Primary prey fixed effects model fits AFPENWCAPE ALBANATL ALBANPAC APUFFHERNYKEN ARCTERFOULA ARFLOUNDPCOAST 0.2 0.100 О 00 0.1 0.10 0.04 0.075 0.0 0.0 0.050 0.05 -0.10.02 0 -0.2 0.025 -2 0.00 -0.2 0.000 0.00 CGANNETWCAPE BLACKROCKCAL BLUEFISHATLC **BRACORFIF BRACORFIS** CHTRACCH $\overline{\circ}$ 0.20 0.50 ∞ 00.15 0 0 S 0.100 0.15 0.25 0.075 0.10 -2 0.10 0.050 0.00 -2 0.05 -4 0.05 0.025 -3 -0.25 0.000 0.00 0.00 -6 CMACKPCOAST COD3M COD3NO COD3Pn4RS COD3Ps COD4TVn 0.4 0.1 0.6 00 000 0.5 0.3 0.3 0.0 0.4 0.2 0.2 -0.1 0.0 0.2 0.1 0.1 -0.2-0.5 0.0 0.0 0.0 -0.3COMGUIFIUU **GSEALSABLEISL GUACORPERU** HAKENRTN **HAKESOTH** CKIIa-IVa-Vb-VIa-VII 0.0 $\overline{\circ}$ 0.4 0.3 0.4 0.10 -2.5 0.3 0.2 0.3 0.1 000 Surplus production (scaled) 0.1 0.05 -5.0 0.2 0.2 0.0 0.0 -7.5 0.1 0.00 0.1 000 0 -10.0 0.0 MONKSGBMATL **MACKNEICES NFURSTGEORGE NFURSTPAUL PACBTUNA PERBOOPERU** 0.2 0.2 0.15 0.25 0.2 0.2 0.1 0.00 0.10 0.0 0.0 -0.25 0.1 0.1 0.05 -0.1 -0.50 -0.1 0.0 0.00 0.0 **PERPELPERU PHSEALJFUCA PHSEALOR PHSEALSJI PHSEALWA** POLL5YZ 0.3 0.3 0.10 0.4 0.2 0.2 0.2 0.2 0.1 0.05 0.0 0.1 0.0 0.0 0.0 0.0 0.00 -0.50 -0.1 -0.2 0 -0.1 0 -0.2 0 -0.2 -0.05 -0.4 POLLNS-VI-IIIa SHAKE4VWX SSTHORNHPCOAST STMARLINNEPAC WHAKE4T WHAKEGBGOM 0.5 0.3 0.015 0.4 0.20 0.4 0.2 0.3 0.010 3 0.15 0.3 0.2 00 0.005 0.1 0.10 0.2 0.1 0.05 0.000 0.1 O 0.0 0 0.0 -0.005 0.00 0.25 0.50 0.75 1.00 0.00 0.25 0.50 0.75 1.00 0.00 0.25 0.50 0.75 1.00 WHITNS-VIId WMARLINATL YTROCKNPCOAST 0.3 0.4 0.04 0.2 0.2 0.1 0.02 0.0 0.0 0.00 -0.1 -0.2-0.2 0.00 0.25 0.50 0.75 1.00 0.00 0.25 0.50 0.75 1.00 0.00 0.25 0.50 0.75 1.00 Abundance (scaled)