



FINDERS INFORMATION NETHERLANDS 2024

SNS Fulmar Study Report

Jan A. van Franeker, Susanne Kühn, André Meijboom & Oliver Bittner

Wageningen Marine Research



Abstract

Dit is een geïllustreerd rapport over de 37 Noordse Stormvogels die in 2024 in Nederland werden onderzocht in het kader van het monitoring programma van plastics in hun magen. Vijf van deze vogels hadden geen, of een te zwaar beschadigde maag voor het formele monitoring onderzoek. Daarnaast werden nog 14 later binnengekomen kadavers van stormvogels uit 2021 tot 2023 onderzocht, waarvan er 9 een geschikte maag bevatten. Dit onderzoek maakt deel uit van het internationale programma dat metingen verricht aan de voortgang naar de zogenoemde 'Goede Milieu Toestand (GMT)' in de Europese zeegebieden. Volledige resultaten van het monitoring onderzoek worden in jaarlijkse formele onderzoeksrapporten gepubliceerd.

This is an illustrated report on the 37 Northern Fulmars investigated in the Netherlands in 2024 for the monitoring program of plastic particles in their stomachs. Five of these birds had no, or a stomach too damaged to be valid for monitoring. In addition 14 late delivered corpses of fulmars from 2021 to 2023 were investigated, 5 of which had no or a damaged stomach. This research is part of the international program that measures progress towards the so-called 'Good Environmental Status (GES)' in European marine waters. Full study results are published in formal annual research reports.

The report can be downloaded for free from: <https://doi.org/10.18174/693952>

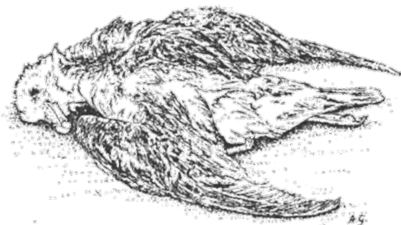
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Beached fulmar
Drawing by Arnold Gronert



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Beste vrijwilligers

(see next page for English text)

Dit document informeert vrijwilligers en geïnteresseerden over de voor ons verzamelde Noordse Stormvogels in het graadmeteronderzoek van plastic in de magen. Deze monitoring wordt uitgevoerd in opdracht van nationale en internationale overheden om informatie te verschaffen over de huidige situatie en ontwikkeling van plastic zwerfvuil in de Noordzee. Deze update betreft de 37 stormvogels gevonden in Nederland in 2024, voorafgegaan door 14 vogels uit 2021, 2022 en 2023 die destijds niet tijdig onderzocht konden worden.

Niet alle ontvangen vogels hadden een maag, maar we blijven benadrukken, dat we 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 enigszins mogelijk acht dat de maag nog aanwezig is. Laat een dode stormvogel alleen maar liggen als het echt zeker is dat de maag ontbreekt. Om het verzamelen van oude stinkende kadavers minder onaangenaam te maken hebben we een filmpje gemaakt over hoe je vieze vogels toch met schone handen kunt verzamelen: <https://youtu.be/co64XsfKgy8>.

Dit rapport bevat voor iedere onderzochte vogel een pagina met informatie 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. Pagina's kunnen zijn toegevoegd ter illustratie van andere opmerkelijke zaken. Afkortingen zijn min of meer vanzelfsprekend of ter plekke verklaard. Een supplement aan het eind van het document geeft uitleg over gebruikte afkortingen.

We bedanken iedereen voor de steun aan dit onderzoek: niet alleen de mensen die de hier besproken stormvogels hebben verzameld, maar 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 van Susanne Kühn, Jan A. van Franeker, André Meijboom en Oliver Bittner

Nederlandse Samenvatting

Dit rapport is een geïllustreerde weergave van de hoeveelheid plastic in magen van in Nederland gevonden Noordse Stormvogels (*Fulmarus glacialis*). Voor iedere vogel wordt informatie samengevat met daarbij foto's van maaginhouden. In 2024 werden 37 dode vogels onderzocht, waarvan er 32 een geschikte maag bevatten. Bij vier vogels was de maag afwezig of te zwaar beschadigd, en één vogel had meer dan drie dagen levend in een vogelasiel doorgebracht. Bij een langer verblijf verdwijnen teveel plastics uit de maag door slijtage of verbrokkeling, maar zulke vogels verschaffen op de langere termijn mogelijk wel informatie over de snelheid van verdwijnen van verschillende soorten plastic uit de maag. Daarnaast zijn gegevens toegevoegd voor 14 vogels (9 met geschikte maag) uit 2021, 2022 en 2023 die niet tijdig voor voorgaande rapporten konden worden geanalyseerd.

Het aantal van 32 onderzochte magen voldoet niet helemaal aan het voor een betrouwbaar jaarbeeld vereiste aantal van ± 40 stuks. Maar om onstabiele jaarlijkse veranderingen te ondervangen, wordt de 'huidige' situatie altijd beschreven als het gemiddelde over de afgelopen vijf jaar. Gedurende 2020-2024 werden 228 magen onderzocht, waarvan 92% plastics bevatte en 53% méér dan 0.1 gram. Als internationale doelstelling geldt dat dit laatste percentage tot onder de 10% teruggebracht zou moeten worden. De gemiddelde maag bevat nu 24 stukjes plastic, met een gewicht van 0.28 g. Gemeten over de afgelopen 10 jaar is, na eerdere afnames, geen statistisch significante verandering meer waarneembaar in het gewicht van ingeslikt plastic. Maar de lange 2002-2024 termijn trend van het jaarlijks percentage vogels met meer dan 0.1 g plastic in de maag, toont nog wel een significante daling ($p=0.010$) met een voorspelling dat rond het jaar 2077 de 10% beleidsdoelstelling gehaald zou kunnen worden. Zie het uitgebreide monitoring rapport voor alle details.

Dear volunteers,

This document intends to inform our project-volunteers and others interested about the beached Northern Fulmars which they collected for the study of plastics in the stomachs. This long-term monitoring is commissioned by national and international authorities in order to provide scientific information about current levels of, and trends in the abundance of plastic litter found in the North Sea. This update provides information on 32 fulmars found in the Netherlands during 2024, supplemented with 14 individuals from years 2021 to 2023 that could not be investigated in time for our earlier reports.

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 to avoid that any fulmar with stomach would be left on the beach! When in doubt, just collect the bird, and don't be disappointed if the occasional one proves to have no stomach.

In order to promote the collection of old and smelly corpses, we have made a short video on how to collect a dirty bird with clean hands: <https://youtu.be/1-akTRD22UE>.

For each individual bird, the report provides a separate information page with stomach content photos. 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 when not clear, all the acronyms are explained in the supplementary pages at the end of this document.

We thank all helpers, not only those who found a bird discussed in this report, but all the volunteers who 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 are extremely thankful for your help,

Suse Kühn, Jan van Franeker, André Meijboom and Oliver Bittner

Summary

*This document is an illustrated report on how many plastics are found in stomachs of beached northern fulmars (*Fulmarus glacialis*) in the Netherlands. It contains short information and photos of stomach contents of individual birds. In 2024 a total of 37 corpses could be recovered, of which 32 contained an stomach suitable for monitoring calculations. The stomach was missing or incomplete in four birds, and a fifth bird had had been alive in rehabilitation for more than 3 days. When longer in rehabilitation, plastics could be grinded and/or excreted fairly rapidly. Stomachs of such birds are not used for monitoring analyses but they may provide further insight in the speed of degradation of different types of plastics in the stomachs. In addition we report on 14 birds found in 2021, 2022, and 2023 (9 with stomach suitable for monitoring) that arrived in our lab too late for inclusion in our earlier reports.*

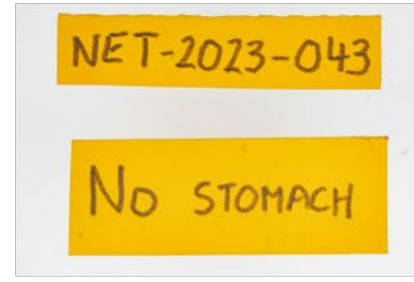
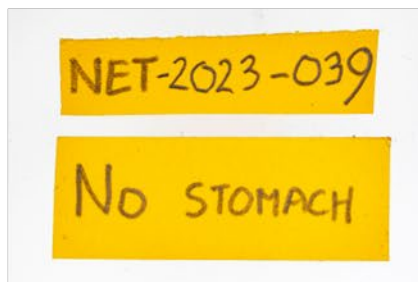
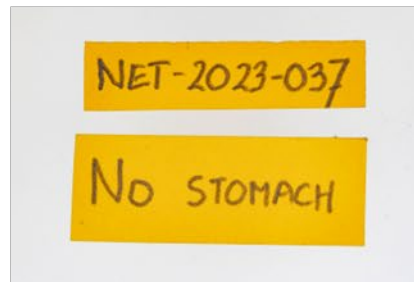
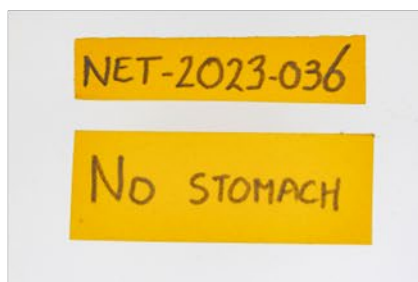
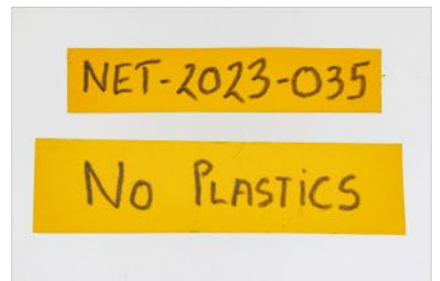
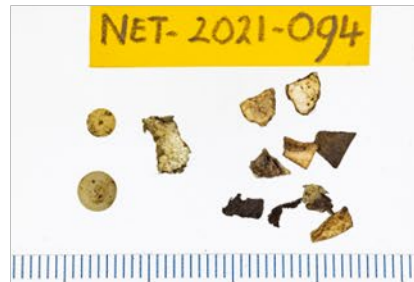
The number of 32 stomachs is considered insufficient for a reliable annual average (about 40 stomachs are considered representative). However, in order to avoid unstable annual variations, we always describe the 'current situation' in our monitoring analyses as the average over the past five years. From 2020 to 2024 we studied a total of 228 stomachs of which 92% contained plastics, and 53% contained more than 0.1 g of plastic. The international policy target is that this latter percentage has to be reduced to under 10%. The average fulmar stomach currently contains 24 plastic particles, weighing 0.28 g. Measured over the past 10 years, we cannot document a significant decline in ingested plastic mass. However, the longer term trend 2002-2024 of annual proportions of birds exceeding the 0.1g level, does show a significant decline ($p=0.010$) predicting that the 10% policy target might be reached around the year 2077. See our full monitoring report for all details.

Waar vind ik mijn vogel ? - *Where can I find my bird?*

De onderstaande lijst helpt u om de gegevens over door u gevonden vogel(s) terug te vinden. *The list below helps to retrieve data on the bird(s) that you found.*

FINDER	BIRD NR
Arts, Floor	2021-094
Brugge, Maarten	2024-002,004,005,006,010,015,019,020,022
Bruin, Dirk	2023-041
Buijs, Roland-Jan	2024-028
Ecomare	2023-033; 2024-011
Havermans, Jarco (Ecomare)	2024-030
Jacobs, Pascalle	2024-007,014
Jacobusse, Wilco	2024-008
Kelder, Leon	2024-036,038
Kiewiet, Theo	2024-026
Kompanje, Erwin	2024-023
Krol, Johan	2023-035,036; 2024-012,024,033,035
Kühn, Suse	2023-034; 2024-017,018
Leopold, Mardik	2023-037
Paters, R.	2024-021
Piek, Arno	2024-003
Renema, Willem	2024-016
Smit, Mariëtte	2023-038
Van Beusekom, Ruud	2024-029
Van Franeker, Jan Andries	2024-001
Van Spanje, Tom	2024-013
Vogelhospitaal Haarlem	2024-031,037
Vogelopvang De Wulp	2021-093
Vogelopvang Terschelling	2024-032
Vogelzang, Stefan	2024-027
Wijnada, Marcel	2024-009
Zuhorn, Carl	2022-079; 2023-039,040,042,043; 2024-034

**Overview of plastics in stomachs of fulmars
found in the Netherlands during 2021 to 2023**
but that arrived in the lab too late for inclusion in our previous report
scale indicates mm



Overview of plastics in stomachs of 37 fulmars found in the Netherlands during 2024 – 3 pages

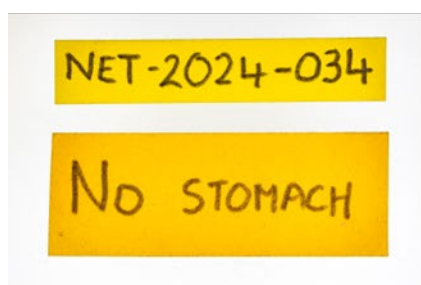
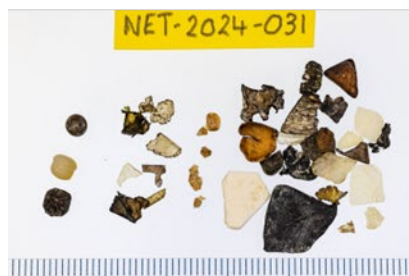
scale indicates mm



Stomach contents Netherlands 2024 - continued



Stomach contents Netherlands 2024 - continued



PAGINAS VOOR INDIVIDUELE VOGELS
samengevatte resultaten van dissectie en maaganalyse,
met foto's van de plastics in de magen.
(de kleinere foto's tonen het registratienummer en een schaalverdeling in mm)

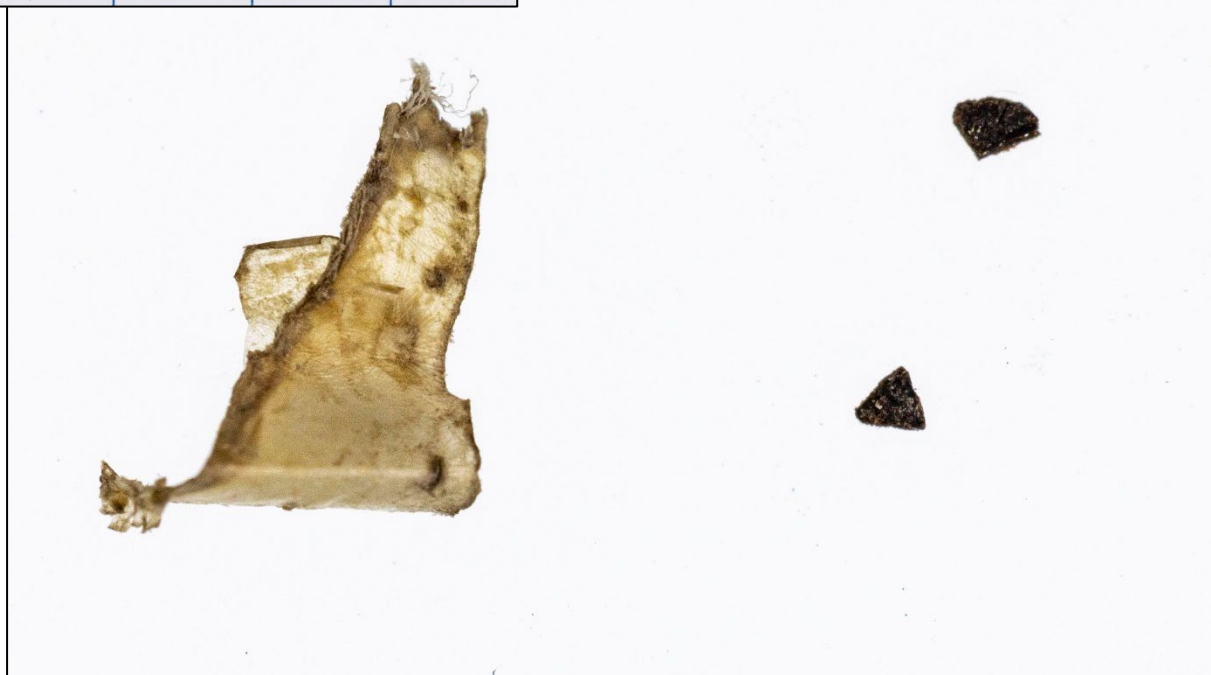
PAGES FOR INDIVIDUAL BIRDS
summary findings from dissection and stomach analyses,
with photos of plastics in the stomachs.
The smaller photos show label with number and a scale bar in mm.

In general subcategories of plastic are sorted on the photos from left to right as:

Industrial plastic
Sheetlike plastic
Threadlike plastic
Foamed plastic
Fragment
other

Nr: **NET-2021-093** *(not included in earlier reports)*

JAFCODE	NET-2021-093
Country	Netherlands
Location	Wassenaarse slag
Date	12-Apr-21
Finder	Vogelopvang De Wulp
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 condition)	7
Likely cause of death (STA=starvation for emaciated with unknown reason)	UNK
Notes from dissection	ringed in rehab: NL5.550.375 by Rense van der Vliet. Brought to rehab on 6 Apr 2021
nr of industrial plastic pellets	<i>Not included because too long in rehab</i>
nr of consumer debris plastic particles	<i>Not included because too long in rehab</i>
Total mass of plastic in stomach (g)	<i>Not included because too long in rehab</i>



Nr: **NET-2021-094** *(not included in earlier reports)*

JAFCODE	NET-2021-094
Country	Netherlands
Location	Westkapelle Zuidstrand
Date	11-Apr-21
Finder	Floor Arts
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 condition)	1
Likely cause of death (STA=starvation for emaciated with unknown reason)	PLU
Notes from dissection	dissected during NOU day 1 Feb 2025
nr of industrial plastic pellets	2
nr of consumer debris plastic particles	11
Total mass of plastic in stomach (g)	0.0827



Nr: **NET-2022-079** *(not included in earlier reports)*

JAFCODE	NET-2022-079
Country	Netherlands
Location	Vlieland Vlaggenlijn Defensie
Date	06-Feb-22
Finder	Carl Zuhorn
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 condition)	1
Likely cause of death (STA=starvation for emaciated with unknown reason)	STA
Notes from dissection	dissected with Peter Puskic (Ocean Cleanup) and Rafael Martig
nr of industrial plastic pellets	3
nr of consumer debris plastic particles	12
Total mass of plastic in stomach (g)	0.2588



Nr: **NET-2023-033** *(not included in earlier reports)*

JAFCODE	NET-2023-033
Country	Netherlands
Location	Texel Paal 23
Date	09-Mar-23
Finder	Ecomare
Sex (Male, Female or UNKnown)	F
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	JU
Colourphase (LL, L, D, DD or UNKnown)	D
Condition score (0=fully emaciated to 9=excellent condition)	1
Likely cause of death (STA=starvation for emaciated with unknown reason)	STA
Notes from dissection	x
nr of industrial plastic pellets	1
nr of consumer debris plastic particles	7
Total mass of plastic in stomach (g)	0.0371



Nr: **NET-2023-034** *(not included in earlier reports)*

JAFCODE	NET-2023-034
Country	Netherlands
Location	Texel Paal 20
Date	22-Jan-23
Finder	Suse Kühn & Mardik Leopold
Sex (Male, Female or UNKnown)	M
Age (JUvenile, 2ndYear, IMmature, ADult, or UNK)	JU
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent condition)	2
Likely cause of death (STA=starvation for emaciated with unknown reason)	STA
Notes from dissection	x
nr of industrial plastic pellets	0
nr of consumer debris plastic particles	7
Total mass of plastic in stomach (g)	0.3412



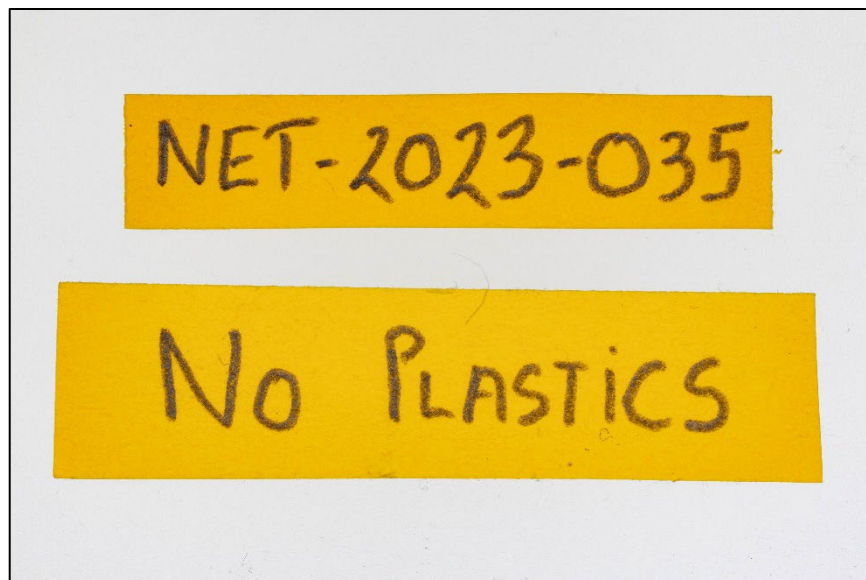
Nr: NET-2023-035 *(not included in earlier reports)*

JAFCODE	NET-2023-035
Country	Netherlands
Location	Ameland Paal 18
Date	20-Feb-23
Finder	Johan Krol
Sex (Male, Female or UNKnown)	F
Age (JUvenile, 2ndYear, IMmature, ADult, or UNK)	JU
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent condition)	
Likely cause of death (STA=starvation for emaciated with unknown reason)	UNK
Notes from dissection	x
nr of industrial plastic pellets	0
nr of consumer debris plastic particles	0
Total mass of plastic in stomach (g)	0

NO PLASTICS IN STOMACH

In order to avoid misunderstanding:

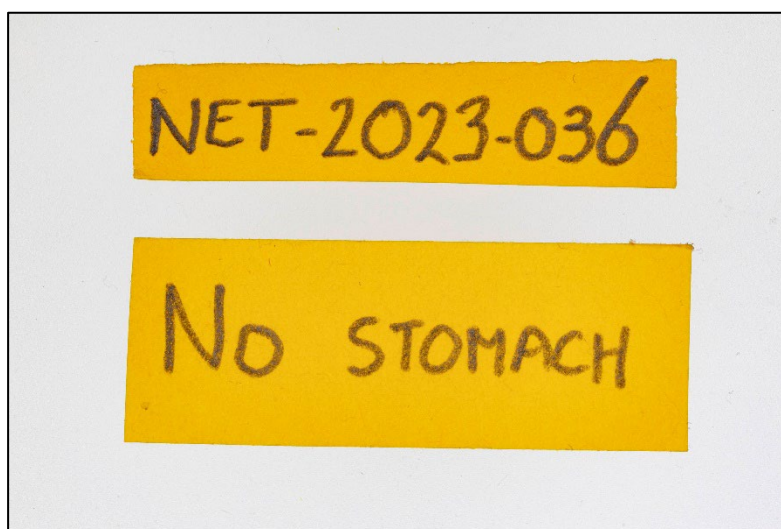
fulmar corpses that contain a complete stomach but that do not contain any plastic, are equally important to the monitoring scheme as stomachs that do contain plastics!



Nr: NET-2023-036

JAFCODE	NET-2023-036
Country	Netherlands
Location	Ameland KM 8
Date	21-Feb-23
Finder	Johan Krol
Sex (Male, Female or UNKnown)	UNK
Age (JUvenile, 2ndYear, IMmature, ADult, or UNK)	UNK
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent condition)	
Likely cause of death (STA=starvation for emaciated with unknown reason)	UNK
Notes from dissection	NO STOMACH. Right wing 11 primaries. Same WL as left wing.
nr of industrial plastic pellets	
nr of consumer debris plastic particles	
Total mass of plastic in stomach (g)	

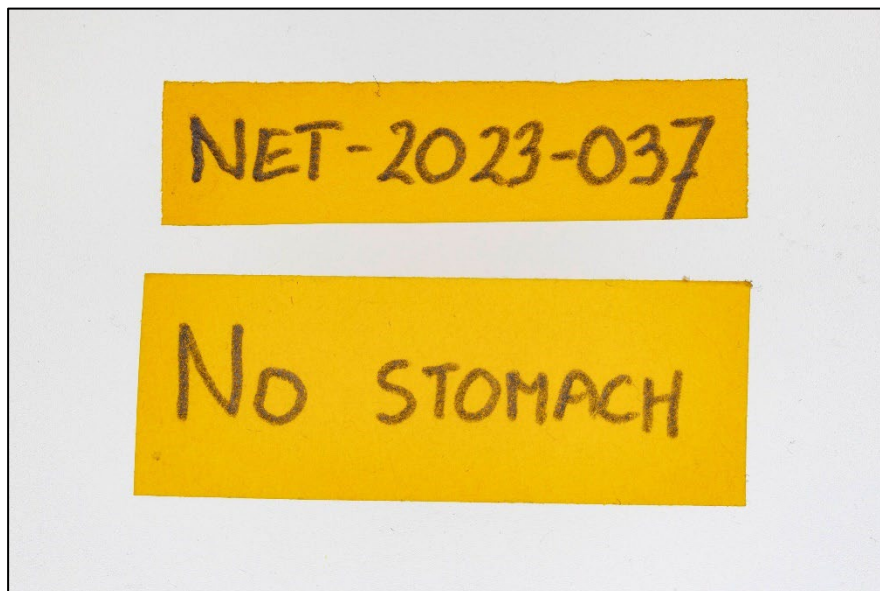
NO STOMACH PRESENT, so this bird could not be used for the plastic monitoring program. However, **please remember** that we ask you to also collect older decayed damaged corpses, as often these may still contain a stomach that contributes to our dataset. We prefer to occasionally receive birds without a stomach or a damaged stomach, rather than leaving potentially valuable material on the beach. Only leave fulmar corpses at the beach when you are absolutely sure that the full interior has been scavenged.



Nr: NET-2023-037

JAFCODE	NET-2023-037
Country	Netherlands
Location	Texel Paal 24
Date	29-Jan-23
Finder	Mardik Leopold & Suse Kühn
Sex (Male, Female or UNKnown)	UNK
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	UNK
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent condition)	1
Likely cause of death (STA=starvation for emaciated with unknown reason)	UNK
Notes from dissection	NO STOMACH. Arrested moult.
nr of industrial plastic pellets	
nr of consumer debris plastic particles	
Total mass of plastic in stomach (g)	

NO STOMACH PRESENT, so this bird could not be used for the plastic monitoring program. However, **please remember** that we ask you to also collect older decayed damaged corpses, as often these may still contain a stomach that contributes to our dataset. We prefer to occasionally receive birds without a stomach, rather than leaving potentially valuable material on the beach. Only leave fulmar corpses at the beach when you are absolutely sure that the full interior has been scavenged.



Nr: NET-2023-038

JAFCODE	NET-2023-038
Country	Netherlands
Location	Texel Prins Hendrik Zanddijk
Date	02-Feb-23
Finder	Mariette Smit (SBB)
Sex (Male, Female or UNKnown)	UNK
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	UNK
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent condition)	
Likely cause of death (STA=starvation for unknown reason)	PLU
Notes from dissection	STOMACH INCOMPLETE
nr of industrial plastic pellets	<i>Not included because incomplete</i>
nr of consumer debris plastic particles	<i>Not included because incomplete</i>
Total mass of plastic in stomach (g)	<i>Not included because incomplete</i>



This incomplete stomach contained lots of plastic:
3 pellets plus 115 user particles (sheet foam fragment)
Total plastic mass; 4.0709 gram!

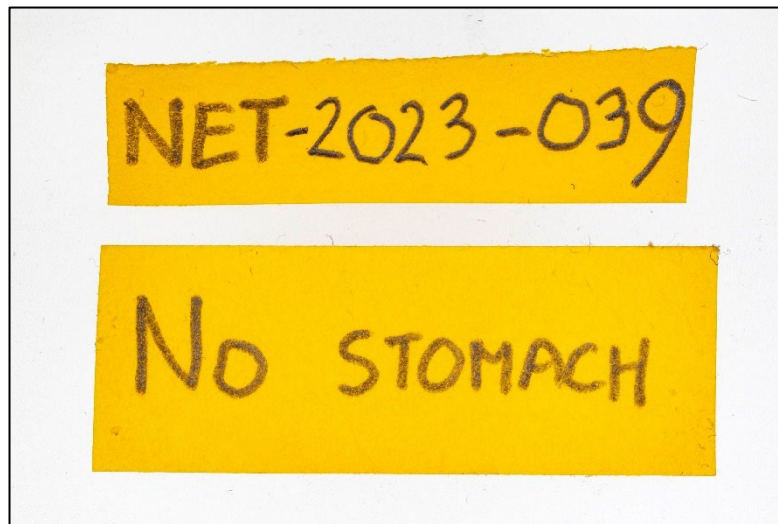
Note the red fragment, remains of a bottle cap



Nr: NET-2023-039

JAFCODE	NET-2023-039
Country	Netherlands
Location	Vlieland Noordzeestrand A Dam
Date	05-Mar-23
Finder	Carl Zuhorn
Sex (Male, Female or UNKnown)	M
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	NONAD
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent condition)	0
Likely cause of death (STA=starvation for unknown reason)	GUT
Notes from dissection	NO STOMACH; heavy inflammation in belly
nr of industrial plastic pellets	
nr of consumer debris plastic particles	
Total mass of plastic in stomach (g)	

NO STOMACH PRESENT, so this bird could not be used for the plastic monitoring program. However, **please remember** that we ask you to also collect older decayed damaged corpses, as often these may still contain a stomach that contributes to our dataset. We prefer to occasionally receive birds without a stomach, rather than leaving potentially valuable material on the beach. Only leave fulmar corpses at the beach when you are absolutely sure that the full interior has been scavenged.



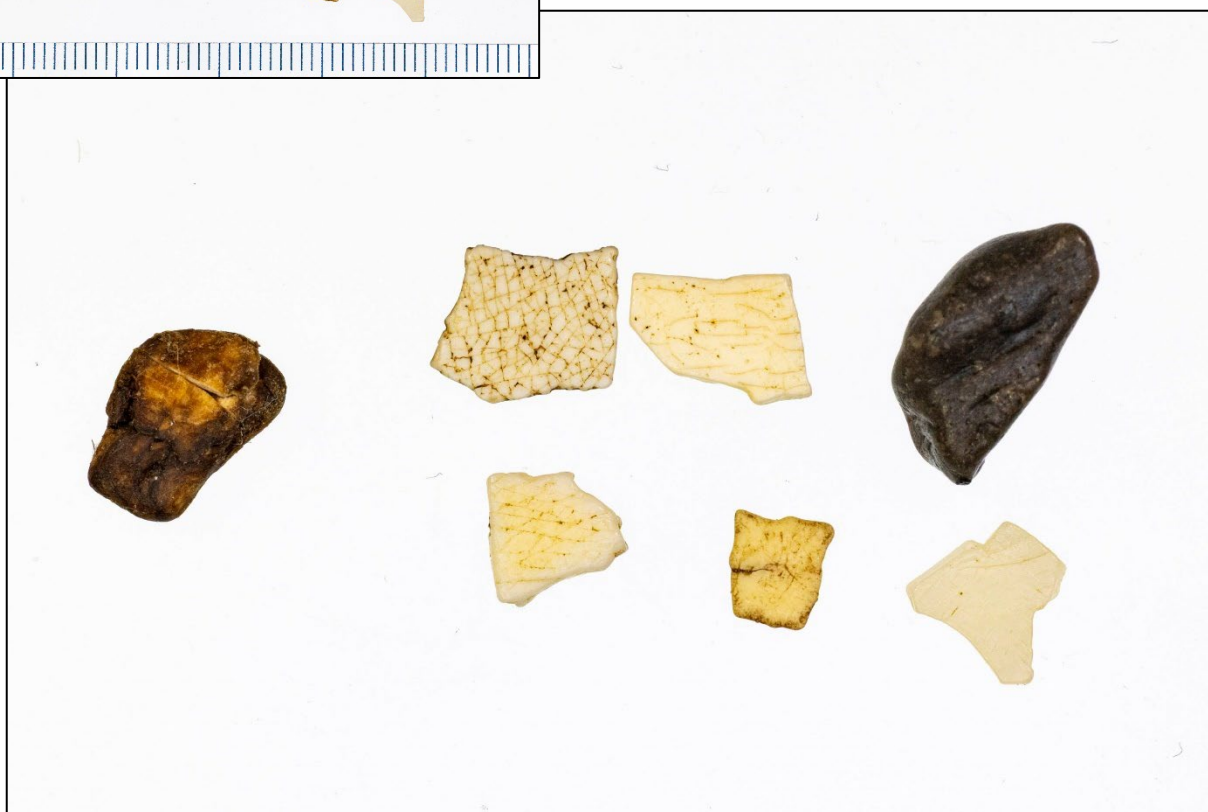
Nr: NET-2023-040

JAFCODE	NET-2023-040
Country	Netherlands
Location	Vlieland Westpunt
Date	12-Aug-23
Finder	Carl Zuhorn
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 condition)	5
Likely cause of death (STA=starvation for unknown reason)	PLU
Notes from dissection	x
nr of industrial plastic pellets	4
nr of consumer debris plastic particles	4
Total mass of plastic in stomach (g)	0.1729



Nr: NET-2023-041

JAFCODE	NET-2023-041
Country	Netherlands
Location	Vlieland Vliehors
Date	11-Mar-23
Finder	Dirk Bruin
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 condition)	1
Likely cause of death (STA=starvation for unknown reason)	PLU
Notes from dissection	secondaries also very worn
nr of industrial plastic pellets	0
nr of consumer debris plastic particles	7
Total mass of plastic in stomach (g)	0.2437



Nr: NET-2023-042

JAFCODE	NET-2023-042
Country	Netherlands
Location	Vlieland Vliehors Noordzeestrand
Date	22-Apr-23
Finder	Carl Zuhorn
Sex (Male, Female or UNKnown)	UNK
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 condition)	0
Likely cause of death (STA=starvation for unknown reason)	STA
Notes from dissection	x
nr of industrial plastic pellets	0
nr of consumer debris plastic particles	8
Total mass of plastic in stomach (g)	0.0464



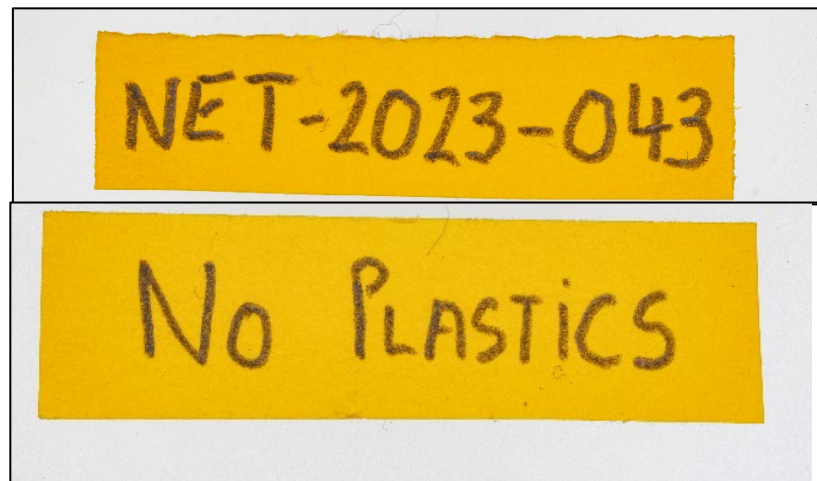
Nr: NET-2023-043

JAFCODE	NET-2023-043
Country	Netherlands
Location	Vlieland Noordzeestrand Paal 20
Date	30-Oct-23
Finder	Carl Zuhorn
Sex (Male, Female or UNKnown)	UNK
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	UNK
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent condition)	
Likely cause of death (STA=starvation for unknown reason)	UNK
Notes from dissection	scavenged and maggot-infested however still intact stomach
nr of industrial plastic pellets	0
nr of consumer debris plastic particles	0
Total mass of plastic in stomach (g)	0

NO PLASTICS IN STOMACH

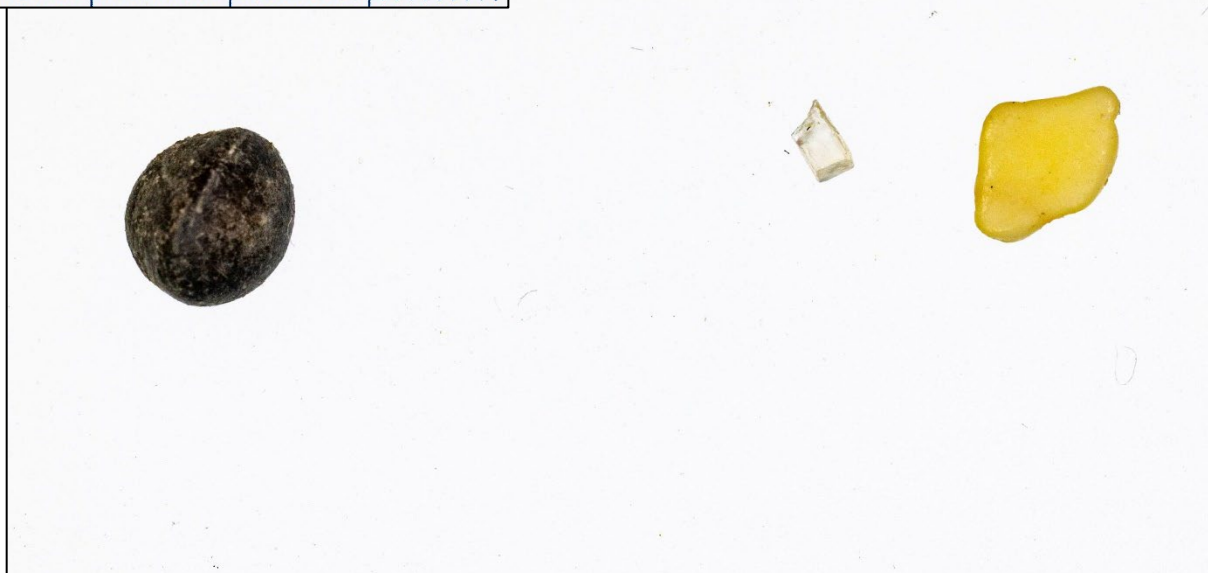
In order to avoid misunderstanding:

fulmar corpses that contain a complete stomach but that do not contain any plastic, are equally important to the monitoring scheme as stomachs that do contain plastics!



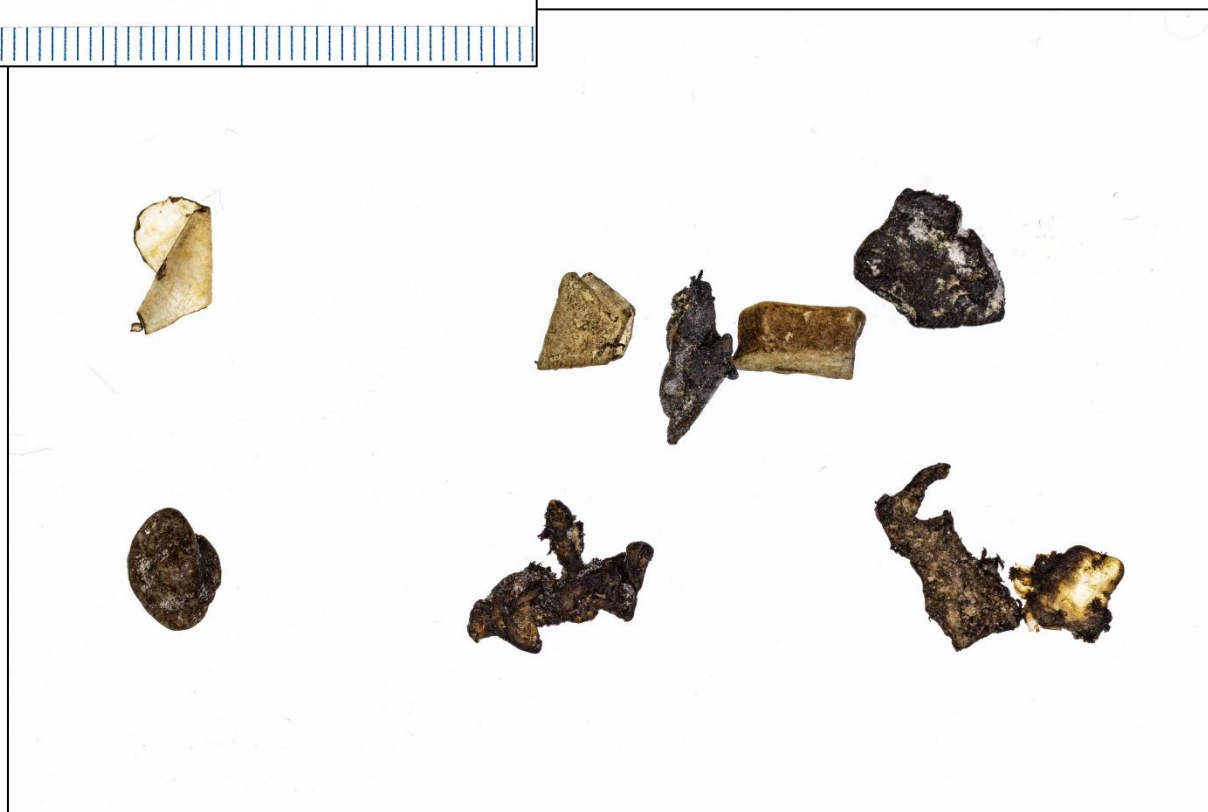
Nr: NET-2024-001

JAFCODE	NET-2024-001
Country	Netherlands
Location	Texel Ferry harbour
Date	25-Jan-24
Finder	Jan van Franeker (also rec. by A Piek)
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 condition)	6
Likely cause of death (STA=starvation for unknown reason)	UNK
Notes from dissection	X
nr of industrial plastic pellets	1
nr of consumer debris plastic particles	2
Total mass of plastic in stomach (g)	0.0328



Nr: NET-2024-002

JAFCODE	NET-2024-002
Country	Netherlands
Location	Texel Paal 13
Date	23-Jan-24
Finder	Maarten Brugge
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 condition)	5
Likely cause of death (STA=starvation for unknown reason)	UNK
Notes from dissection	X
nr of industrial plastic pellets	1
nr of consumer debris plastic particles	8
Total mass of plastic in stomach (g)	0.0319



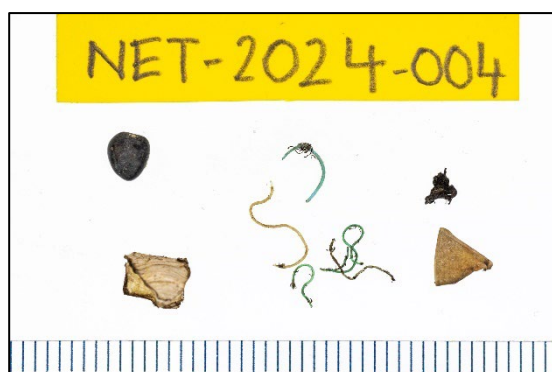
Nr: NET-2024-003

JAF CODE	NET-2024-003
Country	Netherlands
Location	Texel Ferry harbour
Date	25-Jan-24
Finder	Arno Piek (coll. by JAF)
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 condition)	4
Likely cause of death (STA=starvation for unknown reason)	COL
Notes from dissection	Left tarsus broken
nr of industrial plastic pellets	0
nr of consumer debris plastic particles	13
Total mass of plastic in stomach (g)	0.1519



Nr: NET-2024-004

JAFCODE	NET-2024-004
Country	Netherlands
Location	Texel Paal 15
Date	24-Jan-24
Finder	Maarten Brugge
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 condition)	6
Likely cause of death (STA=starvation for unknown reason)	UNK
Notes from dissection	X
nr of industrial plastic pellets	1
nr of consumer debris plastic particles	9
Total mass of plastic in stomach (g)	0.0321



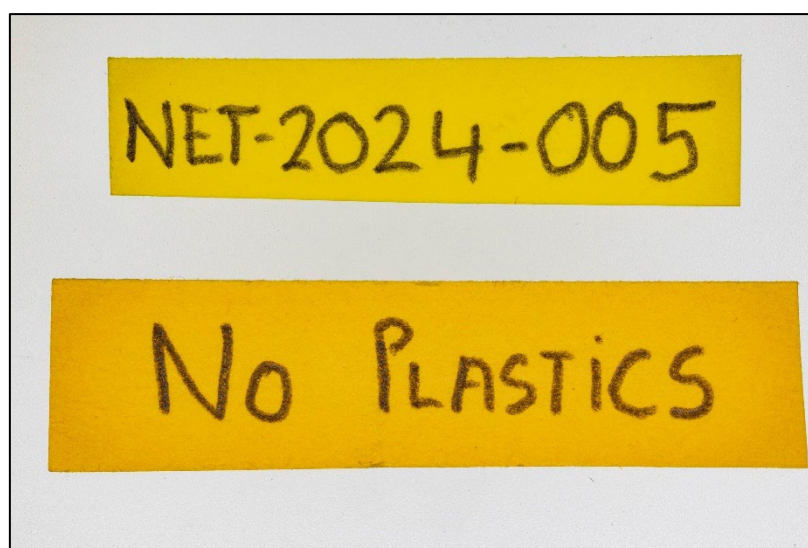
Nr: NET-2024-005

JAFCODE	NET-2024-005
Country	Netherlands
Location	Texel Paal 12
Date	16-Jan-24
Finder	Maarten Brugge
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 condition)	2
Likely cause of death (STA=starvation for unknown reason)	COL
Notes from dissection	Left humerus broken
nr of industrial plastic pellets	0
nr of consumer debris plastic particles	0
Total mass of plastic in stomach (g)	0

NO PLASTICS IN STOMACH

In order to avoid misunderstanding:

fulmar corpses that contain a complete stomach but that do not contain any plastic, are equally important to the monitoring scheme as stomachs that do contain plastics!



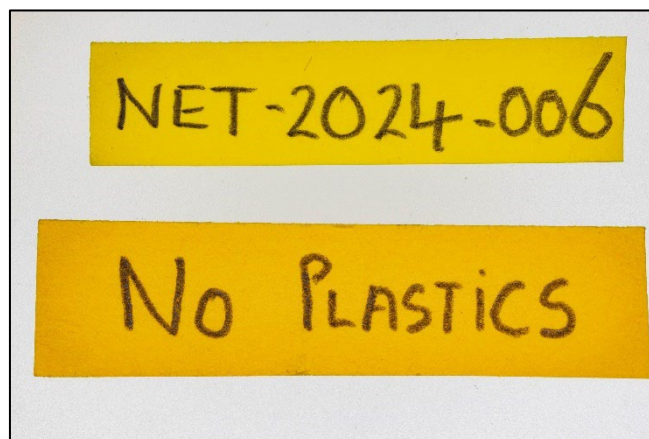
Nr: NET-2024-006

JAFCODE	NET-2024-006
Country	Netherlands
Location	Texel Paal 21
Date	24-Jan-24
Finder	Maarten Brugge
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 condition)	2
Likely cause of death (STA=starvation for unknown reason)	GUT
Notes from dissection	Growth in intestines
nr of industrial plastic pellets	0
nr of consumer debris plastic particles	0
Total mass of plastic in stomach (g)	0

NO PLASTICS IN STOMACH

In order to avoid misunderstanding:

fulmar corpses that contain a complete stomach but that do not contain any plastic, are equally important to the monitoring scheme as stomachs that do contain plastics!



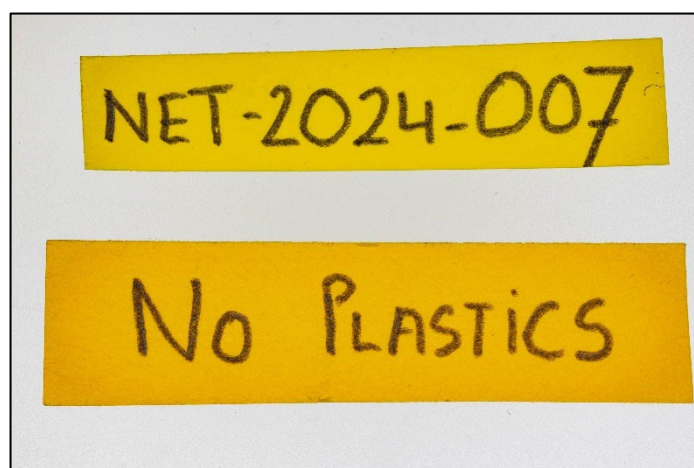
Nr: NET-2024-007

JAFCODE	NET-2024-007
Country	Netherlands
Location	Texel Paal 8
Date	20-Jan-24
Finder	Pascalie Jacobs
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 condition)	7
Likely cause of death (STA=starvation for unknown reason)	UNK
Notes from dissection	X
nr of industrial plastic pellets	0
nr of consumer debris plastic particles	0
Total mass of plastic in stomach (g)	0

NO PLASTICS IN STOMACH

In order to avoid misunderstanding:

fulmar corpses that contain a complete stomach but that do not contain any plastic, are equally important to the monitoring scheme as stomachs that do contain plastics!



Nr: NET-2024-008

JAFCODE	NET-2024-008
Country	Netherlands
Location	Schor 't Stelletje Zierikzee
Date	07-Feb-24
Finder	Wilco Jacobusse
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 condition)	6
Likely cause of death (STA=starvation for unknown reason)	PLU
Notes from dissection	Heavily worn hand feathers
nr of industrial plastic pellets	1
nr of consumer debris plastic particles	3
Total mass of plastic in stomach (g)	0.036



Nr: NET-2024-009

JAFCODE	NET-2024-009
Country	Netherlands
Location	Texel Paal 6
Date	28-Jan-24
Finder	Marcel Wijnalda
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 condition)	5
Likely cause of death (STA=starvation for unknown reason)	PLU
Notes from dissection	X
nr of industrial plastic pellets	0
nr of consumer debris plastic particles	19
Total mass of plastic in stomach (g)	0.0192



Nr: NET-2024-010

JAFCODE	NET-2024-010
Country	Netherlands
Location	Texel paal 22
Date	27-Jan-24
Finder	Maarten Brugge
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 condition)	8
Likely cause of death (STA=starvation for unknown reason)	UNK
Notes from dissection	X
nr of industrial plastic pellets	0
nr of consumer debris plastic particles	21
Total mass of plastic in stomach (g)	0.0927



Nr: NET-2024-011

JAFCODE	NET-2024-011
Country	Netherlands
Location	Texel De Hors
Date	10-Sep-24
Finder	Ecomare
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 condition)	1
Likely cause of death (STA=starvation for unknown reason)	STA
Notes from dissection	x
nr of industrial plastic pellets	2
nr of consumer debris plastic particles	12
Total mass of plastic in stomach (g)	0.1826



Nr: NET-2024-012

JAFCODE	NET-2024-012
Country	Netherlands
Location	Ameland Km 12
Date	14-May-24
Finder	Johan Krol
Sex (Male, Female or UNKnown)	UNK
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	UNK
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent condition)	
Likely cause of death (STA=starvation for unknown reason)	UNK
Notes from dissection	x
nr of industrial plastic pellets	0
nr of consumer debris plastic particles	2
Total mass of plastic in stomach (g)	0.0081



Nr: NET-2024-013

JAFCODE	NET-2024-013
Country	Netherlands
Location	Bloemendaal aan Zee
Date	05-Jun-24
Finder	Tom van Spanje
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 condition)	2
Likely cause of death (STA=starvation for unknown reason)	GUT
Notes from dissection	inflammation in oviduct; sprung follicle
nr of industrial plastic pellets	0
nr of consumer debris plastic particles	2
Total mass of plastic in stomach (g)	0.0268



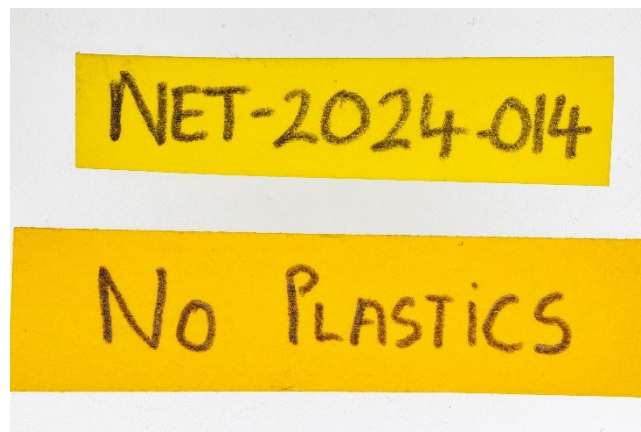
Nr: NET-2024-014

JAFCODE	NET-2024-014
Country	Netherlands
Location	Texel Paal 8
Date	26-Mar-24
Finder	Pascalie Jacobs
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 condition)	6
Likely cause of death (STA=starvation for unknown reason)	UNK
Notes from dissection	x
nr of industrial plastic pellets	0
nr of consumer debris plastic particles	0
Total mass of plastic in stomach (g)	0

NO PLASTICS IN STOMACH

In order to avoid misunderstanding:

fulmar corpses that contain a complete stomach but that do not contain any plastic, are equally important to the monitoring scheme as stomachs that do contain plastics!



Nr: NET-2024-015

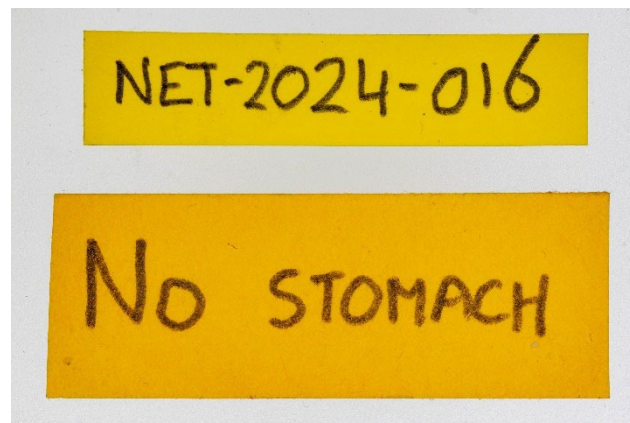
JAFCODE	NET-2024-015
Country	Netherlands
Location	Schiermonnikoog
Date	17-Sep-24
Finder	Maarten Brugge
Sex (Male, Female or UNKnown)	M
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	JU
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent condition)	1
Likely cause of death (STA=starvation for unknown reason)	STA
Notes from dissection	Inflammation of the gut
nr of industrial plastic pellets	0
nr of consumer debris plastic particles	9
Total mass of plastic in stomach (g)	0.0332



Nr: NET-2024-016

JAFCODE	NET-2024-016
Country	Netherlands
Location	Kwade Hoek
Date	14-Sep-24
Finder	Willem Renema (coll. by Esther de Jong)
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 condition)	
Likely cause of death (STA=starvation for unknown reason)	UNK
Notes from dissection	NO STOMACH
nr of industrial plastic pellets	
nr of consumer debris plastic particles	
Total mass of plastic in stomach (g)	

NO STOMACH PRESENT, so this bird could not be used for the plastic monitoring program. However, **please remember** that we ask you to also collect older decayed damaged corpses, as often these may still contain a stomach that contributes to our dataset. We prefer to occasionally receive birds without a stomach, rather than leaving potentially valuable material on the beach. Only leave fulmar corpses at the beach when you are absolutely sure that the full interior has been scavenged.



Nr: NET-2024-017

JAFCODE	NET-2024-017
Country	Netherlands
Location	Texel Paal 19
Date	30-Mar-24
Finder	Suse Kühn
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 condition)	2
Likely cause of death (STA=starvation for unknown reason)	PLU
Notes from dissection	arrested moult; very worn tails feathers except outer ones
nr of industrial plastic pellets	0
nr of consumer debris plastic particles	14
Total mass of plastic in stomach (g)	0.0936



Nr: NET-2024-018

JAFCODE	NET-2024-018
Country	Netherlands
Location	Texel Paal 17
Date	30-Mar-24
Finder	Suse Kühn
Sex (Male, Female or UNKnown)	UNK
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	UNK
Colourphase (LL, L, D, DD or UNKnown)	
Condition score (0=fully emaciated to 9=excellent condition)	
Likely cause of death (STA=starvation for unknown reason)	UNK
Notes from dissection	STOMACH INCOMPLETE
nr of industrial plastic pellets	<i>Not included because incomplete</i>
nr of consumer debris plastic particles	<i>Not included because incomplete</i>
Total mass of plastic in stomach (g)	<i>Not included because incomplete</i>

STOMACH INCOMPLETE, so this bird could not be used for the plastic monitoring program. However, **please remember** that we ask you to also collect older decayed damaged corpses, as often these may still contain a stomach that contributes to our dataset. We prefer to occasionally receive birds without a stomach or an incomplete stomach, rather than leaving potentially valuable material on the beach. Only leave fulmar corpses at the beach when you are absolutely sure that the full interior has been scavenged.



Nr: NET-2024-019

JAFCODE	NET-2024-019
Country	Netherlands
Location	Texel Paal 24
Date	11-Sep-24
Finder	Maarten Brugge
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 condition)	2
Likely cause of death (STA=starvation for unknown reason)	STA
Notes from dissection	small head; remeasured by JAF
nr of industrial plastic pellets	0
nr of consumer debris plastic particles	4
Total mass of plastic in stomach (g)	0.0451



Nr: NET-2024-020

JAFCODE	NET-2024-020
Country	Netherlands
Location	Texel Paal 20
Date	12-Jun-24
Finder	Maarten Brugge
Sex (Male, Female or UNKnown)	UNK
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	UNK
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent condition)	5
Likely cause of death (STA=starvation for unknown reason)	UNK
Notes from dissection	STOMACH INCOMPLETE
nr of industrial plastic pellets	<i>Not included because incomplete</i>
nr of consumer debris plastic particles	<i>Not included because incomplete</i>
Total mass of plastic in stomach (g)	<i>Not included because incomplete</i>

STOMACH INCOMPLETE, so this bird could not be used for the plastic monitoring program. However, **please remember** that we ask you to also collect older decayed damaged corpses, as often these may still contain a stomach that contributes to our dataset. We prefer to occasionally receive birds without a stomach or an incomplete stomach, rather than leaving potentially valuable material on the beach. Only leave fulmar corpses at the beach when you are absolutely sure that the full interior has been scavenged.



Nr: NET-2024-021

JAFCODE	NET-2024-021
Country	Netherlands
Location	Ameland Duinen Hollum
Date	13-May-24
Finder	R. Paters
Sex (Male, Female or UNKnown)	UNK
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	UNK
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent condition)	
Likely cause of death (STA=starvation for unknown reason)	UNK
Notes from dissection	x
nr of industrial plastic pellets	1
nr of consumer debris plastic particles	18
Total mass of plastic in stomach (g)	0.0724



Nr: NET-2024-022

JAFCODE	NET-2024-022
Country	Netherlands
Location	Texel Paal 7
Date	15-Oct-24
Finder	Maarten Brugge
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 condition)	4
Likely cause of death (STA=starvation for unknown reason)	UNK
Notes from dissection	x
nr of industrial plastic pellets	8
nr of consumer debris plastic particles	34
Total mass of plastic in stomach (g)	0.3016



Nr: NET-2024-023

JAFCODE	NET-2024-023
Country	Netherlands
Location	Ouddorp Groene Dijk
Date	19-Apr-24
Finder	via Erwin Kompanje
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 condition)	2
Likely cause of death (STA=starvation for 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)	0.0016



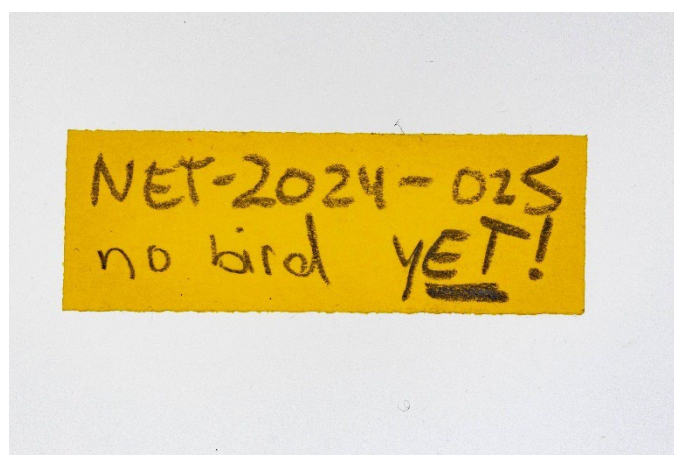
Nr: NET-2024-024

JAFCODE	NET-2024-024
Country	Netherlands
Location	Ameland Paal 16.8
Date	15-Sep-24
Finder	Johan Krol
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 condition)	1
Likely cause of death (STA=starvation for unknown reason)	STA
Notes from dissection	x
nr of industrial plastic pellets	7
nr of consumer debris plastic particles	21
Total mass of plastic in stomach (g)	0.4597



Nr: NET-2024-025

JAF CODE	NET-024-025
Country	
Location	NOT USED
Date	
Finder	
Sex (Male, Female or UNKnown)	
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	
Colourphase (LL, L, D, DD or UNKnown)	
Condition score (0=fully emaciated to 9=excellent condition)	
Likely cause of death (STA=starvation for unknown reason)	
Notes from dissection	NOT USED NR EMPTY
nr of industrial plastic pellets	
nr of consumer debris plastic particles	
Total mass of plastic in stomach (g)	



Nr: NET-2024-026

JAFCODE	NET-2024-026
Country	Netherlands
Location	Ameland Paal 17
Date	25-Apr-24
Finder	Theo Kiewiet
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 condition)	
Likely cause of death (STA=starvation for unknown reason)	PLU
Notes from dissection	tailfeathers not moulted; P10 longest but not fully grown.
nr of industrial plastic pellets	1
nr of consumer debris plastic particles	16
Total mass of plastic in stomach (g)	0.0904



Nr: NET-2024-027

JAFCODE	NET-2024-027
Country	Netherlands
Location	Schiermonnikoog Paal 10
Date	31-Oct-24
Finder	Stefan Vogelzang (coll. By Kees Oosterbeek)
Sex (Male, Female or UNKnown)	UNK
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	UNK
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent condition)	
Likely cause of death (STA=starvation for unknown reason)	UNK
Notes from dissection	heavily scavenged but intact stomach!
nr of industrial plastic pellets	0
nr of consumer debris plastic particles	1
Total mass of plastic in stomach (g)	0.3



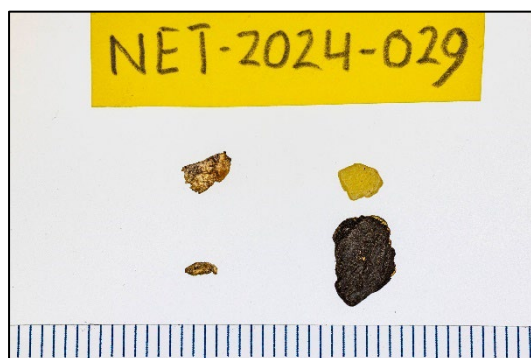
Nr: NET-2024-028

JAFCODE	NET-2024-028
Country	Netherlands
Location	Ellesmeet Dammenberg
Date	22-Apr-24
Finder	Roland-Jan Buijs
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 condition)	1
Likely cause of death (STA=starvation for unknown reason)	GUT
Notes from dissection	found dying; secondaries heavily worn; gut heavily constipated; dissected during podcast recordings Maarten Dallinga
nr of industrial plastic pellets	1
nr of consumer debris plastic particles	21
Total mass of plastic in stomach (g)	0.0836



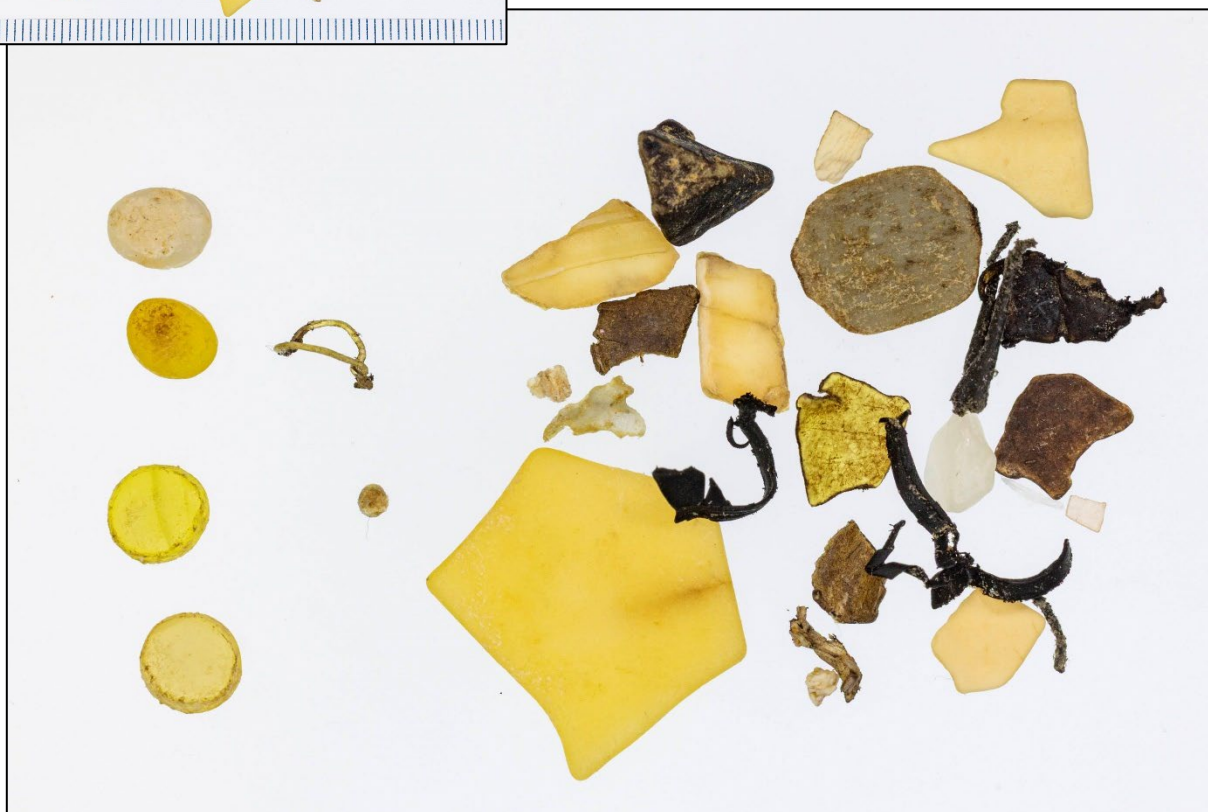
Nr: NET-2024-029

JAFCODE	NET-2024-029
Country	Netherlands
Location	Texel Molwerk
Date	27-Nov-24
Finder	Ruud van Beusekom
Sex (Male, Female or UNKnown)	UNK
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	UNK
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent condition)	1
Likely cause of death (STA=starvation for unknown reason)	STA
Notes from dissection	dissected during podcast recordings Maarten Dallinga
nr of industrial plastic pellets	0
nr of consumer debris plastic particles	4
Total mass of plastic in stomach (g)	0.0239



Nr: NET-2024-030

JAFCODE	NET-2024-030
Country	Netherlands
Location	Texel De Hors
Date	23-Dec-24
Finder	Jarco Havermans
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 condition)	7
Likely cause of death (STA=starvation for unknown reason)	UNK
Notes from dissection	slightly granular kidney
nr of industrial plastic pellets	4
nr of consumer debris plastic particles	24
Total mass of plastic in stomach (g)	0.5481



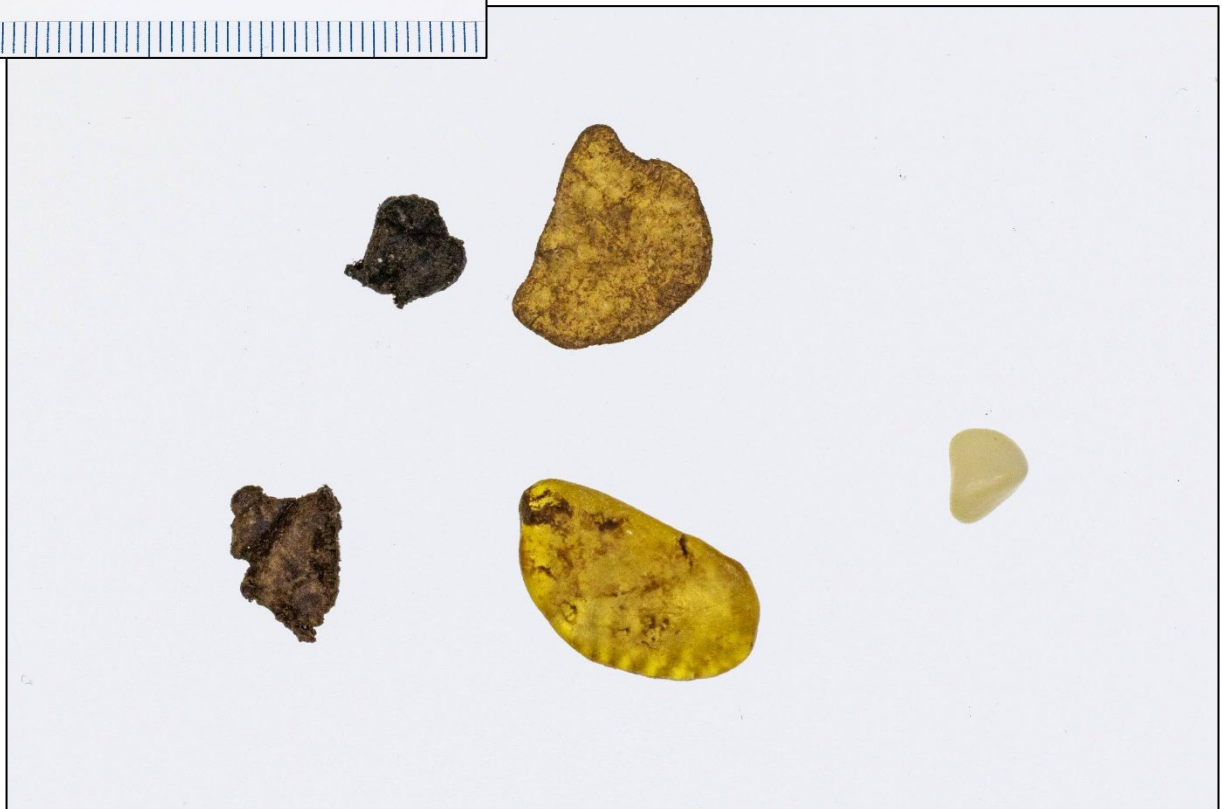
Nr: NET-2024-031

JAFCODE	NET-2024-031
Country	Netherlands
Location	Bloemendaal aan Zee
Date	17-Nov-24
Finder	Vogelhospitaal Haarlem
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 condition)	2
Likely cause of death (STA=starvation for unknown reason)	PLU
Notes from dissection	dissected with Peter Puskic (Ocean Cleanup) and Rafael Martig
nr of industrial plastic pellets	3
nr of consumer debris plastic particles	37
Total mass of plastic in stomach (g)	0.514



Nr: NET-2024-032

JAFCODE	NET-2024-032
Country	Netherlands
Location	Terschelling Formerum inner side of dunes
Date	28-Sep-24
Finder	Vogelopvang Terschelling
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 condition)	5
Likely cause of death (STA=starvation for unknown reason)	UNK
Notes from dissection	brought alive to rehab but died quickly
nr of industrial plastic pellets	0
nr of consumer debris plastic particles	5
Total mass of plastic in stomach (g)	0.0203



Nr: NET-2024-033

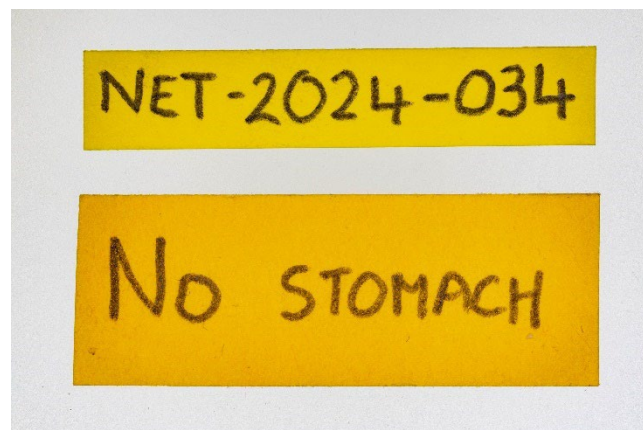
JAFCODE	NET-2024-033
Country	Netherlands
Location	Ameland Km 18
Date	23-Sep-24
Finder	Johan Krol
Sex (Male, Female or UNKnown)	M
Age (JUvenile, 2 nd Year, IMmature, ADult, or UNK)	JU
Colourphase (LL, L, D, DD or UNKnown)	LL
Condition score (0=fully emaciated to 9=excellent condition)	0
Likely cause of death (STA=starvation for unknown reason)	STA
Notes from dissection	x
nr of industrial plastic pellets	1
nr of consumer debris plastic particles	8
Total mass of plastic in stomach (g)	0.1602



Nr: NET-2024-034

JAFCODE	NET-2024-034
Country	Netherlands
Location	Vlieland Noordzeestrand Dam 20
Date	17-Dec-24
Finder	Carl Zuhorn
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 condition)	8
Likely cause of death (STA=starvation for unknown reason)	UNK
Notes from dissection	NO STOMACH
nr of industrial plastic pellets	
nr of consumer debris plastic particles	
Total mass of plastic in stomach (g)	

NO STOMACH PRESENT, so this bird could not be used for the plastic monitoring program. However, **please remember** that we ask you to also collect older decayed damaged corpses, as often these may still contain a stomach that contributes to our dataset. We prefer to occasionally receive birds without a stomach or a damaged stomach, rather than leaving potentially valuable material on the beach. Only leave fulmar corpses at the beach when you are absolutely sure that the full interior has been scavenged.



Nr: NET-2024-035

JAFCODE	NET-2024-035
Country	Netherlands
Location	Ameland Km 16.8
Date	15-Sep-24
Finder	Johan Krol
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 condition)	1
Likely cause of death (STA=starvation for unknown reason)	STA
Notes from dissection	x
nr of industrial plastic pellets	1
nr of consumer debris plastic particles	6
Total mass of plastic in stomach (g)	0.0385



Nr: NET-2024-036

JAFCODE	NET-2024-036
Country	Netherlands
Location	Wieringen Vatroop
Date	22-Sep-24
Finder	Leon Kelder
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 condition)	0
Likely cause of death (STA=starvation for unknown reason)	STA
Notes from dissection	bill skin loose - no head measurements possible
nr of industrial plastic pellets	2
nr of consumer debris plastic particles	23
Total mass of plastic in stomach (g)	0.1135



Nr: NET-2024-037

JAFCODE	NET-2024-037
Country	Netherlands
Location	Zandvoort
Date	18-Nov-24
Finder	Vogelhospitaal Haarlem
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 condition)	1
Likely cause of death (STA=starvation for unknown reason)	STA
Notes from dissection	brought to rehab 18 Nov; died 25 Nov 2024
nr of industrial plastic pellets	<i>Not included because too long in rehab</i>
nr of consumer debris plastic particles	<i>Not included because too long in rehab</i>
Total mass of plastic in stomach (g)	<i>Not included because too long in rehab</i>



Nr: NET-2024-038

JAFCODE	NET-2024-038
Country	Netherlands
Location	Wieringen Waddenhaven
Date	22-Sep-24
Finder	Leon Kelder
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 condition)	1
Likely cause of death (STA=starvation for unknown reason)	STA
Notes from dissection	scavenged
nr of industrial plastic pellets	1
nr of consumer debris plastic particles	33
Total mass of plastic in stomach (g)	0.171



Supplement individual details (acronyms)

Supplement individuele details (afkortingen)

The ruler in photo's shows scaling in mm and cm

De lineaal bij de fotos toont schaalverdeling in mm en cm

CEM = cementcloaca - cementcloaca

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.

COL = collision – botsing

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.

DRO = drowning – verdrinking

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).

LLV = long-line victim Lange-lijn slachtoffer

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 verstrikking 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.

GUT = various internal problems diverse inwendige problemen

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 gezwollen wordt CAN Cancer als meer specifieke afkorting gebruikt. Veelal zal onder de dissectie notities wat meer toelichting worden gegeven.

PLU = plumage – veerkleed

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 donsraag onder de dekveren slecht zijn of zelfs ontbreken.

OIL = oiling – Olie

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.

EXT = other external plumage fouling

andere uitwendige vervuiling

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.

ING = ingestion – ingeslikte stoffen

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.

STA = starvation – Verhongering

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.

UNK = unknown – onbekend

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.