim Lange-lijn slachtoffer – Langleinenopfer

A specific case of drowning or entanglement. Evidence showing that the bird drowned from longline hooking or entanglement, where birds are drawn down with the hooked line. This may be indicated by

hook damage, often in the bill, or in the arm wing, in combination with good body condition, but e.g. fresh blood in lungs and burst internal veins.

Dit is een speciaal geval van verdrinking en verstricking en wordt gebruikt wanneer uit aanwezigheid van haak en lijn, of daarvoor typerende schade aan snavel of lijf duidelijk is dat de vogel is vastgeraakt aan een beaasde haak en mee onder water is getrokken.

Ein spezieller Fall von Ertrinken und Verstrickung, wenn es Anzeichen gibt, dass sich der Vogel in einer Langleine verhakt oder verfangen hat und dadurch unter Wasser gezogen wurde. Auch beim Fehlen von Haken und Schnur können hakentypische Verletzungen - häufig am Schnabel oder im Armflügel – ein Langleinenopfer anzeigen. Typisch sind dabei auch eine gute Körperkondition des Vogels mit Ausnahme der Lungen, die durch geplatze Gefäße mit frischem Blut gefüllt sind.

GUT = various internal problems

diverse inwendige problemen – diverse innere Probleme

This acronym is used for a range of problems observed during autopsy in the internal parts of the bird. This could be serious inflammations, e.g. in the oviduct of females, or serious kidney problems (granular obstructions); malformations, etc., or combinations of such problems. In the case of heavy cancers, the more specific acronym CAN Cancer is used. In general some details will be given under dissection notes.

Deze afkorting wordt gebruikt voor een hele reeks inwendig geobserveerde problemen die als waarschijnlijke doodsoorzaak kunnen worden gezien. Dat kunnen zware ontstekingen zijn, bv in het vrouwelijk oviduct, nierfalen (korrelige structuur) misvormingen, etc. In het geval van grote kanker gezwellen wordt CAN Cancer als meer specifieke afkorting gebruikt. Veelal zal onder de dissectie notities wat meer toelichting worden gegeven.

Diese Abkürzung wird für eine Reihe von Problemen verwendet, die während der Sektion im Vogelinneren festgestellt und als wahrscheinliche Todesursache angesehen werden. Dies umfasst schwere Entzündungen, z.B. im Eileiter der Weibchen oder ernste Nierenprobleme (granuläre Verschlüsse); Fehlbildungen etc. oder die Kombination solcher Befunde. Im Falle eines ernstesten Krebsleidens wird die genauere Abkürzung CAN Cancer verwendet. Grundsätzlich werden einige Details unter den Sektionsnotizen angegeben.

PLU = plumage – veerkleed – Gefieder

In some cases, birds may have had problems in primary, tail or body feather moult, which has led to such poor plumage that difficulties in flying or water-proofing may be suspected causing excessive energy needs. In other cases, birds seem to suffer from problems with the down feathers, needed for insulation and additional water-proofing. Sometimes down is completely lacking, exposing bare skin immediately below the covers.

Soms hebben vogels ernstige problemen met de rui van vleugel, staart of lichaamsveren. Dit kan tot een dermate slechte toestand van het verenkleed leiden dat gebrekkig vliegvermogen of waterdichtheid van het verenpak hebben geleid tot extreem energieverbruik en de hongerdood. In andere gevallen kan de dons laag onder de dekveren slecht zijn of zelfs ontbreken.

In einigen Fällen zeigen Vögel Probleme bei der Mauser z.B. der Schwung-, Steuer- oder Körperfedern. Dies kann zu einem dermaßen schlechten Gefiederzustand führen, dass Flugfähigkeit und Wasserundurchlässigkeit so sehr beeinträchtigt sind, dass davon auszugehen ist, dass der Energiebedarf extrem ansteigt. In anderen Fällen scheinen die Vögel unter Problemen mit den Daunen zu leiden, die zur Isolation gebraucht werden. Manchmal fehlen die Daunen vollständig, so dass die Haut unter den Deckfedern frei liegt.

OIL = oiling – Olie – Verölung

Mineral oil in plumage is likely to have caused disrupted water-proofing of plumage or toxication.

Aardolie vervuiling van het verenkleed heeft waarschijnlijk de dood veroorzaakt, door lekkage van de veren of vergiftiging.

Mineralöl im Gefieder hat mutmaßlich den Tod verursacht durch die Zerstörung der Wasserundurchlässigkeit des Gefieders oder durch Vergiftung.

EXT = other external plumage fouling

andere uitwendige vervuiling – andere äußere Verschmutzung

Substances other than mineral oils, such as vegetable or animal oils, paraffins or complex chemical mixtures may affect birds in similar ways to mineral oil.

Andere substanties dan olie, bijv plantaardige of dierlijke olie, paraffine en chemische mengsels kunnen het verenkleed aantasten op een vergelijkbare manier als aardolie.

Andere Substanzen als Mineröle wie z.B. pflanzliche oder tierische Öle, Paraffine oder komplexe chemische Stoffgemische können das Gefieder in ähnlicher Weise wie Mineralöl angreifen.

ING = ingestion – ingeslikte stoffen – Verschlucken

Ingestion of materials is suspected to have caused the death of the bird, e.g. excessive amounts of paraffin or palmfat-like substances, but also extreme accumulation of plastics or other litter.

Het opeten van bepaalde substanties kan soms aangewezen worden als de meest waarschijnlijke doodsoorzaak. Het gaat dan om bijv. extreme hoeveelheden paraffine-achtige of palmolie-achtige stoffen, maar ook om bijv. extreme ophoping van plastics of ander zwerfvuil.

Das Verschlucken von Materialien hat mutmaßlich den Tod des Vogels verursacht, z.B. im Fall von extremen Mengen von paraffin- oder palmfettartigen Substanzen oder von Plastik- oder anderem Müll.

STA = starvation – Verhongering – Verhungern

The bird died slowly from starvation, but it is unknown what has caused this. It may have been prolonged food shortage, but individual problems that cannot be identified during simple autopsies may also play a role. For example one may think of some diseases, undetected injuries, invisible pollution, poisoning or whatever.

Deze term wordt gebruikt als de vogel totaal vermagerd is, zonder dat duidelijk is wat dat heeft veroorzaakt. Dat kunnen ernstige voedseltekorten zijn, maar ook niet direct zichtbare ziektes of verwondingen, vervuiling, vergiftiging e.d.

Dies wird verwendet, wenn der Vogel vollständig abgemagert ist, die Ursache dafür jedoch unklar ist. Dies kann an andauerndem Nahrungsmangel oder an anderen nicht direkt ersichtlichen Krankheiten, Verletzungen, Vergiftungen etc. gelegen haben.

UNK = unknown – onbekend – Unbekannt

Used if we really do not have any clue as to what has caused the death of the bird, which may be the case especially in very old or heavily scavenged corpses.

Dit wordt gebruikt als geen van de bovenstaande afkortingen bruikbaar is, bijvoorbeeld in het geval van extreem oude of totaal leeggevreten kadavers.

Wird nur verwendet, wenn keine der obenstehenden Abkürzungen anwendbar ist, z.B. im Fall von extrem alten oder stark angefressenen Kadavern.