

# RÆKJA – NORTHERN SHRIMP (SNÆFELLSNES)

## *Pandalus borealis*

### RÁÐGJÖF – ADVICE

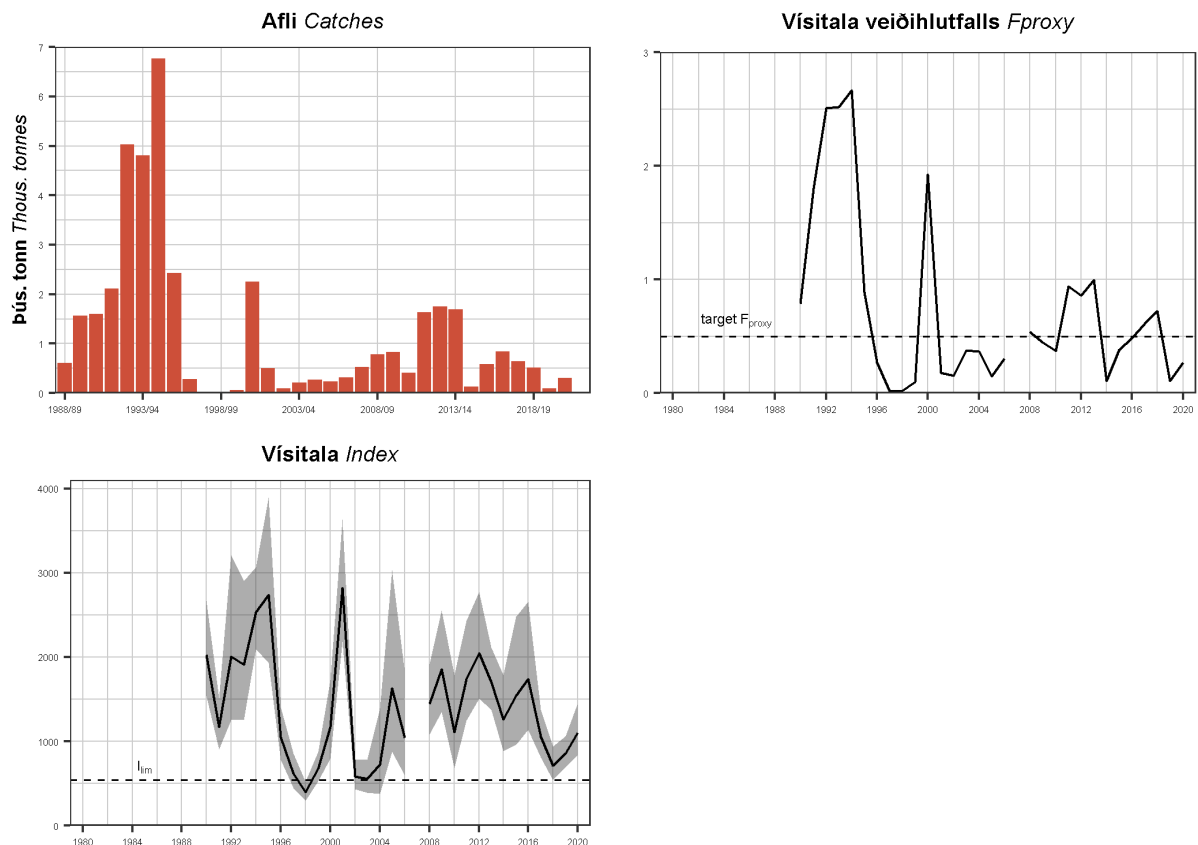
Hafrannsóknastofnun ráðleggur í samræmi við varúðarsjónarmið að afli á svæðinu við Snæfellsnes frá 1. maí 2021 til 15. mars 2022 verði ekki meiri en 393 tonn.

*MFRI advises that when the precautionary approach is applied, catch in the Snæfellsnes area should be no more than 393 tonnes in the period 1 May 2021 to 15 March 2022.*

### STOFNÞRÓUN – STOCK DEVELOPMENT

Rækjuafli við Snæfellsnes var mestur árin 1992–1995. Vísitala veiðihlutfalls var há þessi ár og í kjölfarið hrundi stofninn. Síðan þá hefur vísitala veiðihlutfalls sveiflast í kringum markgildi. Stofnvísitalan hefur verið lág frá árinu 2017 miðað við meðaltal árunna 2008–2016.

*Shrimp catch in the Snæfellsnes area peaked in 1992–1995.  $F_{proxy}$  was high during this period and in the following years the stock collapsed. Since then,  $F_{proxy}$  has fluctuated around target  $F_{proxy}$ . Biomass index has fluctuated but has been at low levels since 2017 relative to the mean of 2008–2016.*



**Rækja Snæfellsnes. Afli, stofnvísitala og vísitala veiðihlutfalls.**  
**Northern shrimp Snæfellsnes. Catches, biomass indices and  $F_{proxy}$ .**

## STOFNMAT OG GÁTMÖRK – BASIS OF THE ASSESSMENT AND REFERENCE POINTS

Forsendur ráðgjafar <i>Advice basis</i>	Varúðarnálgun <i>Precautionary approach</i>
Aflaregla <i>Management plan</i>	Ekki hefur verið sett aflaregla fyrir þennan stofn <i>There is no management plan for this stock</i>
Stofnmat <i>Assessment type</i>	Byggt á tímaháðum breytingum í afla og stofnmælingum <i>Trends in biomass indicators and catch</i>
Inntaksgögn <i>Input data</i>	Afli og vísitölur úr stofnmælingu rækju <i>Commercial catch and biomass indices (Icelandic shrimp survey)</i>

Nálgun <i>Framework</i>	Gátmörk <i>Reference point</i>	Gildi <i>Value</i>	Grunnur <i>Basis</i>
Varúðarnálgun <i>Precautionary approach</i>	Target $F_{proxy}$	0.5	Sögulegt samband afla og stofnvísitölu <i>Historical relationship between catch and survey index</i>
	$I_{lim}$	540	Gildi vísitölu veiðistofns sem er 20% af meðaltali þriggja hæstu vísitölugilda. Notað sem varúðarmörk ( $B_{lim}$ ). <i>Biomass index value of 20% of the mean of the three highest indices. Used as a proxy for <math>B_{lim}</math></i>

Ástand rækju við Snæfellsnes var ekki kannað með stofnmælingu árið 2021. Ráðgjöf Hafrannsóknastofnunar byggir því á fyrri ráðgjöf en vegna óvissu um ástand stofnsins er ráðgjöfin lækkuð um 20%.

*The status of shrimp near Snæfellsnes was not assessed in a survey in 2021. MFRI advice for 2021 is therefore based on the advice in 2020 but lowered by 20% as a precautionary measure due to the uncertainty regarding the size of the stock.*

Ráðgjöf 2020 – <i>Advice 2020</i>		491 t
Sveiflujöfnun – <i>Uncertainty cap</i>	Ekki beitt – <i>Not applied</i>	
Varúðarlækkun – <i>Precautionary buffer</i>	Beitt – <i>Applied</i>	0.8
Ráðgjöf 2021 (Ráðgjöf 2020 * 0.8) <i>Catch advice 2021 (Advice 2020 * 0.8)</i>		393 t

## AÐRAR UPPLÝSINGAR – OTHER INFORMATION

Lítið hefur fengist af þorski og ýsu í stofnmælingu rækju við Snæfellsnes frá 2012. Fiskiskilja er notuð við veiðarnar og er brottkast fisks er talið óverulegt.

*The abundance of cod and haddock in the shrimp survey was low since 2012. Sorting grid is mandatory in the fishery and discarding of fish is considered negligible.*

## RÁÐGJÖF, AFLAMARK OG AFLI – ADVICE, TAC AND CATCH

**Rækja Snæfellsnes.** Tillögur um hámarksaflla, ákvörðun stjórnvalda um aflamark og afli (tonn).  
**Northern shrimp Snæfellsnes.** Recommended TAC, national TAC, and catches (tonnes).

Fiskveiðiar / Ár <i>Fishing year / Year</i>	Tillaga <i>Rec. TAC</i>	Aflamark <i>National TAC</i>	Afli <i>Catches</i>
2010/11	450	-	414
2011/12	850	-	1632
2012/13	1000	-	1755
2013/14	950	-	1698
2014/15	600	600	133
2015/16	700	700	589
2016/17	820	820	826
2017/18	698	698	645
2018/19	442	442	516
2019/20	393	393	90
2020/21	491	489	300
2020/21	393		

## HEIMILDIR OG ÍTAREFNI – REFERENCES AND FURTHER READING

ICES. 2012. Implementation of Advice for Data-limited Stocks in 2012 in its 2012 Advice. ICES CM 2012/ACOM 68.

(<http://www.ices.dk/sites/pub/Publication%20Reports/Expert%20Group%20Report/acom/2012/ADHOC/DLS%20Guidance%20Report%20012.pdf>)

MFRI Assessment Reports 2020. Shrimp in the Snæfellsnes area. Marine and Freshwater Research Institute, 30 April 2020.