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doi:10.1038/nature11131

Dimensionality of consumer search space drives trophic interaction strengths

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Trophic interactions govern biomass fluxes in ecosystems, and stability in food webs. Knowledge of how trophic interaction strengths are affected by differences among habitats is crucial for understanding variation in ecological systems. Here we show how substantial variation in consumption-rate data, and hence trophic interaction strengths, arises because consumers tend to encounter resources more frequently in three dimensions (3D) (for example, arboreal and pelagic zones) than two dimensions (2D) (for example, terrestrial and benthic zones). By combining new theory with extensive data (376 species, with body masses ranging from 5.24×10^{-14} kg to 800 kg), we find that consumption rates scale sublinearly with consumer body mass (exponent of approximately 0.85) for 2D interactions, but superlinearly (exponent of approximately 1.06) for 3D interactions. These results contradict the currently widespread assumption of a single exponent (of approximately 0.75) in consumer–resource and food-web research. Further analysis of 2,929 consumer–resource interactions shows that dimensionality of consumer search space is probably a major driver of species coexistence, and the stability and abundance of populations.

Understanding how physical differences between habitats, such as differences in precipitation, temperature and spatial dimensionality, affect trophic interactions is key to predicting stability and diversity in ecological systems[1–6]. By assuming a simple relationship between consumption rate (energy acquisition) and metabolic rate (energy use), most studies assume that per-capita consumption rates scale with consumer body size (m) to an exponent of approximately 0.75, irrespective of taxon, environment or dimensionality[7–13]. Consequently, mass-specific production rates[8,14] scale as $m^{-0.25}$, including biomass flow rate and per-link trophic interaction strengths in food webs[10,11,13,15,16]. Deviations from quarter-power scaling can arise for at least two reasons. First, foraging is constrained by traits, such as length of locomotory appendages or visual acuity, that do not scale directly with metabolic rate[8,17–20]. Second, species interactions in the field do not occur under the idealized conditions at which metabolic and ingestion rates are usually measured, in which individuals are not foraging, growing or reproducing[8,18,19]. Therefore, consumption-rate scaling may be more closely tied to field or maximal metabolic rate (exponent greater than 0.85), rather than resting metabolic rate (exponent of approximately 0.75)[8,21].

From a biomechanical perspective, both non-metabolic and metabolic constraints on consumption rate should depend on the habitat's spatial dimensionality because it strongly influences the energetic costs of locomotion (for example, to overcome gravity)[18,19] and the probability either of a consumer detecting a resource or vice versa[17,20]. Indeed, over two decades ago, habitat dimensionality was proposed as a major factor driving food-web structure and ecosystem dynamics[1,4,22]. Subsequent studies have further elucidated the effects of habitat dimensionality[3,6,23–25]. Notably, previous models suggest that grazers (one type of consumer; Fig. 1 and Supplementary Fig. 1) are constrained by how resources are distributed in space[3,24,25]. These studies are foundational, but do not apply to the full diversity of foraging strategies and interactions in natural communities.

Here we show that shifting focus from dimensionality of the habitat[3,4,6,23–25] to the dimensionality of each trophic interaction yields a new, mechanistic theory for trophic interaction strengths (Figs 1 and 2). Our approach allows both 2D and 3D interactions within the same habitat to be considered, and can be applied to the wide range of foraging strategies found in nature (Fig. 1 and Supplementary Fig. 1). To test our predictions, we compiled a data set that contains a per-capita consumption rate of 255 consumer–resource interactions covering 230 species, 12 orders of magnitude in body size, and aquatic (189 interactions) as well as terrestrial (66 interactions) habitats (Methods).

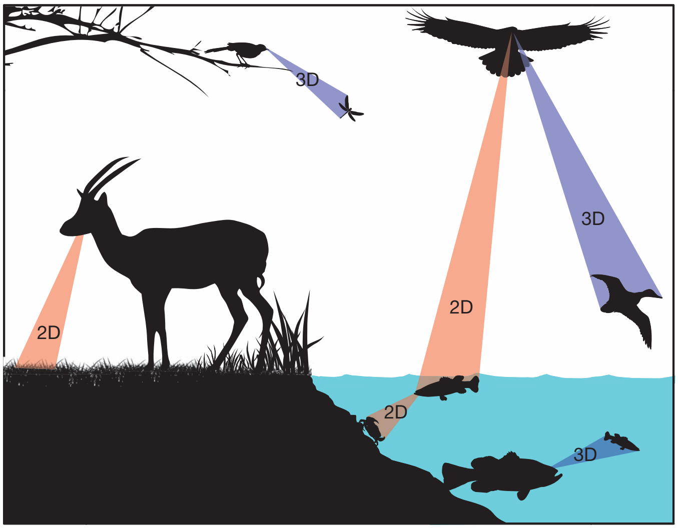

Figure 1 | Consumer–resource interactions can be classified by dimensionality. If the consumer searches for resources (by flying, swimming, or sitting and waiting) on habitat surfaces (for example, on the water surface, benthos or in grassland), the interaction is 2D, and if it searches habitat volume, the interaction is 3D. A consumer or resource may be involved in both 2D and 3D interactions, corresponding to different consumer–resource combinations and foraging strategies.

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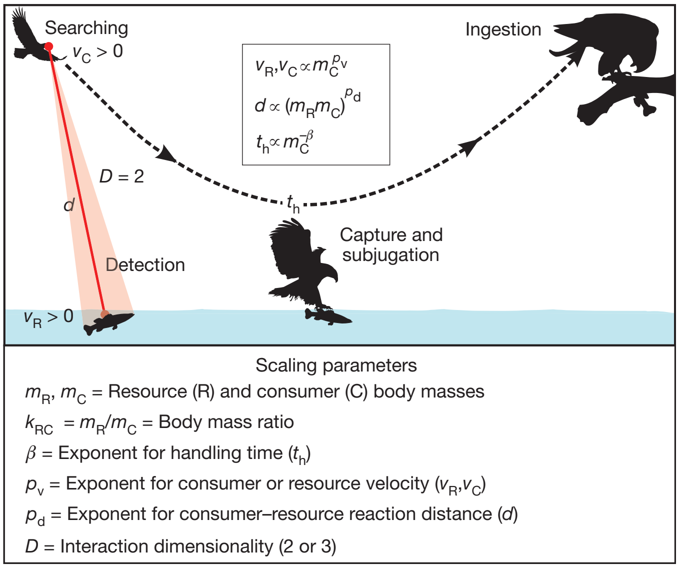

Figure 2 | Model for scaling of search and consumption rate with body size. This model (2D active capture is shown here) can also be used to predict search and consumption rates for grazing and sit-and-wait foraging strategies (Supplementary Information).

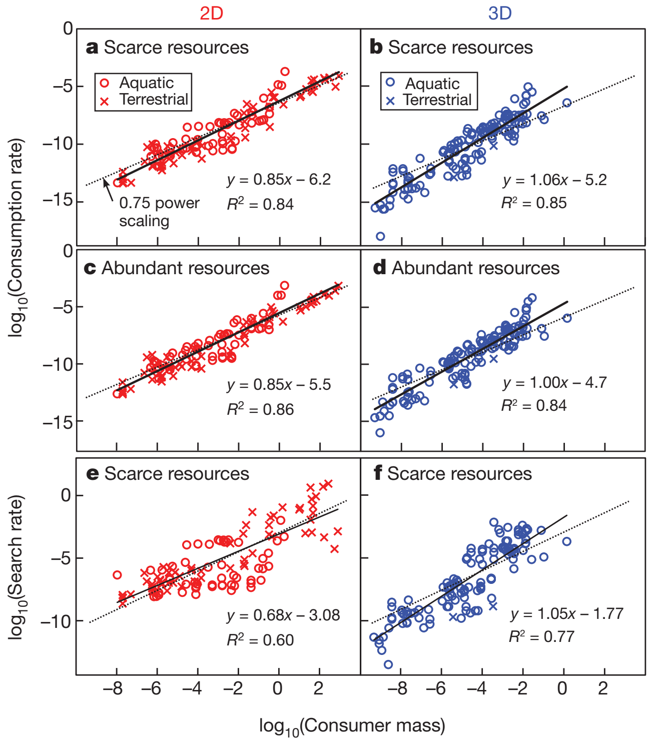

Figure 3 | Effect of interaction dimensionality on scaling of search and consumption rate. a–d, Scaling of per-capita consumption rate (kg s^{-1}) with consumer body mass (kg) at different resource densities. **e**, **f**, Scaling of search rate (m^2 s^{-1} in 2D, and m^3 s^{-1} in 3D). See Table 1 for sample sizes. Solid black lines were fitted using OLS regression (see Methods). Exponents in all panels except **e** are significantly different from the canonical 0.75 value (dotted line). Consumption-rate scaling shows less variance than search rate, possibly because consumers choose resources that maximize biomass consumption rate (product of search rate, resource density and resource mass; equation (4)), thus minimizing scatter.

Empirical patterns

Using our comprehensive data set, we first demonstrate strong empirical differences between 2D and 3D interactions in the scaling of search and consumption rate with consumer body size (Fig. 3). When resources are scarce, more closely resembling field conditions, the observed scaling exponent for consumption rate in 3D interactions (1.06 ± 0.06 (95% confidence intervals)) is significantly higher than in 2D (0.85 ± 0.05) (likelihood ratio test, $P < 0.001$) (Fig. 3a, c). These scaling exponents are significantly higher than the currently used exponent of 0.75 (one-sample F-test $P < 0.01$). Furthermore, apart from organisms that are much smaller than a honeybee (weighing less than 3×10^{-4} kg, where 2D and 3D scaling lines would intersect), 3D consumption rates are higher than in 2D (Fig. 3a, b). For a 1-kg organism, 3D consumption rate is ten times higher than in 2D (6.30 ± 3.01 versus 0.63 ± 0.24 mg s^{-1}) (Fig. 3a, b).

When resources are abundant, typical of laboratory conditions, consumption rates still scale more steeply (1.00 ± 0.06 versus 0.85 ± 0.05) and show higher baseline values in 3D than 2D (19.95 ± 11.00 versus 3.16 ± 1.30 mg s^{-1} for a 1-kg organism) (Fig. 3c, d). Thus, even at high resource densities at which searching for resources is expected to be less constraining, dimensionality remains important. The canonical 0.75 scaling exponent for consumption rate is excluded from the 95% confidence intervals of the observed scaling exponents under all conditions (Fig. 3).

We also analysed the scaling of search rates. The rate at which a consumer searches for a resource limits consumption rates when resources are scarce (Figs 1, 2 and 3e, f). For active-capture and grazing foragers, search rate (area/time or volume/time) is the speed at which a consumer moves through the landscape to find food, whereas for sit-and-wait foragers, it is the speed at which resources move through the consumer's attack space (Figs 1 and 2). We find that search rates have a scaling exponent of 1.05 ± 0.08 in 3D and 0.68 ± 0.12 in 2D (Fig. 3e, f), indicating that differences in consumption-rate scaling are primarily driven by differences in search rate. This result is a key validation of our model below.

A mechanistic model for search rate

Our empirical analysis reveals that search- and consumption-rate scaling vary systematically with the dimensionality of search space (that is, interaction dimensionality). We now present a model that predicts these empirical patterns by focusing on three key components of search rate: relative velocity, reaction distance and handling time[13,17,26] (Fig. 2). Relative velocity (v_r) is the rate at which consumer–resource pairs converge across the landscape, and it is the root-mean-square of their body velocities. A potential encounter occurs when either the resource or consumer comes within the distance (d) at which one can detect and react to the other. Because each individual moving through the landscape maintains a search space enclosed by a surface with radius d, we can derive (Supplementary Information) that the search rate (α) increases with dimensionality (D):

$$\alpha = s_D v_r d^{D-1} \quad (1)$$

where $s_D = 2$ in 2D and π in 3D. Based on biomechanical principles, we obtained predictions for the scaling exponents p_v and p_d (of v_r and d, respectively; Fig. 2), and validated them empirically using another, independent data set that we compiled (Table 1 and Supplementary Information). Using these, we predict:

$$\alpha = \alpha_0 m_C^{p_v + 2p_d(D-1)} f(k_{RC}) \quad (2)$$

where m_C is consumer body mass. For active foraging, the constant α_0 is $2v_0 d_0$ in 2D and $\pi v_0 d_0^2$ in 3D. The function $f(k_{RC})$ isolates dependence of α on consumer–resource size ratio k_{RC} (that is, m_R/m_C (where m_R is resource body mass)) from its direct dependence on consumer mass. Both α_0 and $f(k_{RC})$ vary weakly with foraging strategy (Supplementary Information). To relate equation (2) directly to previous studies by expressing it solely in terms of consumer mass, we determine how k_{RC} scales with consumer mass using our consumption-rate data set. Substituting this scaling together with values for p_v and p_d (Table 1) into equation (2) gives:

Table 1 | Empirical and predicted scaling exponents of consumption rate and its components with interaction dimensionality (*D*)

D	Search and consumption rate (n = 255)			Consumption-rate components				
	Search rate (scarce resources)	Consumption rate: Scarce resources	Consumption rate: Abundant resources	Relative velocity (*n* = 21)	Reaction distance (*n* = 39)	Handling time (*n* = 78)	Resource mass (*n* = 255)	Resource density (*n* = 255)
2D	**0.68** ± 0.12* (0.63)	**0.85** ± 0.05 (0.78)	**0.85** ± 0.05 (0.78)	0.26 ± 0.04* (0.27)	0.21 ± 0.08 (0.33)	−1.02 ± 0.08 (−0.75)	0.73 ± 0.10	−0.79 ± 0.08
3D	**1.05** ± 0.08* (1.03)	**1.06** ± 0.06 (1.16)	**1.00** ± 0.06 (1.16)	0.26 ± 0.04* (0.27)	0.20 ± 0.06 (0.33)	−1.1 ± 0.07 (−0.75)	0.92 ± 0.08	−0.86 ± 0.07

For search and consumption rate, if the 3D exponent is significantly larger than 2D as predicted (likelihood ratio test), both are shown in bold. There are no predicted exponents for resource mass and resource density scaling because they depend upon experimental design (Supplementary Information). Steeper than predicted exponents of handling time may arise because pursuit and subjugation scale with maximal rather than resting metabolic rate[8,21].
* Empirical exponent is statistically indistinguishable ($P = 0.05$ for all significance tests) from the predicted value (in parentheses).

$$\alpha \approx \alpha_{2D} m_C^{0.63} \text{ in 2D}$$
$$\alpha \approx \alpha_{3D} m_C^{1.03} \text{ in 3D} \qquad (3)$$

where α_{2D} and α_{3D} are dimension-specific constants. These exponents match our empirical results extremely well (Fig. 3e, f and Table 1). Even if the weak contribution of $f(k_{RC})$ (Supplementary Information) to the scaling is ignored, the predicted search rate exponents ($p_v + 2p_d(D-1)$) would be 0.68 in 2D and 1.06 in 3D. These exponents are extremely close to the empirical estimates of 0.68 ± 0.12 in 2D and 1.05 ± 0.08 in 3D (Table 1; Fig. 3).

Predictions for consumption rate

The product of search rate, α, and resource density, x_R (individuals per area or volume), yields encounter rate. Consumption rate is constrained by this encounter rate and by handling time; that is, the duration of time to pursue, subdue and ingest each resource (Fig. 2). Together, these components give a saturating per-capita biomass consumption rate (c) (Holling's type II functional response[27]) in terms of spatial dimension (D):

$$c = \frac{\alpha m_R x_R}{1 + t_h \alpha m_R x_R} = \frac{s'_D v_r d^{D-1} m_R x_R}{1 + t_h s'_D v_r d^{D-1} m_R x_R} \qquad (4)$$

Here, m_R is the average mass of the resource, $x_R m_R$ is resource biomass density, and t_h is conventional handling time divided by resource mass (Supplementary Information 1.4). The constant s'_D includes a roughly constant attack success probability. Our results are robust to changes in this probability for resource items common in the consumer's diet (Supplementary Information).

With scarce resources ($x_R \rightarrow x_{R,min}$) the second term in the denominator of equation (4) becomes much smaller than 1, and thus $c \approx \alpha x_R m_R$. Substituting the scaling for α (equation (2)) gives:

$$c = \alpha_0 m_C^{p_v + 2p_d(D-1)} f(k_{RC}) x_R m_R \qquad (5)$$

To convert this into a scaling relationship solely with consumer mass, we use our functional response data set (Supplementary Information) to quantify the scaling of x_R and m_R with consumer mass (Table 1). Substituting these along with the previously determined scaling of size ratio (k_{RC}) in equation (5) gives:

$$c \approx c_{2D} m_C^{0.78} \text{ in 2D}$$
$$c \approx c_{3D} m_C^{1.16} \text{ in 3D} \qquad (6)$$

where c_{2D} and c_{3D} are dimension-specific constants. Equation (6) predicts the steeper and superlinear scaling that is empirically observed in 3D for consumption rate (Fig. 3a, b and Table 1). Note that the scaling of consumption rate, c, closely matches the scaling of search rate, α (compare equations (3) and (6)). The existing small difference arises because of the weak scaling of the product ($x_R m_R$) of resource density and mass with consumer mass (Table 1 and Supplementary Information).

When resources are unlimited ($x_R \rightarrow \infty$), the term $s'_D v_r d^{D-1} x_R m_R$ dominates both the numerator and denominator of equation (4), resulting in a value of 1. Consequently, search and detection become instantaneous, and consumption rate depends only on mass-specific handling rate ($1/t_h$) (Fig. 2):

$$c = t_{h,0}^{-1} m_C^{\beta} \qquad (7)$$

where β is the scaling exponent of the consumer's whole-body metabolic rate and $t_{h,0}$ is a body-temperature and metabolic-state-dependent constant. We find that mass-specific handling time, t_h, scales as 1.1 ± 0.07 in 3D and 1.02 ± 0.08 in 2D (Supplementary Information). However, the observed consumption-rate scaling in 2D is 0.85 ± 0.05, and is 1.00 ± 0.06 in 3D, both closer to predictions for scarce rather than unlimited resources (Table 1). Therefore, even when functional responses seem to saturate and resources are considered abundant, consumption rate does not scale like handling time, and must therefore continue to be constrained by search dimensionality. This also explains why most previous studies have reported 0.75 power scaling of consumption rate[7,8,19]. The data in these previous studies are actually maximal ingestion rates collected from sedentary individuals that are provided with unlimited resources[7,8,19]. Our data, for both scarce and abundant resources, are more representative of field conditions because they are extracted from functional response data.

Although our theory predicts that α_{3D} and c_{3D} are larger than α_{2D} and c_{2D}, respectively (Supplementary Information), the magnitude of the observed difference is much larger than predicted (Fig. 3). One explanation is that most 3D interactions are aquatic, and most 2D interactions are terrestrial. The energetic cost for swimming is about ten times lower than for running[18,19], probably increasing encounter rates for non-directed movement. This difference could elevate the intercept (but not exponent), contributing to the observed ten times larger baseline consumption rates in 3D. Nevertheless, 2D aquatic and 2D terrestrial interactions scale similarly (Fig. 3a–c), indicating other differences between pelagic (3D) and benthic (2D) aquatic zones, and highlighting the need for further study.

Dimensionality and trophic interaction strengths

By deriving the scaling of search rate (α), a fundamental parameter in consumer–resource and food-web models, we have provided a mechanistic basis for linking interaction dimensionality with trophic interaction strengths, which are proportional to $\alpha x_R m_R / m_C$ (refs 11, 13, 15, 16, 28, 29). In contrast to current theories, our results show that scaling of trophic interaction strength can deviate substantially from $m_C^{-0.25}$. Specifically, if resource size (m_R) and resource density (x_R) are decoupled from consumer size, consumption rate scales like search rate (equation (3)), and thus interaction strength scales as $\alpha x_R m_R / m_C \propto m_C^{-0.32}$ in 2D, and $m_C^{0.05}$ in 3D. Even when m_R and x_R scale with consumer mass (Table 1 and Supplementary Fig. 2), trophic interaction strengths scale as $m_C^{-0.15}$ (2D) or $m_C^{0.06}$ (3D) when resources are scarce, and as $m_C^{-0.15}$ (2D) or m_C^{0} (3D) when resources are abundant. This variation in the scaling of trophic interaction strengths implies that consumer–resource dynamics are likely to be constrained by interaction dimensionality.

Implications for population dynamics

By incorporating our scaling equations for α (equation (3)) into a population dynamics model (Methods), we now show that dimensionality can affect populations in three fundamental ways. First, 3D interactions allow a larger range of viable consumer–resource body-size combinations than in 2D, primarily because 3D consumption rates scale more steeply and have higher baseline values. Depending upon baseline carrying capacity (K_0, defined as maximal biomass density for a 1 kg organism; Supplementary Information), the majority of 2,929 species pairs from seven communities fall within our predicted coexistence domains (Fig. 4a), with upper and lower limits of observed size ratios closely matching predicted extinction boundaries. In 2D, when K_0 ranges from 0.01 to 1 ($kg^{0.75}$ m^2) the predicted coexistence domains contain 88.8% to 99.8% of the empirical data. In 3D, when K_0 ranges from 3 to 300 ($kg^{0.75}$ m^3), 74.3% to 99.8% of the data are within the predicted domain (we explain below why carrying capacity is typically higher in 3D than 2D). Thus, interaction dimensionality may explain why consumer–resource interactions with larger size ratios (for example, filter feeding[30]) and larger consumers are more common in pelagic environments compared to benthic or terrestrial environments[1,8,31] (Fig. 4a).

Second, because strong trophic interactions can destabilize communities[15,16,28,29], communities dominated by 3D interactions (for example, pelagic or aerial habitats) may be inherently unstable. Indeed, we find that persistent consumer–resource boom–bust dynamics are more likely in 3D than in 2D (Fig. 4b and Supplementary Fig. 3). In nature, these instabilities may be partly offset by larger regions of coexistence that are possible in 3D (Fig. 4a) or by negative consumer density dependence[3,24]. Nevertheless, our results are consistent with

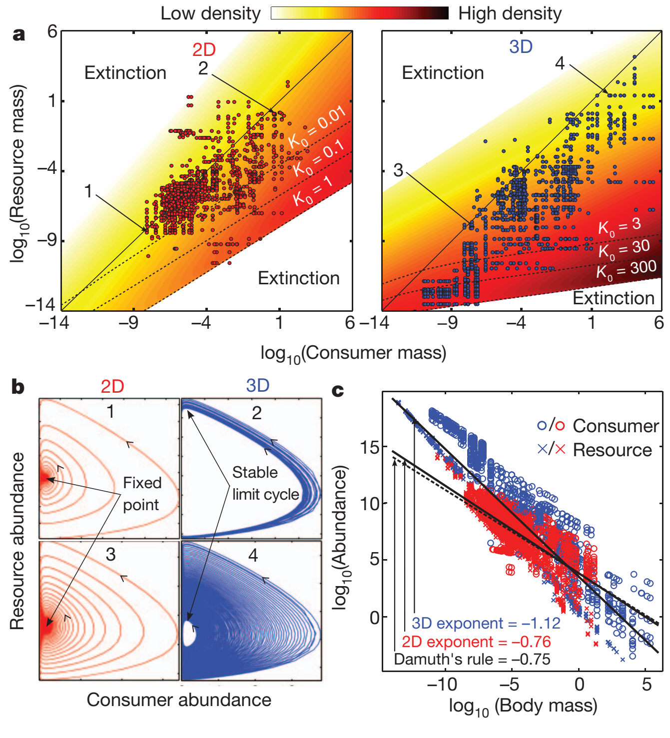

Figure 4 | Effects of interaction dimensionality on consumer–resource dynamics. a, Intensity map of logarithm of total consumer–resource equilibrium densities, ranging from coexistence at high (dark) to low (yellow) densities, or extinction (white). Black dots are real 2D ($n = 1,627$) and 3D ($n = 1,302$) consumer–resource pairs (Supplementary Table 8). Consumer and resource sizes are equal along the diagonal line. Lower extinction boundaries (dashed lines) correspond to different baseline carrying capacities (K_0); the outermost boundary corresponds to empirical estimates. Predicted 2D coexistence regions that lack observed species pairs probably represent undersampling of interactions for the smallest consumers (for example, micro predators) and largest consumers (for example, large mammalian herbivores)[31]. **b**, Comparison of population dynamics of two 2D (1 and 2 in **a**) and two 3D (3 and 4 in **a**) species pairs. **c**, Scaling of equilibrium abundance across all 3D (blue) and 2D (red) consumer–resource pairs plotted in **a**. The variation and discrete appearance of the data arises mainly because a consumer may feed on multiple resource species of different sizes and vice versa.

empirical observations that pelagic communities appear less stable than terrestrial communities[5]. They also suggest that 3D aquatic ecosystems may experience more frequent top-down regulation than 2D terrestrial ecosystems[32,33].

Third, we predict that population densities across consumer–resource pairs scale with body size more steeply in 3D (exponent of −1.12) than 2D (exponent of −0.76) (Fig. 4c). Only 2D scaling matches Damuth's −0.75 rule, which was derived from data on terrestrial mammals (that is, 2D consumers)[14,34]. Thus, for a given carrying capacity (maximal abundance of resources), steeper size–abundance scaling of consumers in 3D habitats relative to 2D habitats should be expected, and this helps to explain deviations from Damuth's rule in local communities[6,14,34–36].

In our population model, we assume resource carrying capacities scale with a 0.75 exponent (Supplementary Information), as expected when food supply to resources is unlimited (equation (7))[26]. For example, maximal abundance of primary producers in 2D (for example, terrestrial plants) and 3D (for example, pelagic phytoplankton) should scale as metabolic rate (that is, Damuth's rule) irrespective of dimensionality, which is well supported empirically[6,8,37,38]. Future studies should incorporate potential differences in scaling of carrying capacity across trophic levels. We also assume higher baseline carrying capacities (K_0) in 3D than 2D (Fig. 4a) because pelagic (3D) phytoplankton have 2–3 orders of magnitude higher turnover rates than terrestrial plants and form a less variable and more nutritious autotroph base than plants in 2D terrestrial ecosystems such as grasslands[6,32,39]. This is an important difference between habitats because it helps to explain the potential advantage of 3D interactions. If resources had the same numbers (but not densities) in 2D and 3D habitats (for example, 1 kg m^{-2} and 1 kg m^{-3}), resources would probably be too sparse for a 3D search space to be advantageous.

The consequences of interaction dimensionality for population dynamics may also be mediated by other abiotic differences between aquatic and terrestrial habitats. For example, 2D habitats such as benthic zones may have a greater potential for prey refuges than 3D habitats such as pelagic zones. Structural complexity reduces consumer search rates, potentially resulting in type III functional responses instead of type I or II (refs 30, 40). We find no significant propensity for type III functional responses in 2D relative to 3D in our data set (Supplementary Information), probably because laboratory experiments typically use habitats that are simpler than real habitats. Even if type III responses are more common in 2D, results for the effects of dimensionality on consumer–resource population dynamics remain qualitatively unchanged (Supplementary Information). Nevertheless, an important future direction will be to understand how habitat complexity affects search and consumption rates. Synthesizing our model with previous work on fractal dimensionality of resource dispersion[3,22,25] should be an important step in this direction. Perception of structural complexity also scales with body size[3]. Grasslands may be structurally simple for a bison, but complex for a nematode.

Conclusion

Our study provides new and more accurate scaling relationships for consumer–resource interactions[11,16,31], gives novel insights into consumer–resource dynamics, and offers a mechanistic model that incorporates dimensionality and foraging strategy into food-web dynamics. Our results help to explain why aquatic environments generally show higher energy fluxes and lower stability than terrestrial environments[5], why they often show inverted biomass pyramids[5,32], and why larger consumers have a relative advantage in pelagic (3D) versus terrestrial (2D) environments[1,6]. Predicting strengths of pair-wise trophic interactions is key to understanding higher-order effects, including indirect interactions and polyphagy[5,28,29]. Our model for pairwise interactions should provide a starting point for studying how the effects of dimensionality propagate through entire community food-webs. Studying communities with mixtures of 2D and 3D interactions will be particularly revealing in this context. We conclude that interaction dimensionality is a critical factor driving consumer–resource dynamics. A better understanding of the effects of dimensionality will lead to better predictions of food-web and ecosystem dynamics, and how these complex systems might respond to environmental change.

METHODS SUMMARY

Functional response data were compiled from the literature (Supplementary Table 5). Interaction dimensionality was assigned according to consumer search space (Fig. 1). The minimum resource density in each study was classified as scarce, and the density corresponding to the maximum consumption rate was classified as abundant. The search rate (α) in each functional response was calculated at each scarce density by dividing the associated consumption rate (c) by the associated density. The scaling of α is our fundamental theoretical result (equation (2)) and is based on derived scalings for v_r, d and t_h. We verified predicted scalings of these components by compiling an additional data set of 136 interactions between 157 taxa. To move from predicted scaling exponents of α (equation (3)) to predictions for scaling exponents of c (equation (4)), we calculated the scaling of resource number density (x_R) and mass (m_R) across studies in the functional response database. All exponents were estimated using ordinary least squares regression (OLS) of log trait value versus log body mass. Major axis regression yields steeper exponents than OLS but does not qualitatively alter our results. We also tested for robustness of predictions to realistic variation in body velocity scaling. All data were standardized to 15 °C using the Boltzmann–Arrhenius model[9,14]. For population dynamics we used the Rosenzweig–MacArthur model for the rate of change in time, t, for the resource ($R = x_R m_R$) and consumer ($C = x_C m_C$) biomass densities[13,26]:

$$\frac{dR}{dt} = rR\left(1 - \frac{R}{K}\right) - \frac{(\alpha/m_C)RC}{1 + t_h \alpha R}$$

$$\frac{dC}{dt} = \frac{e(\alpha/m_C)RC}{1 + t_h \alpha R} - zC$$

Here, r is the resource's intrinsic biomass production rate, K is resource's biomass carrying capacity, z is the consumer's biomass loss rate, e is the consumer's biomass conversion efficiency, and t_h is the resource mass-specific handling time. Size scaling for α and t_h were based on our results, and that for r, z and K were based on previous work[8,9,14]. We tested robustness of our results by varying model structure between the Rosenzweig-MacArthur model and the Lotka–Volterra predator–prey model, and also by using a type III instead of a type II functional response.

Received 13 December 2011; accepted 3 April 2012.
Published online 30 May 2012.

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Supplementary Information is linked to the online version of the paper at www.nature.com/nature.

Acknowledgements We thank the authors who contributed data (Supplementary Tables 5–8), and P. Amarasekare, J. H. Brown, E. Economo, A. Mikheyev, C. Estrada, C. Johnson, M. Johnson and K. Lafferty for helpful discussions and comments. S.P., A.I.D. and V.M.S. were supported by University of California, Los Angeles Biomathematics start-up funds and by the US National Science Foundation Division of Environmental Biology award 1021010. The data reported in this paper are available in the Supplementary Information online.

Author Contributions S.P., A.I.D. and V.M.S. contributed equally to this work. All authors discussed the results and commented on the manuscript.

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doi:10.1038/nature11131

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doi:10.1038/nature11131

1. The model for scaling of search and consumption rate

Here we derive a model for how per-capita biomass consumption rate scales with body size (sections 1.1 – 1.5). The model is summarized in main text Fig. 2 and Supplementary Table 1. Throughout model development we tested key scaling assumptions with empirical data.

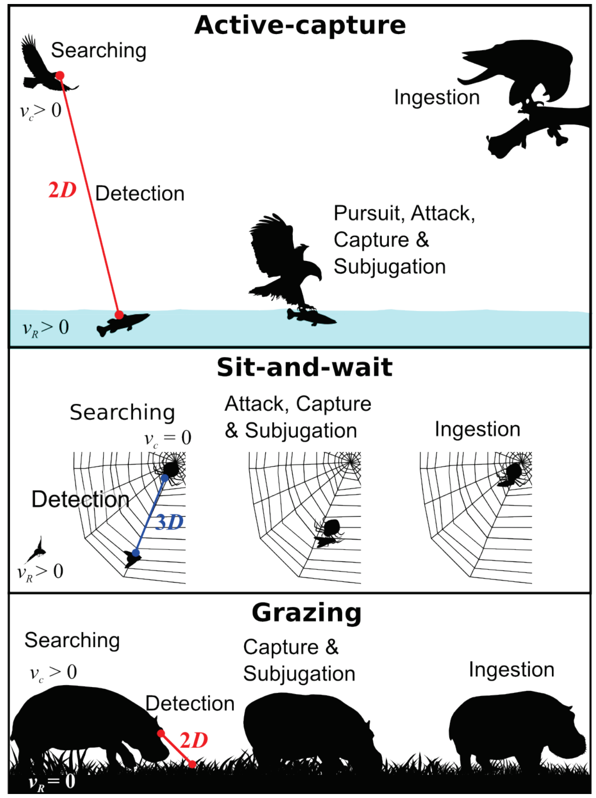
1.1. Relative velocity

Encounter rate between consumers and resources is partly determined by their relative velocity, v_r (units of distance/time), which is the population average for how fast a consumer and resource move across the physical landscape towards each other (Supplementary Figure 1). Assuming random movement (see below), relative velocity is the root mean square of the average velocity of the consumer (v_C) and resource (v_R) [4].

$$v_r = \sqrt{v_R^2 + v_C^2} \qquad \text{S1}$$

If either the resource (i.e., grazing interaction) or the consumer (i.e., sit-and-wait interaction) is sessile, v_r reduces to the velocity of whichever of the two is moving (Supplementary Figure 1). Beginning with the simplest case of random movement, we obtain a simple functional form for search and encounter rate that resembles real systems. Indeed, animal foraging seems to follow diffusion-like movement (distance scaling with square root of time) more than directional (distance scaling linearly with time)[5-8]. When foraging is directed, more complicated models[9-11] for v_r can be easily substituted. To derive the scaling of v_r, we begin with the size dependence of individual metabolic rate, B, which scales with body mass, m, as

$$B = B_0 m^{\beta} \qquad \text{S2}$$



Supplementary Figure 1. Our classification of foraging strategies and components of consumption rate. The active foraging and grazing interactions shown are *2D* because the consumers search for resources in two dimensions (water surface and grassland, respectively). The sit-and-wait interaction is *3D* because the spider can trap ("search") resource individuals flying in air.

B_0 is a coefficient that depends upon taxon, metabolic state, and body temperature. The exponent β typically varies between 2/3 and 1 for multicellular eukaryotes[12,13], with smaller exponents normally associated with resting and larger exponents with active (field or maximal) metabolic states[12-17]. The power expended for movement is the product of body velocity, v, and force, F, applied by the locomotory appendage (leg, wing, tail, etc.) onto the environmental medium. If the metabolic rate devoted to locomotion is a constant proportion of B, we then derive that

$$v \propto \frac{B_0 m^{\beta}}{F} \qquad \text{S3}$$

Force is proportional to the cross-sectional area of body and appendage muscles, which scales with body mass to an exponent, β_F, that typically varies between 0.5–0.67 [12,18,19]. Thus, eqn S3 becomes

$$v = v_0 m^{\beta-\beta_F} \qquad \text{S4}$$

Here, v_0 is a constant that depends on locomotory mode[12,20] and the metabolic scaling constant B_0 (eqn S2). Using the scaling of field to maximal metabolic rate (0.8–0.9; see text following eqn S2), v should scale with mass to an exponent between 0.13 ($\beta = 0.8$, $\beta_F = 0.67$) and 0.4 ($\beta = 0.9$, $\beta_F = 0.5$). Henceforth, we define $p_v \equiv \beta - \beta_F$. Substituting eqn S4 into eqn S1 gives the scaling of v_r for an active consumer capturing active resources (active-capture foraging strategy; Supplementary Figure 1),

$$v_r = \sqrt{v_{0,R}^2 m_R^{2p_v} + v_{0,C}^2 m_C^{2p_v}} \qquad \text{S5}$$

Within the same habitat and for similar locomotory modes we approximate, $v_0 \approx v_{0,R} \approx v_{0,C}$, so eqn S5 simplifies to

$$v_r = v_0 \sqrt{m_R^{2p_v} + m_C^{2p_v}} \qquad \text{S6}$$

Analogous equations for sit-and-wait and grazing strategies are provided in Supplementary Table 1. These equations predict that larger sized CR pairs will converge across a fixed distance faster than smaller ones, but for overall encounter rate, the scaling of population densities must also be accounted for.

Supplementary Table 1. Our model for the scaling of consumption rate and its components. See text (and main text Fig. 2) for definitions of mathematical symbols. The scaling of resource size (m_R) and resource density (x_R) (Supplementary Fig. 2g–j) are not shown here because they are not a part of consumption rate scaling model *per se*, but are required to empirically test the model (section 1.5). A single entry in a row means that the model applies to all consumer strategies.

	Size scaling model by foraging strategy		
	Active foraging	**Sit-and-wait**	**Grazing**
Body velocity, v_R or v_C	$v_R = v_{R,0} m_R^{p_v},\ v_C = v_{C,0} m_C^{p_v}$	$v_R = v_{R,0} m_R^{p_v},\ v_C = 0$	$v_R = 0,\ v_C = v_{C,0} m_C^{p_v}$
Relative velocity, v_r	$v_0\sqrt{m_R^{2p_v} + m_C^{2p_v}}$	$v_{R,0} m_R^{p_v}$	$v_{C,0} m_C^{p_v}$
Reaction distance, d		$d_0 (m_R m_C)^{p_d}$	
Handling time, t_h		$t_{h,0} m_C^{-\beta}$	
Search rate, α		$\alpha_0 m_C^{p_v+2p_d} f(k_{RC}) \text{ in } 2D,\ \alpha_0 m_C^{p_v+4p_d} f(k_{RC}) \text{ in } 3D$	
Consumption rate, $c_{\lim x_R \to 0}$		$\alpha_0 m_C^{p_v+2p_d} f(k_{RC}) m_R x_R \text{ in } 2D,\ \alpha_0 m_C^{p_v+4p_d} f(k_{RC}) m_R x_R \text{ in } 3D$	
Consumption rate, $c_{\lim x_R \to \infty}$		$t_{h,0}^{-1} m_C^{\beta}$	
Scaling coefficient, α_0	$2v_0 d_0 \text{ in } 2D, \pi v_0 d_0^2 \text{ in } 3D$	$2v_{R,0} d_0 \text{ in } 2D, \pi v_{R,0} d_0^2 \text{ in } 3D$	$2v_{C,0} d_0 \text{ in } 2D, \pi v_{C,0} d_0^2 \text{ in } 3D$
Size ratio scaling, $f(k_{RC})$	$\sqrt{1+k_{RC}^{2p_v}}\, k_{RC}^{p_d} \text{ in } 2D$, $\sqrt{1+k_{RC}^{2p_v}}\, k_{RC}^{2p_d} \text{ in } 3D$	$k_{RC}^{p_v+p_d} \text{ in } 2D$, $k_{RC}^{p_v+2p_d} \text{ in } 3D$	$k_{RC}^{p_d} \text{ in } 2D$, $k_{RC}^{2p_d} \text{ in } 3D$

Furthermore, for active-capture interactions in which consumer and resource have significantly different velocities, v_r will approximately equal the body velocity of the faster of the two individuals.

Empirical validation. The empirical scaling of body velocity has been extensively studied for various running, swimming, and flying animals[12,18,25]. The exponent ranges between 0.10–0.38[12,20], which is in excellent agreement with the range 0.13–0.4 we predict above (eqn S4). For ease of calculation and comparison, we use the average of the velocity scaling values reported by Peters[12], which gives p_v = 0.26±0.04 (±95% confidence intervals (CI), n = 25). We show below that using extreme values of p_v (i.e., 0.13 or 0.4) does not qualitatively affect our results (sections 1.3 & 1.5, Supplementary Table 2).

1.2. Reaction distance

An encounter occurs when the consumer detects the resource or vice versa (Supplementary Figure 1). Therefore, encounters are constrained by the maximum distance (reaction distance, d) at which the consumer and resource can sense and react to each other, as well as the shape of their detection region. For a homogeneous habitat, consumers will search a D-dimensional sphere, independent of detection modality. Therefore, from the formula for the volume of a D-dimensional sphere, the detection region A_D = $(\pi^{(D-1)/2}/\Gamma(D+1)/2)d^{D-1}$, where $\Gamma(.)$ is the gamma function[26]. That is,

$$A_D = 2d \text{ in } 2D, \quad A_D = \pi d^2 \text{ in } 3D \qquad \text{S7}$$

Because a $1D$ search space is rare in nature, we focus on $2D$ and $3D$. The detection region is classified as $2D$ when both consumer and resource move in $2D$ (e.g., both are benthic) or if a consumer moves in $3D$ and a resource in $2D$ (e.g., pelagic consumer on benthic resource). The detection region is classified as $3D$ when both consumer and resource move in $3D$ (e.g., both pelagic) or if the consumer moves in $2D$ and resource in $3D$ (e.g., benthic consumer, pelagic resource) (main text Fig. 1). That is, the movement space of the resource defines the search space of the consumer.

For the scaling of d we use a simplified version of a previous model[27,28]

$$d = d_0\left(m_R m_C\right)^{p_d} \qquad \text{S8}$$

which is based upon the intuition that d should increase with both consumer and resource size because larger individuals have a higher vantage point, longer line of sight, and are easier to resolve at greater distances. The exponent p_d may be up to 1/3 based on the size-scaling of visual constraints alone[27], but will usually be lower because larger organisms have poorer maneuverability, and increasing size often leads to disproportionately smaller attack distances[25,29,30].

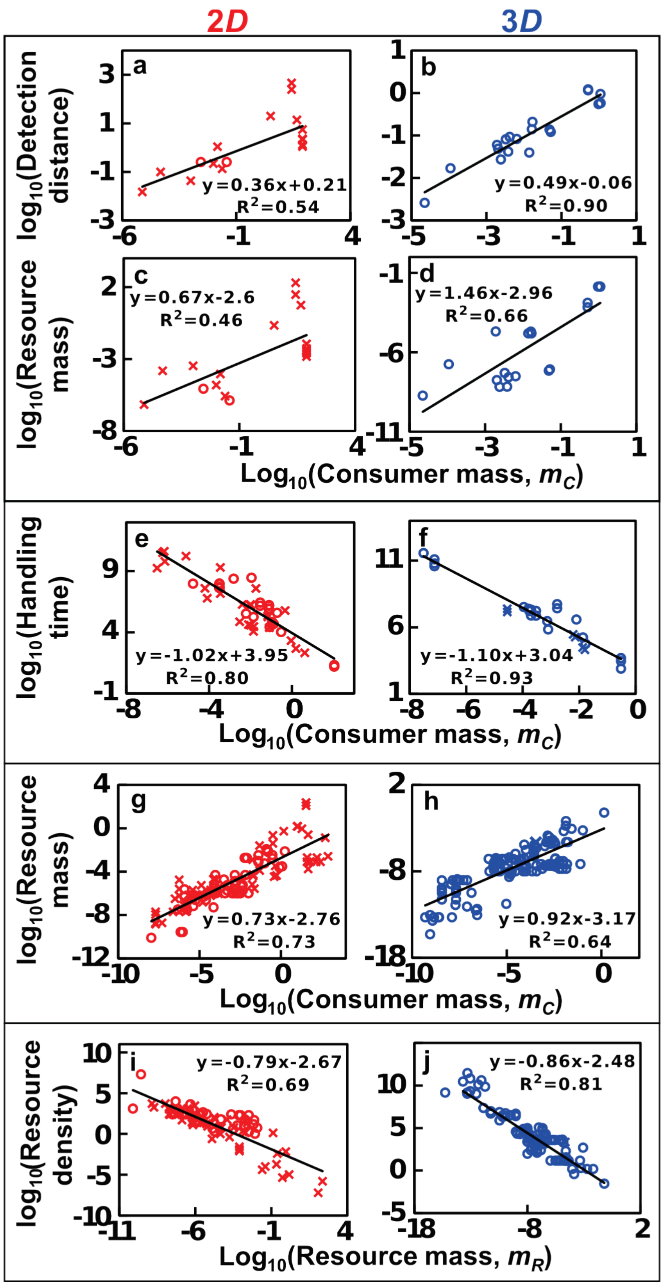
Empirical validation. Taking the logarithm of both sides of eqn S8 allows it to be expressed as a multiple linear regression model with independent variables $\log(m_C)$ and $\log(m_R)$. Resource mass, m_R, typically scales with consumer mass, m_C, because certain size-ratios tend to be optimal[12,31,32] such that

$$m_R = m_{R,0} m_C^{p_m} \qquad \text{S9}$$

To account for this strong correlation, we substitute eqn S9 into eqn S8 to get,

$$d \approx d_0 m_{R,0}^{p_d} m_C^{p_d(1+p_m)} \qquad \text{S10}$$

Thus, we can estimate p_d by determining the value of the exponent $p_d(1+p_m)$ (using OLS regression of log(d) on log(m_C)), and p_m (regression of log(m_R) on log(m_C) from the same dataset) separately in 2D and 3D interactions. We find that $p_d(1+p_m) = 0.36\pm0.14$ (±95% CI) in 2D and 0.49±0.11 in 3D (Supplementary Fig. 2a&b), and $p_m = 0.67\pm0.17$ in 2D and 1.46±0.12 in 3D (Supplementary Fig. 2c&d). Thus, $p_d = 0.36/(1+0.67) = 0.21$ in 2D, and $0.49/(1+1.46) = 0.20$ in 3D. Our reaction distance scaling model (eqn S8) is therefore well supported by data, with the exponent p_d much lower than 1/3. We expect similar scaling models to apply to olfactory and auditory detection modes that are also common in nature, because these senses also tend to increase with consumer size as do the corresponding stimuli (signals)



a–d: Reaction distance, d, (meters) exponent (eqn S10) is 0.36±0.14 (±95% CI) in 2D (a) and 0.49±0.11 in 3D (b). Within these data, the exponent p_m for scaling of resource mass (kg) with consumer mass (eqn S9) is 0.67±0.17 in 2D and 1.46±0.12 in 3D (panels c and d).

e–f: The resource mass-specific handling time, t_h, (s/kg), exponent is -1.02±0.08 in 2D (e) and -1.10±0.07 in 3D (f).

g–h: In the consumption rate dataset, resource mass scales with consumer mass with exponent p_m = 0.73±0.07 in 2D (g) and 0.92±0.08 in 3D (h).

i–j: Minimum resource density, x_R, (individuals/m^2 in 2D and individuals/m^3 in 3D) scales with resource mass (eqn S18) with exponent p_x = -0.79±0.09 in 2D (i) and -0.86±0.06 in 3D (j).

Supplementary Fig. 2. Scaling of the components of consumption rate. Left panels detail 2D (red) and right panels 3D (blue) interactions across aquatic (circles) and terrestrial (crosses) habitats. See section 3 for description of regression fitting and discussion of results. We combine these scaling relationships to obtain predictions for consumption rate scaling shown in main text Table 1. The black lines are OLS fits.

with resource size[33]. Indeed, our reaction distance data include consumers that use olfactory (e.g., many insects, some mammals) and auditory (e.g., bats) cues to detect their prey (Supplementary Table 6), none of which show notable deviations from the overall regression line.

1.3. Search, encounter, and capture rate

Multiplying A_D by v_r gives search rate, which is the potential rate at which the consumer clears the habitat of resource individuals (units of distance^D/time):

$$\alpha = v_r A_D \qquad \text{S11}$$

From eqn S7, $\alpha = 2v_r d$ (units of area/time) when the consumer searches for resources in $2D$, and $=\pi v_r d^2$ (units of volume/time) in $3D$. That is, in $2D$ ($3D$) interactions, over a period of time, T, the consumer will have "swept" a transect (tube) of habitat of area $2v_r dT$ (volume $\pi v_r d^2 T$) for resources. Thus, the dimensionality of the search region, D, is equivalent to "interaction dimensionality" used throughout our paper (see main text). For $2D$ grazing, $v_R = 0$ and $\alpha = 2v_C d$, so α is a generalization of Holling's[34] "attack coefficient" for interactions with arbitrary foraging strategies and interaction dimensionalities. Multiplying search rate, α, by resource density gives encounter rate. Following an encounter, we assume that consumers typically select resource sizes that maximize attack success, and therefore that attack success probability is approximately constant across pairs (or at least does not vary by orders of magnitude, as does body mass, search rate, and consumption rate). For grazing, this assumption should be particularly accurate because resources are either sessile (e.g., deer eating grass) or passive (e.g., zooplankton grazing) and capture success is practically guaranteed upon "attack"[35].

To isolate the dependence of our parameters on consumer mass, we introduce the consumer-resource-size ratio, $k_{RC}=m_R/m_C$, which itself depends on consumer mass, and has been well studied[12,31]. Substituting eqn S8 into S7, combining this with eqns S6 and S11, and algebraically manipulating the right side of the resulting equation to separate m_C and k_{RC} components, we find that the scaling of search rate for active-capture interactions is,

$$\begin{aligned} \alpha &= \alpha_0 m_C^{p_v+2p_d}\sqrt{1+k_{RC}^{2p_v}}\,k_{RC}^{p_d} \text{ in } 2D, \\ \alpha &= \alpha_0 m_C^{p_v+4p_d}\sqrt{1+k_{RC}^{2p_v}}\,k_{RC}^{2p_d} \text{ in } 3D \end{aligned} \qquad \text{S12}$$

$$\text{where } k_{RC} \equiv m_R / m_C, \qquad \text{S13}$$

and the constant $\alpha_0 = 2v_0 d_0$ in $2D$ and $\pi v_0 d_0^2$ in $3D$. Analogous equations for grazing and sit-and-wait strategies are provided in Supplementary Table 1. The second scaling term in eqn S12 quantifies constraints due to consumer-resource size ratio (k_{RC}). This k_{RC} function depends upon foraging strategy and interaction dimensionality, with its scaling exponent being lowest for $2D$ grazing and highest for $3D$ sit-and-wait interactions (Supplementary Table 1). However, the differences in size-k_{RC} scaling with foraging strategy are minor compared to differences between dimensionality (Supplementary Table 1). Also, if m_R scales nearly linearly with m_C, the size ratio, k_{RC}, will be approximately constant, and the search rate, α, will scale primarily with m_C but not k_{RC}. To quantify and control for the effect of k_{RC} on the scaling of α, we combine eqn S9 with eqn S13 to obtain

$$k_{RC} = m_{R,0} m_C^{p_m - 1} \qquad \text{S14}$$

As in the evaluation of the reaction-distance-scaling model (section 1.2), we estimate p_m separately for $2D$ and $3D$ using OLS regression of resource mass on consumer mass in the functional response dataset (Supplementary Fig. 2g&h). We find that $p_m = 0.73 \pm 0.07$ in $2D$ and 0.92 ± 0.08 in $3D$. Substituting these values for p_m, together with empirically validated values for p_v (0.26; section 1.1) and p_d (0.21 in $2D$, 0.20 in $3D$; section 1.2) into eqn S12, we obtain the scaling of search rate shown in main text eqn 3 ($\alpha \sim \alpha_{2D} m_C^{0.63}$ in $2D$, $\alpha \sim \alpha_{3D} m_C^{1.03}$ in $3D$), with c_{2D} and c_{3D} including α_0 and $m_{R,0}$ (Supplementary Table 1).

In Supplementary Table 2 we show how much the predicted scaling of α varies with the velocity exponent p_v (section 1.1). The highest possible value in $2D$ (0.77 at $p_v = 0.4$) is much lower than the lowest possible value in $3D$ (0.9 at $p_v = 0.13$), indicating that our results about the effect of dimensionality on search rate remain qualitatively robust to variation in p_v.

Supplementary Table 2. Effect of variation in the scaling of body velocity on model predictions.

Velocity scaling exponent (p_v)	Predicted search rate scaling		Predicted consumption rate scaling	
	2D	**3D**	**2D**	**3D**
0.13	0.5	0.9	0.65	1.03
0.26	0.63	1.03	0.78	1.16
0.40	0.77	1.17	0.92	1.3

Empirical validation. To empirically evaluate the predicted scaling of search rate, we first calculated search rates (α) from each functional response in our database (section 3) by extracting the consumption rate (units of kg/s) at minimum measured resource density (kg/m^2 or kg/m^3) and dividing it by that minimal density. We then calculated scaling exponents from OLS regression of log-transformed observed search rates α's on log-transformed consumer mass, m_C. We also statistically compared (section 3.9) these calculated values with predicted ones, and we tested whether $2D$ and $3D$ exponents differed significantly (main text Fig. 3 & Table 1).

1.4. Handling time

Handling time is the time required by a consumer to pursue, subdue, and ingest an individual resource. This delay between encounter and completion of ingestion prevents consumers from exploiting resources in direct proportion to their availability, resulting in the commonly observed, saturating Type II functional response[34,36] (main text eqn 2),

$$c = \frac{\alpha m_R x_R}{1 + t_h \alpha m_R x_R} \qquad \text{S15}$$

Here, t_h is conventional (per-capita) handling time divided by resource mass. When resources become unlimited ($x_R \rightarrow \infty$), consumption rate scales inversely with handling time ($c \rightarrow 1/t_h$), and the consumer will achieve maximal population growth rate (r_{max}), so $t_h = 1/(m_C r_{max})$. The quantity $1/m_C$ converts consumed resource biomass ($m_R x_R$) into consumer individuals. Because $r_{\max} \propto m_C^{\beta-1}$ we obtain[2]

$$t_h = t_{h,0} m_C^{-\beta} \qquad \text{S16}$$

where $t_{h,0}$ is a body temperature and metabolic state dependent constant. Thus, resource mass-specific handling time is predicted to decline with consumer mass to the exponent of resting metabolic rate scaling (0.75).

Empirical validation. To test the handling time scaling model (eqn S16), we first divide each temperature-corrected handling time measurement by the resource mass to obtain resource mass-specific handling time (t_h). The OLS regression of $\log(t_h)$ on $\log(m_C)$ (Supplementary Fig. 2e&f) allows us to assess the fit of the scaling model to the data and obtain an estimate of the scaling exponent β. We analyze $2D$ and $3D$ separately because different dimensionalities impose different physical constraints on consumers[18,20,30]. We find that $\beta = 1.02 \pm 0.08$ in $2D$ and 1.1 ± 0.07 in $3D$ (Supplementary Fig. 2e&f). These

doi:10.1038/nature11131

exponents are significantly higher than the 0.75 expected from the scaling of resting metabolic rate (one sample F test), consistent with the fact that handling time depends upon active or maximal rather than resting metabolic rate (i.e., exponent >0.85)[12-14].

1.5. Scaling of consumption rate

Scarce resources. When resources are scarce, the consumer invests relatively more energy in searching for resources than in handling them. In eqn S15 this is equivalent to noting that $c \to \alpha x_R m_R$ as $x_R \to 0$. Substituting eqn S12 into this expression gives

$$\begin{aligned} c &\simeq \alpha_0 m_C^{p_v+2p_d} \sqrt{1+k_{RC}^{2p_v}}\, k_{RC}^{p_d} m_R x_R \text{ in } 2D, \\ c &\simeq \alpha_0 m_C^{p_v+4p_d} \sqrt{1+k_{RC}^{2p_v}}\, k_{RC}^{2p_d} m_R x_R \text{ in } 3D \end{aligned} \qquad \text{S17}$$

Analogous equations for other foraging strategies are shown in Supplementary Table 1. Equations S9 and S14 allow us to account for the scaling contributions of m_R and k_{RC}. In addition, in the field, resource density (x_R) typically declines as a power-law with resource size such that,

$$x_R = x_0 m_R^{-p_x} \qquad \text{S18}$$

where x_0 includes the effects of temperature[2]. We evaluated this scaling in our dataset by OLS regression of $\log(x_R)$ on $\log(m_R)$. We found that the estimated exponent p_x ranged from -0.79±0.09 in $2D$ to -0.86±0.06 in $3D$ (Supplementary Fig. 2i and j). The majority (96%) of functional responses in our dataset are from laboratory or field-enclosure studies. Thus, our findings suggest that even in laboratory studies, experimentalists inadvertently impose a scaling on x_R by keeping the minimum resource number relatively constant (one to few individuals per arena) and by increasing arena size in proportion to consumer size. Substituting eqn S9 into S18 gives $x_R = x_0 m_{R,0}^{-p_x} m_C^{-p_m p_x}$. Substituting this result along with eqns. S9 and S14 into S17, and using the values of p_v (0.26; section 1.1), p_d (0.21 in $2D$, 0.20 in $3D$; section 1.2), p_m (0.73 in $2D$ and 0.92 in $3D$; section 1.3), and p_x, gives the scaling of consumption rate with scarce resources, as shown in main text eqn 4:

$$\begin{aligned} c &\approx c_{2D} m_C^{0.78} \text{ in } 2D, \\ c &\approx c_{3D} m_C^{1.16} \text{ in } 3D \end{aligned} \qquad \text{S19}$$

Here, the constants c_{2D} and c_{3D} include the constants of scaling of search rate, m_R, and resource density, x_R, as well as attack success probability. As discussed above, this scaling of consumption rate is only weakly dependent on foraging strategy (section 1.3) or variation in p_v.

Abundant resources. When resources are unlimited, $c \simeq 1/t_h$ (section 1.4). Therefore, from eqn S16 the scaling of consumption rate is expected to be

$$c = t_{h,0}^{-1} m_C^{\beta} \qquad \text{S20}$$

irrespective of interaction dimensionality. As discussed in the main text, however, even when resources are identified as abundant in the lab or field, resource densities do not appear to reach the levels necessary for eqn S20 to hold.

Empirical validation. The minimum measured resource density in each study in the functional response database (section 1.3) was classified as scarce. Because functional responses frequently decline at very high resource densities[36], instead of maximum density, we classified density at which maximum consumption rate was achieved as abundant. Log-transformed consumption rates at either density class were then regressed on $\log(m_C)$ separately for $2D$ and $3D$ interactions. The predicted scalings of c at scarce (eqn S19) and abundant resources (eqn S20) were then statistically compared with empirically observed exponents (section 3.9).

Our theory also predicts that foraging strategy has a small effect relative to dimensionality. Only the $2D$ data for grazing (61/123) and active-capture (59/123) interactions have sufficient consumption rate measures to test this prediction. We find that the slope for search rate in active-capture interactions is 0.76±0.1 (0.75±0.07 for consumption rate) and 0.67±0.12 (0.87±0.08 for consumption rate) for grazing. The two sets of slopes are statistically indistinguishable (likelihood-ratio test), consistent with our model prediction.

2. Population dynamics model

To explore the population and community consequences of interaction dimensionality we used the Rosenzweig-MacArthur (RM) model for changes in consumer and resource biomass densities (C and R respectively)[37-39]:

$$\begin{aligned}\frac{dR}{dt} &= rR\left(1-\frac{R}{K}\right)-\frac{(\alpha/m_C)RC}{1+t_h\alpha R}\\ \frac{dC}{dt} &= \frac{e(\alpha/m_C)RC}{1+t_h\alpha R}-zC\end{aligned} \qquad \text{S21}$$

Here, r is the resource's intrinsic biomass production rate (1/time), K its biomass carrying capacity (biomass/area or volume), z the consumer's rate of biomass loss rate (including mortality) (1/time), α the consumers per-capita search rate for resource biomass (area/time or volume /time), e conversion efficiency of resource biomass (consumer mass/resource mass), and t_h the consumer's per-capita handling time for resource biomass. We use the following size-scaling for each component

$$\begin{aligned}r &= r_0 m_R^{-0.25}\\ z &= z_0 m_C^{-0.25}\\ K &= K_0 m_R^{0.25}\\ t_h &= t_{h,0} m_C^{-\beta}\\ \alpha &= \alpha_0 m_C^{p_v+2p_d(D-1)} f\left(k_{RC}\right)\end{aligned} \qquad \text{S22}$$

where c_α, r_0, z_0, K_0, $t_{h,0}$ and α_0 are scaling constants that can include the effects of temperature[3], D is the dimensionality of consumer search space (typically, $2D$ or $3D$), and $k_{RC} = m_R/m_C$ is body-size ratio. The scaling models for r, z, and K are based upon previous work[2,3,12]. Note that K should scale similarly in $2D$ and $3D$ because it represents the maximal abundance of resources, which is not expected to be constrained by dimensionality (see main text). The scaling models for α and t_h are new results from our consumption rate model (derived from eqns S12 & S16). This allows us to parameterize the Rosenzweig-MacArthur equations in terms of consumer-resource body sizes. The parameterizations of all scaling exponents and constants are shown in Supplementary Table 3. The values for K_0 are based upon empirical data on average biomass abundance of autotrophs (mostly plants on land, and phytoplankton in water)[12,21-24].

Supplementary Table 3. Parameterization of size-scaling in the Rosenzweig-MacArthur model. The upper limit of $t_{h,0}$ values is approximately the value of the intercept (in linear scale) from our analysis of handling time data (Supplementary Fig. 2). The results shown in main text Fig. 4 are for $t_{h,0}$ = 1.

Parameter	Description	Parameter values	Units	Source
β	Exponent for metabolic scaling with body mass	0.75	-	2,3
p_v	Exponent of velocity scaling with body mass	0.26	-	This study
p_d	Exponent of reaction distance scaling with consumer and resource body masses	0.21 (2*D*), 0.2 (3*D*)	-	This study
r_0	Scaling constant for resource biomass production rate	1.71×10^{-6}	$kg^{1-\beta}\ s^{-1}$	2,3
z_0	Scaling constant for consumer biomass loss rate	4.15×10^{-8}	$kg^{1-\beta}\ s^{-1}$	2,3
K_0	Scaling constant for resource carrying capacity	0.01 - 1 (2*D*), 3 - 300 (3*D*)	$kg^{\beta}\ m^{-2}$ (2*D*), $kg^{\beta}\ m^{-3}$ (3*D*)	12,21-24
α_0	Scaling constant for search rate	$10^{-3.08}$ (2*D*), $10^{-1.77}$ (3*D*)	$m^2\ s^{-1}\ kg^{-0.68}$ (2*D*), $m^3\ s^{-1}\ kg^{-1.05}$ (3*D*)	This study
$t_{h,0}$	Scaling constant for mass-specific handling time	$0–10^4$	$kg^{\beta-1}\ s$	This study

Our theory predicts different scalings for α for different foraging strategies (Supplementary Table 1). However, the RM model yields similar results for all three foraging strategies because differences in the scaling exponents are small within either 2*D* or 3*D*. The results presented in main text Fig. 4 are for active-capture, as this is the most common strategy seen in our community data (Supplementary Table 8). Also note that in 2*D* the scaling of α is similar to that assumed by previous studies ($m_C^{-0.25}$) [12,38,40-43], while in 3*D* it deviates substantially, lying between 0–0.25. This difference is a crucial contribution of our work and leads to fundamentally new conclusions about coexistence, equilibrium abundance, and population cycling in 2*D* versus 3*D* habitats.

In our model analyses we often focus on scenarios where handling time is zero ($t_h \rightarrow 0$; approximately linear functional response) because our results show that consumption rate scaling is similar whether resources are abundant or scarce (main text Fig. 2 & Table 1) and is thus relatively unconstrained by handling time. However, varying the value of $t_{h,0}$ between 0 and 10^4 does not affect our results qualitatively (section 2.4).

2.1. Coexistence

Solving eqn S21 for equilibrium biomass densities gives

$$\hat{R} = \frac{z}{(\alpha/m_C)(e - zt_h m_C)}$$
$$\hat{C} = \frac{er(K(\alpha/m_C)(e - zt_h m_C) - z)}{K(\alpha/m_C)^2 (e - zt_h m_C)^2} \qquad \text{S23}$$

By substituting the body size scalings (eqns S22), we mapped the consumer-resource size combinations at which both populations can coexist at non-zero densities (main text Fig. 4a). To compare the predicted coexistence regions with observed interactions, we overlaid 2930 consumer-resource pairs from seven food webs[31,44] (Supplementary Table 8). Each interaction was assigned an interaction dimensionality (section 3.5 and Supplementary Table 4).

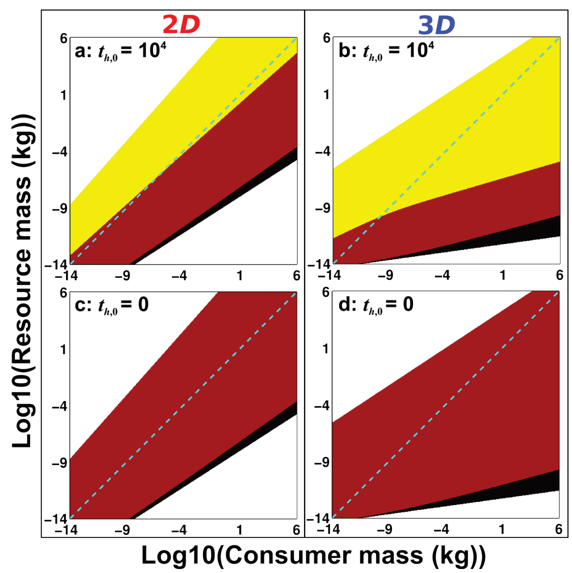
Supplementary Table 4. Criteria used to determine interaction dimensionality (***D***) and foraging strategy. The habitat of an interaction is defined to be the space where the resource is typically captured. For example, a pelican catching a fish is an aquatic interaction even though the former is terrestrial.

Consumer foraging movement and location in habitat	Resource movement and location in habitat	*D*	Foraging strategy
Flying in air or swimming in water column	Flying in air or swimming in water column	3*D*	Active capture
Moving on land or water bottom/surface	Flying in air or swimming in water column	3*D*	Active capture
Flying in air or swimming in water column	Moving on land or water bottom/surface	2*D*	Active capture
Flying in air or swimming in water column	Moving on land or water bottom/surface	2*D*	Active capture
Moving on land or water bottom/surface	Moving on land or water bottom/surface	2*D*	Active capture
Sessile on land or water bottom/surface or suspended in water column	Flying in air or swimming in water column	3*D*	Sit-and-wait
Sessile on land or water bottom/surface	Moving on land or water bottom/surface	2*D*	Sit-and-wait
Actively swimming in water column	Sessile or passive in water column	3*D*	Grazing
Flying in air or swimming in water column	Sessile on land or water bottom/surface	2*D*	Grazing
Moving on land or water bottom/surface	Sessile on land or on water bottom/surface	2*D*	Grazing

2.2. Population cycling

To compare the population dynamical properties of 2*D* and 3*D* consumer-resource pairs, we performed a standard local stability (perturbation) analysis[45,46]. We plotted the transitions between point stability, transient cycling, and stable limit cycles on the consumer-resource size combination space (Supplementary Fig. 3) by calculating eigenvalues of the linearized system at equilibrium (Supplementary Fig. 3).

To illustrate differences in the dynamics of small and large species pairs in 2*D* and 3*D* (main text Fig. 4b), we chose two 2*D* and two 3*D* consumer-resource pairs selected from the food web data overlaid in main text Fig. 4a. These species pairs had similar body size ratios to minimize the confounding effects of k_{RC} scaling (Supplementary Table 1, Section 1.3). We used Matlab ("ode45", which uses the Runge-Kutta algorithm) to numerically integrate eqn S21 for each of the species pairs for 10000 time steps to ensure that populations reached equilibrium.



Supplementary Fig. 3. Effect of interaction dimensionality and handling time on population cycles in the Lotka-Volterra (LV) and Rosenzweig-MacArthur (RM) models (see eqns S21 & S22). Model parameterizations are shown in Supplementary Table 3. Consumer and resource mass are equal (size-ratio of 1) along the diagonal dashed line.

2.3. Scaling of abundances

The scaling of species abundance with body mass was calculated by substituting parameter values into eqn S23 to obtain biomass abundance, which was then divided by species mass to obtain number abundance.

To calculate the size-abundance density scaling within empirically realistic size-ratio combinations, we modeled abundances for the 2930 CR pairs that were mapped onto the coexistence domains using eqn S23 (main text Fig. 4a). Scaling exponents were calculated using OLS regression of log-transformed abundance against log-transformed consumer mass (main text Fig. 4c). The scaling of resource abundance depends largely on consumer size (through the scaling of z, α, and t_h), while the scaling of consumer abundance depends on a more complex function of both consumer and resource sizes (z, α, and t_h depend mainly on m_C, while r and K depend on m_R) (eqns S22 & S23). As a result, resource abundances show little variation around the scaling line in comparison to consumer abundances (see main text Fig. 4c).

doi:10.1038/nature11131

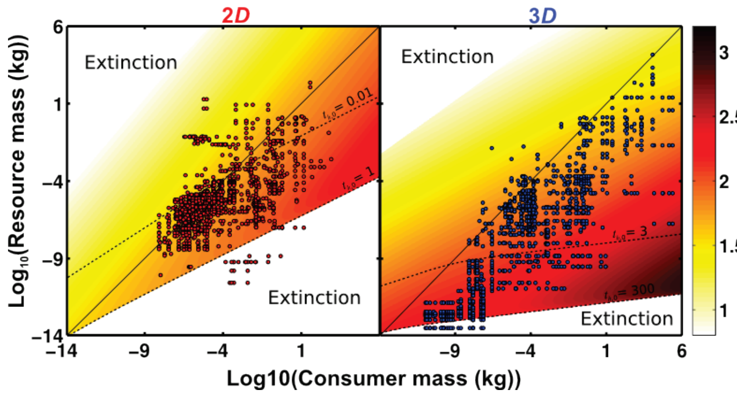
2.4. Model robustness

We tested the robustness of our results for coexistence regions, population dynamics, and abundance scaling by varying $t_{h,0}$ between 0 (classical Lotka-Volterra (LV) model) and 10^4 (Rosenzweig-MacArthur (RM) model with type II functional response). This variation in model structure did not qualitatively affect the results shown in main text Fig. 4 (cf. Supplementary Fig. 3). For the LV model (Supplementary Fig. 3c and d), regions of stable limit cycles are replaced by transient cycles, but feasible coexistence regions remain the same as those obtained from the RM model.

We also examined the effect of a type III functional response on population dynamics by recalculating coexistence regions and abundances using the generalized model[1]

$$f(x_R) = \frac{\alpha (m_R x_R)^{q+1}}{1 + t_h \alpha (m_R x_R)^{q+1}} \qquad \text{S24}$$

instead of type II response (eqn S15) in eqn S21. The results are shown in Supplementary Fig. 4. To determine feasible values of q, we fitted eqn S24 to the functional responses in our database (sections 3.1 & 3.9). Note that feasible coexistence regions with type III responses (Supplementary Fig. 4) are shifted up along the resource mass axis relative to those with type II response (cf. main text Fig. 4a), but the relative difference between $2D$ and $3D$ coexistence regions remains qualitatively the same.



Supplementary Fig. 4. Effect of type III functional responses on $2D$ versus $3D$ population dynamics. Coexistence regions were calculated in the same way as in main text Fig. 4a (eqns S21 and S22, Supplementary Table 3), but with a type III functional response (eqn S24 with q = 0.5). The value of q = 0.5 is approximately the mean of values obtained from our data analyses (see section 3.9) and previous work[1]. As in main text Fig. 4, $t_{h,0} = 10^4$.

3. Data Methods

3.1. Functional responses

Data on consumption rates at different resource densities were compiled by searching the literature. Where possible, we contacted authors directly to obtain raw data. Otherwise we extracted data directly from tables and text, or by digitizing figures using DataThief[47]. Environmental temperature was obtained when reported. If not reported in the original study, body masses were estimated (section 3.6). Consumption rates were converted to consumer per-capita resource biomass consumption rate (eqn S15), i.e., kg resource/(consumer×s×m^2) in $2D$ or kg resource/(consumer×s×m^3) in $3D$ by multiplying numbers consumed with average resource mass. We excluded studies in which consumer density or resource choice (multiple resources offered simultaneously) was manipulated. In all, we extracted data from 116 studies, which yielded 307 functional responses from interactions among 262 consumers and resources (including species and life stages) from all major habitats (176 freshwater, 63 marine, and 70 terrestrial) (Supplementary Table 5). These data represent 230 species (96 orders) spanning 18 orders of magnitude in body size (5.24×10^{-16} – 800 kg). The majority (96%) of these data were measured under controlled laboratory or field enclosure conditions, the remainder being estimated from predation data in the field.

3.2. Reaction distance data

Data on reaction distance and corresponding body mass estimates were obtained using the same methods as for functional responses (section 3.1). We excluded studies that used inanimate objects or animal models as either consumer or resource. The majority (89%) of these data were measured in the laboratory.

The resulting dataset (Supplementary Table 6) consisted of 39 unique interactions (from 35 studies, 22 aquatic and 17 terrestrial) between 56 taxa spanning 11 orders of magnitude in body size (1.8×10^{-9} – 200 kg).

3.3. Handling time data

Data on handling time and corresponding body mass estimates were obtained using the same methods as for functional responses (section 3.1). Only studies that directly measured handling time were included, excluding those that estimated it by fitting type II or III functional response models. The resulting dataset (Supplementary Table 7) consists of 78 interactions (from 89 studies, 45 aquatic and 33 terrestrial) between 93 taxa spanning 10 orders of magnitude in body size (3×10^{-10} – 4 kg).

3.4. Consumer-resource pairs from real communities

We selected seven published food web datasets for communities across a wide range of terrestrial and aquatic habitats (Supplementary Table 8). When body mass data were missing, estimates were obtained (section 3.6). These seven communities comprise a total of 2930 interactions between 854 species. Each interaction was assigned a dimensionality (section 3.5).

3.5. Classification of interaction types

Each consumer-resource pair was assigned an interaction dimensionality based on search space and foraging strategy (see Supplementary Table 4 and main text Fig. 1). In our database, most (97%) terrestrial interactions were 2*D,* while most (73%) aquatic interactions were 3*D*. These differences arise partly because it is difficult to measure consumption rates in flying consumer-resource pairs in terrestrial habitats, together with biases in the choice of study taxa. The foraging strategy of interacting consumer-resource pairs was determined from the literature. The final interaction dimensionality designations for our consumption rate data are shown in Supplementary Table 5–Supplementary **Table 8**.

3.6. Body mass estimation

For cases when body mass was not described in the original data source, we developed an algorithm that assigned a mass estimate to each individual. This algorithm matched the taxonomic relatedness of the taxon, for which a life-stage specific mass estimate was required, to an independent set of life-stage and taxon-specific estimates of size and/or length-mass regressions (compiled from the literature). The algorithm comprised four main steps:

1. When available, body size measurements (mass, length, or otherwise) were acquired from the original data source.
2. When no size estimate was given in the original source (15% of responses), body size (e.g., body mass, body length, carapace width) was assigned from an independent reference data table of measurements compiled from the literature.
3. All non-mass estimates of size (e.g., shell height, total body length, carapace width) were converted to mass (wet, dry or ash-free-dry) using 364 published size-mass regressions. To be conservative, we did not extrapolate outside the length range used to construct the regressions.
4. All dry masses (dry or ash-free-dry) were converted to wet mass using 13 published taxon-specific conversion ratios.

This algorithm uses a more comprehensive set of data and allometric regressions than previous studies, which have typically used broad taxon-level allometric relationships to estimate species-level masses[44].

3.7. Temperature corrections

Temperature strongly affects biological rates and times[2,3,48-52], so comparisons of consumption rate and its components require corrections for body temperature[50,53]. Because most (96%) of the studies in our database were obtained in the laboratory where individuals had sufficient time for acclimation to experimental temperature, we assumed that ectotherm body temperature matched ambient temperature (unless body temperature was measured directly). For endotherms, estimates of mean body temperature were obtained from the literature. Consumption rates and handling times were standardized to 15°C using the Boltzmann-Arrhenius (BA) model,

$$c_{15} = c_{T_{obs}} e^{-\frac{E}{k}\left(\frac{1}{288.15} - \frac{1}{273.15+T_{obs}}\right)} \qquad \text{S25}$$

and

$$t_{h,15} = t_{h,T_{obs}} e^{\frac{E}{k}\left(\frac{1}{288.15} - \frac{1}{273.15+T_{obs}}\right)} \qquad \text{S26}$$

where c_{Tobs} is measured consumption rate, T is temperature in Kelvin, E is activation energy, k is Boltzmann's constant, and T_{obs} the observed consumer body temperature (in degrees Celsius). The BA model is suitable for modeling thermal responses of a wide array of biological rates[2,3,48-52,54,55]. We chose 15°C because many traits, especially in aquatic habitats, peak at or below 20°C[52]. We used $E = 0.65$ eV, which is the mean value observed across a range of biological rates[2,48,49,52]. We note that unless one of the consumer or resource is an endotherm, the activation energy, E, in eqns S25 & S26 will be a combination (e.g., average and/or difference) of their activation energies. Reaction distance is not in general expected to exhibit temperature dependence[52], a pattern confirmed by our data. However, detection by smell, for example, may have a weak dependence on the square root of temperature due to effects of diffusion.

3.8. Pseudoreplicates

Functional responses having the same consumer and resource taxa, life stage, habitat, and consumer body mass were identified as belonging to the same pseudoreplicate group. From each of these groups, only the trial with the maximum value of consumption rate, c, with abundant resources was retained. This minimized the confounding effects of size-ratio variation within species pairs and allowed us to instead focus on the scaling of consumption rate with consumer size across pairs. After removal of pseudoreplicates, the original set of 307 responses reduced to 254.

3.9. Statistical analyses

Scaling relationships. To determine scaling relationships of consumption rate and its components we used ordinary least squares (OLS) regression of log-transformed x and y data. We did not use major axis (MA) regression because our objective was to obtain the most accurate (not necessarily the least biased) prediction of the scaling of consumption rate components with respect to body mass[56,57]. Using MA regression yields steeper exponents than those reported here, but this choice does not alter our main result about differences between 2D and 3D interactions. To test whether an observed exponent matched predictions, we used an F test and also examined whether the 95% CI's around the observed exponent included the predicted value. In order to compare two observed exponents (e.g., between 2D and 3D interactions), we tested if the exponents differed significantly using a likelihood ratio test of common slope with unknown error variance[56].

To determine if foraging strategy influences the scaling of search and consumption rates, we examined whether subsets of 2D and 3D interactions classified as active-capture, sit-and-wait, and grazing, have significantly different scaling slopes and intercepts.

Functional responses. To identify the type of each functional response in our database, we used the generalized model (eqn S24). We fitted this model to each functional response using non-linear least squares (NLS) (Supplementary Table 5). The NLS can yield $t_h < 0$, $q < 0$, or both. Negative t_h is biologically impossible, but indicates an upward curving response. Negative q is biologically unlikely as it indicates a decline in search rate with resource density[1], but is useful as a measure of deviation away from a type III response. We did not restrict t_h or q to be ≥ 0 in the NLS fitting algorithm iterations to ensure the best possible NLS fit and thus the best characterization of functional response shape. Nevertheless, none of the negative t_h values returned by the NLS regression were significantly different from zero (Supplementary Table 5). To determine whether the shape of the functional response was systematically different between 2*D* and 3*D* interactions, we dropped all fitted responses with $R^2 < 0.5$, and tested for differences in means of the q value distribution (one-tailed t-test with unequal variance). We find that the mean value of q in 2*D* (0.41±1.14 SD) is higher than in 3*D* (0.31±0.74), but not significantly so ($t = 0.79$, p=0.21).

doi:10.1038/nature11131

Data Tables

Supplementary Table 5. Dataset for scaling of search and consumption rate. Data are listed by interaction dimensionality (***D***), and then alphabetically by habitat (**Hab**; F: freshwater, M: marine, T: terrestrial), and consumer-resource name (**Consumer → Resource**) (including life stage and sex when available). The foraging strategy type (**For**; A: Active foraging, G: Grazing, S: Sit-and-wait), parameters of the fitted functional response (**Fitted FR**; eqn S24), and data source (**Ref**) are also shown. Search rate is in m^2/s (2*D*) or m^3/s (3*D*), consumption rate in kg/s, and resource density in kg/m^2 (2*D*) or kg/m^3 (3*D*). For fitted functional responses, $t_h = 0$ implies type I, $t_h > 0$ and $q = 0$ implies type II, and $t_h > 0$ and $q > 0$ implies type III. Because there is considerable uncertainty in the estimated values of these parameters, we do not assign a strict label of type I, II, or III to each interaction (section 3.9).

D	Hab	For	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)	Scarce resources			Abundant resources		Fitted FR				Ref
						Search rate	Consumption rate	Resource density	Consumption rate	Resource density	R^2	α (±95% CI)	t_h (±95% CI)	q (±95% CI)	
2	F	G	Aythya valisineria → Vallisneria americana [bud]	1.23	3.00E-04	1.04E-02	1.20E-05	1.15E-03	1.02E-04	5.17E-02	1.000	1.08E-02 ± 1.91E-03	2.57 ± 7.39E-02	0.07 ± 0.06	58
2	F	G	Baetis tricaudatus [late instar] → Navicula spp.	6.90E-07	2.68E-10	8.50E-09	4.67E-11	5.50E-03	1.79E-10	3.15E-02	0.597	1.04E-16 ± 2.61E-14	1.76 ± 2.22	1.14 ± 14.84	59
2	F	S	Celithemis fasciata [final instar] → Chironomus tentans [instar 3]	2.64E-05	7.07E-07	8.18E-08	4.59E-11	5.61E-04	2.61E-10	1.40E-03	0.754	1.62E-15 ± 1.12E-13	2.78E+03 ± 2.06E+03	2.58 ± 9.51	60
2	F	G	Cottus cognatus [adult] → Salvelinus namaycush [egg]	6.47E-03	4.77E-05	6.11E-08	1.82E-10	2.98E-03	5.00E-09	2.98E-01	0.610	4.12E-06 ± 4.12E-05	8.82E+03 ± 2.22E+04	-0.45 ± 2.14	61
2	F	G	Ephemerella aurivilli [late instar] → Navicula spp.	7.89E-07	2.68E-10	1.83E-08	1.01E-10	5.50E-03	1.48E-10	3.15E-02	0.908	7.30E-16 ± 7.12E-14	1.89 ± 3.93E-01	1.09 ± 5.79	59
2	F	G	Glossiphonia complanata → Helisoma anceps [juvenile]	4.21E-02	9.48E-04	1.72E-07	3.25E-08	1.90E-01	1.20E-07	3.04	0.961	5.36E-08 ± 6.81E-07	6.94E+03 ± 6.69E+03	0.22 ± 2.16	62
2	F	G	Glossiphonia complanata → Lymnaea emarginata [juvenile]	4.21E-02	3.26E-03	1.00E-07	6.53E-08	6.53E-01	9.56E-07	2.09E+01	0.993	8.73E-07 ± 2.14E-06	-4.64E+05 ± 9.93E+06	-0.90 ± 2.20	62
2	F	G	Glossiphonia complanata → Physa gyrina [juvenile]	4.21E-02	7.37E-04	4.55E-08	6.70E-09	1.47E-01	1.51E-07	4.71	0.989	8.11E-09 ± 6.00E-08	2.77E+03 ± 4.05E+03	0.25 ± 1.03	62
2	F	A	Macrobiotus richtersi [adult] → Acrobeloides nanus [adult]	1.07E-08	8.00E-11	4.53E-07	4.58E-14	1.01E-07	2.39E-13	3.54E-06	0.945	3.42E-06 ± 1.61E-05	2.30E+02 ± 2.25E+02	-0.28 ± 0.58	63
2	F	G	Neogobius melanostomus [adult] → Salvelinus namaycush [egg]	1.50E-03	4.77E-05	2.53E-07	7.54E-10	2.98E-03	5.24E-09	1.49E-01	0.612	3.03E-16 ± 3.94E-14	1.27E+04 ± 1.55E+04	2.54 ± 18.11	61
2	F	G	Orconectes propinquus [adult] → Salvelinus namaycush [egg]	9.32E-05	4.77E-05	8.39E-08	2.50E-10	2.98E-03	2.15E-09	1.49E-01	0.390	1.07E-07 ± 2.42E-06	3.41E+04 ± 5.24E+04	0.00 ± 4.29	61
2	F	G	Paraleptophlebia heteronea [late instar] → Navicula spp.	9.15E-07	2.68E-10	8.79E-09	4.83E-11	5.50E-03	1.22E-10	3.15E-02	0.348	1.04E-16 ± 4.58E-14	2.61 ± 3.79	1.15 ± 25.96	59
2	F	A	Phagocata vitta [adult] → Chironomus spp. [larva]	1.19E-06	4.82E-07	1.14E-08	1.24E-12	1.09E-04	5.43E-12	1.75E-03	1.000	9.16E-09 ± 4.74E-09	7.35E+04 ± 3.95E+03	0.08 ± 0.09	64
2	F	A	Phagocata vitta [adult] → Tubifex tubifex	1.19E-06	2.38E-06	1.74E-08	9.38E-12	5.39E-04	3.53E-11	8.62E-03	0.998	8.57E-09 ± 2.06E-08	5.91E+04 ± 1.05E+04	0.17 ± 0.41	64
2	F	A	Plectrocnemia conspersa [larva] → Leuctra nigra [larva]	4.18E-06	6.71E-08	2.33E-07	9.67E-12	4.14E-05	3.03E-11	3.31E-04	0.833	8.21E-10 ± 1.64E-07	1.82E+03 ± 1.70E+04	0.79 ± 28.44	65
2	F	A	Plectrocnemia conspersa [larva] →	4.18E-06	3.96E-07	1.92E-07	4.70E-11	2.44E-04	4.34E-10	1.96E-03	0.993	9.73E-10	5.52E+02	0.75	65

D	Hab	For	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)	Scarce resources: Search rate	Scarce resources: Consumption rate	Scarce resources: Resource density	Abundant resources: Consumption rate	Abundant resources: Resource density	Fitted FR: R^2	Fitted FR: α (±95% CI)	Fitted FR: t_h (±95% CI)	Fitted FR: q (±95% CI)	Ref
			Nemurella picteti [larva]									± 5.68E-08	± 3.69E+03	± 7.97	
2	F	A	Rhyacophila dorsalis [instar 2] → Chironomus spp. [larva]	4.69E-07	3.23E-08	1.08E-06	8.70E-12	8.05E-06	4.72E-11	8.09E-05	0.997	1.28E-05 ± 1.59E-05	-4.22E+02 ± 6.53E+02	-0.46 ± 0.23	66
2	F	A	Rhyacophila dorsalis [instar 3] → Chironomus spp. [larva]	1.74E-06	3.23E-08	1.13E-06	9.11E-12	8.05E-06	7.29E-11	8.09E-05	0.999	1.06E-06 ± 7.47E-07	7.99E+01 ± 7.08E+01	0.00 ± 0.11	66
2	F	A	Rhyacophila dorsalis [instar 4] → Chironomus spp. [larva]	5.63E-06	2.40E-07	2.23E-06	1.33E-10	5.98E-05	8.93E-10	5.41E-04	0.999	3.12E-06 ± 2.86E-06	6.14E+01 ± 5.80E+01	-0.05 ± 0.15	66
2	F	A	Rhyacophila dorsalis [instar 5] → Chironomus spp. [larva]	2.42E-05	2.40E-07	4.58E-06	2.74E-10	5.98E-05	1.52E-09	6.01E-04	1.000	5.50E-06 ± 1.80E-06	7.38E+01 ± 8.80	-0.02 ± 0.05	66
2	F	G	Salmo trutta [juvenile] → Gammarus sp. [dead adult]	5.00E-03	7.62E-06	2.25E-02	8.56E-07	3.81E-05	3.75E-06	1.52E-04	0.864	8.67E-04 ± 9.12E-03	2.32 ± 6.35E-01	2.09 ± 5.18	67
2	F	G	Salmo trutta [juvenile] → Gammarus sp. [dead adult]	1.76E-02	7.62E-06	5.05E-02	1.92E-06	3.81E-05	8.20E-06	6.10E-04	0.935	3.47E-03 ± 2.23E-02	1.03 ± 1.92E-01	1.79 ± 3.15	67
2	F	G	Salmo trutta [juvenile] → Gammarus sp. [dead adult]	5.82E-02	7.62E-06	6.30E-02	2.40E-06	3.81E-05	1.26E-05	6.10E-04	0.931	1.21E-01 ± 4.12E-01	4.86E-01 ± 6.95E-01	-0.15 ± 1.54	67
2	F	G	Salmo trutta [juvenile] → Musca domestica [dead adult]	5.00E-03	8.11E-05	2.64E-02	1.07E-05	4.06E-04	3.57E-05	6.49E-03	0.837	8.46E-02 ± 3.12E-01	1.85 ± 4.17	-0.35 ± 2.15	67
2	F	G	Salmo trutta [juvenile] → Musca domestica [dead adult]	1.76E-02	8.11E-05	7.08E-02	2.87E-05	4.06E-04	9.29E-05	6.49E-03	0.967	9.45E-02 ± 2.08E-01	6.91E-01 ± 5.60E-01	-0.13 ± 1.01	67
2	F	G	Salmo trutta [juvenile] → Musca domestica [dead adult]	5.82E-02	8.11E-05	8.13E-02	3.30E-05	4.06E-04	1.27E-04	6.49E-03	0.963	1.31E-01 ± 3.00E-01	3.49E-01 ± 9.01E-01	-0.30 ± 1.08	67
2	F	A	Sander vitreus [juvenile] → Chironomus spp. [larva]	2.85E-05	1.02E-06	1.15E-04	2.93E-09	2.55E-05	3.12E-09	1.02E-03	0.048	2.84E-05 ± 2.51E-01	-3.50E+04 ± 3.11E+08	-1.00 ± 13.06	68
2	F	A	Sander vitreus [juvenile] → Chironomus spp. [larva]	1.02E-04	1.02E-06	1.35E-04	3.45E-09	2.55E-05	6.16E-09	5.10E-04	0.305	7.25E+13 ± 5.01E+16	2.26E+02 ± 1.26E+02	-6.36 ± 100.16	68
2	F	A	Sander vitreus [juvenile] → Chironomus spp. [larva]	3.73E-04	1.02E-06	1.29E-04	3.28E-09	2.55E-05	1.13E-08	1.02E-04	0.713	5.59E-08 ± 1.81E-06	1.16E+02 ± 4.04E+01	2.53 ± 9.69	68
2	F	A	Sander vitreus [juvenile] → Chironomus spp. [larva]	1.02E-03	1.02E-06	2.89E-04	7.37E-09	2.55E-05	2.13E-08	5.10E-04	0.965	2.87E-04 ± 1.07E-03	4.48E+01 ± 1.48E+01	0.04 ± 0.96	68
2	F	A	Sander vitreus [juvenile] → Chironomus spp. [larva]	2.06E-03	1.02E-06	1.94E-04	4.95E-09	2.55E-05	3.39E-08	1.02E-03	0.904	2.58E-04 ± 1.88E-03	3.12E+01 ± 2.08E+01	0.09 ± 1.81	68
2	F	A	Sander vitreus [juvenile] → Chironomus spp. [larva]	3.28E-03	1.02E-06	2.86E-04	7.29E-09	2.55E-05	4.11E-08	5.10E-04	0.852	7.93E-05 ± 9.10E-04	2.76E+01 ± 2.19E+01	0.31 ± 2.66	68
2	F	A	Sander vitreus [juvenile] → Chironomus spp. [larva]	1.25E-03	1.02E-06	2.47E-04	6.29E-09	2.55E-05	3.87E-08	5.10E-04	0.928	7.37E-06 ± 8.49E-05	2.64E+01 ± 1.17E+01	0.78 ± 2.51	68
2	F	A	Sander vitreus [juvenile] → Chironomus spp. [larva]	1.85E-03	1.02E-06	2.77E-04	7.07E-09	2.55E-05	3.03E-08	1.02E-03	0.868	2.78E-05 ± 3.28E-04	3.68E+01 ± 1.93E+01	0.58 ± 2.82	68
2	F	A	Sander vitreus [juvenile] → Chironomus spp. [larva]	2.64E-03	1.02E-06	1.95E-04	4.98E-09	2.55E-05	4.39E-08	1.02E-03	0.978	2.71E-04 ± 1.04E-03	1.97E+01 ± 1.20E+01	0.00 ± 0.88	68
2	F	A	Sander vitreus [juvenile] → Chironomus spp. [larva]	1.02E-02	1.02E-06	1.82E-04	4.65E-09	2.55E-05	3.26E-08	1.02E-03	0.979	1.67E-05 ± 1.01E-04	2.73E+01 ± 1.25E+01	0.44 ± 1.25	68
2	M	G	Asterias vulgaris [adult] → Placopecten magellanicus [juvenile]	1.00E-01	5.88E-04	1.53E-06	1.00E-08	6.54E-03	1.17E-07	3.27E-02	0.764	6.06E-12 ± 1.51E-10	6.08E+03 ± 2.23E+03	3.85 ± 7.13	69

D	Hab	For	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)	Scarce resources			Abundant resources		Fitted FR				Ref
						Search rate	Consumption rate	Resource density	Consumption rate	Resource density	R^2	α (±95% CI)	t_h (±95% CI)	q (±95% CI)	
2	M	G	Aythya affinis [adult] → Potamogeton pectinatus [tuber]	8.26E-01	2.35E-04	2.40E-04	1.41E-05	5.88E-02	9.92E-05	9.41E-01	0.974	4.82E-05 ± 2.80E-04	1.55 ± 1.40	0.22 ± 0.87	70
2	M	G	Callinectes sapidus [adult] → Crassostrea virginica [juvenile]	1.62E-01	6.76E-03	9.37E-06	9.60E-07	1.02E-01	2.62E-06	1.02	0.502	1.20E-06 ± 7.98E-05	-7.90E+05 ± 5.59E+07	-0.99 ± 0.80	71
2	M	G	Callinectes sapidus [adult] → Macoma balthica [adult]	1.62E-01	8.43E-03	1.43E-06	1.29E-08	9.00E-03	4.05E-07	1.44E-01	0.964	1.12E-06 ± 4.60E-06	1.93E+04 ± 1.26E+04	0.86 ± 2.40	72
2	M	G	Callinectes sapidus [adult] → Mya arenaria [adult]	1.30E-01	1.19E-02	1.72E-07	1.14E-08	6.61E-02	1.37E-07	1.06	0.988	8.18E-11 ± 6.16E-10	8.99E+04 ± 1.27E+04	3.14 ± 2.66	73
2	M	G	Calliopius laeviusculus [adult] → Mallotus villosus [egg]	1.73E-05	4.78E-07	1.84E-08	3.86E-11	2.10E-03	5.88E-10	1.78E-01	0.991	5.55E-08 ± 1.82E-07	6.49E+02 ± 1.92E+02	-0.09 ± 0.33	74
2	M	G	Cancer irroratus [adult male] → Placopecten magellanicus [juvenile]	3.04E-01	3.40E-03	2.51E-05	1.55E-07	6.18E-03	2.59E-07	2.47E-02	0.177	2.02E-06 ± 3.39E-03	-4.72E+05 ± 8.32E+08	-1.00 ± 7.06	75
2	M	G	Cancer irroratus [adult male] → Placopecten magellanicus [juvenile]	3.11E-01	1.68E-03	2.27E-06	4.24E-08	1.87E-02	9.88E-08	6.54E-02	0.290	7.99E-08 ± 1.70E-06	2.27E+04 ± 5.72E+03	1.81 ± 8.45	76
2	M	A	Crangon crangon [adult female] → Pleuronectes platessa [juvenile]	3.20E-04	1.86E-05	1.88E-06	7.00E-11	3.72E-05	3.93E-09	1.19E-03	0.999	1.76E-06 ± 1.73E-06	4.17E+03 ± 5.79E+02	0.66 ± 0.39	77
2	M	G	Crangon crangon [subadult] → Macoma balthica [juvenile]	7.19E-05	5.11E-08	1.12E-07	5.46E-11	4.88E-04	3.33E-09	5.06E-02	0.969	6.86E-06 ± 4.71E-05	-1.37E+01 ± 4.55E+01	-0.38 ± 0.61	78
2	M	A	Crangon septemspinosa [adult] → Pseudopleuronectes americanus [juvenile]	1.51E-03	1.36E-05	2.90E-06	1.77E-10	6.10E-05	1.09E-09	1.22E-03	0.959	6.84E-06 ± 1.59E-05	2.49E+03 ± 3.94E+04	-0.42 ± 1.27	79
2	M	G	Melanitta fusca [adult] → Macoma balthica [adult]	1.80	7.42E-03	5.24E-04	1.94E-04	3.71E-01	7.37E-04	1.19E+01	0.882	7.76E-03 ± 3.20E-02	-3.68E-01 ± 6.11E+01	-0.66 ± 1.31	80
2	M	G	Metacarcinus magister [instar 3] → Macoma balthica [adult]	5.91E-03	1.86E-03	4.12E-07	4.58E-08	1.11E-01	3.97E-07	2.23	0.812	9.43E-07 ± 3.08E-05	-9.92E+05 ± 3.48E+07	-0.99 ± 0.32	81
2	M	G	Metacarcinus magister [instar 5] → Macoma balthica [adult]	8.18E-03	1.86E-03	2.68E-07	2.99E-08	1.11E-01	7.09E-07	1.67	0.909	3.21E-08 ± 4.19E-07	2.22E+03 ± 2.27E+03	0.59 ± 2.39	81
2	M	A	Saduria entomon [adult] → Monoporeia affinis [adult]	1.61E-03	5.69E-06	7.01E-08	1.09E-10	1.56E-03	4.00E-10	7.26E-03	0.788	3.73E-12 ± 2.84E-10	1.74E+04 ± 1.24E+04	1.82 ± 13.36	8
2	M	A	Saduria entomon [adult] → Monoporeia affinis [adult]	4.55E-03	5.69E-06	2.65E-08	4.19E-11	1.58E-03	4.24E-10	1.29E-02	0.925	3.04E-08 ± 8.33E-07	5.55E+03 ± 6.79E+04	0.06 ± 4.45	8
2	M	A	Saduria entomon [adult] → Monoporeia affinis [juvenile]	1.61E-03	1.81E-06	6.27E-08	3.06E-11	4.88E-04	3.16E-10	4.11E-03	0.973	4.62E-08 ± 7.96E-07	2.32E+03 ± 1.65E+04	0.12 ± 2.76	8
2	M	A	Saduria entomon [adult] → Monoporeia affinis [juvenile]	4.55E-03	1.81E-06	7.37E-08	3.58E-11	4.86E-04	3.07E-10	3.22E-03	0.860	5.63E-09 ± 3.20E-07	1.72E+03 ± 4.50E+04	0.38 ± 8.69	8
2	M	A	Saduria entomon [juvenile] → Monoporeia affinis [adult]	8.00E-05	5.69E-06	1.25E-08	1.97E-11	1.57E-03	7.35E-11	1.30E-02	0.884	3.36E-07 ± 2.49E-05	-2.16E+06 ± 2.30E+08	-0.96 ± 3.76	8
2	M	A	Saduria entomon [juvenile] → Monoporeia affinis [adult]	5.15E-04	5.69E-06	7.13E-08	1.12E-10	1.58E-03	4.39E-10	1.01E-02	0.881	2.07E-08 ± 6.05E-07	9.94E+03 ± 3.81E+04	0.22 ± 4.80	8
2	M	A	Saduria entomon [juvenile] → Monoporeia affinis [juvenile]	8.00E-05	1.81E-06	4.14E-08	2.07E-11	4.99E-04	6.28E-11	4.12E-03	0.877	2.00E-06 ± 1.36E-05	-9.23E+04 ± 3.22E+06	-0.82 ± 4.25	8
2	M	A	Saduria entomon [juvenile] → Monoporeia affinis [juvenile]	5.15E-04	1.81E-06	5.35E-08	2.65E-11	4.96E-04	2.01E-10	4.12E-03	0.680	3.24E-07 ± 1.58E-05	4.13E+03 ± 1.19E+05	-0.20 ± 8.55	8

D	Hab	For	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)	Scarce resources			Abundant resources		Fitted FR				Ref
						Search rate	Consumption rate	Resource density	Consumption rate	Resource density	R^2	*α* (±95% CI)	t_h (±95% CI)	*q* (±95% CI)	
2	M	A	Sepia officinalis [juvenile] → Mesopodopsis slabberi [adult]	8.19E-05	3.20E-06	5.24E-08	7.48E-11	1.43E-03	4.85E-10	5.71E-03	0.721	2.44E-16 ± 3.60E-14	6.48E+03 ± 1.05E+04	2.72 ± 20.39	82
2	T	G	Alces alces [adult] → Betula pubescens [twig]	5.50E+02	1.32E-01	5.42E-05	9.42E-06	1.74E-01	2.51E-04	7.04	0.761	1.09E-04 ± 8.83E-05	-6.21E+02 ± 2.32E+03	-0.49 ± 0.65	83
2	T	G	Alces alces [juvenile (1 yr)] → Acer rubrum [unbranched shoot]	2.74E+02	8.02E-04	8.92	5.90E-05	6.61E-06	9.32E-05	6.18E-04	0.846	2.07E+01 ± 1.14E+02	8.89 ± 1.28	-0.05 ± 1.18	84
2	T	G	Alces alces [juvenile] → Acer rubrum [unbranched shoot]	1.51E+02	8.02E-04	5.10	5.29E-05	1.04E-05	1.15E-04	6.18E-04	0.931	2.35E-01 ± 9.73E-01	2.59 ± 1.85E+01	-0.77 ± 0.63	84
2	T	A	Amblyseius degenerans [adult] → Tetranychus pacificus [juvenile]	4.97E-08	1.89E-09	1.28E-08	4.53E-14	3.54E-06	6.30E-13	1.42E-04	0.985	1.31E-08 ± 5.82E-08	1.98E+03 ± 1.29E+03	0.00 ± 0.48	85
2	T	G	Bison bison → sedges & grasses [tiller]	8.00E+02	2.62E-03	1.39E-03	8.10E-05	5.85E-02	6.92E-04	5.30E-01	0.808	2.24E-03 ± 4.38E-03	2.19 ± 2.03	-0.01 ± 0.52	86
2	T	G	Bonasa umbellus [adult] → Trifolium repens [leaves]	5.50E-01	4.44E-05	2.52E-02	1.12E-06	4.44E-05	2.56E-06	4.44E-01	0.923	4.26E-02 ± 2.85E-02	1.32E+01 ± 1.83E+01	-0.81 ± 0.39	87
2	T	A	Canis latrans [adult] → Lepus americanus Erxleben 1777 [adult]	1.00E+01	1.50	7.52E-02	1.20E-06	1.59E-05	9.11E-06	2.26E-04	0.504	5.37E-02 ± 2.46	1.58E+05 ± 9.96E+05	0.00 ± 4.32	88
2	T	A	Canis lupus [adult] → Alces alces [adult]	3.60E+01	2.35E+02	1.17E-02	4.39E-06	3.74E-04	1.65E-05	6.44E-04	0.780	3.56E-05 ± 4.06E-03	-4.59E+07 ± 8.99E+08	-0.40 ± 7.77	89
2	T	A	Canis lupus [adult] → Rangifer tarandus [adult]	3.60E+01	1.20E+02	4.36	3.14E-05	7.20E-06	3.44E-05	2.52E-05	NA	NA	NA	NA	90
2	T	G	Castor canadensis [adult] → Populus tremuloides [sapling]	2.00E+01	9.00E-01	9.65E-04	5.79E-06	6.00E-03	1.01E-05	2.40E-02	0.840	2.20E-05 ± 5.28E-04	-2.14E+04 ± 1.54E+06	-0.73 ± 3.14	91
2	T	G	Cervus canadensis [subadult] → sedges & grasses [tiller]	1.69E+02	1.95E-03	4.60E-04	3.68E-05	7.98E-02	1.28E-04	1.89	0.998	6.64E-06 ± 1.01E-05	1.54E+01 ± 5.21E-01	1.24 ± 0.38	92
2	T	A	Chrysomya albiceps [larva] → Chrysomya megacephala [larva]	3.08E-06	9.33E-07	2.46E-08	6.50E-11	2.64E-03	3.96E-10	1.85E-02	0.989	1.39E-10 ± 2.18E-09	1.89E+03 ± 1.31E+03	0.65 ± 1.79	93
2	T	G	Cnemidophorus sexlineatus Linneaus [adult] → Acheta domesticus	4.01E-03	1.25E-05	6.27E-06	1.96E-11	3.13E-06	1.01E-10	1.25E-05	0.725	3.34E-05 ± 2.87E-04	1.37E+05 ± 2.17E+05	1.48 ± 10.82	94
2	T	A	Curinus coeruleus [adult] → Heteropsylla cubana [late instar]	1.58E-05	1.50E-07	5.37E-08	1.11E-11	2.06E-04	5.66E-11	1.24E-03	0.969	1.00E-09 ± 1.08E-08	1.96E+03 ± 1.55E+03	0.55 ± 1.38	95
2	T	G	Cyrtorhinus lividipennis [adult female] → Nilaparvata lugens [egg]	1.04E-06	8.40E-08	3.24E-07	1.70E-11	5.27E-05	1.02E-10	4.21E-04	0.998	9.31E-08 ± 4.01E-07	5.24E+02 ± 3.67E+02	0.23 ± 0.63	96
2	T	A	Falco rusticolus [adult] → Lagopus muta [adult]	1.51	5.37E-01	1.14E-01	2.69E-07	2.36E-06	4.92E-07	6.39E-06	0.369	1.78E+04 ± 9.55E+05	1.39E+06 ± 4.30E+05	0.87 ± 4.34	97
2	T	G	Fringilla coelebs [adult] → Brassica napus [seed]	2.40E-02	2.70E-06	4.38E-03	2.96E-07	6.75E-05	4.55E-07	1.08E-03	0.504	4.42E-02 ± 3.77E-01	6.70 ± 4.14	-0.37 ± 2.73	98
2	T	G	Haematopus ostralegus [adult] → Scrobicularia plana [adult]	4.60E-01	3.41E-04	5.31E-04	1.10E-06	2.08E-03	4.26E-06	1.20E-01	0.987	1.61E-03 ± 3.55E-04	-6.85E+01 ± 2.21E+02	-0.76 ± 0.26	99
2	T	A	Kestrels and owls [adult] → Microtus spp. [adult]	4.90E-02	2.50E-02	4.75E-02	4.75E-08	1.00E-06	2.85E-07	4.50E-05	0.905	1.01E-01 ± 1.02	7.77E+04 ± 6.58E+04	0.24 ± 1.23	100
2	T	G	Lemmus sibiricus [adult] → sedges & grasses [tiller]	5.00E-02	1.24E-04	2.45E-05	1.69E-07	6.90E-03	8.74E-07	2.24E-01	0.837	2.75E-04 ± 3.11E-04	-6.36E+02 ± 3.03E+03	-0.80 ± 0.65	101
2	T	A	Lyctocoris campestris [adult] →	5.64E-07	6.00E-07	2.23E-08	1.47E-12	6.58E-05	1.77E-11	1.32E-03	0.795	5.01E-07	-1.63E+06	-0.98	102

D	Hab	For	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)	Scarce resources			Abundant resources		Fitted FR				Ref
						Search rate	Consumption rate	Resource density	Consumption rate	Resource density	R^2	α (±95% CI)	t_h (±95% CI)	*q* (±95% CI)	
			Oryzaephilus surinamensis [larva]									± 2.47E-05	± 9.98E+07	± 1.37	
2	T	A	Lyctocoris campestris [adult] → Plodia interpunctella [larva]	5.64E-07	1.77E-05	4.88E-08	9.48E-11	1.94E-03	6.09E-10	3.89E-02	0.923	1.85E-06 ± 2.17E-06	-1.16E+05 ± 1.02E+06	-0.83 ± 1.05	102
2	T	A	Lyctocoris campestris [adult] → Tribolium castaneum [larva]	5.64E-07	2.48E-06	8.22E-08	2.24E-11	2.72E-04	4.68E-11	2.17E-03	0.913	2.00E-07 ± 9.73E-07	4.85E+04 ± 1.62E+04	-0.07 ± 0.99	102
2	T	A	Lynx canadensis Kerr 1792 [adult] → Lepus americanus [adult]	1.10E+01	1.50	1.03E-01	1.64E-06	1.59E-05	4.81E-06	1.87E-04	0.771	1.03E-03 ± 2.18E-02	1.69E+05 ± 1.03E+06	-0.39 ± 1.84	88
2	T	G	Macrolophus caliginosus [adult] → Myzus persicae [instar 4]	1.39E-06	1.35E-07	1.93E-07	1.30E-12	6.75E-06	1.44E-11	2.03E-04	0.988	1.25E-08 ± 5.38E-08	8.64E+03 ± 2.27E+03	0.55 ± 0.79	103
2	T	G	Macrolophus caliginosus [adult] → Tetranychus urticae [adult]	1.39E-06	2.01E-08	1.58E-07	9.54E-13	6.03E-06	6.03E-12	5.03E-05	0.841	2.00E-15 ± 1.52E-13	3.96E+03 ± 1.63E+03	2.76 ± 11.26	103
2	T	G	Macrolophus pygmaeus [adult] → Myzus persicae [instar 1]	1.63E-06	2.25E-08	1.02E-07	5.41E-13	5.31E-06	2.81E-12	3.18E-05	0.978	3.48E-10 ± 2.63E-09	6.88E+03 ± 2.06E+03	1.01 ± 1.22	104
2	T	G	Macrolophus pygmaeus [adult] → Myzus persicae [instar 2]	1.63E-06	5.05E-08	1.08E-07	1.29E-12	1.19E-05	6.49E-12	5.95E-05	0.954	4.50E-10 ± 4.91E-09	6.65E+03 ± 3.11E+03	0.96 ± 1.76	104
2	T	G	Macrolophus pygmaeus [adult] → Myzus persicae [instar 3]	1.63E-06	7.93E-08	7.65E-08	1.43E-12	1.87E-05	7.27E-12	1.12E-04	0.868	9.58E-10 ± 1.64E-08	1.03E+04 ± 8.04E+03	0.81 ± 2.82	104
2	T	G	Macrolophus pygmaeus [adult] → Myzus persicae [instar 4]	1.63E-06	1.29E-07	8.28E-08	2.52E-12	3.04E-05	8.44E-12	2.43E-04	0.899	9.27E-07 ± 7.99E-06	1.45E+03 ± 6.41E+04	-0.43 ± 1.71	104
2	T	G	Myodes glareolus [adult] → Salix myrsinifolia [male long shoot]	1.85E-02	1.28E-03	3.50E-06	8.96E-09	2.56E-03	4.71E-08	4.61E-02	0.971	4.55E-06 ± 6.05E-06	1.12E+04 ± 4.70E+04	-0.28 ± 1.05	105
2	T	G	Nabis kinbergii [adult] → Acyrthosiphon pisum [final instar]	4.86E-05	6.00E-07	1.63E-06	2.57E-11	1.58E-05	5.08E-11	1.89E-04	0.977	2.02E-06 ± 2.24E-04	-4.58E+05 ± 5.50E+07	-0.99 ± 1.05	106
2	T	A	Nabis kinbergii [adult] → Sidnia kinbergi [instar 4-5]	4.86E-05	2.00E-06	1.03E-06	5.41E-11	5.26E-05	1.69E-10	6.32E-04	0.995	4.44E-06 ± 8.81E-06	3.11E+03 ± 1.62E+04	-0.43 ± 0.65	106
2	T	G	Nabis kinbergii [instar 5] → Acyrthosiphon pisum [final instar]	3.76E-06	6.00E-07	7.06E-07	1.12E-11	1.58E-05	3.52E-11	1.89E-04	0.942	4.62E-06 ± 2.12E-05	-1.68E+04 ± 3.31E+05	-0.68 ± 2.47	106
2	T	A	Nabis kinbergii [instar 5] → Sidnia kinbergi [instar 4-5]	3.76E-06	2.00E-06	1.06E-07	5.58E-12	5.26E-05	7.45E-11	6.32E-04	0.985	1.19E-10 ± 1.73E-09	2.62E+04 ± 1.11E+04	1.75 ± 3.21	106
2	T	A	Neoseiulus barkeri [adult] → Tetranychus urticae [adult]	1.98E-08	1.95E-08	6.50E-09	1.32E-13	2.03E-05	3.23E-13	1.62E-04	0.970	2.79E-07 ± 1.35E-05	1.61E+04 ± 1.10E+06	-0.51 ± 7.99	107
2	T	G	Neoseiulus barkeri [adult] → Tetranychus urticae [egg]	1.98E-08	1.44E-09	6.65E-09	4.98E-14	7.48E-06	4.41E-13	1.20E-04	0.977	3.00E-10 ± 3.68E-09	2.26E+03 ± 2.27E+03	0.33 ± 1.26	107
2	T	A	Neoseiulus barkeri [adult] → Tetranychus urticae [nymph]	1.98E-08	1.08E-08	7.24E-09	4.06E-13	5.61E-05	2.41E-12	4.49E-04	0.999	2.71E-08 ± 3.49E-07	1.83E+02 ± 1.24E+04	-0.15 ± 1.47	107
2	T	G	Odocoileus hemionus [juvenile (1 yr)] → Sedges & grasses [tiller]	4.20E+01	1.95E-03	1.14E-03	3.29E-06	2.89E-03	2.67E-05	1.51E-01	0.732	2.10E-03 ± 4.87E-03	9.13E+01 ± 1.30E+01	0.65 ± 2.26	92
2	T	G	Odocoileus hemionus sitkensis [adult] → Rubus pedatus [adult]	4.80E+01	1.78E-04	1.49E-01	1.11E-05	7.47E-05	2.73E-05	1.23E-03	0.603	8.88E-02 ± 2.03E-01	1.89 ± 2.61E+01	-0.77 ± 0.75	108
2	T	G	Odocoileus hemionus sitkensis [adult] → Tsuga heterophylla [shoot]	4.80E+01	2.50E-01	4.01E-02	3.95E-05	9.84E-04	7.24E-05	1.26E-02	0.675	5.10E+01 ± 8.82E+02	4.06E+03 ± 4.40E+02	1.17 ± 3.22	108
2	T	G	Odocoileus virginianus [juvenile (1 yr)] → Acer rubrum [unbranched shoot]	6.70E+01	8.02E-04	8.59E-01	1.83E-05	2.13E-05	3.39E-05	6.18E-04	0.946	3.30E-02 ± 1.93	-7.46 ± 1.79E+03	-0.86 ± 6.36	84

D	Hab	For	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)	Scarce resources: Search rate	Scarce resources: Consumption rate	Scarce resources: Resource density	Abundant resources: Consumption rate	Abundant resources: Resource density	Fitted FR: R^2	Fitted FR: α (±95% CI)	Fitted FR: t_h (±95% CI)	Fitted FR: q (±95% CI)	Ref
2	T	G	Odocoileus virginianus [juvenile] → Acer rubrum [unbranched shoot]	4.10E+01	8.02E-04	5.15E-01	1.10E-05	2.13E-05	4.39E-05	6.18E-04	0.998	4.64 ± 2.89E+01	1.82E+01 ± 6.36	0.52 ± 1.99	84
2	T	G	Orius insidiosus [adult] → Panonychus ulmi [adult]	5.64E-07	1.95E-08	3.69E-08	1.16E-12	3.14E-05	4.19E-12	5.02E-04	0.955	4.83E-09 ± 8.90E-08	4.55E+03 ± 3.04E+03	0.32 ± 2.36	109
2	T	S	Paratenodera angustipennis [instar 7] → Musca domestica [adult]	4.00E-03	1.63E-05	1.56E-06	2.24E-10	1.43E-04	1.36E-09	1.86E-03	0.972	3.58E-06 ± 1.86E-05	-1.40E+03 ± 6.34E+04	-0.36 ± 2.04	110
2	T	A	Pardosa pseudoannulata [adult female] → Cyrtorhinus lividipennis [adult female]	1.46E-04	3.39E-06	9.09E-07	7.09E-11	7.79E-05	4.67E-10	9.35E-04	0.983	7.62E-08 ± 5.82E-07	6.48E+03 ± 3.43E+03	0.78 ± 1.92	111
2	T	A	Pardosa pseudoannulata [adult female] → Nilaparvata lugens [adult female]	1.46E-04	9.07E-07	2.65E-07	5.52E-12	2.09E-05	3.82E-11	8.34E-05	0.953	5.77E-13 ± 3.72E-11	2.49E+04 ± 9.54E+03	3.67 ± 16.87	111
2	T	A	Pardosa T-insignita [instar 4] → Drosophila melanogaster [wingless adult female]	2.05E-06	6.94E-07	1.96E-06	1.75E-11	8.93E-06	5.82E-11	4.46E-05	0.620	1.01E-07 ± 2.06E-06	1.48E+04 ± 8.23E+03	1.36 ± 7.29	112
2	T	A	Pardosa T-insignita [instar 4] → Drosophila melanogaster [wingless adult female]	4.25E-06	6.94E-07	1.72E-06	1.54E-11	8.93E-06	3.84E-11	7.14E-05	0.944	5.18E-07 ± 4.40E-06	1.86E+04 ± 7.82E+03	0.67 ± 3.11	112
2	T	A	Pardosa vancouveri Emerton [adult] → Drosophila melanogaster [wingless adult]	7.61E-06	6.94E-07	7.31E-07	1.87E-11	2.56E-05	4.81E-11	2.56E-04	0.949	2.99E-07 ± 2.67E-06	1.42E+04 ± 6.34E+03	0.36 ± 2.27	113
2	T	G	Perdix perdix [adult] → Triticum spp. [seed]	3.90E-01	3.40E-05	1.79E-02	3.05E-06	1.70E-04	9.01E-06	1.36E-02	0.960	6.23E-02 ± 3.97E-02	1.92 ± 3.97	-0.63 ± 0.44	114
2	T	A	Pergamasus crassipes [adult male] → Onychiurus armatus [adult]	3.06E-07	3.14E-07	1.38E-07	5.54E-11	4.00E-04	3.76E-10	1.00E-02	0.974	5.82E-08 ± 4.01E-07	7.96E+02 ± 2.67E+02	0.17 ± 0.86	115
2	T	G	Peromyscus maniculatus [adult] → Neodiprion sertifer [cocoon]	2.00E-02	5.35E-05	7.57E-06	2.45E-09	3.24E-04	2.58E-08	5.38E-03	0.984	4.36E-08 ± 4.77E-07	2.00E+03 ± 6.69E+02	1.92 ± 3.45	116
2	T	G	Peromyscus maniculatus [adult] → Triticum spp. [seed]	2.00E-02	4.00E-05	2.35E-06	3.80E-10	1.61E-04	6.40E-09	1.29E-03	0.996	7.11E-08 ± 3.09E-07	6.12E+03 ± 6.63E+02	2.30 ± 1.76	117
2	T	A	Phytoseiulus persimilis [adult] → Tetranychus pacificus [juvenile]	1.98E-08	1.89E-09	1.13E-08	4.00E-14	3.54E-06	2.15E-13	1.42E-04	0.970	7.91E-10 ± 4.77E-09	8.81E+03 ± 1.49E+03	0.39 ± 0.73	85
2	T	A	Phytoseiulus persimilis [adult] → Tetranychus urticae [adult]	1.98E-08	1.95E-08	2.34E-09	9.11E-14	3.90E-05	2.71E-13	1.37E-03	0.920	8.29E-09 ± 9.59E-08	7.17E+04 ± 4.07E+04	-0.12 ± 1.43	118
2	T	A	Podisus maculiventris [adult] → Spodoptera exigua [instar 4]	1.00E-04	2.00E-05	1.38E-07	1.79E-10	1.30E-03	1.55E-09	2.08E-02	0.992	1.82E-09 ± 9.03E-09	1.22E+04 ± 1.84E+03	0.91 ± 0.91	119
2	T	A	Podisus nigrispinus [adult] → Spodoptera exigua [instar 4]	7.00E-05	2.00E-05	1.38E-07	1.79E-10	1.30E-03	2.32E-09	4.16E-02	0.999	9.67E-08 ± 1.29E-07	5.75E+03 ± 1.61E+03	0.07 ± 0.24	119
2	T	A	Repipta flavicans [adult female] → Acalymma blomorum [adult]	1.29E-05	5.46E-06	3.67E-07	3.43E-11	9.34E-05	9.91E-11	2.80E-03	0.905	3.59E-06 ± 7.04E-06	9.65E+03 ± 3.24E+05	-0.71 ± 1.39	120
2	T	G	Serinus canaria [adult] → seeds (Phalaris canariensis) [seed]	1.75E-02	6.50E-06	9.01E-04	4.93E-08	5.47E-05	2.25E-07	6.57E-04	0.997	3.97E-04 ± 7.38E-04	2.54E+01 ± 6.17	0.44 ± 0.68	121
2	T	G	Stethorus punctum [adult] → Panonychus ulmi [adult]	2.33E-07	1.95E-08	6.59E-07	3.12E-12	4.73E-06	1.60E-11	3.55E-05	0.979	2.78E-06 ± 2.97E-05	-6.64E+01 ± 4.89E+03	-0.25 ± 1.90	122
2	T	A	Surnia ulula [adult] → Lepus americanus	3.24E-01	2.20E-01	4.33E-03	1.84E-07	4.24E-05	1.27E-06	8.96E-05	0.956	7.68E+13	1.57E+05	4.29	123

D	Hab	For	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)	Scarce resources			Abundant resources		Fitted FR				Ref
						Search rate	Consumption rate	Resource density	Consumption rate	Resource density	R^2	α (±95% CI)	t_h (±95% CI)	q (±95% CI)	
			[juvenile]									± 2.68E+16	± 4.90E+05	± 41.27	
2	T	A	Surnia ulula [adult] → Microtus spp. [adult]	3.24E-01	4.00E-02	7.63E-04	3.09E-09	4.05E-06	5.78E-07	1.90E-05	0.996	4.63E+13 ± 1.65E+15	6.40E+04 ± 1.77E+04	4.22 ± 4.33	123
2	T	S	Tenodera sinensis [instar 1] → Drosophila melanogaster [adult]	6.08E-06	7.67E-07	1.07E-07	2.19E-12	2.04E-05	8.63E-12	3.09E-03	0.997	2.91E-08 ± 3.76E-08	8.75E+04 ± 6.26E+03	0.46 ± 0.33	124
3	F	A	Abramis brama Linneaus [juvenile] → Daphnia magna	3.58E-03	2.78E-07	1.36E-06	4.87E-10	3.57E-04	1.03E-08	9.33E-03	0.996	3.94E-08 ± 1.22E-07	2.06E+01 ± 4.77	0.47 ± 0.36	125
3	F	A	Alosa pseudoharengus [juvenile] → Artemia spp. [adult]	1.22E-06	1.00E-08	4.75E-08	2.81E-11	5.90E-04	1.40E-10	6.82E-03	0.964	3.33E-08 ± 5.36E-07	4.03E+01 ± 8.97E+01	0.03 ± 1.40	126
3	F	A	Alosa pseudoharengus [juvenile] → Artemia spp. [adult]	1.68E-05	1.00E-08	7.71E-06	1.15E-09	1.49E-04	4.54E-09	9.89E-03	0.699	4.03E-04 ± 7.36E-03	2.45E-01 ± 1.07E+01	-0.48 ± 1.71	126
3	F	A	Alosa pseudoharengus [juvenile] → Artemia spp. [adult]	7.49E-05	1.00E-08	8.09E-06	1.57E-09	1.94E-04	1.15E-08	7.18E-03	0.914	6.42E-03 ± 1.71E-01	-1.37 ± 2.91E+01	-0.69 ± 2.92	126
3	F	A	Alosa pseudoharengus [juvenile] → Artemia spp. [adult]	2.17E-04	1.00E-08	1.32E-04	3.31E-09	2.51E-05	1.89E-08	7.67E-03	0.984	3.52E-02 ± 1.79E-01	1.66E-01 ± 1.33	-0.68 ± 0.61	126
3	F	S	Anomalagrion hastatum [final instar] → Daphnia magna	2.64E-06	2.21E-07	6.27E-08	4.15E-11	6.63E-04	1.34E-10	1.39E-02	0.838	6.76E-08 ± 1.36E-06	1.71E+03 ± 1.48E+03	0.04 ± 2.41	127
3	F	S	Anomalagrion hastatum [final instar] → Simocephalus vetulus	2.64E-06	3.37E-07	3.83E-08	3.88E-11	1.01E-03	1.37E-10	2.12E-02	0.863	3.16E-06 ± 8.42E-05	-2.64E+05 ± 8.69E+06	-0.98 ± 0.54	127
3	F	A	Brachionus calyciflorus[adult female] → Monoraphidium minutum	1.20E-09	2.00E-14	4.40E-13	2.53E-16	5.74E-04	4.88E-14	9.98E-03	0.758	6.41E-16 ± 1.03E-14	4.93E-01 ± 1.70E-01	0.34 ± 0.62	128
3	F	A	Chalcalburnus chalcoides → Bythotrephes longimanus [adult]	3.70E-03	3.14E-07	5.05E-05	3.17E-08	6.28E-04	1.85E-07	6.28E-03	0.946	9.68E-12 ± 3.19E-10	1.59 ± 6.54E-01	1.84 ± 3.79	129
3	F	A	Chalcalburnus chalcoides → Cyclops spp.	3.70E-03	3.37E-08	2.23E-05	1.50E-09	6.74E-05	1.23E-08	8.43E-04	0.994	7.20E-07 ± 3.99E-06	1.70 ± 1.08	0.39 ± 0.64	129
3	F	A	Chalcalburnus chalcoides → Daphnia hyalina	3.70E-03	7.01E-08	5.70E-05	7.99E-09	1.40E-04	4.40E-08	1.75E-03	0.936	1.45E-09 ± 3.14E-08	1.47 ± 5.22E-01	1.27 ± 2.47	129
3	F	A	Chalcalburnus chalcoides → Leptodora kindtii [subadult]	3.70E-03	1.48E-05	2.71E-05	8.03E-07	2.96E-02	3.43E-06	2.96E-01	0.965	1.21E-06 ± 1.54E-05	3.32 ± 2.64	0.39 ± 1.53	129
3	F	S	Chaoborus americanus [instar 4] → Cyclops vernalis	2.15E-06	2.11E-08	3.54E-08	3.73E-12	1.06E-04	6.14E-11	2.53E-03	0.976	3.50E-07 ± 2.56E-06	-3.88E+01 ± 6.12E+02	-0.24 ± 0.75	130
3	F	S	Chaoborus americanus [instar 4] → Daphnia pulex	2.15E-06	7.69E-08	4.61E-08	1.77E-11	3.85E-04	8.51E-11	4.61E-03	0.797	6.82E-09 ± 1.42E-07	9.20E+02 ± 9.48E+02	0.19 ± 2.21	130
3	F	S	Chaoborus americanus [instar 4] → Daphnia rosea [adult]	2.15E-06	9.67E-08	3.35E-08	1.62E-11	4.84E-04	1.80E-10	1.16E-02	0.989	1.55E-09 ± 8.54E-09	4.60E+02 ± 1.23E+02	0.36 ± 0.56	130
3	F	S	Chaoborus americanus [instar 4] → Diaptomus birgei [adult]	2.15E-06	1.56E-08	3.54E-08	2.76E-12	7.80E-05	5.29E-11	1.87E-03	0.995	1.71E-10 ± 8.76E-10	2.25E+02 ± 6.85E+01	0.56 ± 0.50	130
3	F	S	Chaoborus americanus [instar 4] → Diaptomus leptopus [adult]	2.15E-06	1.02E-07	3.54E-08	1.80E-11	5.10E-04	1.29E-10	1.22E-02	0.963	3.73E-09 ± 3.52E-08	6.68E+02 ± 3.46E+02	0.25 ± 0.98	130
3	F	S	Chaoborus americanus [instar 4] → Diaptomus tyrelli [adult]	3.33E-06	1.93E-08	9.11E-09	1.25E-12	1.37E-04	5.98E-12	3.49E-03	0.999	2.01E-09 ± 2.66E-08	3.00E+03 ± 1.55E+03	0.20 ± 1.37	131
3	F	S	Chaoborus americanus [instar 4] → Holopedium gibberum [adult]	2.15E-06	1.07E-07	7.77E-09	4.16E-12	5.35E-04	1.03E-10	2.14E-03	0.227	2.63E-16 ± 5.53E-14	2.40E+03 ± 2.28E+03	2.06 ± 22.96	130

D	Hab	For	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)	Scarce resources			Abundant resources		Fitted FR				Ref
						Search rate	Consumption rate	Resource density	Consumption rate	Resource density	R^2	*α* (±95% CI)	t_h (±95% CI)	*q* (±95% CI)	
3	F	S	Chaoborus americanus [instar 4] → Moina hutchinsoni [adult]	2.15E-06	1.30E-08	4.76E-08	3.09E-12	6.50E-05	4.05E-11	1.04E-03	0.953	5.30E-14 ± 1.18E-12	3.39E+02 ± 8.98E+01	1.42 ± 2.22	130
3	F	S	Chaoborus trivittatus [instar 4 - 2nd yr] → Diaptomus tyrelli [adult]	4.72E-06	1.93E-08	4.40E-09	7.14E-13	1.62E-04	8.90E-12	3.74E-03	0.993	3.94E-13 ± 3.49E-11	2.01E+03 ± 2.51E+03	0.97 ± 8.37	131
3	F	S	Coenagrion resolutum [nymph] → Daphnia magna	1.89E-06	3.35E-08	1.33E-09	1.78E-13	1.34E-04	1.10E-10	2.55E-03	-1.524	3.90E-07 ± 5.71E-05	-1.22E+04 ± 4.18E+05	-0.53 ± 16.03	132
3	F	S	Coenagrion resolutum [nymph] → Daphnia magna	3.86E-06	1.29E-07	7.39E-08	3.81E-11	5.16E-04	3.85E-10	1.29E-02	0.884	6.37E-13 ± 1.18E-11	4.00E+02 ± 6.07E+01	1.30 ± 1.91	132
3	F	S	Coenagrion resolutum [nymph] → Daphnia magna	6.37E-06	2.73E-07	1.23E-07	1.34E-10	1.09E-03	1.21E-09	1.20E-02	0.864	1.40E-10 ± 3.48E-09	2.45E+02 ± 1.26E+02	0.80 ± 2.64	132
3	F	A	Coregonus albula [juvenile] → Daphnia magna	9.61E-03	1.56E-07	7.68E-04	3.00E-08	3.90E-05	3.02E-07	1.25E-03	0.992	3.09E-04 ± 1.24E-03	4.74E-01 ± 1.29E-01	0.22 ± 0.61	133
3	F	A	Coregonus fontanae → Daphnia magna	5.99E-03	1.56E-07	7.13E-04	2.78E-08	3.90E-05	2.38E-07	1.25E-03	0.984	1.85E-04 ± 1.06E-03	6.30E-01 ± 2.01E-01	0.28 ± 0.87	133
3	F	A	Coregonus hoyi [juvenile] → Artemia spp. [adult]	4.43E-06	1.00E-08	9.91E-08	2.13E-11	2.15E-04	1.36E-10	7.82E-03	0.822	1.44E-11 ± 2.70E-10	8.09E+01 ± 1.31E+01	0.92 ± 1.75	126
3	F	A	Coregonus hoyi [juvenile] → Artemia spp. [adult]	1.83E-05	1.00E-08	1.04E-05	2.17E-09	2.09E-04	5.51E-09	2.41E-03	0.621	1.20E-09 ± 3.27E-08	2.14 ± 4.42E-01	0.96 ± 2.64	126
3	F	A	Coregonus hoyi [juvenile] → Artemia spp. [adult]	1.02E-04	1.00E-08	3.23E-05	8.47E-10	2.63E-05	1.12E-08	7.87E-03	0.990	1.71E-06 ± 2.83E-05	9.29E-01 ± 1.98E-01	0.33 ± 1.72	126
3	F	A	Coregonus hoyi [juvenile] → Artemia spp. [adult]	3.73E-04	1.00E-08	6.95E-03	6.57E-09	9.45E-07	3.27E-08	4.68E-03	0.844	1.47E-03 ± 9.65E-03	3.34E-01 ± 1.20E-01	-0.22 ± 0.72	126
3	F	A	Cyclops abyssorum → Askenasia volvox	2.04E-08	3.35E-11	5.24E-10	1.38E-14	2.62E-05	3.39E-13	5.90E-03	0.999	1.10E-05 ± 4.67E-05	-1.35E+03 ± 2.35E+03	-0.78 ± 0.31	134
3	F	A	Cyclops abyssorum → Coleps hirtus	2.04E-08	1.13E-10	7.59E-11	4.67E-14	6.15E-04	1.29E-13	2.27E-02	0.883	2.17E-05 ± 1.97E-04	-6.94E+02 ± 8.67E+03	-0.82 ± 0.75	134
3	F	A	Cyclops abyssorum → Halteria grandinella	2.04E-08	5.58E-12	6.59E-11	1.89E-15	2.86E-05	2.60E-14	8.49E-04	0.870	9.31E-13 ± 3.33E-11	-5.45E+01 ± 8.01E+02	0.16 ± 2.02	134
3	F	A	Cyclops abyssorum → Stokesia vernalis	2.04E-08	9.05E-10	6.61E-11	1.53E-13	2.32E-03	4.83E-12	9.22E-02	0.583	1.60E-11 ± 8.96E-10	1.85E+02 ± 5.86E+02	0.10 ± 3.33	134
3	F	A	Cyclops abyssorum → Strobilidium velox	2.04E-08	6.54E-11	3.38E-10	6.98E-14	2.06E-04	4.47E-12	1.32E-02	0.998	2.02E-13 ± 1.01E-12	8.73 ± 2.72	0.43 ± 0.28	134
3	F	A	Cyclops kolensis → Askenasia volvox	3.70E-09	3.35E-11	1.28E-09	3.36E-14	2.62E-05	6.49E-13	5.88E-03	0.994	6.74E-11 ± 8.12E-10	3.94 ± 5.85E+01	0.03 ± 0.70	134
3	F	A	Cyclops kolensis → Coleps hirtus	3.70E-09	1.13E-10	1.41E-10	4.27E-14	3.03E-04	4.59E-14	1.68E-02	0.311	2.10E-05 ± 3.76E-02	-4.37E+04 ± 8.53E+07	-1.00 ± 2.85	134
3	F	A	Cyclops kolensis → Halteria grandinella	3.70E-09	5.58E-12	1.35E-10	7.30E-15	5.42E-05	4.87E-14	8.40E-04	0.867	3.81E-07 ± 1.40E-05	-1.46E+02 ± 1.52E+03	-0.52 ± 2.23	134
3	F	A	Cyclops kolensis → Stokesia vernalis	3.70E-09	9.05E-10	1.74E-10	7.57E-13	4.35E-03	6.58E-12	1.14E-01	0.811	3.88E-05 ± 5.71E-04	-2.18E+04 ± 3.97E+05	-0.99 ± 0.19	134
3	F	A	Cyclops kolensis → Strobilidium velox	3.70E-09	6.54E-11	2.93E-09	3.88E-13	1.32E-04	9.18E-13	9.83E-03	0.639	5.95E-05 ± 6.16E-04	-1.53E+04 ± 1.79E+05	-1.00 ± 0.07	134
3	F	A	Daphnia magna → Chlamydomonas	2.33E-07	3.00E-13	7.89E-10	2.43E-13	3.07E-04	2.70E-12	1.45E-01	0.670	3.78E-15	1.53E-01	0.61	135

D	Hab	For	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)	Scarce resources: Search rate	Scarce resources: Consumption rate	Scarce resources: Resource density	Abundant resources: Consumption rate	Abundant resources: Resource density	Fitted FR: R^2	Fitted FR: *α* (±95% CI)	Fitted FR: t_h (±95% CI)	Fitted FR: *q* (±95% CI)	Ref
			reinhardtii									± 1.96E-13	± 2.87E-02	± 2.36	
3	F	A	Daphnia pulicaria → Scenedesmus acutus	7.98E-08	8.53E-13	1.69E-10	5.94E-12	3.52E-02	4.59E-11	7.38E-01	0.971	7.81E-17 ± 2.87E-15	1.90E-02 ± 3.63E-03	0.60 ± 1.44	136
3	F	A	Eretes griseus [adult] → Culex tritaeniorhynchus [instar 4]	6.20E-05	2.14E-07	6.30E-10	1.35E-11	2.14E-02	3.11E-10	6.85E-01	1.000	7.63E-11 ± 1.64E-10	3.75E+02 ± 9.76E+01	0.17 ± 0.16	137
3	F	A	Eucyclops subterraneus scythicus [adult] → Panagrolaimus spp. [adult]	1.16E-08	3.27E-10	4.58E-10	5.00E-13	1.09E-03	5.23E-12	2.18E-02	0.959	1.84E-13 ± 5.93E-12	5.18E+01 ± 4.08E+01	0.51 ± 1.98	138
3	F	A	Eucyclops subterraneus scythicus [adult] → Poikilolaimus spp. [adult]	1.14E-08	3.27E-10	7.00E-10	7.63E-13	1.09E-03	8.15E-12	1.64E-02	0.875	7.09E-15 ± 3.10E-13	4.67E+01 ± 2.30E+01	0.75 ± 2.69	138
3	F	A	Gymnocephalus cernuus [adult] → Chaoborus obscuripes [instar 4]	1.38E-02	2.45E-05	3.06E-04	1.50E-06	4.90E-03	8.73E-06	1.96E-01	0.984	5.99E-04 ± 2.60E-03	2.16 ± 1.32	-0.11 ± 0.68	139
3	F	A	Hydaticus grammicus [adult] → Culex tritaeniorhynchus [instar 4]	2.61E-05	2.14E-07	4.16E-10	4.46E-12	1.07E-02	6.52E-11	1.71E-01	0.998	4.90E-12 ± 3.82E-11	2.20E+03 ± 1.23E+03	0.40 ± 0.65	137
3	F	S	Ischnura elegans elegans [instar 11] → Daphnia magna [adult]	2.28E-06	1.01E-07	1.34E-09	1.56E-11	1.17E-02	6.19E-11	1.08E-01	0.934	2.83E-12 ± 3.43E-11	1.71E+03 ± 4.16E+02	0.54 ± 0.99	140
3	F	S	Lestes disjunctus [nymph] → Daphnia magna	1.89E-06	3.35E-08	1.03E-07	1.38E-11	1.34E-04	1.29E-10	1.74E-03	0.538	2.36E-14 ± 1.25E-12	3.62E+02 ± 7.97E+01	1.80 ± 5.70	132
3	F	S	Lestes disjunctus [nymph] → Daphnia magna	4.01E-06	1.29E-07	2.17E-07	1.12E-10	5.16E-04	5.70E-10	7.74E-03	0.667	1.36E-09 ± 2.41E-08	2.84E+02 ± 6.52E+01	0.64 ± 1.95	132
3	F	S	Lestes disjunctus [nymph] → Daphnia magna	5.60E-06	2.73E-07	1.73E-07	1.89E-10	1.09E-03	1.40E-09	1.64E-02	0.767	9.80E-12 ± 2.33E-10	2.31E+02 ± 5.96E+01	1.06 ± 2.45	132
3	F	S	Notonecta maculata [instar 1] → Daphnia magna	1.10E-06	2.74E-07	3.71E-09	2.03E-11	5.48E-03	1.62E-10	6.58E-02	0.972	1.89E-09 ± 2.55E-08	1.27E+03 ± 1.25E+03	0.12 ± 1.27	141
3	F	S	Notonecta maculata [instar 2] → Daphnia magna	2.70E-06	2.74E-07	1.48E-08	8.12E-11	5.48E-03	3.50E-10	6.58E-02	0.982	4.39E-09 ± 4.32E-08	6.96E+02 ± 2.76E+02	0.16 ± 0.95	141
3	F	S	Notonecta maculata [instar 3] → Daphnia magna	8.82E-06	2.74E-07	3.80E-08	2.08E-10	5.48E-03	7.92E-10	6.58E-02	0.949	2.12E-08 ± 3.49E-07	2.87E+02 ± 2.66E+02	0.07 ± 1.58	141
3	F	S	Notonecta maculata [instar 4] → Daphnia magna	2.16E-05	2.74E-07	4.63E-08	2.54E-10	5.48E-03	1.07E-09	8.77E-02	0.989	1.06E-06 ± 6.98E-06	1.48E+02 ± 2.06E+02	-0.28 ± 0.65	141
3	F	S	Notonecta maculata [instar 5] → Daphnia magna	5.84E-05	2.74E-07	2.50E-08	1.37E-10	5.48E-03	1.25E-09	8.77E-02	0.986	7.79E-09 ± 7.73E-08	1.73E+02 ± 1.09E+02	0.17 ± 0.93	141
3	F	A	Parabroteas sarsi [adult] → Bosmina longirostris [adult]	1.33E-05	2.24E-09	2.09E-08	9.37E-13	4.48E-05	4.30E-12	1.79E-04	0.979	6.63E-14 ± 1.14E-12	4.74E+02 ± 1.24E+02	1.30 ± 1.65	142
3	F	A	Parabroteas sarsi [adult] → Ceriodaphnia dubia [adult]	1.33E-05	1.01E-08	2.95E-08	5.96E-12	2.02E-04	1.58E-11	7.07E-04	0.939	3.13E-05 ± 2.28E-04	-1.24E+04 ± 7.79E+05	-0.92 ± 4.71	142
3	F	A	Parabroteas sarsi [adult] → Daphnia ambigua	1.33E-05	8.94E-09	2.36E-08	4.23E-12	1.79E-04	1.19E-11	7.15E-04	0.797	1.32E-08 ± 1.15E-06	3.76E+02 ± 6.05E+03	0.07 ± 8.97	142
3	F	A	Parabroteas sarsi [adult] → Daphnia middendorffiana	1.33E-05	4.13E-07	7.14E-09	5.90E-11	8.26E-03	1.28E-10	3.22E-02	0.797	1.33E-10 ± 4.82E-08	2.30E+03 ± 4.79E+04	0.42 ± 36.74	142
3	F	A	Perca flavescens [juvenile] → Artemia spp. [adult]	3.70E-06	1.00E-08	8.24E-08	3.66E-11	4.44E-04	2.04E-10	5.36E-03	0.798	1.82E-08 ± 1.11E-06	3.72E+01 ± 1.54E+02	0.10 ± 5.06	126
3	F	A	Perca flavescens [juvenile] → Artemia spp. [adult]	2.85E-05	1.00E-08	3.90E-06	8.12E-10	2.08E-04	2.36E-09	7.02E-03	0.957	1.30E-04 ± 8.78E-03	3.75 ± 1.97E+01	-0.31 ± 6.66	126

D	Hab	For	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)	Scarce resources			Abundant resources		Fitted FR				Ref
						Search rate	Consumption rate	Resource density	Consumption rate	Resource density	R^2	α (±95% CI)	t_h (±95% CI)	q (±95% CI)	
3	F	A	Perca flavescens [juvenile] → Artemia spp. [adult]	1.02E-04	1.00E-08	3.01E-06	3.00E-09	9.96E-04	7.97E-09	7.74E-03	0.911	2.78E-03 ± 1.10E-01	-7.76E-01 ± 2.95E+01	-0.62 ± 3.95	126
3	F	A	Perca flavescens [juvenile] → Artemia spp. [adult]	3.73E-04	1.00E-08	7.82E-06	3.05E-09	3.90E-04	2.39E-08	8.74E-03	0.906	1.10E-09 ± 5.88E-08	4.68E-01 ± 2.83E-01	0.89 ± 4.75	126
3	F	A	Perca fluviatilis [adult] → Chaoborus obscuripes [instar 4]	1.69E-02	2.45E-05	1.76E-03	8.64E-06	4.90E-03	3.20E-05	1.96E-01	0.972	1.41E-04 ± 9.11E-04	7.73E-01 ± 1.26E-01	0.53 ± 1.09	139
3	F	S	Ranatra dispar [adult] → Anisops deanei [adult]	2.88E-04	1.24E-05	6.14E-09	3.05E-10	4.97E-02	2.39E-09	6.22E-01	0.984	2.72E-10 ± 2.15E-08	3.63E+03 ± 2.04E+04	0.36 ± 8.35	143
3	F	S	Ranatra dispar [instar 5] → Anisops deanei [adult]	2.77E-04	6.71E-06	2.00E-07	5.37E-09	2.68E-02	1.50E-08	3.36E-01	1.000	1.09E-09 ± 1.98E-09	4.34E+02 ± 1.46E+01	0.68 ± 0.21	144
3	F	S	Ranatra dispar [instar 5] → Anisops deanei [instar 1-2]	2.77E-04	5.35E-07	2.30E-07	4.91E-10	2.14E-03	5.41E-09	2.68E-02	1.000	2.33E-07 ± 5.10E-07	8.02 ± 3.60E+01	-0.01 ± 0.24	144
3	F	S	Ranatra dispar [instar 5] → Anisops deanei [instar 3]	2.77E-04	1.12E-06	2.41E-07	1.08E-09	4.48E-03	1.16E-08	5.60E-02	0.999	6.70E-07 ± 3.08E-06	-1.21E+01 ± 9.88E+01	-0.12 ± 0.51	144
3	F	S	Ranatra dispar [instar 5] → Anisops deanei [instar 4]	2.77E-04	1.72E-06	2.01E-07	1.38E-09	6.88E-03	9.10E-09	8.60E-02	0.983	2.58E-11 ± 5.80E-10	1.73E+02 ± 7.18E+01	1.04 ± 2.42	144
3	F	S	Ranatra dispar [instar 5] → Anisops deanei [instar 5]	2.77E-04	2.72E-06	2.07E-07	2.25E-09	1.09E-02	1.02E-08	1.36E-01	0.965	1.07E-07 ± 1.95E-06	2.04E+02 ± 2.96E+02	0.11 ± 2.05	144
3	F	A	Rhantus suturalis [adult] → Culex tritaeniorhynchus [instar 4]	4.61E-05	2.14E-07	6.28E-10	1.34E-11	2.14E-02	1.54E-10	3.42E-01	1.000	1.36E-10 ± 1.23E-10	7.08E+02 ± 9.25E+01	0.13 ± 0.07	137
3	F	A	Salvelinus alpinus [juvenile] → Daphnia longispina	6.50E-04	7.01E-08	1.80E-03	3.15E-08	1.75E-05	9.18E-08	2.80E-04	0.911	3.39E-02 ± 1.76E-01	9.75E-02 ± 2.43	-0.56 ± 1.00	145
3	F	A	Salvelinus alpinus [juvenile] → Daphnia longispina	1.80E-03	7.01E-08	2.69E-03	3.84E-08	1.43E-05	1.46E-07	3.51E-04	0.962	1.13E-03 ± 4.37E-03	4.77E-01 ± 8.95E-02	0.20 ± 0.64	145
3	F	A	Salvelinus alpinus [juvenile] → Daphnia longispina	5.90E-03	7.01E-08	1.74E-03	3.06E-08	1.75E-05	1.43E-07	2.81E-04	0.474	4.28E-05 ± 1.11E-03	6.44E-01 ± 3.69E-01	0.67 ± 4.15	145
3	F	A	Salvelinus alpinus [juvenile] → Daphnia longispina	9.40E-03	7.01E-08	4.00E-03	3.50E-08	8.76E-06	1.73E-07	2.10E-04	0.907	3.39E-03 ± 2.27E-02	3.90E-01 ± 2.90E-01	0.00 ± 1.15	145
3	F	A	Salvelinus alpinus [juvenile] → Daphnia longispina	1.50E-02	7.01E-08	2.22E-03	3.89E-08	1.75E-05	1.45E-07	4.21E-04	0.974	1.04E-03 ± 3.42E-03	4.60E-01 ± 7.85E-02	0.17 ± 0.52	145
3	F	A	Salvelinus alpinus [juvenile] → Daphnia longispina	7.50E-04	1.98E-08	9.71E-04	4.81E-09	4.95E-06	2.49E-08	7.92E-05	0.866	5.38E-02 ± 3.23E-01	-1.68 ± 2.11E+01	-0.76 ± 1.75	145
3	F	A	Salvelinus alpinus [juvenile] → Daphnia longispina	6.00E-03	1.98E-08	1.20E-03	5.96E-09	4.95E-06	2.91E-08	5.94E-05	0.936	3.91E-04 ± 3.52E-03	4.93E-01 ± 5.25E-01	0.17 ± 1.40	145
3	F	A	Salvelinus alpinus [juvenile] → Daphnia longispina	9.00E-03	1.98E-08	1.12E-03	5.54E-09	4.95E-06	2.81E-08	2.97E-05	0.814	2.35E-07 ± 7.92E-06	8.10E-01 ± 5.06E-01	1.40 ± 5.33	145
3	F	A	Salvelinus alpinus [juvenile] → Daphnia longispina	1.40E-02	1.98E-08	1.39E-03	6.87E-09	4.95E-06	3.41E-08	5.94E-05	0.704	3.15E-04 ± 6.78E-03	5.87E-01 ± 1.35	0.19 ± 3.35	145
3	F	A	Sander vitreus [juvenile] → Cyprinus carpio [juvenile]	2.85E-05	1.09E-06	5.78E-05	9.45E-10	1.64E-05	2.01E-09	7.09E-05	0.788	7.90E-06 ± 1.04E-04	5.22E+02 ± 4.15E+02	0.84 ± 4.55	68
3	F	A	Sander vitreus [juvenile] → Cyprinus carpio [juvenile]	1.02E-04	3.00E-06	4.91E-05	2.21E-09	4.50E-05	9.06E-09	2.79E-04	0.843	1.14E-05 ± 8.22E-04	-8.38E+04 ± 6.28E+06	-0.99 ± 0.65	68
3	F	A	Sander vitreus [juvenile] → Daphnia spp.	2.85E-05	4.64E-08	2.74E-05	6.35E-10	2.32E-05	1.24E-09	2.32E-03	0.794	3.61E-04	-2.63E+03	-1.00	68

D	Hab	For	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)	Scarce resources			Abundant resources		Fitted FR				Ref
						Search rate	Consumption rate	Resource density	Consumption rate	Resource density	R^2	*α* (±95% CI)	t_h (±95% CI)	*q* (±95% CI)	
												± 6.98E-02	± 5.35E+05	± 0.68	
3	F	A	Sander vitreus [juvenile] → Daphnia spp.	1.02E-04	4.64E-08	4.70E-05	1.09E-09	2.32E-05	2.09E-09	4.64E-03	0.386	1.98E-04 ± 6.11E-02	-4.98E+03 ± 1.56E+06	-1.00 ± 0.32	68
3	F	A	Sander vitreus [juvenile] → Daphnia spp.	3.73E-04	4.64E-08	6.12E-05	1.42E-09	2.32E-05	3.17E-09	4.64E-04	0.328	2.77E-03 ± 6.43E-02	1.68E+01 ± 3.36E+01	-0.51 ± 3.61	68
3	F	A	Sander vitreus [juvenile] → Daphnia spp.	1.02E-03	4.64E-08	6.95E-05	1.61E-09	2.32E-05	3.98E-09	4.64E-04	0.412	1.45E-05 ± 6.73E-04	1.52E+01 ± 9.30	0.36 ± 7.32	68
3	F	A	Sander vitreus [juvenile] → Daphnia spp.	2.06E-03	4.64E-08	6.06E-05	1.40E-09	2.32E-05	4.63E-09	2.32E-03	0.839	4.03E-03 ± 3.68E-02	4.30 ± 4.20E+01	-0.67 ± 1.42	68
3	F	A	Sander vitreus [juvenile] → Daphnia spp.	3.28E-03	4.64E-08	7.96E-06	1.85E-10	2.32E-05	3.68E-09	2.32E-03	0.967	2.39E-16 ± 9.86E-15	1.31E+01 ± 2.82	3.04 ± 4.95	68
3	F	A	Sander vitreus [juvenile] → Daphnia spp.	1.25E-03	4.64E-08	4.97E-05	1.15E-09	2.32E-05	3.39E-09	4.64E-04	0.621	1.52E-04 ± 3.05E-03	1.41E+01 ± 1.66E+01	-0.22 ± 2.64	68
3	F	A	Sander vitreus [juvenile] → Daphnia spp.	1.85E-03	4.64E-08	1.99E-05	4.62E-10	2.32E-05	1.77E-09	2.32E-03	0.761	2.95E-03 ± 2.62E-02	1.32 ± 2.93E+02	-0.77 ± 1.74	68
3	F	A	Sander vitreus [juvenile] → Daphnia spp.	2.64E-03	4.64E-08	3.09E-05	7.17E-10	2.32E-05	3.74E-09	4.64E-03	0.787	3.59E-05 ± 8.56E-04	1.13E+01 ± 1.98E+01	-0.15 ± 2.90	68
3	F	A	Sander vitreus [juvenile] → Lepomis macrochirus [juvenile]	3.73E-04	5.02E-06	2.84E-05	2.14E-09	7.53E-05	1.34E-08	4.67E-04	0.881	2.33E-07 ± 3.91E-06	3.64E+02 ± 3.26E+02	1.61 ± 4.91	68
3	F	A	Sander vitreus [juvenile] → Lepomis macrochirus [juvenile]	1.02E-03	8.25E-06	5.86E-05	7.25E-09	1.24E-04	1.71E-08	2.06E-04	0.281	5.93E-15 ± 8.55E-12	6.60E+02 ± 3.70E+02	8.83 ± 532.22	68
3	F	A	Sander vitreus [juvenile] → Lepomis macrochirus [juvenile]	2.06E-03	1.50E-05	3.53E-05	7.95E-09	2.25E-04	3.42E-08	9.75E-04	0.584	1.22E-05 ± 2.58E-04	4.93E+02 ± 1.09E+03	0.58 ± 7.17	68
3	F	A	Sander vitreus [juvenile] → Lepomis macrochirus [juvenile]	3.28E-03	2.51E-05	4.50E-05	1.69E-08	3.77E-04	5.10E-08	2.33E-03	0.842	4.61E-07 ± 7.16E-06	5.03E+02 ± 2.30E+02	1.75 ± 5.19	68
3	F	A	Sander vitreus [juvenile] → Lepomis macrochirus [juvenile]	1.25E-03	2.36E-05	6.92E-05	2.45E-08	3.54E-04	1.06E-07	2.19E-03	0.925	3.31E-05 ± 2.27E-03	-2.78E+04 ± 2.07E+06	-0.98 ± 1.21	68
3	F	A	Sander vitreus [juvenile] → Lepomis macrochirus [juvenile]	1.85E-03	3.31E-05	5.55E-05	2.76E-08	4.97E-04	1.02E-07	2.15E-03	0.698	3.17E-06 ± 6.44E-05	3.11E+02 ± 7.03E+02	0.88 ± 6.23	68
3	F	A	Sander vitreus [juvenile] → Lepomis macrochirus [juvenile]	2.64E-03	4.46E-05	2.63E-05	1.76E-08	6.69E-04	9.98E-08	4.15E-03	0.982	4.45E-07 ± 2.36E-06	4.41E+02 ± 9.06E+01	1.64 ± 1.69	68
3	F	A	Sander vitreus [juvenile] → Lepomis macrochirus [juvenile]	1.02E-02	4.47E-04	3.94E-05	2.64E-07	6.71E-03	7.22E-07	4.16E-02	0.938	8.61E-05 ± 9.39E-04	-6.44E+03 ± 1.46E+05	-0.89 ± 2.15	68
3	F	S	Utricularia vulgaris [adult] → Eucyclops serrulatus [adult]	1.61E-05	4.46E-09	6.15E-10	2.20E-13	3.57E-04	1.77E-12	5.35E-03	0.960	4.84E-12 ± 5.75E-11	2.34E+03 ± 6.67E+02	0.46 ± 0.97	146
3	F	S	Utricularia vulgaris [adult] → Polyphemus pediculus [adult]	1.61E-05	6.00E-09	1.32E-09	6.35E-13	4.80E-04	2.10E-12	7.20E-03	0.863	2.23E-16 ± 5.80E-15	3.09E+03 ± 4.37E+02	1.42 ± 2.24	146
3	M	A	Acartia hudsonica [adult] → Skeletonema costatum	1.95E-08	1.29E-12	5.51E-10	1.60E-14	2.91E-05	1.37E-11	1.61E-02	0.987	8.10E-06 ± 5.15E-05	-3.57E-01 ± 4.11E-01	-0.46 ± 0.31	147
3	M	A	Aurelia aurita [juvenile] → Gadus morhua [juvenile]	2.65E-02	8.27E-04	7.47E-06	3.09E-06	4.14E-01	6.73E-05	1.32E+01	0.946	1.68E-04 ± 2.31E-03	-1.53E+01 ± 1.42E+02	-0.45 ± 1.93	148
3	M	A	Centropages typicus [adult] → Calanus finmarchicus [egg]	2.40E-08	1.24E-09	4.46E-09	1.18E-13	2.64E-05	3.95E-13	1.62E-04	0.990	9.96E-13 ± 7.29E-11	2.82E+03 ± 3.98E+03	0.87 ± 7.15	149

D	Hab	For	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)	Scarce resources			Abundant resources		Fitted FR				Ref
						Search rate	Consumption rate	Resource density	Consumption rate	Resource density	R^2	*α* (±95% CI)	t_h (±95% CI)	*q* (±95% CI)	
3	M	A	Chionoecetes bairdi [zoeae] → Protoceratium reticulatum [adult]	1.37E-07	3.35E-11	2.73E-11	6.68E-15	2.45E-04	6.20E-14	4.02E-03	0.995	2.86E-13 ± 2.09E-11	4.06E+02 ± 1.06E+03	0.30 ± 4.32	150
3	M	A	Mediomastus fragile [larva] → Isochrysis galbana	2.50E-09	4.96E-14	3.28E-14	4.76E-16	1.45E-02	3.06E-15	1.06	0.859	6.20E-12 ± 1.70E-10	1.62E+01 ± 9.35	-0.20 ± 0.98	151
3	M	A	Mercenaria mercenaria [juvenile] → Isochrysis galbana	8.88E-10	8.71E-14	2.97E-12	5.72E-16	1.93E-04	2.85E-15	8.09E-04	0.472	2.11E-16 ± 1.03E-14	3.91E+01 ± 1.92E+01	0.48 ± 2.23	152
3	M	A	Nyctiphanes australis [adult] → Acartia spp. [adult]	9.38E-06	2.32E-08	1.60E-08	1.86E-13	1.16E-05	7.99E-12	3.48E-04	0.999	1.11E-12 ± 5.73E-12	2.63E+03 ± 3.16E+02	1.31 ± 0.63	153
3	M	A	Oikopleura dioica [juvenile] → Tetraselmis suecica	2.71E-07	4.49E-13	5.41E-11	3.15E-13	5.84E-03	2.53E-11	4.10E-01	0.912	7.90E-17 ± 6.50E-15	1.79E-02 ± 1.40E-02	0.55 ± 3.13	154
3	M	A	Paralabrax clathratus [adult] → Brachyistius frenatus [juvenile]	1.05E-01	5.46E-04	1.19E-05	1.30E-08	1.09E-03	2.90E-08	4.37E-03	0.595	9.08E-06 ± 4.60E-04	2.27E+04 ± 9.46E+04	1.42 ± 66.25	155
3	M	A	Perca fluviatilis [juvenile] → Neomysis integer [adult]	1.31E-03	2.60E-05	7.12E-05	6.93E-08	9.74E-04	2.68E-07	3.89E-03	0.979	5.40E-08 ± 3.98E-07	1.00E+02 ± 9.81	2.05 ± 1.85	156
3	M	A	Philine aperta [larva] → Isochrysis galbana	4.89E-10	4.77E-14	4.89E-12	3.25E-16	6.64E-05	2.08E-15	2.63E-03	0.906	4.20E-04 ± 4.19E-03	-1.57E+02 ± 1.33E+03	-0.90 ± 0.70	157
3	M	A	Philine aperta [larva] → Isochrysis galbana	1.41E-09	4.77E-14	5.01E-12	2.54E-16	5.07E-05	7.70E-15	3.06E-03	0.656	4.64E-10 ± 1.08E-08	6.86 ± 6.94	-0.17 ± 1.05	157
3	M	A	Philine aperta [larva] → Isochrysis galbana	2.67E-09	4.77E-14	2.64E-11	1.62E-15	6.13E-05	2.69E-14	6.77E-03	0.970	5.62E-07 ± 4.36E-06	3.16E-01 ± 1.75	-0.46 ± 0.34	157
3	M	A	Philine aperta [larva] → Isochrysis galbana	1.26E-08	4.77E-14	6.10E-11	4.05E-15	6.64E-05	5.77E-14	4.31E-03	0.924	1.14E-13 ± 1.44E-12	9.33E-01 ± 1.40E-01	0.30 ± 0.56	157
3	M	A	Pomatomus saltatrix [subadult] → Menidia menidia [juvenile]	1.45E-03	1.35E-04	2.26E-04	1.22E-08	5.43E-05	1.12E-07	1.09E-03	0.920	3.29E-04 ± 2.45E-04	1.23E+03 ± 4.13E+02	0.79 ± 1.55	158
3	M	A	Pomatomus saltatrix [subadult] → Menidia menidia [juvenile]	1.35E-02	6.60E-03	1.48E-04	1.57E-06	1.06E-02	5.46E-06	4.24E-02	0.921	1.40E-04 ± 5.05E-04	9.41E+02 ± 2.53E+03	0.49 ± 4.72	158
3	M	A	Pomatomus saltatrix [subadult] → Morone saxatilis [juvenile]	1.76E-03	9.15E-05	2.23E-04	3.27E-08	1.47E-04	9.21E-08	7.34E-04	0.970	1.80E-04 ± 2.62E-04	8.73E+02 ± 3.42E+02	1.00 ± 1.94	158
3	M	A	Pomatomus saltatrix [subadult] → Morone saxatilis [juvenile]	1.31E-02	1.88E-03	1.37E-04	4.12E-07	3.01E-03	1.35E-06	9.04E-03	0.301	1.26E-05 ± 1.39E-02	2.10E+03 ± 1.41E+04	6.35 ± 2346.59	158
3	M	A	Praunus flexuosus [adult] → Acartia spp. [adult]	8.43E-05	2.32E-08	4.27E-08	4.26E-12	9.98E-05	1.49E-10	1.41E-03	0.935	2.78E-15 ± 1.30E-13	1.58E+02 ± 7.01E+01	1.84 ± 4.69	159
3	M	A	Praunus flexuosus [adult] → Bosmina longispina [adult female]	8.43E-05	3.00E-07	1.09E-07	4.24E-10	3.90E-03	7.22E-09	7.80E-02	0.971	8.44E-09 ± 1.94E-07	6.02 ± 1.02E+02	0.21 ± 2.06	159
3	M	A	Praunus flexuosus [adult] → Eurytemora affinis [adult female]	8.43E-05	1.21E-05	3.31E-08	1.72E-09	5.20E-02	3.96E-08	1.05	0.966	9.79E-10 ± 2.05E-08	1.90E+02 ± 4.25E+02	0.40 ± 2.09	159
3	M	A	Praunus flexuosus [adult] → Pleopsis polyphemoides [adult female]	8.43E-05	3.00E-08	5.54E-08	2.16E-11	3.90E-04	1.36E-09	7.83E-03	0.979	1.47E-05 ± 2.42E-04	-6.23E+01 ± 3.21E+02	-0.46 ± 1.62	159
3	M	A	Sander lucioperca [juvenile] → Neomysis integer [adult]	1.47E-03	2.60E-05	3.90E-05	3.80E-08	9.74E-04	2.03E-07	3.89E-02	0.909	8.32E-05 ± 5.86E-04	1.09E+02 ± 1.00E+02	-0.08 ± 1.60	156
3	M	A	Tortanus forcipatus [adult female] → Oithona davisae [juvenile]	7.94E-08	9.63E-10	7.53E-10	2.80E-14	3.72E-05	1.74E-13	1.91E-04	0.787	7.40E-15 ± 2.79E-13	5.78E+03 ± 3.29E+03	1.10 ± 3.35	160
3	M	A	Tortanus forcipatus [adult male] →	5.02E-08	9.63E-10	4.44E-10	1.65E-14	3.72E-05	9.58E-14	3.07E-04	0.873	9.26E-12	7.96E+03	0.39	160

D	Hab	For	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)	Scarce resources			Abundant resources		Fitted FR				Ref
						Search rate	Consumption rate	Resource density	Consumption rate	Resource density	R^2	α (±95% CI)	t_h (±95% CI)	q (±95% CI)	
			Oithona davisae [juvenile]									± 2.24E-10	± 1.02E+04	± 2.17	
3	M	A	Tortanus forcipatus [juvenile] → Oithona davisae [juvenile]	1.40E-08	9.63E-10	3.33E-10	1.24E-14	3.72E-05	3.91E-14	2.30E-04	0.707	1.23E-11 ± 4.19E-10	2.10E+04 ± 2.90E+04	0.32 ± 3.10	160
3	M	A	Tortanus forcipatus [juvenile] → Oithona davisae [juvenile]	3.20E-08	9.63E-10	3.90E-10	1.45E-14	3.72E-05	7.48E-14	3.07E-04	0.785	1.99E-11 ± 6.55E-10	9.54E+03 ± 2.38E+04	0.28 ± 2.96	160
3	T	S	Grammonota trivittata [adult female] → Prokelisia spp. [instar 2]	3.74E-06	1.85E-07	1.99E-10	1.39E-13	6.98E-04	1.71E-12	6.98E-03	1.000	1.07E-10 ± 1.78E-10	0.00 ± 3.29E+04	0.08 ± 0.19	161
3	T	S	Nesticodes rufipes [adult female] → Musca domestica [adult]	3.42E-04	2.20E-05	1.41E-09	7.14E-11	5.08E-02	3.00E-10	2.54E-01	0.845	7.12E-11 ± 3.87E-09	6.83E+04 ± 2.20E+05	0.43 ± 6.90	162

Supplementary Table 6. Dataset for reaction distance, listed by interaction dimensionality (***D***), alphabetically by habitat (**Hab**; F: freshwater, M: marine, T: terrestrial), and then species pair (**Consumer → Resource**) (including life stage and sex when known). The original studies are listed in the last column (**Ref**).

D	Hab	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)	Reaction distance (m)	Ref
2	F	Gasterosteus aculeatus [adult] → Tubifex spp. [adult]	2.77E-03	8.60E-06	2.56E-01	163
2	F	Oncorhynchus mykiss [adult] → Crangonyx richmondensis [adult]	3.76E-02	1.34E-06	2.55E-01	164
2	T	Canis lupus familiaris [adult] → Gopherus agassizii [adult]	4.55E+01	5.44	1.39E+01	165
2	T	Euroleon nostras [3rd instar] → Tenebrio molitor [adult]	4.80E-05	1.53E-04	1.00E-01	166
2	T	Fringilla coelebs [adult] → Brassica napus [seed]	2.40E-02	2.70E-06	1.36E-01	98
2	T	Homo sapiens [adult] → Holbrookia propinqua [adult]	8.00E+01	5.38E-03	2.14	167
2	T	Homo sapiens [adult] → Norops lineatopus [adult]	8.00E+01	3.50E-03	1.12	168
2	T	Homo sapiens [adult] → Sceloporus anahuacus [adult]	8.00E+01	2.67E-03	2.24	169
2	T	Homo sapiens [adult] → Sceloporus gadoviae [adult]	8.00E+01	4.15E-03	2.31	169
2	T	Homo sapiens [adult] → Sceloporus mucronatus [adult]	8.00E+01	1.13E-02	5.54	169
2	T	Homo sapiens [adult] → Scincella lateralis [adult]	8.00E+01	1.50E-03	1.31	170
2	T	Homo sapiens [adult] → Urosaurus bicarinatus [adult]	8.00E+01	2.58E-03	1.32	169
2	T	Lycaon pictus [adult] → Connochaetes gnou [juvenile]	2.68E+01	2.00E+02	4.60E+02	171
2	T	Lycaon pictus [adult] → Gazella thomsonii [adult]	2.68E+01	3.00E+01	2.50E+02	171
2	T	Mephitis mephitis [adult] → Gallus gallus domesticus [egg]	3.19	2.20E-01	2.00E+01	172
2	T	Myotis dasycneme [adult] → Tenebrio molitor [juvenile]	1.50E-02	9.09E-05	1.10	173
2	T	Pardosa vancouveri [adult] → Drosophila melanogaster [adult]	7.60E-06	6.94E-07	1.50E-02	113
2	T	Phormictopus cancerides (Latreille, 1806) [juvenile] → Acheta domestica [adult]	1.00E-03	3.35E-04	4.30E-02	174
2	T	Psammodromus algirus [adult] → Calliphora spp. [adult]	9.90E-03	1.57E-05	2.20E-01	175
3	F	Aeshna juncea [penultimate-final instar] → Chaoborus flavicans [larva]	1.91E-03	2.06E-05	6.00E-02	176
3	F	Chaoborus obscuripes [Fourth-instar] → Eudiaptomus gracilis [adult]	2.30E-05	1.83E-09	3.00E-03	177
3	F	Gymnocephalus cernuus [adult] → Chaoborus obscuripes [juvenile]	1.38E-02	1.55E-05	4.00E-02	139
3	F	Lepomis macrochirus [adult] → Daphnia pulex [adult]	4.16E-03	2.63E-08	9.30E-02	178
3	F	Micropterus salmoides [adult] → Danio rerio [juvenile]	1.61E-02	1.98E-05	1.41E-01	179
3	F	Micropterus salmoides [adult] → Lepomis macrochirus [adult]	5.11E-01	1.31E-03	1.22	180
3	F	Micropterus salmoides [adult] → Lythrurus umbratilis [adult]	5.11E-01	6.80E-04	1.16	180
3	F	Notonecta maculata [5th instar] → Daphnia magna [juvenile]	1.10E-04	1.74E-07	1.70E-02	141
3	F	Oncorhynchus clarki utah [adult] → Oncorhynchus mykiss [juvenile]	1.11	1.36E-02	5.80E-01	181
3	F	Oncorhynchus mykiss [adult] → Oncorhynchus mykiss [juvenile]	9.71E-01	1.36E-02	5.50E-01	181
3	F	Perca fluviatilis [adult] → Chaoborus obscuripes [juvenile]	1.69E-02	1.55E-05	2.10E-01	139
3	F	Salvelinus fontinalis [adult] → Daphnia pulex [adult]	4.84E-02	6.90E-08	1.37E-01	182
3	F	Salvelinus namaycush [adult] → Daphnia magna [adult]	5.19E-02	8.30E-08	1.22E-01	182
3	F	Salvelinus namaycush [adult] → Oncorhynchus mykiss [juvenile]	1.09	1.36E-02	9.50E-01	181
3	F	Thymallus arcticus [adult] → Bosmina longirostris [adult]	2.42E-03	6.63E-09	2.70E-02	183
3	F	Thymallus arcticus [adult] → Cyclops scutifer [adult]	3.81E-03	6.77E-09	4.20E-02	183
3	F	Thymallus arcticus [adult] → Daphnia longiremis [adult]	2.05E-03	1.77E-08	4.90E-02	183
3	F	Thymallus arcticus [adult] → Daphnia pulex [adult]	6.43E-03	3.05E-08	8.30E-02	183
3	F	Thymallus arcticus [adult] → Heterocope septentrionalis [adult]	3.29E-03	5.02E-08	8.20E-02	183
3	M	Gobiusculus flavescens [adult] → Calanus finmarchicus [adult]	3.66E-03	3.95E-07	1.05E-01	184

Supplementary Table 7. Dataset for handling time, listed by interaction dimensionality (***D***), then alphabetically by habitat (**Hab**; F: freshwater, M: marine, T: terrestrial), and then species pair (**Consumer** → **Resource**) (including life stage and sex when present). All handling times are temperature corrected, as described in section 3.7. The original studies are listed in the last column (**Ref**).

D	Hab	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)	Handling time (s)	Ref
2	F	Cottus gobio [adult] → Glyphotaelius pellucidus [larva]	2.93E-02	1.40E-04	2.08E+02	185
2	F	Cottus gobio [adult] → Limnephilus rhombicus [larva]	2.93E-02	7.00E-05	1.91E+02	185
2	F	Dytiscus circumcinctus [2-3rd instar] → Limnephilus nigriceps	3.10E-04	1.10E-05	1.06E+03	186
2	F	Dytiscus circumcinctus [instar 2-3] → Limnephilus borealis	3.10E-04	5.10E-05	2.32E+03	186
2	F	Dytiscus circumcinctus [instar 2-3] → Limnephilus rhombicus	3.10E-04	4.10E-05	1.92E+03	186
2	F	Dytiscus latissimus [instar 2-3] → Limnephilus borealis	3.10E-04	4.60E-05	1.92E+03	186
2	F	Dytiscus latissimus [instar 2-3] → Limnephilus nigriceps	3.10E-04	1.20E-05	1.01E+03	186
2	F	Dytiscus latissimus [instar 2-3] → Limnephilus rhombicus	3.10E-04	3.40E-05	1.66E+03	186
2	F	Gymnocephalus cernuus [adult] → Chaoborus obscuripes [juvenile]	1.38E-02	2.00E-05	3.57	139
2	F	Herichthys minckleyi [adult] → Cylisticus sp. [adult]	6.09E-03	2.40E-05	8.25	187
2	F	Micropterus salmoides [juvenile] → Crayfish [adult]	3.01E-01	6.03E-03	6.45E+01	188
2	F	Perca fluviatilis [juvenile] → Leucorrhinia dubia [juvenile]	1.10E-01	2.40E-04	1.68E+01	189
2	F	Rhyacophila dorsalis [4-5th instar] → Chironomus sp. [juvenile]	1.70E-05	2.70E-06	2.53E+02	66
2	F	Salmo trutta [juvenile] → Glyphotaelius pellucidus [larva]	7.81E-02	1.50E-04	1.22E+02	185
2	F	Salmo trutta [juvenile] → Limnephilus pantodapus [larva]	7.81E-02	1.00E-04	1.68E+02	185
2	F	Salmo trutta [juvenile] → Limnephilus rhombicus [larva]	7.81E-02	9.00E-05	1.36E+02	185
2	F	Salmo trutta [juvenile] → Potamophylax cingulatus [larva]	7.81E-02	1.20E-04	1.05E+02	185
2	M	Callinectes sapidus [adult] → Crassostrea virginica [juvenile]	1.30E-01	9.46E-03	4.76E+02	71
2	M	Carcinus maenas [adult] → Cerastoderma edule [adult]	8.40E-02	6.03E-03	1.66E+02	190
2	M	Carcinus maenas [adult] → Mytilus edulis [adult]	1.89E-01	9.40E-04	3.73E+02	191
2	M	Crangon septemspinosa [adult] → Pseudopleuronectes americanus [juvenile]	1.51E-03	1.40E-05	3.33E+03	79
2	M	Nucella lapillus [adult] → Mytilus edulis [adult]	1.11E-02	8.00E-04	2.36E+05	192
2	M	Phoca vitulina [adult] → Ammodytes dubius [adult]	1.09E+02	2.18E-02	3.47E-01	193
2	M	Phoca vitulina [adult] → Flounder	1.09E+02	2.29E-01	4.77	193
2	T	Ammodramus savannarum [adult] → Ageneotettix deorum [adult]	1.38E-02	2.00E-04	2.49	194
2	T	Aphidius colemani Viereck [adult] → Aphis gossypii [3rd instar]	6.70E-07	6.10E-08	2.60E+03	195
2	T	Aphidius matricariae → Aphis gossypii [3rd instar]	5.70E-07	6.10E-08	1.99E+03	195
2	T	Ardea alba [adult] → Ictalurus punctatus [juvenile]	9.00E-01	4.90E-03	1.04E+01	196
2	T	Chrysomya albiceps [instar 3] → Chrysomya megacephala [instar 2]	8.20E-05	2.80E-05	1.75E+02	93
2	T	Cicindela hybrida [adult] → Formicidae spp. [adult]	3.50E-04	7.00E-06	1.02E+02	197
2	T	Cicindela hybrida [adult] → Collembola spp. [adult]	3.50E-04	1.80E-07	3.53E+02	197
2	T	Ephippiorhynchus asiaticus [adult] → Heteropnestus fossilis [adult]	4.10	9.51E-03	2.04	198
2	T	Eumeces laticeps [adult] → Acheta domestica	8.00E-02	1.60E-04	3.82	199
2	T	Geocoris bullatus [adult] C → Lygus spp. [juvenile]	7.30E-07	1.60E-07	1.01E+03	200
2	T	Haematopus ostralegus → Scrobicularia plan	4.60E-01	3.40E-04	2.08E+02	99
2	T	Lacerta oxycephala [adult] → Acheta domestica [juvenile]	7.00E-02	3.20E-05	7.62	201
2	T	Lacerta oxycephala [adult] → Acheta domestica [adult]	7.00E-02	3.20E-04	7.28E+01	201
2	T	Neomys anomalus [adult] → Tenebrio molitor [juvenile]	1.00E-02	1.20E-04	4.72	202
2	T	Neomys fodiens [adult] → Tenebrio molitor [juvenile]	1.44E-02	1.20E-04	3.70	202
2	T	Pardosa vancouveri [adult] → Drosophila melanogaster [adult]	7.60E-06	6.90E-07	1.20E+04	113
2	T	Parus major [adult] → Zygiella x-notata [adult]	1.80E-02	2.80E-06	1.07E+02	203
2	T	Pergamasus crassipes [adult] → Onychiurus armatus [adult]	3.10E-07	3.10E-07	5.69E+02	115

doi:10.1038/nature11131

D	Hab	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)	Handling time (s)	Ref
2	T	Podarcis melisellensis [adult] → Acheta domestica [juvenile]	6.88E-02	3.20E-05	5.78	201
2	T	Podarcis melisellensis [adult] → Acheta domestica [adult]	6.88E-02	3.20E-04	5.78E+01	201
2	T	Psammodromus algirus [adult] → Calliphora spp. [adult]	9.90E-03	1.60E-05	2.49E+01	175
2	T	Psammodromus algirus [adult] → Calliphora spp. [adult]	9.90E-03	1.60E-05	3.01E+01	175
2	T	Sorex araneus [adult] → Tenebrio molitor [juvenile]	8.00E-03	1.20E-04	5.22	202
2	T	Sorex minutus [adult] → Tenebrio molitor [juvenile]	3.00E-03	1.20E-04	8.99	202
2	T	Varanus albigularis [adult] → Helix sp. [adult]	1.53	1.11E-02	5.20	204
2	T	Zelus longipes [adult] → Spodoptera frugiperda [larva]	6.30E-05	1.30E-04	4.99E+03	205
2	T	Zootoca vivipara [adult] → Acheta domesticus [juvenile]	4.00E-03	3.80E-05	7.28E+01	206
3	F	Aeshna juncea [juvenile] → Daphnia magna [adult]	1.66E-03	1.40E-06	3.67E+01	207
3	F	Aeshna juncea [juvenile] → Daphnia magna [juvenile]	1.66E-03	1.70E-07	9.32	207
3	F	Diacyclops bicuspidatus [adult] → Panagrolaimus sp. [adult]	3.10E-08	3.00E-10	1.11E+02	208
3	F	Diplonychus indicus [adult] → Culex fatigans [4th instar]	1.70E-04	4.20E-06	7.02E+01	209
3	F	Gasterosteus aculeatus [adult] → Asellus aquaticus [adult]	7.40E-04	1.10E-05	3.21E+01	210
3	F	Mesocyclops sp. [adult] → Scapholeberis mucronata	7.50E-08	2.60E-09	3.20E+02	211
3	F	Mesocyclops sp. [adult] → Bosmina longirostris	7.50E-08	3.00E-09	1.15E+02	211
3	F	Mesocyclops sp. [adult] → Bosminopsis deitersi	7.50E-08	4.10E-09	2.56E+02	211
3	F	Micropterus salmoides [juvenile] → Lepomis macrochirus [adult]	3.01E-01	1.32E-02	6.45E+01	188
3	F	Micropterus salmoides [juvenile] → Perca flavescens [juvenile]	3.01E-01	9.43E-03	2.71E+01	188
3	F	Micropterus salmoides [juvenile] → Rana catesbeiana [juvenile]	3.01E-01	5.86E-03	4.59	188
3	F	Notonecta hoffmani [adult] → Culex pipiens [juvenile]	1.60E-04	9.40E-06	2.30E+02	212
3	F	Notonecta maculata [5th instar] → Daphnia magna [juvenile]	1.10E-04	1.70E-07	5.77	141
3	F	Perca fluviatilis [adult] → Chaoborus obscuripes [juvenile]	1.69E-02	2.00E-05	1.11	139
3	F	Perca fluviatilis [juvenile] → Daphnia magna	2.00E-04	6.20E-07	1.34E+01	213
3	F	Perca fluviatilis [juvenile] → Daphnia magna [juvenile]	2.00E-04	1.30E-07	9.60E-01	213
3	F	Poeciliopsis sp. [adult] → Artemia salina [adult]	3.00E-04	1.60E-07	1.22	214
3	F	Poeciliopsis sp. [adult] → Daphnia magna [adult]	3.00E-04	9.10E-08	1.54	214
3	F	Rana tigrina [juvenile] → Culex fatigans [3rd instar]	8.00E-04	1.20E-06	8.31E-01	215
3	F	Salvelinus alpinus [juvenile] → Daphnia longispina [adult]	8.00E-03	3.70E-07	1.45	145
3	F	Stizostedion lucioperca [adult] → Rutilus rutilus [adult]	1.36E-02	5.80E-04	1.00E+02	216
3	T	Eptesicus fuscus [adult] → Tenebrio molitor [juvenile]	1.59E-02	1.70E-04	3.63	217
3	T	Eptesicus fuscus [Subadult] → Tenebrio molitor [juvenile]	1.33E-02	1.70E-04	5.22	217
3	T	Myotis lucifugus [adult] → Tenebrio molitor [juvenile]	7.26E-03	8.20E-05	1.50E+01	217
3	T	Myotis lucifugus [Subadult] → Tenebrio molitor [juvenile]	6.12E-03	8.20E-05	2.42E+01	217
3	T	Zygiella x-notata [adult] → Musca domestica [adult]	2.90E-05	1.50E-05	2.11E+02	218
3	T	Zygiella x-notata [adult] → Gryllus campestris [juvenile]	2.90E-05	1.60E-05	3.89E+02	218

Supplementary Table 8. Coexisting consumer-resource species pairs from seven communities. Data are listed by interaction dimensionality (***D***), alphabetically by community, and then by consumer-resource name. The communities are, BS: Broadstone stream (a spring-fed acidic headwater stream in Sussex, UK)[44,219], ES: Eastern Weddell Sea (an Antarctic Shelf ecosystem)[44], GM: Grand Cariçaie marsh (a marsh dominated by *Cladietum marisci*, Lake Neuchâtel, Switzerland)[44,220], SB: Scotch Broom (a community on the Scotch Broom *Cytisis scoparius* in Berkshire, UK)[32,44,221], SP: Skipwith pond (a large acidic pond in North Yorkshire, UK)[44,222], TL: Tuesday lake (a small, mildly acidic lake in Michigan, USA)[44,223,224], and UG: UK grasslands (communities from grasslands in England and Wales)[44,225]. The four interactions used to illustrate differences in population cycling in 2*D* vs. 3*D* interactions in main text Fig. 4 are shown in **bold** and flagged with numbers corresponding to those shown in the Figure.

D	**Community**	**Consumer → Resource**	**Consumer mass (kg)**	**Resource mass (kg)**
2	BS	Cordulegaster boltonii → Adicella reducta	9.730E-06	5.080E-07
2	BS	Cordulegaster boltonii → Asellus meridianus	9.730E-06	8.670E-07
2	BS	Cordulegaster boltonii → Brillia modesta	9.730E-06	1.310E-08
2	BS	Cordulegaster boltonii → Corynoneura lobata	9.730E-06	3.540E-09
2	BS	Cordulegaster boltonii → Dicranota sp	9.730E-06	4.750E-07
2	BS	Cordulegaster boltonii → Diptera spp	9.730E-06	4.220E-07
2	BS	Cordulegaster boltonii → Helodidae sp	9.730E-06	1.830E-06
2	BS	Cordulegaster boltonii → Heterotrissocladius marcidus	9.730E-06	5.710E-09
2	BS	Cordulegaster boltonii → Leuctra hippopus	9.730E-06	2.150E-07
2	BS	Cordulegaster boltonii → Leuctra nigra	9.730E-06	4.170E-08
2	BS	Cordulegaster boltonii → Macropelopia nebulosa	9.730E-06	1.570E-07
2	BS	Cordulegaster boltonii → Micropsectra bidentata	9.730E-06	3.800E-09
2	BS	Cordulegaster boltonii → Nemurella pictetii	9.730E-06	1.020E-07
2	BS	Cordulegaster boltonii → Oligochaete spp.	9.730E-06	6.080E-07
2	BS	Cordulegaster boltonii → Paraleptophlebia submarginata	9.730E-06	2.430E-08
2	BS	Cordulegaster boltonii → Pedicia sp	9.730E-06	6.810E-06
2	BS	Cordulegaster boltonii → Plectrocnemia conspersa	9.730E-06	7.400E-07
2	BS	Cordulegaster boltonii → Polypedilum albicorne	9.730E-06	5.090E-09
2	BS	Cordulegaster boltonii → Potamophylax cinguilatus	9.730E-06	4.080E-06
2	BS	Cordulegaster boltonii → Prodiames olivacea	9.730E-06	1.730E-07
2	BS	Cordulegaster boltonii → Sialis fuliginosa	9.730E-06	2.760E-06
2	BS	Cordulegaster boltonii → Simulium sp	9.730E-06	4.740E-08
2	BS	Cordulegaster boltonii → Siphonoperla torrentium	9.730E-06	3.260E-07
2	BS	Cordulegaster boltonii → Tipulidae spp	9.730E-06	9.490E-08
2	BS	Cordulegaster boltonii → Trissopelopia longimana	9.730E-06	3.550E-08
2	BS	Cordulegaster boltonii → Zavrelimyia barbatipes	9.730E-06	8.630E-09
2	BS	Dicranota sp → Brillia modesta	4.750E-07	1.310E-08
2	BS	Dicranota sp → Heterotrissocladius marcidus	4.750E-07	5.710E-09
2	BS	Dicranota sp → Leuctra nigra	4.750E-07	4.170E-08
2	BS	Dicranota sp → Macropelopia nebulosa	4.750E-07	1.570E-07
2	BS	Dicranota sp → Micropsectra bidentata	4.750E-07	3.800E-09
2	BS	Dicranota sp → Polypedilum albicorne	4.750E-07	5.090E-09
2	BS	Dicranota sp → Prodiames olivacea	4.750E-07	1.730E-07
2	BS	Dicranota sp → Trissopelopia longimana	4.750E-07	3.550E-08
2	BS	Dicranota sp → Zavrelimyia barbatipes	4.750E-07	8.630E-09
2	BS	Macropelopia nebulosa → Brillia modesta	1.570E-07	1.310E-08
2	BS	Macropelopia nebulosa → Corynoneura lobata	1.570E-07	3.540E-09
2	BS	Macropelopia nebulosa → Heterotrissocladius marcidus	1.570E-07	5.710E-09
2	BS	Macropelopia nebulosa → Leuctra hippopus	1.570E-07	2.150E-07
2	BS	Macropelopia nebulosa → Leuctra nigra	1.570E-07	4.170E-08
2	BS	Macropelopia nebulosa → Micropsectra bidentata	1.570E-07	3.800E-09

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
2	BS	Macropelopia nebulosa → Nemurella pictetii	1.570E-07	1.020E-07
2	BS	Macropelopia nebulosa → Oligochaete spp.	1.570E-07	6.080E-07
2	BS	Macropelopia nebulosa → Polypedilum albicorne	1.570E-07	5.090E-09
2	BS	Macropelopia nebulosa → Potamophylax cinguilatus	1.570E-07	4.080E-06
2	BS	Macropelopia nebulosa → Prodiames olivacea	1.570E-07	1.730E-07
2	BS	Macropelopia nebulosa → Simulium sp	1.570E-07	4.740E-08
2	BS	Macropelopia nebulosa → Tipulidae spp	1.570E-07	9.490E-08
2	BS	Macropelopia nebulosa → Trissopelopia longimana	1.570E-07	3.550E-08
2	BS	Macropelopia nebulosa → Zavrelimyia barbatipes	1.570E-07	8.630E-09
2	BS	Pedicia sp → Brillia modesta	6.810E-06	1.310E-08
2	BS	Pedicia sp → Heterotrissocladius marcidus	6.810E-06	5.710E-09
2	BS	Pedicia sp → Leuctra nigra	6.810E-06	4.170E-08
2	BS	Pedicia sp → Micropsectra bidentata	6.810E-06	3.800E-09
2	BS	Pedicia sp → Nemurella pictetii	6.810E-06	1.020E-07
2	BS	Pedicia sp → Polypedilum albicorne	6.810E-06	5.090E-09
2	BS	Pedicia sp → Prodiames olivacea	6.810E-06	1.730E-07
2	BS	Pedicia sp → Sialis fuliginosa	6.810E-06	2.760E-06
2	BS	Pedicia sp → Trissopelopia longimana	6.810E-06	3.550E-08
2	BS	Plectrocnemia conspersa → Brillia modesta	7.400E-07	1.310E-08
2	BS	Plectrocnemia conspersa → Corynoneura lobata	7.400E-07	3.540E-09
2	BS	Plectrocnemia conspersa → Dicranota sp	7.400E-07	4.750E-07
2	BS	Plectrocnemia conspersa → Heterotrissocladius marcidus	7.400E-07	5.710E-09
2	BS	Plectrocnemia conspersa → Leuctra hippopus	7.400E-07	2.150E-07
2	BS	Plectrocnemia conspersa → Leuctra nigra	7.400E-07	4.170E-08
2	BS	Plectrocnemia conspersa → Macropelopia nebulosa	7.400E-07	1.570E-07
2	BS	Plectrocnemia conspersa → Micropsectra bidentata	7.400E-07	3.800E-09
2	BS	Plectrocnemia conspersa → Nemurella pictetii	7.400E-07	1.020E-07
2	BS	Plectrocnemia conspersa → Niphargus aquilex	7.400E-07	3.800E-07
2	BS	Plectrocnemia conspersa → Oligochaete spp.	7.400E-07	6.080E-07
2	BS	Plectrocnemia conspersa → Paraleptophlebia submarginata	7.400E-07	2.430E-08
2	BS	Plectrocnemia conspersa → Pedicia sp	7.400E-07	6.810E-06
2	BS	Plectrocnemia conspersa → Polypedilum albicorne	7.400E-07	5.090E-09
2	BS	Plectrocnemia conspersa → Potamophylax cinguilatus	7.400E-07	4.080E-06
2	BS	Plectrocnemia conspersa → Prodiames olivacea	7.400E-07	1.730E-07
2	BS	Plectrocnemia conspersa → Simulium sp	7.400E-07	4.740E-08
2	BS	Plectrocnemia conspersa → Siphonoperla torrentium	7.400E-07	3.260E-07
2	BS	Plectrocnemia conspersa → Tipulidae spp	7.400E-07	9.490E-08
2	BS	Plectrocnemia conspersa → Trissopelopia longimana	7.400E-07	3.550E-08
2	BS	Plectrocnemia conspersa → Zavrelimyia barbatipes	7.400E-07	8.630E-09
2	BS	Sialis fuliginosa → Brillia modesta	2.760E-06	1.310E-08
2	BS	Sialis fuliginosa → Corynoneura lobata	2.760E-06	3.540E-09
2	BS	Sialis fuliginosa → Dicranota sp	2.760E-06	4.750E-07
2	BS	Sialis fuliginosa → Helodidae sp	2.760E-06	1.830E-06
2	BS	Sialis fuliginosa → Heterotrissocladius marcidus	2.760E-06	5.710E-09
2	BS	Sialis fuliginosa → Leuctra hippopus	2.760E-06	2.150E-07
2	BS	Sialis fuliginosa → Leuctra nigra	2.760E-06	4.170E-08
2	BS	Sialis fuliginosa → Macropelopia nebulosa	2.760E-06	1.570E-07
2	BS	Sialis fuliginosa → Micropsectra bidentata	2.760E-06	3.800E-09
2	BS	Sialis fuliginosa → Nemurella pictetii	2.760E-06	1.020E-07
2	BS	Sialis fuliginosa → Niphargus aquilex	2.760E-06	3.800E-07

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
2	BS	Sialis fuliginosa → Oligochaete spp.	2.760E-06	6.080E-07
2	BS	Sialis fuliginosa → Plectrocnemia conspersa	2.760E-06	7.400E-07
2	BS	Sialis fuliginosa → Polypedilum albicorne	2.760E-06	5.090E-09
2	BS	Sialis fuliginosa → Potamophylax cinguilatus	2.760E-06	4.080E-06
2	BS	Sialis fuliginosa → Prodiames olivacea	2.760E-06	1.730E-07
2	BS	Sialis fuliginosa → Simulium sp	2.760E-06	4.740E-08
2	BS	Sialis fuliginosa → Siphonoperla torrentium	2.760E-06	3.260E-07
2	BS	Sialis fuliginosa → Tipulidae spp	2.760E-06	9.490E-08
2	BS	Sialis fuliginosa → Trissopelopia longimana	2.760E-06	3.550E-08
2	BS	Sialis fuliginosa → Zavrelimyia barbatipes	2.760E-06	8.630E-09
2	BS	Siphonoperla torrentium → Corynoneura lobata	3.260E-07	3.540E-09
2	BS	Siphonoperla torrentium → Heterotrissocladius marcidus	3.260E-07	5.710E-09
2	BS	Siphonoperla torrentium → Leuctra hippopus	3.260E-07	2.150E-07
2	BS	Siphonoperla torrentium → Leuctra nigra	3.260E-07	4.170E-08
2	BS	Siphonoperla torrentium → Macropelopia nebulosa	3.260E-07	1.570E-07
2	BS	Siphonoperla torrentium → Micropsectra bidentata	3.260E-07	3.800E-09
2	BS	Siphonoperla torrentium → Nemurella pictetii	3.260E-07	1.020E-07
2	BS	Siphonoperla torrentium → Oligochaete spp.	3.260E-07	6.080E-07
2	BS	Siphonoperla torrentium → Polypedilum albicorne	3.260E-07	5.090E-09
2	BS	Siphonoperla torrentium → Prodiames olivacea	3.260E-07	1.730E-07
2	BS	Siphonoperla torrentium → Simulium sp	3.260E-07	4.740E-08
2	BS	Siphonoperla torrentium → Trissopelopia longimana	3.260E-07	3.550E-08
2	BS	Siphonoperla torrentium → Zavrelimyia barbatipes	3.260E-07	8.630E-09
2	BS	Trissopelopia longimana → Brillia modesta	3.550E-08	1.310E-08
2	BS	Trissopelopia longimana → Corynoneura lobata	3.550E-08	3.540E-09
2	BS	Trissopelopia longimana → Helodidae sp	3.550E-08	1.830E-06
2	BS	Trissopelopia longimana → Heterotrissocladius marcidus	3.550E-08	5.710E-09
2	BS	Trissopelopia longimana → Leuctra hippopus	3.550E-08	2.150E-07
2	BS	Trissopelopia longimana → Leuctra nigra	3.550E-08	4.170E-08
2	BS	Trissopelopia longimana → Micropsectra bidentata	3.550E-08	3.800E-09
2	BS	Trissopelopia longimana → Nemurella pictetii	3.550E-08	1.020E-07
2	BS	Trissopelopia longimana → Niphargus aquilex	3.550E-08	3.800E-07
2	BS	Trissopelopia longimana → Oligochaete spp.	3.550E-08	6.080E-07
2	BS	Trissopelopia longimana → Polypedilum albicorne	3.550E-08	5.090E-09
2	BS	Trissopelopia longimana → Prodiames olivacea	3.550E-08	1.730E-07
2	BS	Trissopelopia longimana → Simulium sp	3.550E-08	4.740E-08
2	BS	Trissopelopia longimana → Zavrelimyia barbatipes	3.550E-08	8.630E-09
2	BS	Zavrelimyia barbatipes → Brillia modesta	8.630E-09	1.310E-08
2	**BS**	**Zavrelimyia barbatipes → Heterotrissocladius marcidus (1)**	**8.630E-09**	**5.710E-09**
2	BS	Zavrelimyia barbatipes → Leuctra nigra	8.630E-09	4.170E-08
2	BS	Zavrelimyia barbatipes → Micropsectra bidentata	8.630E-09	3.800E-09
2	BS	Zavrelimyia barbatipes → Nemurella pictetii	8.630E-09	1.020E-07
2	BS	Zavrelimyia barbatipes → Oligochaete spp.	8.630E-09	6.080E-07
2	BS	Zavrelimyia barbatipes → Paraleptophlebia submarginata	8.630E-09	2.430E-08
2	BS	Zavrelimyia barbatipes → Polypedilum albicorne	8.630E-09	5.090E-09
2	BS	Zavrelimyia barbatipes → Prodiames olivacea	8.630E-09	1.730E-07
2	BS	Zavrelimyia barbatipes → Simulium sp	8.630E-09	4.740E-08
2	ES	Abyssorchomene nodimanus → Holothuria	2.160E-05	2.316E-02
2	ES	Acodontaster conspicuus → Haliclona dancoi	3.102E-03	1.298E-01
2	ES	Acodontaster conspicuus → Homaxinella balfourensis	3.102E-03	6.107E-02

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
2	ES	Acodontaster conspicuus → Kirkpatrickia variolosa	3.102E-03	7.978E-01
2	ES	Acodontaster conspicuus → Mycale (Oxymycale) acerata	3.102E-03	2.581E-01
2	ES	Acodontaster conspicuus → Rossella racovitzae	3.102E-03	7.978E-01
2	ES	Acodontaster conspicuus → Scolymastra joubini	3.102E-03	8.800
2	ES	Acodontaster conspicuus → Tetilla leptoderma	3.102E-03	5.623E-01
2	ES	Amauropis rossiana → Cyclocardia astartoides	2.730E-04	9.150E-07
2	ES	Amauropis rossiana → Euphausia superba	2.730E-04	1.960E-04
2	ES	Amauropis rossiana → Philobrya sublaevis	2.730E-04	6.080E-05
2	ES	Amauropis rossiana → Trophon longistaffi	2.730E-04	7.610E-06
2	ES	Aporocidaris milleri → Foraminifera	2.606E-03	5.650E-10
2	ES	Artedidraco loennbergi → Copepoda	1.660E-02	1.810E-06
2	ES	Artedidraco loennbergi → Cumacea	1.660E-02	7.400E-06
2	ES	Artedidraco loennbergi → Tanaidacea	1.660E-02	1.470E-04
2	ES	Artedidraco orianae → Copepoda	9.548E-02	1.810E-06
2	ES	Artedidraco orianae → Cyllopus lucasii	9.548E-02	2.640E-05
2	ES	Artedidraco orianae → Epimeria macrodonta	9.548E-02	7.010E-05
2	ES	Artedidraco orianae → Epimeria robusta	9.548E-02	9.280E-05
2	ES	Artedidraco orianae → Eunoe spica	9.548E-02	9.540E-05
2	ES	Artedidraco orianae → Euphausiacea	9.548E-02	1.580E-05
2	ES	Artedidraco orianae → Gnathia calva	9.548E-02	3.160E-06
2	ES	Artedidraco orianae → Gnathia calva	9.548E-02	3.160E-06
2	ES	Artedidraco orianae → Iphimediella cyclogena	9.548E-02	5.070E-05
2	ES	Artedidraco orianae → Liljeborgia georgiana	9.548E-02	4.060E-05
2	ES	Artedidraco orianae → Natatolana obtusata	9.548E-02	5.050E-06
2	ES	Artedidraco orianae → Ostracods	9.548E-02	2.520E-07
2	ES	Artedidraco orianae → Pantopoda	9.548E-02	4.450E-04
2	ES	Artedidraco skottsbergi → Cumacea	3.731E-02	7.400E-06
2	ES	Artedidraco skottsbergi → Ostracods	3.731E-02	2.520E-07
2	ES	Astrochlamys bruneus → Euchaeta antarctica	1.673E-03	1.980E-06
2	ES	Astrochlamys bruneus → Zooplankton	1.673E-03	1.680E-07
2	ES	Astrotoma agassizii → Calanoides acutus	3.805E-03	1.490E-06
2	ES	Astrotoma agassizii → Calanus propinquus	3.805E-03	1.550E-06
2	ES	Astrotoma agassizii → Euchaeta antarctica	3.805E-03	1.980E-06
2	ES	Astrotoma agassizii → Eukrohnia hamata	3.805E-03	2.120E-05
2	ES	Astrotoma agassizii → Euphausiacea	3.805E-03	1.580E-05
2	ES	Astrotoma agassizii → Flagellate	3.805E-03	2.540E-11
2	ES	Astrotoma agassizii → Foraminifera	3.805E-03	5.650E-10
2	ES	Astrotoma agassizii → Holothuria	3.805E-03	2.316E-02
2	ES	Astrotoma agassizii → Ostracods	3.805E-03	2.520E-07
2	ES	Astrotoma agassizii → Silicioflagellates	3.805E-03	1.510E-10
2	ES	Astrotoma agassizii → Zooplankton	3.805E-03	1.680E-07
2	ES	Austrocidaris canaliculata → Foraminifera	9.810E-04	5.650E-10
2	ES	Austrodoris kerguelenensis → Calyx arcuarius	7.650E-02	6.107E-02
2	ES	Austrodoris kerguelenensis → Haliclona dancoi	7.650E-02	1.298E-01
2	ES	Austrodoris kerguelenensis → Haliclona tenella	7.650E-02	1.298E-01
2	ES	Austrodoris kerguelenensis → Isodyctia steifera	7.650E-02	1.298E-01
2	ES	Austrodoris kerguelenensis → Mycale (Oxymycale) acerata	7.650E-02	2.581E-01
2	ES	Austrodoris kerguelenensis → Polymastia invaginata	7.650E-02	2.329E-01
2	ES	Austrodoris kerguelenensis → Rossella nuda	7.650E-02	4.141
2	ES	Austrodoris kerguelenensis → Rossella racovitzae	7.650E-02	7.978E-01

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
2	ES	Austrodoris kerguelenensis → Scolymastra joubini	7.650E-02	8.800
2	ES	Austrodoris kerguelenensis → Tetilla leptoderma	7.650E-02	5.623E-01
2	ES	Baseodiscus antarcticus → Adamussium colbecki	5.840	1.255E-03
2	ES	Baseodiscus antarcticus → Homaxinella balfourensis	5.840	6.107E-02
2	ES	Bathydoris clavigera → Foraminifera	7.650E-02	5.650E-10
2	ES	Bathypanoploea schellenbergi → Holothuria	1.480E-04	2.316E-02
2	ES	Chorismus antarcticus → Flagellate	2.720E-04	2.540E-11
2	ES	Chorismus antarcticus → Zooplankton	2.720E-04	1.680E-07
2	ES	Ctenocidaris gigantea → Zooplankton	1.255E-02	1.680E-07
2	ES	Ctenocidaris gilberti → Foraminifera	1.255E-02	5.650E-10
2	ES	Ctenocidaris perrieri → Eunoe spica	1.177E-02	9.540E-05
2	ES	Ctenocidaris perrieri → Foraminifera	1.177E-02	5.650E-10
2	ES	Ctenocidaris spinosa → Foraminifera	2.920E-03	5.650E-10
2	ES	Ctenocidaris spinosa → Yoldiella eightsi	2.920E-03	5.900E-04
2	ES	Ctenocidaris spinosa → Zooplankton	2.920E-03	1.680E-07
2	ES	Cylichna sp. → Scaphopoda	1.350E-05	4.660E-05
2	ES	Dacodraco hunteri → Nototheniidae	3.325E-01	1.072
2	ES	Diplasterias brucei → Yoldiella eightsi	2.713E-03	5.900E-04
2	ES	Dolloidraco longidorsalis → Scaphopoda	1.316E-02	4.660E-05
2	ES	Edwardsia meridionalis → Tanaidacea	9.010E-04	1.470E-04
2	ES	Ekmocucumis steineni → Phytoplankton	8.088E-02	1.370E-09
2	ES	Ekmocucumis turqueti → Phytoplankton	4.803E-01	1.370E-09
2	ES	Epimeria georgiana → Holothuria	9.280E-05	2.316E-02
2	ES	Epimeria macrodonta → Holothuria	7.010E-05	2.316E-02
2	ES	Epimeria macrodonta → Ostracods	7.010E-05	2.520E-07
2	ES	Epimeria macrodonta → Pantopoda	7.010E-05	4.450E-04
2	ES	Epimeria robusta → Euphausiacea	9.280E-05	1.580E-05
2	ES	Epimeria robusta → Holothuria	9.280E-05	2.316E-02
2	ES	Epimeria robusta → Taeniogyrus contortus	9.280E-05	4.805E-03
2	ES	Epimeria robusta → Zooplankton	9.280E-05	1.680E-07
2	ES	Epimeria rubrieques → Clavularia frankliniana	3.000E-04	1.120E-05
2	ES	Epimeria rubrieques → Euphausiacea	3.000E-04	1.580E-05
2	ES	Epimeria rubrieques → Taeniogyrus contortus	3.000E-04	4.805E-03
2	ES	Epimeria similis → Foraminifera	1.480E-04	5.650E-10
2	ES	Epimeriella walkeri → Holothuria	4.720E-05	2.316E-02
2	ES	Eulagisca gigantea → Pantopoda	4.777E-03	4.450E-04
2	ES	Eunoe spica spicoides → Holothuria	1.620E-04	2.316E-02
2	ES	Eunoe spica spicoides → Pantopoda	1.620E-04	4.450E-04
2	ES	Eunoe spica → Holothuria	9.540E-05	2.316E-02
2	ES	Eunoe spica → Pantopoda	9.540E-05	4.450E-04
2	ES	Eurythenes gryllus → Eurythenes gryllus	9.320E-04	9.320E-04
2	ES	Eurythenes gryllus → Holothuria	9.320E-04	2.316E-02
2	ES	Fulmarus glacialoides → Cyllopus lucasii	1.423E+01	2.640E-05
2	ES	Fulmarus glacialoides → Electrona antarctica	1.423E+01	3.906E-02
2	ES	Fulmarus glacialoides → Euphausia superba	1.423E+01	1.960E-04
2	ES	Fulmarus glacialoides → Eurythenes gryllus	1.423E+01	9.320E-04
2	ES	Fulmarus glacialoides → Galitheutis glacialis	1.423E+01	1.250
2	ES	Fulmarus glacialoides → Gonatus antarcticus	1.423E+01	5.273E-01
2	ES	Fulmarus glacialoides → Gymnoscopelus braueri	1.423E+01	2.614E-02
2	ES	Fulmarus glacialoides → Gymnoscopelus opisthopterus	1.423E+01	3.569E-02

doi:10.1038/nature11131

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
2	ES	Fulmarus glacialoides → Notocrangon antarcticus	1.423E+01	4.490E-04
2	ES	Fulmarus glacialoides → Notolepis coatsi	1.423E+01	3.145E-03
2	ES	Fulmarus glacialoides → Protomyctophum bolini	1.423E+01	5.581E-03
2	ES	Fulmarus glacialoides → Psychroteuthis glacialis	1.423E+01	4.666E-01
2	ES	Fulmarus glacialoides → Salpa thompsoni	1.423E+01	7.750E-05
2	ES	Fulmarus glacialoides → Vibillia antarctica	1.423E+01	9.390E-08
2	ES	Fulmarus glacialoides → Vibillia stebbingi	1.423E+01	9.390E-08
2	ES	Glyptonotus antarcticus → Euphausia superba	9.320E-04	1.960E-04
2	ES	Glyptonotus antarcticus → Glyptonotus antarcticus	9.320E-04	9.320E-04
2	ES	Glyptonotus antarcticus → Limacina helicina	9.320E-04	9.390E-08
2	ES	Halobaena caerulea → Cyllopus lucasii	2.259E-01	2.640E-05
2	ES	Halobaena caerulea → Electrona antarctica	2.259E-01	3.906E-02
2	ES	Halobaena caerulea → Euphausia frigida	2.259E-01	1.690E-05
2	ES	Halobaena caerulea → Euphausia superba	2.259E-01	1.960E-04
2	ES	Halobaena caerulea → Eurythenes gryllus	2.259E-01	9.320E-04
2	ES	Halobaena caerulea → Gymnoscopelus braueri	2.259E-01	2.614E-02
2	ES	Halobaena caerulea → Gymnoscopelus opisthopterus	2.259E-01	3.569E-02
2	ES	Halobaena caerulea → Notocrangon antarcticus	2.259E-01	4.490E-04
2	ES	Halobaena caerulea → Notolepis coatsi	2.259E-01	3.145E-03
2	ES	Halobaena caerulea → Protomyctophum bolini	2.259E-01	5.581E-03
2	ES	Halobaena caerulea → Pteropoda	2.259E-01	5.540E-05
2	ES	Halobaena caerulea → Salpa thompsoni	2.259E-01	7.750E-05
2	ES	Halobaena caerulea → Thysanoessa macrura	2.259E-01	1.580E-05
2	ES	Halobaena caerulea → Vibillia antarctica	2.259E-01	9.390E-08
2	ES	Halobaena caerulea → Vibillia stebbingi	2.259E-01	9.390E-08
2	ES	Harmothoe crosetensis → Holothuria	1.330E-04	2.316E-02
2	ES	Harmothoe spinosa → Holothuria	1.400E-04	2.316E-02
2	ES	Harmothoe spinosa → Pantopoda	1.400E-04	4.450E-04
2	ES	Iphimediella cyclogena → Holothuria	5.070E-05	2.316E-02
2	ES	Lineus longifissus → Adamussium colbecki	5.840	1.255E-03
2	ES	Lineus longifissus → Homaxinella balfourensis	5.840	6.107E-02
2	ES	Lophaster gaini → Adamussium colbecki	4.686E-03	1.255E-03
2	ES	Lophaster gaini → Yoldiella eightsi	4.686E-03	5.900E-04
2	**ES**	**Macronectes giganteus → Galitheutis glacialis (3)**	**4.734**	**1.250**
2	ES	Macronectes giganteus → Gonatus antarcticus	4.734	5.273E-01
2	ES	Macronectes giganteus → Kondakovia longimama	4.734	1.758E-01
2	ES	Macronectes giganteus → Nototheniidae	4.734	1.072
2	ES	Macronectes halli → Galitheutis glacialis	4.149	1.250
2	ES	Macronectes halli → Gonatus antarcticus	4.149	5.273E-01
2	ES	Macronectes halli → Kondakovia longimama	4.149	1.758E-01
2	ES	Macronectes halli → Martialia hyadesi	4.149	1.758E-01
2	ES	Macronectes halli → Nototheniidae	4.149	1.072
2	ES	Macronectes halli → Psychroteuthis glacialis	4.149	4.666E-01
2	ES	Macronectes halli → Vampryoteuthis	4.149	2.095E-03
2	ES	Macroptychaster accrescens → Odontaster validus	1.184E-02	6.640E-04
2	ES	Macroptychaster accrescens → Sterechinus neumayeri	1.184E-02	2.760E-03
2	ES	Marseniopsis mollis → Cnemidocarpa verrucosa	2.730E-04	1.606E-02
2	ES	Marseniopsis mollis → Yoldiella eightsi	2.730E-04	5.900E-04
2	ES	Melphidippa antarctica → Holothuria	3.460E-05	2.316E-02
2	ES	Neobuccinum eatoni → Adamussium colbecki	3.580E-03	1.255E-03

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
2	ES	Neobuccinum eatoni → Laternula elliptica	3.580E-03	1.299E-02
2	ES	Notaeolidia gigas → Clavularia frankliniana	8.341E-03	1.120E-05
2	ES	Notaeolidia gigas → Tubularia ralphii	8.341E-03	3.210E-06
2	ES	Notasterias armata → Adamussium colbecki	1.156E-03	1.255E-03
2	ES	Notasterias armata → Yoldiella eightsi	1.156E-03	5.900E-04
2	ES	Notocrangon antarcticus → Foraminifera	4.490E-04	5.650E-10
2	ES	Notocrangon antarcticus → Holothuria	4.490E-04	2.316E-02
2	ES	Notocrangon antarcticus → Yoldiella eightsi	4.490E-04	5.900E-04
2	ES	Oceanites oceanicus → Cyllopus lucasii	6.002E-01	2.640E-05
2	ES	Oceanites oceanicus → Electrona antarctica	6.002E-01	3.906E-02
2	ES	Oceanites oceanicus → Euphausia superba	6.002E-01	1.960E-04
2	ES	Oceanites oceanicus → Protomyctophum bolini	6.002E-01	5.581E-03
2	ES	Oceanites oceanicus → Salpa thompsoni	6.002E-01	7.750E-05
2	ES	Oceanites oceanicus → Vibillia antarctica	6.002E-01	9.390E-08
2	ES	Odontaster validus → Adamussium colbecki	6.640E-04	1.255E-03
2	ES	Odontaster validus → Glyptonotus antarcticus	6.640E-04	9.320E-04
2	ES	Odontaster validus → Homaxinella balfourensis	6.640E-04	6.107E-02
2	ES	Odontaster validus → Laternula elliptica	6.640E-04	1.299E-02
2	ES	Odontaster validus → Ostracods	6.640E-04	2.520E-07
2	ES	Odontaster validus → Rossella nuda	6.640E-04	4.141
2	ES	Odontaster validus → Rossella racovitzae	6.640E-04	7.978E-01
2	ES	Odontaster validus → Scolymastra joubini	6.640E-04	8.800
2	ES	Odontaster validus → Sterechinus neumayeri	6.640E-04	2.760E-03
2	ES	Odontaster validus → Tetilla leptoderma	6.640E-04	5.623E-01
2	ES	Odontaster validus → Yoldiella eightsi	6.640E-04	5.900E-04
2	ES	Ophiosparte gigas → Adamussium colbecki	6.370E-03	1.255E-03
2	ES	Ophiosparte gigas → Chorismus antarcticus	6.370E-03	2.720E-04
2	ES	Ophiosparte gigas → Eunoe spica	6.370E-03	9.540E-05
2	ES	Ophiosparte gigas → Euphausia crystallorophias	6.370E-03	6.590E-05
2	ES	Ophiosparte gigas → Euphausia superba	6.370E-03	1.960E-04
2	ES	Ophiosparte gigas → Foraminifera	6.370E-03	5.650E-10
2	ES	Ophiosparte gigas → Laternula elliptica	6.370E-03	1.299E-02
2	ES	Ophiosparte gigas → Odontaster validus	6.370E-03	6.640E-04
2	ES	Ophiosparte gigas → Ophiacantha	6.370E-03	1.010E-04
2	ES	Ophiosparte gigas → Ophiocten	6.370E-03	5.590E-04
2	ES	Ophiosparte gigas → Ophionotus victoriae	6.370E-03	1.914E-03
2	ES	Ophiosparte gigas → Ophiosparte gigas	6.370E-03	6.370E-03
2	ES	Ophiosparte gigas → Ophiurolepis gelida	6.370E-03	3.540E-04
2	ES	Ophiosparte gigas → Ostracods	6.370E-03	2.520E-07
2	ES	Ophiosparte gigas → Pantopoda	6.370E-03	4.450E-04
2	ES	Ophiosparte gigas → Promachocrinus kerguelensis	6.370E-03	6.107E-02
2	ES	Ophiosparte gigas → Sterechinus neumayeri	6.370E-03	2.760E-03
2	ES	Ophiosparte gigas → Yoldiella eightsi	6.370E-03	5.900E-04
2	ES	Ophiurolepis brevirima → Eunoe spica	5.020E-04	9.540E-05
2	ES	Ophiurolepis brevirima → Euphausiacea	5.020E-04	1.580E-05
2	ES	Ophiurolepis brevirima → Flagellate	5.020E-04	2.540E-11
2	ES	Ophiurolepis brevirima → Foraminifera	5.020E-04	5.650E-10
2	ES	Ophiurolepis brevirima → Ostracods	5.020E-04	2.520E-07
2	ES	Ophiurolepis brevirima → Silicioflagellates	5.020E-04	1.510E-10
2	ES	Ophiurolepis gelida → Euphausiacea	3.540E-04	1.580E-05

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
2	ES	Ophiurolepis gelida → Flagellate	3.540E-04	2.540E-11
2	ES	Ophiurolepis gelida → Foraminifera	3.540E-04	5.650E-10
2	ES	Ophiurolepis gelida → Silicioflagellates	3.540E-04	1.510E-10
2	ES	Pachyptila desolata → Calanoides acutus	1.656E-01	1.490E-06
2	ES	Pachyptila desolata → Calanus propinquus	1.656E-01	1.550E-06
2	ES	Pachyptila desolata → Copepoda	1.656E-01	1.810E-06
2	ES	Pachyptila desolata → Cyllopus lucasii	1.656E-01	2.640E-05
2	ES	Pachyptila desolata → Cyllopus lucasii	1.656E-01	2.640E-05
2	ES	Pachyptila desolata → Electrona antarctica	1.656E-01	3.906E-02
2	ES	Pachyptila desolata → Electrona antarctica	1.656E-01	3.906E-02
2	ES	Pachyptila desolata → Euchaeta antarctica	1.656E-01	1.980E-06
2	ES	Pachyptila desolata → Euphausia frigida	1.656E-01	1.690E-05
2	ES	Pachyptila desolata → Euphausia superba	1.656E-01	1.960E-04
2	ES	Pachyptila desolata → Euphausia superba	1.656E-01	1.960E-04
2	ES	Pachyptila desolata → Gymnoscopelus braueri	1.656E-01	2.614E-02
2	ES	Pachyptila desolata → Gymnoscopelus braueri	1.656E-01	2.614E-02
2	ES	Pachyptila desolata → Gymnoscopelus nicholsi	1.656E-01	1.150E-01
2	ES	Pachyptila desolata → Metridia gerlachei	1.656E-01	8.160E-07
2	ES	Pachyptila desolata → Notocrangon antarcticus	1.656E-01	4.490E-04
2	ES	Pachyptila desolata → Notocrangon antarcticus	1.656E-01	4.490E-04
2	ES	Pachyptila desolata → Notolepis coatsi	1.656E-01	3.145E-03
2	ES	Pachyptila desolata → Primno macropa	1.656E-01	4.720E-05
2	ES	Pachyptila desolata → Protomyctophum bolini	1.656E-01	5.581E-03
2	ES	Pachyptila desolata → Protomyctophum bolini	1.656E-01	5.581E-03
2	ES	Pachyptila desolata → Rhincalanus gigas	1.656E-01	3.770E-06
2	ES	Pachyptila desolata → Salpa thompsoni	1.656E-01	7.750E-05
2	ES	Pachyptila desolata → Thysanoessa macrura	1.656E-01	1.580E-05
2	ES	Pachyptila desolata → Thysanoessa macrura	1.656E-01	1.580E-05
2	ES	Pachyptila desolata → Vibillia antarctica	1.656E-01	9.390E-08
2	ES	Pachyptila desolata → Vibillia antarctica	1.656E-01	9.390E-08
2	ES	Pagodroma nivea → Cyllopus lucasii	4.010	2.640E-05
2	ES	Pagodroma nivea → Electrona antarctica	4.010	3.906E-02
2	ES	Pagodroma nivea → Euphausia superba	4.010	1.960E-04
2	ES	Pagodroma nivea → Eurythenes gryllus	4.010	9.320E-04
2	ES	Pagodroma nivea → Galitheutis glacialis	4.010	1.250
2	ES	Pagodroma nivea → Gymnoscopelus braueri	4.010	2.614E-02
2	ES	Pagodroma nivea → Notocrangon antarcticus	4.010	4.490E-04
2	ES	Pagodroma nivea → Notolepis coatsi	4.010	3.145E-03
2	ES	Pagodroma nivea → Protomyctophum bolini	4.010	5.581E-03
2	ES	Pagodroma nivea → Psychroteuthis glacialis	4.010	4.666E-01
2	ES	Pagodroma nivea → Vibillia antarctica	4.010	9.390E-08
2	ES	Pagodroma nivea → Vibillia stebbingi	4.010	9.390E-08
2	ES	Parborlasia corrugatus → Adamussium colbecki	5.840	1.255E-03
2	ES	Parborlasia corrugatus → Homaxinella balfourensis	5.840	6.107E-02
2	ES	Pareledone charcoti → Eukrohnia hamata	7.950E-04	2.120E-05
2	ES	Pareledone charcoti → Glyptonotus antarcticus	7.950E-04	9.320E-04
2	ES	Pareledone charcoti → Sterechinus neumayeri	7.950E-04	2.760E-03
2	ES	Pareledone charcoti → Yoldiella eightsi	7.950E-04	5.900E-04
2	ES	Pelegobia longicirrata → Ostracods	3.820E-08	2.520E-07
2	ES	Perknaster fuscus → Mycale (Oxymycale) acerata	8.046E-03	2.581E-01

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
2	ES	Perknaster fuscus → Scolymastra joubini	8.046E-03	8.800
2	ES	Perknaster fuscus → Tetilla leptoderma	8.046E-03	5.623E-01
2	ES	Pogonophryne marmorata → Cyllopus lucasii	1.920E-01	2.640E-05
2	ES	Pogonophryne marmorata → Epimeria macrodonta	1.920E-01	7.010E-05
2	ES	Pogonophryne marmorata → Epimeria robusta	1.920E-01	9.280E-05
2	ES	Pogonophryne marmorata → Euphausiacea	1.920E-01	1.580E-05
2	ES	Pogonophryne marmorata → Iphimediella cyclogena	1.920E-01	5.070E-05
2	ES	Pogonophryne marmorata → Liljeborgia georgiana	1.920E-01	4.060E-05
2	ES	Pogonophryne marmorata → Zooplankton	1.920E-01	1.680E-07
2	ES	Pogonophryne permitini → Scaphopoda	7.951E-02	4.660E-05
2	ES	Pontiothauma ergata → Nemertini	1.607E-02	1.028
2	ES	Porania antarctica → Ostracods	1.090E-04	2.520E-07
2	ES	Primnoella sp. → Phytoplankton	4.840E-03	1.370E-09
2	ES	Procellaria aequinoctialis → Electrona antarctica	6.002E-01	3.906E-02
2	ES	Procellaria aequinoctialis → Euphausia superba	6.002E-01	1.960E-04
2	ES	Procellaria aequinoctialis → Galitheutis glacialis	6.002E-01	1.250
2	ES	Procellaria aequinoctialis → Gonatus antarcticus	6.002E-01	5.273E-01
2	ES	Procellaria aequinoctialis → Kondakovia longimama	6.002E-01	1.758E-01
2	ES	Procellaria aequinoctialis → Psychroteuthis glacialis	6.002E-01	4.666E-01
2	ES	Procellaria aequinoctialis → Salpa thompsoni	6.002E-01	7.750E-05
2	ES	Procellaria aequinoctialis → Vibillia antarctica	6.002E-01	9.390E-08
2	ES	Pteraster affinis aculeatus → Adamussium colbecki	3.900E-04	1.255E-03
2	ES	Sterna paradisaea → Cyllopus lucasii	3.845E-01	2.640E-05
2	ES	Sterna paradisaea → Electrona antarctica	3.845E-01	3.906E-02
2	ES	Sterna paradisaea → Euphausia superba	3.845E-01	1.960E-04
2	ES	Sterna paradisaea → Thysanoessa macrura	3.845E-01	1.580E-05
2	ES	Sterna paradisaea → Vibillia antarctica	3.845E-01	9.390E-08
2	ES	Sterna vittata → Electrona antarctica	4.163E-01	3.906E-02
2	ES	Sterna vittata → Euphausia superba	4.163E-01	1.960E-04
2	ES	Thalassoica antarctica → Cyllopus lucasii	6.002E-01	2.640E-05
2	ES	Thalassoica antarctica → Electrona antarctica	6.002E-01	3.906E-02
2	ES	Thalassoica antarctica → Euphausia superba	6.002E-01	1.960E-04
2	ES	Thalassoica antarctica → Eurythenes gryllus	6.002E-01	9.320E-04
2	ES	Thalassoica antarctica → Galitheutis glacialis	6.002E-01	1.250
2	ES	Thalassoica antarctica → Gonatus antarcticus	6.002E-01	5.273E-01
2	ES	Thalassoica antarctica → Gymnoscopelus braueri	6.002E-01	2.614E-02
2	ES	Thalassoica antarctica → Gymnoscopelus nicholsi	6.002E-01	1.150E-01
2	ES	Thalassoica antarctica → Gymnoscopelus opisthopterus	6.002E-01	3.569E-02
2	ES	Thalassoica antarctica → Notocrangon antarcticus	6.002E-01	4.490E-04
2	ES	Thalassoica antarctica → Notolepis coatsi	6.002E-01	3.145E-03
2	ES	Thalassoica antarctica → Protomyctophum bolini	6.002E-01	5.581E-03
2	ES	Thalassoica antarctica → Psychroteuthis glacialis	6.002E-01	4.666E-01
2	ES	Thalassoica antarctica → Vibillia antarctica	6.002E-01	9.390E-08
2	ES	Thalassoica antarctica → Vibillia stebbingi	6.002E-01	9.390E-08
2	ES	Tritoniella belli → Cephalodiscus sp.	8.341E-03	1.960E-04
2	ES	Trophon longistaffi → Yoldiella eightsi	7.610E-06	5.900E-04
2	ES	Urticinopsis antarctica → Diplasterias brucei	6.107E-02	2.713E-03
2	ES	Urticinopsis antarctica → Odontaster validus	6.107E-02	6.640E-04
2	ES	Urticinopsis antarctica → Perknaster fuscus	6.107E-02	8.046E-03
2	ES	Urticinopsis antarctica → Sterechinus neumayeri	6.107E-02	2.760E-03

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
2	ES	Waldeckia obesa → Eurythenes gryllus	7.010E-05	9.320E-04
2	ES	Waldeckia obesa → Holothuria	7.010E-05	2.316E-02
2	GM	Acari (pred) → Acari (phyto)	1.000E-08	1.000E-08
2	GM	Acupalpus flavicollis → Anisus leucostoma	7.000E-07	5.400E-06
2	GM	Acupalpus flavicollis → Euconulus alderi	7.000E-07	1.600E-06
2	GM	Acupalpus flavicollis → Oxyloma elegans	7.000E-07	2.800E-06
2	GM	Acupalpus flavicollis → Oxyloma elegans	7.000E-07	2.800E-06
2	GM	Acupalpus flavicollis → Succinea putris	7.000E-07	3.200E-06
2	GM	Acupalpus flavicollis → Trichia sericea	7.000E-07	1.200E-06
2	GM	Acupalpus flavicollis → Vertigo antivertigo	7.000E-07	6.670E-07
2	GM	Acupalpus flavicollis → Vertigo moulinsiana	7.000E-07	6.750E-07
2	GM	Anguis fragilis → Brachycera sp	2.000E-02	2.800E-07
2	GM	Anguis fragilis → Ligidium hypnorum	2.000E-02	2.190E-06
2	GM	Anguis fragilis → Paederus riparius	2.000E-02	2.800E-06
2	GM	Anguis fragilis → Porcellium conspersum	2.000E-02	4.300E-06
2	GM	Anguis fragilis → Trachelipus rathkei	2.000E-02	5.530E-06
2	GM	Antistea elegans → Bryaxis sp	3.730E-07	4.300E-08
2	GM	Antistea elegans → Chaetarthria seminulum	3.730E-07	1.000E-07
2	GM	Antistea elegans → Cicadina sp	3.730E-07	7.930E-08
2	GM	Antistea elegans → Edaphus blühweissi	3.730E-07	2.740E-08
2	GM	Antistea elegans → Euaesthetus ruficapillus	3.730E-07	9.700E-08
2	GM	Antistea elegans → Hebrus pusillus	3.730E-07	1.560E-06
2	GM	Antistea elegans → Hebrus ruficeps	3.730E-07	1.560E-06
2	GM	Antistea elegans → Ligidium hypnorum	3.730E-07	2.190E-06
2	GM	Bryaxis sp → Acari (phyto)	4.300E-08	1.000E-08
2	GM	Bryaxis sp → Acari (pred)	4.300E-08	1.000E-08
2	GM	Chrysops relictus → Capreolus capreolus	6.050E-06	2.000E+01
2	GM	Chrysops relictus → Vulpes vulpes	6.050E-06	5.000
2	GM	Clubiona sp → Cicadina sp	2.570E-07	7.930E-08
2	GM	Clubiona sp → Hebrus pusillus	2.570E-07	1.560E-06
2	GM	Clubiona sp → Hebrus ruficeps	2.570E-07	1.560E-06
2	GM	Clubiona sp → Ootetrastichus sp	2.570E-07	8.000E-08
2	GM	Clubiona sp → Thanatus sp	2.570E-07	1.000E-07
2	GM	Clubiona subtilis → Cicadina sp	2.270E-07	7.930E-08
2	GM	Clubiona subtilis → Clubiona sp	2.270E-07	2.570E-07
2	GM	Clubiona subtilis → Hebrus pusillus	2.270E-07	1.560E-06
2	GM	Clubiona subtilis → Hebrus ruficeps	2.270E-07	1.560E-06
2	GM	Clubiona subtilis → Thanatus sp	2.270E-07	1.000E-07
2	GM	Dolomedes fimbriatus → Anisus leucostoma	2.430E-05	5.400E-06
2	GM	Dolomedes fimbriatus → Argiope bruennichi	2.430E-05	4.230E-05
2	GM	Dolomedes fimbriatus → Caelifera sp	2.430E-05	6.660E-05
2	GM	Dolomedes fimbriatus → Chorthippus montanus	2.430E-05	6.160E-05
2	GM	Dolomedes fimbriatus → Chrysops relictus	2.430E-05	6.050E-06
2	GM	Dolomedes fimbriatus → Dolichovespula sylvestris	2.430E-05	2.310E-05
2	GM	Dolomedes fimbriatus → Haematopota sp	2.430E-05	9.300E-06
2	GM	Dolomedes fimbriatus → Ilione albiseta	2.430E-05	6.000E-06
2	GM	Dolomedes fimbriatus → Larinioides cornutus	2.430E-05	2.970E-05
2	GM	Dolomedes fimbriatus → Marpissa radiate	2.430E-05	4.180E-06
2	GM	Dolomedes fimbriatus → Oxyloma elegans	2.430E-05	2.800E-06
2	GM	Dolomedes fimbriatus → Pisaura mirabilis	2.430E-05	8.770E-06

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
2	GM	Dolomedes fimbriatus → Succinea putris	2.430E-05	3.200E-06
2	GM	Dolomedes fimbriatus → Sympetrum sanguineum	2.430E-05	5.060E-05
2	GM	Dolomedes fimbriatus → Sympetrum sp	2.430E-05	8.300E-05
2	GM	Dolomedes fimbriatus → Sympetrum striolatum	2.430E-05	1.750E-04
2	GM	Dolomedes fimbriatus → Sympetrum vulgatum	2.430E-05	6.960E-05
2	GM	Dolomedes fimbriatus → Tetrix sp	2.430E-05	5.800E-06
2	GM	Dolomedes fimbriatus → Tetrix subulata	2.430E-05	4.600E-06
2	GM	Dolomedes fimbriatus → Trichia sericea	2.430E-05	1.200E-06
2	GM	Dolomedes sp → Anisus leucostoma	3.360E-06	5.400E-06
2	GM	Dolomedes sp → Anthocomus coccineus	3.360E-06	3.180E-06
2	GM	Dolomedes sp → Argiope bruennichi	3.360E-06	4.230E-05
2	GM	Dolomedes sp → Chrysops relictus	3.360E-06	6.050E-06
2	GM	Dolomedes sp → Cloeon simile	3.360E-06	1.200E-06
2	GM	Dolomedes sp → Culex sp	3.360E-06	2.500E-07
2	GM	Dolomedes sp → Dolomedes sp	3.360E-06	3.360E-06
2	GM	Dolomedes sp → Euconulus alderi	3.360E-06	1.600E-06
2	GM	Dolomedes sp → Evarcha arcuata	3.360E-06	5.000E-06
2	GM	Dolomedes sp → Formica sp	3.360E-06	7.000E-07
2	GM	Dolomedes sp → Haematopota sp	3.360E-06	9.300E-06
2	GM	Dolomedes sp → Herina parva	3.360E-06	4.950E-07
2	GM	Dolomedes sp → Ilione albiseta	3.360E-06	6.000E-06
2	GM	Dolomedes sp → Larinioides cornutus	3.360E-06	2.970E-05
2	GM	Dolomedes sp → Larinioides sp	3.360E-06	3.150E-06
2	GM	Dolomedes sp → Limonia sp	3.360E-06	1.000E-07
2	GM	Dolomedes sp → Marpissa radiate	3.360E-06	4.180E-06
2	GM	Dolomedes sp → Micrommata virescens	3.360E-06	1.340E-05
2	GM	Dolomedes sp → Muscidae copro	3.360E-06	4.500E-07
2	GM	Dolomedes sp → Muscidae flor	3.360E-06	4.500E-07
2	GM	Dolomedes sp → Oxyloma elegans	3.360E-06	2.800E-06
2	GM	Dolomedes sp → Oxyloma elegans	3.360E-06	2.800E-06
2	GM	Dolomedes sp → Philaenus spumarius	3.360E-06	2.400E-06
2	GM	Dolomedes sp → Pisaura mirabilis	3.360E-06	8.770E-06
2	GM	Dolomedes sp → Psacadina zernyi	3.360E-06	2.300E-06
2	GM	Dolomedes sp → Stalia boops	3.360E-06	2.500E-06
2	GM	Dolomedes sp → Succinea putris	3.360E-06	3.200E-06
2	GM	Dolomedes sp → Tetramorium sp	3.360E-06	7.000E-07
2	GM	Dolomedes sp → Tibellus sp	3.360E-06	4.600E-06
2	GM	Dolomedes sp → Trichia sericea	3.360E-06	1.200E-06
2	GM	Dolomedes sp → Vertigo antivertigo	3.360E-06	6.670E-07
2	GM	Edaphus blühweissi → Acanthinula aculeata	2.740E-08	4.330E-07
2	GM	Edaphus blühweissi → Acari (phyto)	2.740E-08	1.000E-08
2	GM	Edaphus blühweissi → Acari (pred)	2.740E-08	1.000E-08
2	GM	Euaesthetus ruficapillus → Acanthinula aculeata	9.700E-08	4.330E-07
2	GM	Euaesthetus ruficapillus → Antistea elegans	9.700E-08	3.730E-07
2	GM	Euaesthetus ruficapillus → Bryaxis sp	9.700E-08	4.300E-08
2	GM	Euaesthetus ruficapillus → Chaetarthria seminulum	9.700E-08	1.000E-07
2	GM	Euaesthetus ruficapillus → Cicadina	9.700E-08	7.930E-08
2	GM	Euaesthetus ruficapillus → Edaphus blühweissi	9.700E-08	2.740E-08
2	GM	Euaesthetus ruficapillus → Gongylidiellum murcidum	9.700E-08	1.000E-07
2	GM	Euaesthetus ruficapillus → Hebrus pusillus	9.700E-08	1.560E-06

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
2	GM	Euaesthetus ruficapillus → Hebrus ruficeps	9.700E-08	1.560E-06
2	GM	Euaesthetus ruficapillus → Ligidium hypnorum	9.700E-08	2.190E-06
2	GM	Euaesthetus ruficapillus → Neon valentulus	9.700E-08	1.210E-07
2	GM	Euaesthetus ruficapillus → Vertigo antivertigo	9.700E-08	6.670E-07
2	GM	Euaesthetus ruficapillus → Vertigo moulinsiana	9.700E-08	6.750E-07
2	GM	Euaesthetus ruficapillus → Zora sp	9.700E-08	8.280E-08
2	GM	Formica sp → Acanthinula aculeata	7.000E-07	4.330E-07
2	GM	Formica sp → Acupalpus flavicollis	7.000E-07	7.000E-07
2	GM	Formica sp → Anisus leucostoma	7.000E-07	5.400E-06
2	GM	Formica sp → Anthocomus coccineus	7.000E-07	3.180E-06
2	GM	Formica sp → Bryaxis sp	7.000E-07	4.300E-08
2	GM	Formica sp → Chaetarthria seminulum	7.000E-07	1.000E-07
2	GM	Formica sp → Chartoscirta cincta	7.000E-07	1.590E-06
2	GM	Formica sp → Cicadina	7.000E-07	7.930E-08
2	GM	Formica sp → Clubiona sp	7.000E-07	2.570E-07
2	GM	Formica sp → Clubiona subtilis	7.000E-07	2.270E-07
2	GM	Formica sp → Dryops auriculatus	7.000E-07	1.690E-06
2	GM	Formica sp → Dryops sp	7.000E-07	1.850E-06
2	GM	Formica sp → Edaphus blühweissi	7.000E-07	2.740E-08
2	GM	Formica sp → Euaesthetus ruficapillus	7.000E-07	9.700E-08
2	GM	Formica sp → Euconulus alderi	7.000E-07	1.600E-06
2	GM	Formica sp → Evarcha arcuata	7.000E-07	5.000E-06
2	GM	Formica sp → Evarcha sp	7.000E-07	1.100E-06
2	GM	Formica sp → Hebrus pusillus	7.000E-07	1.560E-06
2	GM	Formica sp → Hebrus ruficeps	7.000E-07	1.560E-06
2	GM	Formica sp → Lesteva sicula	7.000E-07	5.000E-07
2	GM	Formica sp → Ligidium hypnorum	7.000E-07	2.190E-06
2	GM	Formica sp → Micrommata virescens	7.000E-07	1.340E-05
2	GM	Formica sp → Neon valentulus	7.000E-07	1.210E-07
2	GM	Formica sp → Nestus carbonarius	7.000E-07	3.000E-07
2	GM	Formica sp → Oxyloma elegans	7.000E-07	2.800E-06
2	GM	Formica sp → Ozyptila sp	7.000E-07	1.320E-06
2	GM	Formica sp → Pardosa sp	7.000E-07	2.810E-07
2	GM	Formica sp → Philaenus spumarius	7.000E-07	2.400E-06
2	GM	Formica sp → Pirata sp	7.000E-07	6.670E-07
2	GM	Formica sp → Thanatus sp	7.000E-07	1.000E-07
2	GM	Formica sp → Tibellus sp	7.000E-07	4.600E-06
2	GM	Formica sp → Trichia sericea	7.000E-07	1.200E-06
2	GM	Formica sp → Vertigo antivertigo	7.000E-07	6.670E-07
2	GM	Formica sp → Vertigo moulinsiana	7.000E-07	6.750E-07
2	GM	Formica sp → Zelotes sp	7.000E-07	9.370E-06
2	GM	Formica sp → Zora sp	7.000E-07	8.280E-08
2	GM	Gongylidiellum murcidum → Edaphus blühweissi	1.000E-07	2.740E-08
2	GM	Haematopota sp → Capreolus capreolus	9.300E-06	2.000E+01
2	GM	Haematopota sp → Vulpes vulpes	9.300E-06	5.000
2	GM	Lacerta agilis → Brachycera	1.000E-02	2.800E-07
2	GM	Lacerta agilis → Caelifera	1.000E-02	6.660E-05
2	GM	Lacerta agilis → Chorthippus montanus	1.000E-02	6.160E-05
2	GM	Lacerta agilis → Ligidium hypnorum	1.000E-02	2.190E-06
2	GM	Lacerta agilis → Paederus riparius	1.000E-02	2.800E-06

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
2	GM	Lacerta agilis → Porcellium conspersum	1.000E-02	4.300E-06
2	GM	Lacerta agilis → Tetrix sp	1.000E-02	5.800E-06
2	GM	Lacerta agilis → Tetrix subulata	1.000E-02	4.600E-06
2	GM	Lacerta agilis → Trachelipus rathkei	1.000E-02	5.530E-06
2	GM	Lesteva sicula → Antistea elegans	5.000E-07	3.730E-07
2	GM	Lesteva sicula → Antistea elegans	5.000E-07	3.730E-07
2	GM	Lesteva sicula → Bryaxis sp	5.000E-07	4.300E-08
2	GM	Lesteva sicula → Chaetarthria seminulum	5.000E-07	1.000E-07
2	GM	Lesteva sicula → Chartoscirta cincta	5.000E-07	1.590E-06
2	GM	Lesteva sicula → Cicadina	5.000E-07	7.930E-08
2	GM	Lesteva sicula → Edaphus blühweissi	5.000E-07	2.740E-08
2	GM	Lesteva sicula → Euaesthetus ruficapillus	5.000E-07	9.700E-08
2	GM	Lesteva sicula → Euconulus alderi	5.000E-07	1.600E-06
2	GM	Lesteva sicula → Gongylidiellum murcidum	5.000E-07	1.000E-07
2	GM	Lesteva sicula → Hebrus pusillus	5.000E-07	1.560E-06
2	GM	Lesteva sicula → Hebrus ruficeps	5.000E-07	1.560E-06
2	GM	Lesteva sicula → Ligidium hypnorum	5.000E-07	2.190E-06
2	GM	Lesteva sicula → Neon valentulus	5.000E-07	1.210E-07
2	GM	Lesteva sicula → Oxyloma elegans	5.000E-07	2.800E-06
2	GM	Lesteva sicula → Ozyptila sp	5.000E-07	1.320E-06
2	GM	Lesteva sicula → Pardosa sp	5.000E-07	2.810E-07
2	GM	Lesteva sicula → Pirata sp	5.000E-07	6.670E-07
2	GM	Lesteva sicula → Robertus sp	5.000E-07	4.500E-07
2	GM	Lesteva sicula → Vertigo antivertigo	5.000E-07	6.670E-07
2	GM	Lesteva sicula → Vertigo moulinsiana	5.000E-07	6.750E-07
2	GM	Lesteva sicula → Zora sp	5.000E-07	8.280E-08
2	GM	Locustella naevia → Acupalpus flavicollis	1.300E-02	7.000E-07
2	GM	Locustella naevia → Anisus leucostoma	1.300E-02	5.400E-06
2	GM	Locustella naevia → Anthocomus coccineus	1.300E-02	3.180E-06
2	GM	Locustella naevia → Brachycera	1.300E-02	2.800E-07
2	GM	Locustella naevia → Caelifera	1.300E-02	6.660E-05
2	GM	Locustella naevia → Chartoscirta cincta	1.300E-02	1.590E-06
2	GM	Locustella naevia → Chorthippus montanus	1.300E-02	6.160E-05
2	GM	Locustella naevia → Cloeon simile	1.300E-02	1.200E-06
2	GM	Locustella naevia → Clubiona sp	1.300E-02	2.570E-07
2	GM	Locustella naevia → Clubiona subtilis	1.300E-02	2.270E-07
2	GM	Locustella naevia → Dolichovespula sylvestris	1.300E-02	2.310E-05
2	GM	Locustella naevia → Dolomedes fimbriatus	1.300E-02	2.430E-05
2	GM	Locustella naevia → Dolomedes sp	1.300E-02	3.360E-06
2	GM	Locustella naevia → Dryops auriculatus	1.300E-02	1.690E-06
2	GM	Locustella naevia → Dryops sp	1.300E-02	1.850E-06
2	GM	Locustella naevia → Euconulus alderi	1.300E-02	1.600E-06
2	GM	Locustella naevia → Evarcha arcuata	1.300E-02	5.000E-06
2	GM	Locustella naevia → Evarcha sp	1.300E-02	1.100E-06
2	GM	Locustella naevia → Formica sp	1.300E-02	7.000E-07
2	GM	Locustella naevia → Lesteva sicula	1.300E-02	5.000E-07
2	GM	Locustella naevia → Ligidium hypnorum	1.300E-02	2.190E-06
2	GM	Locustella naevia → Ligidium hypnorum	1.300E-02	2.190E-06
2	GM	Locustella naevia → Limonia sp	1.300E-02	1.000E-07
2	GM	Locustella naevia → Marpissa radiate	1.300E-02	4.180E-06

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
2	GM	Locustella naevia → Micrommata virescens	1.300E-02	1.340E-05
2	GM	Locustella naevia → Neon valentulus	1.300E-02	1.210E-07
2	GM	Locustella naevia → Nestus carbonarius	1.300E-02	3.000E-07
2	GM	Locustella naevia → Orthetrum cancellatum	1.300E-02	7.930E-05
2	GM	Locustella naevia → Oxyloma elegans	1.300E-02	2.800E-06
2	GM	Locustella naevia → Oxyloma elegans	1.300E-02	2.800E-06
2	GM	Locustella naevia → Ozyptila sp	1.300E-02	1.320E-06
2	GM	Locustella naevia → Paederus riparius	1.300E-02	2.800E-06
2	GM	Locustella naevia → Pardosa sp	1.300E-02	2.810E-07
2	GM	Locustella naevia → Philaenus spumarius	1.300E-02	2.400E-06
2	GM	Locustella naevia → Pirata sp	1.300E-02	6.670E-07
2	GM	Locustella naevia → Pisaura mirabilis	1.300E-02	8.770E-06
2	GM	Locustella naevia → Porcellium conspersum	1.300E-02	4.300E-06
2	GM	Locustella naevia → Robertus sp	1.300E-02	4.500E-07
2	GM	Locustella naevia → Somatochlora sp	1.300E-02	1.070E-04
2	GM	Locustella naevia → Stalia boops	1.300E-02	2.500E-06
2	GM	Locustella naevia → Succinea putris	1.300E-02	3.200E-06
2	GM	Locustella naevia → Sympetrum sanguineum	1.300E-02	5.060E-05
2	GM	Locustella naevia → Sympetrum sp	1.300E-02	8.300E-05
2	GM	Locustella naevia → Sympetrum striolatum	1.300E-02	1.750E-04
2	GM	Locustella naevia → Sympetrum vulgatum	1.300E-02	6.960E-05
2	GM	Locustella naevia → Tetragnatha extensa	1.300E-02	2.000E-06
2	GM	Locustella naevia → Tetramorium sp	1.300E-02	7.000E-07
2	GM	Locustella naevia → Tetrix sp	1.300E-02	5.800E-06
2	GM	Locustella naevia → Tetrix subulata	1.300E-02	4.600E-06
2	GM	Locustella naevia → Thanatus sp	1.300E-02	1.000E-07
2	GM	Locustella naevia → Tibellus sp	1.300E-02	4.600E-06
2	GM	Locustella naevia → Tibellus sp	1.300E-02	4.600E-06
2	GM	Locustella naevia → Trachelipus rathkei	1.300E-02	5.530E-06
2	GM	Locustella naevia → Trichia sericea	1.300E-02	1.200E-06
2	GM	Locustella naevia → Zelotes sp	1.300E-02	9.370E-06
2	GM	Micrommata virescens → Chartoscirta cincta	1.340E-05	1.590E-06
2	GM	Micrommata virescens → Culex sp	1.340E-05	2.500E-07
2	GM	Micrommata virescens → Evarcha sp	1.340E-05	1.100E-06
2	GM	Micrommata virescens → Herina parva	1.340E-05	4.950E-07
2	GM	Micrommata virescens → Limonia sp	1.340E-05	1.000E-07
2	GM	Micrommata virescens → Muscidae copro	1.340E-05	4.500E-07
2	GM	Micrommata virescens → Muscidae flor	1.340E-05	4.500E-07
2	GM	Micrommata virescens → Tetramorium sp	1.340E-05	7.000E-07
2	GM	Natrix natrix → Anguis fragilis	1.000E-01	2.000E-02
2	GM	Natrix natrix → Lacerta agilis	1.000E-01	1.000E-02
2	GM	Natrix natrix → Microtus agrestis	1.000E-01	3.500E-02
2	GM	Neon valentulus → Bryaxis sp	1.210E-07	4.300E-08
2	GM	Neon valentulus → Chaetarthria seminulum	1.210E-07	1.000E-07
2	GM	Neon valentulus → Edaphus blühweissi	1.210E-07	2.740E-08
2	GM	Nestus carbonarius → Anisus leucostoma	3.000E-07	5.400E-06
2	GM	Nestus carbonarius → Antistea elegans	3.000E-07	3.730E-07
2	GM	Nestus carbonarius → Antistea elegans	3.000E-07	3.730E-07
2	GM	Nestus carbonarius → Bryaxis sp	3.000E-07	4.300E-08
2	GM	Nestus carbonarius → Chaetarthria seminulum	3.000E-07	1.000E-07

doi:10.1038/nature11131

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
2	GM	Nestus carbonarius → Chartoscirta cincta	3.000E-07	1.590E-06
2	GM	Nestus carbonarius → Cicadina	3.000E-07	7.930E-08
2	GM	Nestus carbonarius → Edaphus blühweissi	3.000E-07	2.740E-08
2	GM	Nestus carbonarius → Euaesthetus ruficapillus	3.000E-07	9.700E-08
2	GM	Nestus carbonarius → Euconulus alderi	3.000E-07	1.600E-06
2	GM	Nestus carbonarius → Gongylidiellum murcidum	3.000E-07	1.000E-07
2	GM	Nestus carbonarius → Hebrus pusillus	3.000E-07	1.560E-06
2	GM	Nestus carbonarius → Hebrus ruficeps	3.000E-07	1.560E-06
2	GM	Nestus carbonarius → Lesteva sicula	3.000E-07	5.000E-07
2	GM	Nestus carbonarius → Ligidium hypnorum	3.000E-07	2.190E-06
2	GM	Nestus carbonarius → Neon valentulus	3.000E-07	1.210E-07
2	GM	Nestus carbonarius → Oxyloma elegans	3.000E-07	2.800E-06
2	GM	Nestus carbonarius → Ozyptila sp	3.000E-07	1.320E-06
2	GM	Nestus carbonarius → Pardosa sp	3.000E-07	2.810E-07
2	GM	Nestus carbonarius → Pirata sp	3.000E-07	6.670E-07
2	GM	Nestus carbonarius → Robertus sp	3.000E-07	4.500E-07
2	GM	Nestus carbonarius → Vertigo antivertigo	3.000E-07	6.670E-07
2	GM	Nestus carbonarius → Vertigo moulinsiana	3.000E-07	6.750E-07
2	GM	Nestus carbonarius → Zelotes sp	3.000E-07	9.370E-06
2	GM	Nestus carbonarius → Zora sp	3.000E-07	8.280E-08
2	GM	Ozyptila sp → Acupalpus flavicollis	1.320E-06	7.000E-07
2	GM	Ozyptila sp → Anthocomus coccineus	1.320E-06	3.180E-06
2	GM	Ozyptila sp → Chartoscirta cincta	1.320E-06	1.590E-06
2	GM	Ozyptila sp → Cicadina	1.320E-06	7.930E-08
2	GM	Ozyptila sp → Clubiona sp	1.320E-06	2.570E-07
2	GM	Ozyptila sp → Clubiona subtilis	1.320E-06	2.270E-07
2	GM	Ozyptila sp → Culex sp	1.320E-06	2.500E-07
2	GM	Ozyptila sp → Dryops auriculatus	1.320E-06	1.690E-06
2	GM	Ozyptila sp → Dryops sp	1.320E-06	1.850E-06
2	GM	Ozyptila sp → Euaesthetus ruficapillus	1.320E-06	9.700E-08
2	GM	Ozyptila sp → Evarcha arcuata	1.320E-06	5.000E-06
2	GM	Ozyptila sp → Evarcha sp	1.320E-06	1.100E-06
2	GM	Ozyptila sp → Hebrus pusillus	1.320E-06	1.560E-06
2	GM	Ozyptila sp → Hebrus ruficeps	1.320E-06	1.560E-06
2	GM	Ozyptila sp → Herina parva	1.320E-06	4.950E-07
2	GM	Ozyptila sp → Lesteva sicula	1.320E-06	5.000E-07
2	GM	Ozyptila sp → Ligidium hypnorum	1.320E-06	2.190E-06
2	GM	Ozyptila sp → Limonia sp	1.320E-06	1.000E-07
2	GM	Ozyptila sp → Muscidae copro	1.320E-06	4.500E-07
2	GM	Ozyptila sp → Muscidae flor	1.320E-06	4.500E-07
2	GM	Ozyptila sp → Neon valentulus	1.320E-06	1.210E-07
2	GM	Ozyptila sp → Nestus carbonarius	1.320E-06	3.000E-07
2	GM	Ozyptila sp → Ozyptila sp	1.320E-06	1.320E-06
2	GM	Ozyptila sp → Philaenus spumarius	1.320E-06	2.400E-06
2	GM	Ozyptila sp → Tetramorium sp	1.320E-06	7.000E-07
2	GM	Ozyptila sp → Zelotes sp	1.320E-06	9.370E-06
2	GM	Ozyptila sp → Zora sp	1.320E-06	8.280E-08
2	GM	Paederus riparius → Acupalpus flavicollis	2.800E-06	7.000E-07
2	GM	Paederus riparius → Anisus leucostoma	2.800E-06	5.400E-06
2	GM	Paederus riparius → Antistea elegans	2.800E-06	3.730E-07

doi:10.1038/nature11131

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
2	GM	Paederus riparius → Chartoscirta cincta	2.800E-06	1.590E-06
2	GM	Paederus riparius → Dryops auriculatus	2.800E-06	1.690E-06
2	GM	Paederus riparius → Dryops sp	2.800E-06	1.850E-06
2	GM	Paederus riparius → Formica sp	2.800E-06	7.000E-07
2	GM	Paederus riparius → Lesteva sicula	2.800E-06	5.000E-07
2	GM	Paederus riparius → Ligidium hypnorum	2.800E-06	2.190E-06
2	GM	Paederus riparius → Nestus carbonarius	2.800E-06	3.000E-07
2	GM	Paederus riparius → Oxyloma elegans	2.800E-06	2.800E-06
2	GM	Paederus riparius → Oxyloma elegans	2.800E-06	2.800E-06
2	GM	Paederus riparius → Ozyptila sp	2.800E-06	1.320E-06
2	GM	Paederus riparius → Pardosa sp	2.800E-06	2.810E-07
2	GM	Paederus riparius → Philaenus spumarius	2.800E-06	2.400E-06
2	GM	Paederus riparius → Pirata sp	2.800E-06	6.670E-07
2	GM	Paederus riparius → Porcellium conspersum	2.800E-06	4.300E-06
2	GM	Paederus riparius → Robertus sp	2.800E-06	4.500E-07
2	GM	Paederus riparius → Stalia boops	2.800E-06	2.500E-06
2	GM	Paederus riparius → Succinea putris	2.800E-06	3.200E-06
2	GM	Paederus riparius → Tetramorium sp	2.800E-06	7.000E-07
2	GM	Paederus riparius → Trachelipus rathkei	2.800E-06	5.530E-06
2	GM	Paederus riparius → Trichia sericea	2.800E-06	1.200E-06
2	GM	Paederus riparius → Zelotes sp	2.800E-06	9.370E-06
2	GM	Pardosa sp → Bryaxis sp	2.810E-07	4.300E-08
2	GM	Pardosa sp → Chaetarthria seminulum	2.810E-07	1.000E-07
2	GM	Pardosa sp → Cicadina	2.810E-07	7.930E-08
2	GM	Pardosa sp → Hebrus pusillus	2.810E-07	1.560E-06
2	GM	Pardosa sp → Hebrus ruficeps	2.810E-07	1.560E-06
2	GM	Pardosa sp → Ligidium hypnorum	2.810E-07	2.190E-06
2	GM	Pardosa sp → Zora sp	2.810E-07	8.280E-08
2	GM	Pirata sp → Cicadina	6.670E-07	7.930E-08
2	GM	Pirata sp → Euaesthetus ruficapillus	6.670E-07	9.700E-08
2	GM	Pirata sp → Hebrus pusillus	6.670E-07	1.560E-06
2	GM	Pirata sp → Hebrus ruficeps	6.670E-07	1.560E-06
2	GM	Pirata sp → Ligidium hypnorum	6.670E-07	2.190E-06
2	GM	Pirata sp → Neon valentulus	6.670E-07	1.210E-07
2	GM	Pirata sp → Pardosa sp	6.670E-07	2.810E-07
2	GM	Pirata sp → Zora sp	6.670E-07	8.280E-08
2	GM	Pisaura mirabilis → Anthocomus coccineus	8.770E-06	3.180E-06
2	GM	Pisaura mirabilis → Chrysops relictus	8.770E-06	6.050E-06
2	GM	Pisaura mirabilis → Cloeon simile	8.770E-06	1.200E-06
2	GM	Pisaura mirabilis → Dolomedes fimbriatus	8.770E-06	2.430E-05
2	GM	Pisaura mirabilis → Dolomedes sp	8.770E-06	3.360E-06
2	GM	Pisaura mirabilis → Formica sp	8.770E-06	7.000E-07
2	GM	Pisaura mirabilis → Haematopota sp	8.770E-06	9.300E-06
2	GM	Pisaura mirabilis → Ilione albiseta	8.770E-06	6.000E-06
2	GM	Pisaura mirabilis → Marpissa radiata	8.770E-06	4.180E-06
2	GM	Pisaura mirabilis → Micrommata virescens	8.770E-06	1.340E-05
2	GM	Pisaura mirabilis → Pisaura mirabilis	8.770E-06	8.770E-06
2	GM	Pisaura mirabilis → Psacadina zernyi	8.770E-06	2.300E-06
2	GM	Pisaura mirabilis → Stalia boops	8.770E-06	2.500E-06
2	GM	Pisaura mirabilis → Tetrix sp	8.770E-06	5.800E-06

doi:10.1038/nature11131

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
2	GM	Pisaura mirabilis → Tetrix subulata	8.770E-06	4.600E-06
2	GM	Pisaura mirabilis → Tibellus sp	8.770E-06	4.600E-06
2	GM	Pisaura mirabilis → Tibellus sp	8.770E-06	4.600E-06
2	GM	Robertus sp → Acupalpus flavicollis	4.500E-07	7.000E-07
2	GM	Robertus sp → Brachycera	4.500E-07	2.800E-07
2	GM	Robertus sp → Bryaxis sp	4.500E-07	4.300E-08
2	GM	Robertus sp → Chaetarthria seminulum	4.500E-07	1.000E-07
2	GM	Robertus sp → Chartoscirta cincta	4.500E-07	1.590E-06
2	GM	Robertus sp → Cicadina	4.500E-07	7.930E-08
2	GM	Robertus sp → Dryops auriculatus	4.500E-07	1.690E-06
2	GM	Robertus sp → Dryops sp	4.500E-07	1.850E-06
2	GM	Robertus sp → Euaesthetus ruficapillus	4.500E-07	9.700E-08
2	GM	Robertus sp → Formica sp	4.500E-07	7.000E-07
2	GM	Robertus sp → Hebrus pusillus	4.500E-07	1.560E-06
2	GM	Robertus sp → Hebrus ruficeps	4.500E-07	1.560E-06
2	GM	Robertus sp → Lesteva sicula	4.500E-07	5.000E-07
2	GM	Robertus sp → Ligidium hypnorum	4.500E-07	2.190E-06
2	GM	Robertus sp → Nestus carbonarius	4.500E-07	3.000E-07
2	GM	Robertus sp → Ozyptila sp	4.500E-07	1.320E-06
2	GM	Robertus sp → Paederus riparius	4.500E-07	2.800E-06
2	GM	Robertus sp → Philaenus spumarius	4.500E-07	2.400E-06
2	GM	Robertus sp → Stalia boops	4.500E-07	2.500E-06
2	GM	Robertus sp → Tetramorium sp	4.500E-07	7.000E-07
2	GM	Robertus sp → Zelotes sp	4.500E-07	9.370E-06
2	GM	Robertus sp → Zora sp	4.500E-07	8.280E-08
2	GM	Stalia boops → Acari (phyto)	2.500E-06	1.000E-08
2	GM	Stalia boops → Acari (pred)	2.500E-06	1.000E-08
2	GM	Stalia boops → Brachycera	2.500E-06	2.800E-07
2	GM	Stalia boops → Chartoscirta cincta	2.500E-06	1.590E-06
2	GM	Stalia boops → Cicadina	2.500E-06	7.930E-08
2	GM	Stalia boops → Evarcha sp	2.500E-06	1.100E-06
2	GM	Stalia boops → Hebrus pusillus	2.500E-06	1.560E-06
2	GM	Stalia boops → Hebrus ruficeps	2.500E-06	1.560E-06
2	GM	Stalia boops → Ligidium hypnorum	2.500E-06	2.190E-06
2	GM	Stalia boops → Ligidium hypnorum	2.500E-06	2.190E-06
2	GM	Stalia boops → Neon valentulus	2.500E-06	1.210E-07
2	GM	Stalia boops → Ozyptila sp	2.500E-06	1.320E-06
2	GM	Stalia boops → Pardosa sp	2.500E-06	2.810E-07
2	GM	Stalia boops → Philaenus spumarius	2.500E-06	2.400E-06
2	GM	Stalia boops → Pirata sp	2.500E-06	6.670E-07
2	GM	Stalia boops → Porcellium conspersum	2.500E-06	4.300E-06
2	GM	Stalia boops → Stalia boops	2.500E-06	2.500E-06
2	GM	Stalia boops → Thanatus sp	2.500E-06	1.000E-07
2	GM	Stalia boops → Zelotes sp	2.500E-06	9.370E-06
2	GM	Stalia boops → Zora sp	2.500E-06	8.280E-08
2	GM	Tetramorium sp → Acanthinula aculeata	7.000E-07	4.330E-07
2	GM	Tetramorium sp → Acupalpus flavicollis	7.000E-07	7.000E-07
2	GM	Tetramorium sp → Anisus leucostoma	7.000E-07	5.400E-06
2	GM	Tetramorium sp → Bryaxis sp	7.000E-07	4.300E-08
2	GM	Tetramorium sp → Chaetarthria seminulum	7.000E-07	1.000E-07

doi:10.1038/nature11131

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
2	GM	Tetramorium sp → Chartoscirta cincta	7.000E-07	1.590E-06
2	GM	Tetramorium sp → Cicadina	7.000E-07	7.930E-08
2	GM	Tetramorium sp → Edaphus blühweissi	7.000E-07	2.740E-08
2	GM	Tetramorium sp → Euaesthetus ruficapillus	7.000E-07	9.700E-08
2	GM	Tetramorium sp → Euconulus alderi	7.000E-07	1.600E-06
2	GM	Tetramorium sp → Hebrus pusillus	7.000E-07	1.560E-06
2	GM	Tetramorium sp → Hebrus ruficeps	7.000E-07	1.560E-06
2	GM	Tetramorium sp → Lesteva sicula	7.000E-07	5.000E-07
2	GM	Tetramorium sp → Ligidium hypnorum	7.000E-07	2.190E-06
2	GM	Tetramorium sp → Neon valentulus	7.000E-07	1.210E-07
2	GM	Tetramorium sp → Oxyloma elegans	7.000E-07	2.800E-06
2	GM	Tetramorium sp → Ozyptila sp	7.000E-07	1.320E-06
2	GM	Tetramorium sp → Pirata sp	7.000E-07	6.670E-07
2	GM	Tetramorium sp → Vertigo antivertigo	7.000E-07	6.670E-07
2	GM	Tetramorium sp → Vertigo moulinsiana	7.000E-07	6.750E-07
2	GM	Tetramorium sp → Zelotes sp	7.000E-07	9.370E-06
2	GM	Tetramorium sp → Zora sp	7.000E-07	8.280E-08
2	GM	Thanatus sp → Cicadina	1.000E-07	7.930E-08
2	GM	Thanatus sp → Hebrus pusillus	1.000E-07	1.560E-06
2	GM	Thanatus sp → Hebrus ruficeps	1.000E-07	1.560E-06
2	GM	Thanatus sp → Ootetrastichus sp	1.000E-07	8.000E-08
2	GM	Thanatus sp → Ozyptila sp	1.000E-07	1.320E-06
2	GM	Thanatus sp → Thanatus sp	1.000E-07	1.000E-07
2	GM	Tibellus sp → Anthocomus coccineus	4.600E-06	3.180E-06
2	GM	Tibellus sp → Anthocomus coccineus	4.600E-06	3.180E-06
2	GM	Tibellus sp → Chartoscirta cincta	4.600E-06	1.590E-06
2	GM	Tibellus sp → Chrysops relictus	4.600E-06	6.050E-06
2	GM	Tibellus sp → Cloeon simile	4.600E-06	1.200E-06
2	GM	Tibellus sp → Culex sp	4.600E-06	2.500E-07
2	GM	Tibellus sp → Dolomedes sp	4.600E-06	3.360E-06
2	GM	Tibellus sp → Evarcha arcuata	4.600E-06	5.000E-06
2	GM	Tibellus sp → Evarcha sp	4.600E-06	1.100E-06
2	GM	Tibellus sp → Haematopota sp	4.600E-06	9.300E-06
2	GM	Tibellus sp → Herina parva	4.600E-06	4.950E-07
2	GM	Tibellus sp → Ilione albiseta	4.600E-06	6.000E-06
2	GM	Tibellus sp → Limonia sp	4.600E-06	1.000E-07
2	GM	Tibellus sp → Limonia sp	4.600E-06	1.000E-07
2	GM	Tibellus sp → Marpissa radiata	4.600E-06	4.180E-06
2	GM	Tibellus sp → Muscidae copro	4.600E-06	4.500E-07
2	GM	Tibellus sp → Muscidae flor	4.600E-06	4.500E-07
2	GM	Tibellus sp → Ozyptila sp	4.600E-06	1.320E-06
2	GM	Tibellus sp → Philaenus spumarius	4.600E-06	2.400E-06
2	GM	Tibellus sp → Pisaura mirabilis	4.600E-06	8.770E-06
2	GM	Tibellus sp → Psacadina zernyi	4.600E-06	2.300E-06
2	GM	Tibellus sp → Stalia boops	4.600E-06	2.500E-06
2	GM	Tibellus sp → Tetrix sp	4.600E-06	5.800E-06
2	GM	Tibellus sp → Tetrix subulata	4.600E-06	4.600E-06
2	GM	Vulpes vulpes → Caelifera	5.000	6.660E-05
2	GM	Vulpes vulpes → Chorthippus montanus	5.000	6.160E-05
2	GM	Vulpes vulpes → Microtus agrestis	5.000	3.500E-02

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
2	GM	Vulpes vulpes → Tetrix sp	5.000	5.800E-06
2	GM	Vulpes vulpes → Tetrix subulata	5.000	4.600E-06
2	GM	Zelotes sp → Acupalpus flavicollis	9.370E-06	7.000E-07
2	GM	Zelotes sp → Chartoscirta cincta	9.370E-06	1.590E-06
2	GM	Zelotes sp → Lesteva sicula	9.370E-06	5.000E-07
2	GM	Zelotes sp → Ozyptila sp	9.370E-06	1.320E-06
2	GM	Zelotes sp → Pardosa sp	9.370E-06	2.810E-07
2	GM	Zelotes sp → Pirata sp	9.370E-06	6.670E-07
2	GM	Zora sp → Bryaxis sp	8.280E-08	4.300E-08
2	GM	Zora sp → Chaetarthria seminulum	8.280E-08	1.000E-07
2	GM	Zora sp → Edaphus blühweissi	8.280E-08	2.740E-08
2	SB	Abax parellelopipedus → Phytodecta olivacea	2.540E-04	4.300E-06
2	SB	Abax parellelopipedus → Sitona regensteinensis	2.540E-04	6.250E-06
2	SB	Ablaxis sp. → Phoeophthorus rhododactylus	1.210E-07	4.160E-07
2	SB	Acyrthosiphon pisum → Cytisus scoparius	1.740E-06	7.298E-02
2	SB	Adalia bipunctata → Acyrthosiphon pisum	6.250E-06	1.740E-06
2	SB	Adalia bipunctata → Aphis sarathamni	6.250E-06	1.610E-06
2	SB	Adalia bipunctata → Arytaina genistae	6.250E-06	1.340E-06
2	SB	Adalia bipunctata → Arytaina spartii	6.250E-06	1.340E-06
2	SB	Adalia decempunctata → Acyrthosiphon pisum	5.380E-06	1.740E-06
2	SB	Adalia decempunctata → Aphis sarathamni	5.380E-06	1.610E-06
2	SB	Adalia decempunctata → Arytaina genistae	5.380E-06	1.340E-06
2	SB	Adalia decempunctata → Arytaina spartii	5.380E-06	1.340E-06
2	SB	Anaphes autumnalis → Orthotylus virescens	9.220E-08	5.220E-06
2	SB	Anatis ocellata → Acyrthosiphon pisum	3.310E-05	1.740E-06
2	SB	Anatis ocellata → Aphis sarathamni	3.310E-05	1.610E-06
2	SB	Anatis ocellata → Arytaina genistae	3.310E-05	1.340E-06
2	SB	Anatis ocellata → Arytaina spartii	3.310E-05	1.340E-06
2	SB	Anthocoris nemoralis → Acyrthosiphon pisum	3.240E-06	1.740E-06
2	SB	Anthocoris nemoralis → Aphis sarathamni	3.240E-06	1.610E-06
2	SB	Anthocoris nemoralis → Arytaina genistae	3.240E-06	1.340E-06
2	SB	Anthocoris nemoralis → Arytaina spartii	3.240E-06	1.340E-06
2	SB	Anthocoris nemoralis → Asciodema obsoletum	3.240E-06	4.590E-06
2	SB	Anthocoris nemoralis → Heterocordylus tibialis	3.240E-06	8.020E-06
2	SB	Anthocoris nemoralis → Orthotylus adenocarpi	3.240E-06	5.220E-06
2	SB	Anthocoris nemoralis → Orthotylus concolor	3.240E-06	5.220E-06
2	SB	Anthocoris nemoralis → Orthotylus virescens	3.240E-06	5.220E-06
2	SB	Anthocoris nemoralis → Phytodecta olivacea	3.240E-06	4.300E-06
2	SB	Anthocoris nemorum → Acyrthosiphon pisum	3.240E-06	1.740E-06
2	SB	Anthocoris nemorum → Aphis sarathamni	3.240E-06	1.610E-06
2	SB	Anthocoris nemorum → Arytaina genistae	3.240E-06	1.340E-06
2	SB	Anthocoris nemorum → Arytaina spartii	3.240E-06	1.340E-06
2	SB	Anthocoris nemorum → Asciodema obsoletum	3.240E-06	4.590E-06
2	SB	Anthocoris nemorum → Heterocordylus tibialis	3.240E-06	8.020E-06
2	SB	Anthocoris nemorum → Orthotylus adenocarpi	3.240E-06	5.220E-06
2	SB	Anthocoris nemorum → Orthotylus concolor	3.240E-06	5.220E-06
2	SB	Anthocoris nemorum → Orthotylus virescens	3.240E-06	5.220E-06
2	SB	Anthocoris nemorum → Phytodecta olivacea	3.240E-06	4.300E-06
2	SB	Anthocoris sarothamni → Acyrthosiphon pisum	3.610E-06	1.740E-06
2	SB	Anthocoris sarothamni → Aphis sarathamni	3.610E-06	1.610E-06

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
2	SB	Anthocoris sarothamni → Arytaina genistae	3.610E-06	1.340E-06
2	SB	Anthocoris sarothamni → Arytaina spartii	3.610E-06	1.340E-06
2	SB	Anthocoris sarothamni → Asciodema obsoletum	3.610E-06	4.590E-06
2	SB	Anthocoris sarothamni → Heterocordylus tibialis	3.610E-06	8.020E-06
2	SB	Anthocoris sarothamni → Orthotylus adenocarpi	3.610E-06	5.220E-06
2	SB	Anthocoris sarothamni → Orthotylus concolor	3.610E-06	5.220E-06
2	SB	Anthocoris sarothamni → Orthotylus virescens	3.610E-06	5.220E-06
2	SB	Anthocoris sarothamni → Phytodecta olivacea	3.610E-06	4.300E-06
2	SB	Anystis baccarum → Asciodema obsoletum	2.180E-07	4.590E-06
2	SB	Anystis baccarum → Bruchidius ater	2.180E-07	1.770E-06
2	SB	Anystis baccarum → Heterocordylus tibialis	2.180E-07	8.020E-06
2	SB	Anystis baccarum → Orthotylus adenocarpi	2.180E-07	5.220E-06
2	SB	Anystis baccarum → Orthotylus concolor	2.180E-07	5.220E-06
2	SB	Anystis baccarum → Orthotylus virescens	2.180E-07	5.220E-06
2	SB	Anystis baccarum → Phytodecta olivacea	2.180E-07	4.300E-06
2	SB	Apanteles fulvipes → Chesias legatella	1.980E-06	4.050E-05
2	SB	Apanteles vitripennis → Chesias legatella	2.310E-06	4.050E-05
2	SB	Apanteles vitripennis → Chesias rufata	2.310E-06	2.360E-04
2	SB	Aphanoginus venustus → Lestodiplosis sp.	1.960E-07	3.510E-07
2	SB	Aphidius sp.1 → Acyrthosiphon pisum	1.200E-06	1.740E-06
2	SB	Aphidius sp.2 → Acyrthosiphon pisum	1.640E-06	1.740E-06
2	SB	Aphis sarathamni → Cytisus scoparius	1.610E-06	7.298E-02
2	SB	Apion fuscirostre → Cytisus scoparius	9.820E-07	7.298E-02
2	SB	Apion immune → Cytisus scoparius	1.270E-06	7.298E-02
2	SB	Aprostocetus brevicornis → Asphondylia sarothamni	9.590E-07	8.490E-07
2	SB	Aprostocetus brevicornis → Trotteria sarothamni	9.590E-07	7.470E-07
2	SB	Aprostocetus sp. nr.aethiops → Contarinia pulchripes	9.590E-07	7.470E-07
2	SB	Aprostocetus tibialis → Habrocytus sequester	5.750E-07	9.470E-07
2	SB	Arytaina genistae → Cytisus scoparius	1.340E-06	7.298E-02
2	SB	Arytaina spartii → Cytisus scoparius	1.340E-06	7.298E-02
2	SB	Asaphes sp. → Acyrthosiphon pisum	4.220E-07	1.740E-06
2	SB	Asaphes sp. → Aphidius sp.1	4.220E-07	1.200E-06
2	SB	Asaphes sp. → Aphidius sp.2	4.220E-07	1.640E-06
2	SB	Asaphes sp. → Ephedrus sp.	4.220E-07	3.500E-07
2	SB	Asaphes sp. → Praon sp.	4.220E-07	7.470E-07
2	SB	Asciodema obsoletum → Acyrthosiphon pisum	4.590E-06	1.740E-06
2	SB	Asciodema obsoletum → Aphis sarathamni	4.590E-06	1.610E-06
2	SB	Asciodema obsoletum → Arytaina genistae	4.590E-06	1.340E-06
2	SB	Asciodema obsoletum → Arytaina spartii	4.590E-06	1.340E-06
2	SB	Asciodema obsoletum → Cytisus scoparius	4.590E-06	7.298E-02
2	SB	Asciodema obsoletum → Orthotylus adenocarpi	4.590E-06	5.220E-06
2	SB	Asciodema obsoletum → Orthotylus concolor	4.590E-06	5.220E-06
2	SB	Asciodema obsoletum → Orthotylus virescens	4.590E-06	5.220E-06
2	SB	Asciodema obsoletum → Phytodecta olivacea	4.590E-06	4.300E-06
2	SB	Asolcus sp.1 → Ptezodoratus lituratus	1.210E-07	1.340E-06
2	SB	Asolcus sp.2 → Ptezodoratus lituratus	1.960E-07	1.340E-06
2	SB	Asphondylia sarothamni → Cytisus scoparius	8.490E-07	7.298E-02
2	SB	Bruchidius ater → Cytisus scoparius	1.770E-06	7.298E-02
2	SB	Centistes excrucians → Sitona regensteinensis	1.020E-06	6.250E-06
2	SB	Charips sp. → Aphidius sp.1	5.670E-07	1.200E-06

doi:10.1038/nature11131

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
2	SB	Charips sp. → Aphidius sp.2	5.670E-07	1.640E-06
2	SB	Charips sp. → Ephedrus sp.	5.670E-07	3.500E-07
2	SB	Charips sp. → Praon sp.	5.670E-07	7.470E-07
2	SB	Cheiropachys colon → Phoeophthorus rhododactylus	2.350E-06	4.160E-07
2	SB	Chesias legatella → Cytisus scoparius	4.050E-05	7.298E-02
2	SB	Chesias rufata → Cytisus scoparius	2.360E-04	7.298E-02
2	SB	Chrysocharis gemma → Leucoptera spartifoliella	7.570E-07	1.020E-06
2	SB	Chrysopa carnea → Acyrthosiphon pisum	1.470E-04	1.740E-06
2	SB	Chrysopa carnea → Aphis sarathamni	1.470E-04	1.610E-06
2	SB	Clinodiplosis sarothamni → Cytisus scoparius	7.470E-07	7.298E-02
2	SB	Coccinella septempunctata → Acyrthosiphon pisum	1.700E-05	1.740E-06
2	SB	Coccinella septempunctata → Aphis sarathamni	1.700E-05	1.610E-06
2	SB	Coccinella septempunctata → Arytaina genistae	1.700E-05	1.340E-06
2	SB	Coccinella septempunctata → Arytaina spartii	1.700E-05	1.340E-06
2	SB	Contarinia pulchripes → Cytisus scoparius	7.470E-07	7.298E-02
2	SB	Deraeocoris ruber → Arytaina genistae	4.590E-06	1.340E-06
2	SB	Deraeocoris ruber → Arytaina spartii	4.590E-06	1.340E-06
2	SB	Diasparsis bidentulus → Halystinus obscurus	1.210E-07	3.510E-07
2	SB	Diasparsis bidentulus → Phoeophthorus rhododactylus	1.210E-07	4.160E-07
2	SB	Diasparsis sp. → Laemophloeus sp.	7.470E-07	2.770E-06
2	SB	Diospilus ephippium → Laemophloeus sp.	7.470E-07	2.770E-06
2	SB	Ectobius lapponicus → Acyrthosiphon pisum	3.840E-05	1.740E-06
2	SB	Ectobius lapponicus → Aphis sarathamni	3.840E-05	1.610E-06
2	SB	Entodon sp. nr.cyanellus → Halystinus obscurus	3.510E-07	3.510E-07
2	SB	Entodon sp. nr.cyanellus → Phoeophthorus rhododactylus	3.510E-07	4.160E-07
2	SB	Ephedrus sp. → Acyrthosiphon pisum	3.500E-07	1.740E-06
2	SB	Erythmelus goochi → Asciodema obsoletum	9.220E-08	4.590E-06
2	SB	Eupelmella vesicularis → Halystinus obscurus	5.670E-07	3.510E-07
2	SB	Eupelmella vesicularis → Phoeophthorus rhododactylus	5.670E-07	4.160E-07
2	SB	Eupelmus urozonus → Habrocytus sequester	6.530E-07	9.470E-07
2	SB	Eupelmus urozonus → Halystinus obscurus	6.530E-07	3.510E-07
2	SB	Eupelmus urozonus → Phoeophthorus rhododactylus	6.530E-07	4.160E-07
2	SB	Eurytoma dentata → Aprostocetus brevicornis	7.470E-07	9.590E-07
2	SB	Eurytoma dentata → Asphondylia sarothamni	7.470E-07	8.490E-07
2	SB	Eurytoma sp. nr.morio → Phoeophthorus rhododactylus	2.350E-06	4.160E-07
2	SB	Evarcha arcuata → Arytaina genistae	1.330E-05	1.340E-06
2	SB	Evarcha arcuata → Arytaina spartii	1.330E-05	1.340E-06
2	SB	Evarcha arcuata → Orthotylus adenocarpi	1.330E-05	5.220E-06
2	SB	Evarcha arcuata → Orthotylus concolor	1.330E-05	5.220E-06
2	SB	Evarcha arcuata → Orthotylus virescens	1.330E-05	5.220E-06
2	SB	Exochomus quadripustulatus → Acyrthosiphon pisum	4.590E-06	1.740E-06
2	SB	Exochomus quadripustulatus → Aphis sarathamni	4.590E-06	1.610E-06
2	SB	Feronia madidus → Phytodecta olivacea	1.470E-04	4.300E-06
2	SB	Feronia madidus → Sitona regensteinensis	1.470E-04	6.250E-06
2	SB	Feronia nigra → Sitona regensteinensis	1.470E-04	6.250E-06
2	SB	Forficula auricularia → Acyrthosiphon pisum	7.300E-05	1.740E-06
2	SB	Forficula auricularia → Aphis sarathamni	7.300E-05	1.610E-06
2	SB	Forficula auricularia → Arytaina genistae	7.300E-05	1.340E-06
2	SB	Forficula auricularia → Arytaina spartii	7.300E-05	1.340E-06
2	SB	Forficula auricularia → Leucoptera spartifoliella	7.300E-05	1.020E-06

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
2	SB	Forficula auricularia → Phytodecta olivacea	7.300E-05	4.300E-06
2	SB	Fringilla coelebs → Acyrthosiphon pisum	4.274E-02	1.740E-06
2	SB	Fringilla coelebs → Aphis sarathamni	4.274E-02	1.610E-06
2	SB	Fringilla coelebs → Arytaina genistae	4.274E-02	1.340E-06
2	SB	Fringilla coelebs → Arytaina spartii	4.274E-02	1.340E-06
2	SB	Habrocytus sequester → Apion fuscirostre	9.470E-07	9.820E-07
2	SB	Habrocytus sequester → Bruchidius ater	9.470E-07	1.770E-06
2	SB	Halystinus obscurus → Cytisus scoparius	3.510E-07	7.298E-02
2	SB	Halyzia sedecimguttata → Acyrthosiphon pisum	8.240E-06	1.740E-06
2	SB	Halyzia sedecimguttata → Aphis sarathamni	8.240E-06	1.610E-06
2	SB	Harpulus rubripes → Phytodecta olivacea	4.430E-05	4.300E-06
2	SB	Hemerobius sp. → Arytaina genistae	3.840E-05	1.340E-06
2	SB	Hemerobius sp. → Arytaina spartii	3.840E-05	1.340E-06
2	SB	Heterocordylus tibialis → Acyrthosiphon pisum	8.020E-06	1.740E-06
2	SB	Heterocordylus tibialis → Aphis sarathamni	8.020E-06	1.610E-06
2	SB	Heterocordylus tibialis → Arytaina genistae	8.020E-06	1.340E-06
2	SB	Heterocordylus tibialis → Arytaina spartii	8.020E-06	1.340E-06
2	SB	Heterocordylus tibialis → Asciodema obsoletum	8.020E-06	4.590E-06
2	SB	Heterocordylus tibialis → Cytisus scoparius	8.020E-06	7.298E-02
2	SB	Heterocordylus tibialis → Orthotylus adenocarpi	8.020E-06	5.220E-06
2	SB	Heterocordylus tibialis → Orthotylus concolor	8.020E-06	5.220E-06
2	SB	Heterocordylus tibialis → Orthotylus virescens	8.020E-06	5.220E-06
2	SB	Heterocordylus tibialis → Phytodecta olivacea	8.020E-06	4.300E-06
2	SB	Heterotoma merioptera → Acyrthosiphon pisum	8.240E-06	1.740E-06
2	SB	Heterotoma merioptera → Aphis sarathamni	8.240E-06	1.610E-06
2	SB	Heterotoma merioptera → Arytaina genistae	8.240E-06	1.340E-06
2	SB	Heterotoma merioptera → Arytaina spartii	8.240E-06	1.340E-06
2	SB	Heterotoma merioptera → Orthotylus adenocarpi	8.240E-06	5.220E-06
2	SB	Heterotoma merioptera → Orthotylus concolor	8.240E-06	5.220E-06
2	SB	Heterotoma merioptera → Orthotylus virescens	8.240E-06	5.220E-06
2	SB	Heterotoma merioptera → Phytodecta olivacea	8.240E-06	4.300E-06
2	SB	Himacerus apterus → Arytaina genistae	4.190E-05	1.340E-06
2	SB	Himacerus apterus → Arytaina spartii	4.190E-05	1.340E-06
2	SB	Himacerus apterus → Phytodecta olivacea	4.190E-05	4.300E-06
2	SB	Ilyobates nigricollis → Sitona regensteinensis	3.880E-06	6.250E-06
2	SB	Inostemma lycon → Contarinia pulchripes	1.960E-07	7.470E-07
2	SB	Laemophloeus sp. → Halystinus obscurus	2.770E-06	3.510E-07
2	SB	Laemophloeus sp. → Phoeophthorus rhododactylus	2.770E-06	4.160E-07
2	SB	Leiophron apicalis → Asciodema obsoletum	7.470E-07	4.590E-06
2	SB	Leiophron apicalis → Orthotylus adenocarpi	7.470E-07	5.220E-06
2	SB	Leiophron apicalis → Orthotylus concolor	7.470E-07	5.220E-06
2	SB	Leiophron apicalis → Orthotylus virescens	7.470E-07	5.220E-06
2	SB	Leiophron heterocordyli → Asciodema obsoletum	7.470E-07	4.590E-06
2	SB	Leiophron heterocordyli → Heterocordylus tibialis	7.470E-07	8.020E-06
2	SB	Leiophron heterocordyli → Orthotylus adenocarpi	7.470E-07	5.220E-06
2	SB	Leiophron orthotyli → Asciodema obsoletum	7.470E-07	4.590E-06
2	SB	Leiophron orthotyli → Orthotylus adenocarpi	7.470E-07	5.220E-06
2	SB	Leiophron orthotyli → Orthotylus concolor	7.470E-07	5.220E-06
2	SB	Leiophron orthotyli → Orthotylus virescens	7.470E-07	5.220E-06
2	SB	Leistus sp. → Sitona regensteinensis	2.820E-05	6.250E-06

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
2	SB	Lestodiplosis sp. → Clinodiplosis sarothamni	3.510E-07	7.470E-07
2	SB	Leucoptera spartifoliella → Cytisus scoparius	1.020E-06	7.298E-02
2	SB	Lygocerus sp. → Aphidius sp.1	1.960E-07	1.200E-06
2	SB	Lygocerus sp. → Aphidius sp.2	1.960E-07	1.640E-06
2	SB	Lygocerus sp. → Ephedrus sp.	1.960E-07	3.500E-07
2	SB	Lygocerus sp. → Praon sp.	1.960E-07	7.470E-07
2	SB	Macquartia brevicornis → Phytodecta olivacea	3.840E-05	4.300E-06
2	SB	Meigenia mutabilis → Phytodecta olivacea	3.110E-05	4.300E-06
2	SB	Mesochorus sp. → Microlitis fordi	2.160E-06	4.160E-07
2	SB	Mesopolobus mediterraneus → Habrocytus sequester	4.030E-07	9.470E-07
2	SB	Mesopolobus mediterraneus → Triaspis sp. nr.obscurellus	4.030E-07	7.470E-07
2	SB	Meta segmentata → Arytaina genistae	1.640E-05	1.340E-06
2	SB	Meta segmentata → Arytaina spartii	1.640E-05	1.340E-06
2	SB	Meta segmentata → Asciodema obsoletum	1.640E-05	4.590E-06
2	SB	Meta segmentata → Leucoptera spartifoliella	1.640E-05	1.020E-06
2	SB	Meta segmentata → Orthotylus adenocarpi	1.640E-05	5.220E-06
2	SB	Meta segmentata → Orthotylus concolor	1.640E-05	5.220E-06
2	SB	Meta segmentata → Orthotylus virescens	1.640E-05	5.220E-06
2	SB	Microctonus aethiops/secalis → Apion immune	8.280E-07	1.270E-06
2	SB	Microlitis fordi → Chesias legatella	4.160E-07	4.050E-05
2	SB	Microlitis fordi → Chesias rufata	4.160E-07	2.360E-04
2	SB	Nabis flavomarginatus → Acyrthosiphon pisum	2.820E-05	1.740E-06
2	SB	Nabis flavomarginatus → Aphis sarathamni	2.820E-05	1.610E-06
2	SB	Necremnus metalarus → Leucoptera spartifoliella	4.510E-07	1.020E-06
2	SB	Necremnus sp. → Leucoptera spartifoliella	2.930E-07	1.020E-06
2	SB	Nepiesta sp. → Phytodecta olivacea	7.470E-07	4.300E-06
2	SB	Ocypus compressus → Phytodecta olivacea	3.110E-04	4.300E-06
2	SB	Orthotylus adenocarpi → Acyrthosiphon pisum	5.220E-06	1.740E-06
2	SB	Orthotylus adenocarpi → Aphis sarathamni	5.220E-06	1.610E-06
2	SB	Orthotylus adenocarpi → Arytaina genistae	5.220E-06	1.340E-06
2	SB	Orthotylus adenocarpi → Arytaina spartii	5.220E-06	1.340E-06
2	SB	Orthotylus adenocarpi → Cytisus scoparius	5.220E-06	7.298E-02
2	SB	Orthotylus adenocarpi → Orthotylus concolor	5.220E-06	5.220E-06
2	SB	Orthotylus adenocarpi → Orthotylus virescens	5.220E-06	5.220E-06
2	SB	Orthotylus adenocarpi → Phytodecta olivacea	5.220E-06	4.300E-06
2	SB	Orthotylus concolor → Acyrthosiphon pisum	5.220E-06	1.740E-06
2	SB	Orthotylus concolor → Aphis sarathamni	5.220E-06	1.610E-06
2	SB	Orthotylus concolor → Arytaina genistae	5.220E-06	1.340E-06
2	SB	Orthotylus concolor → Arytaina spartii	5.220E-06	1.340E-06
2	SB	Orthotylus concolor → Cytisus scoparius	5.220E-06	7.298E-02
2	SB	Orthotylus concolor → Phytodecta olivacea	5.220E-06	4.300E-06
2	SB	Orthotylus virescens → Acyrthosiphon pisum	5.220E-06	1.740E-06
2	SB	Orthotylus virescens → Aphis sarathamni	5.220E-06	1.610E-06
2	SB	Orthotylus virescens → Arytaina genistae	5.220E-06	1.340E-06
2	SB	Orthotylus virescens → Arytaina spartii	5.220E-06	1.340E-06
2	SB	Orthotylus virescens → Cytisus scoparius	5.220E-06	7.298E-02
2	SB	Orthotylus virescens → Orthotylus concolor	5.220E-06	5.220E-06
2	SB	Orthotylus virescens → Phytodecta olivacea	5.220E-06	4.300E-06
2	SB	Oxypoda longiuscula → Sitona regensteinensis	2.660E-06	6.250E-06
2	SB	Parus caeruleus → Acyrthosiphon pisum	1.972E-02	1.740E-06

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
2	SB	Parus caeruleus → Aphis sarathamni	1.972E-02	1.610E-06
2	SB	Parus caeruleus → Arytaina genistae	1.972E-02	1.340E-06
2	SB	Parus caeruleus → Arytaina spartii	1.972E-02	1.340E-06
2	SB	Parus caeruleus → Halystinus obscurus	1.972E-02	3.510E-07
2	SB	Parus caeruleus → Laemophloeus sp.	1.972E-02	2.770E-06
2	SB	Parus caeruleus → Phoeophthorus rhododactylus	1.972E-02	4.160E-07
2	SB	Parus major → Halystinus obscurus	3.381E-02	3.510E-07
2	SB	Parus major → Laemophloeus sp.	3.381E-02	2.770E-06
2	SB	Parus major → Phoeophthorus rhododactylus	3.381E-02	4.160E-07
2	SB	Patasson brachygaster → Orthotylus concolor	9.220E-08	5.220E-06
2	SB	Patasson diana → Sitona regensteinensis	9.220E-08	6.250E-06
2	SB	Pergamasus crassipes → Sitona regensteinensis	1.210E-07	6.250E-06
2	SB	Perilitus dubius → Phytodecta olivacea	7.470E-07	4.300E-06
2	SB	Phaenobremia sp. → Acyrthosiphon pisum	1.340E-06	1.740E-06
2	SB	Phaenobremia sp. → Aphis sarathamni	1.340E-06	1.610E-06
2	SB	Philodromus aurelolus → Arytaina genistae	8.240E-06	1.340E-06
2	SB	Philodromus aurelolus → Arytaina spartii	8.240E-06	1.340E-06
2	SB	Philodromus aurelolus → Leucoptera spartifoliella	8.240E-06	1.020E-06
2	SB	Philodromus aurelolus → Orthotylus adenocarpi	8.240E-06	5.220E-06
2	SB	Philodromus aurelolus → Orthotylus concolor	8.240E-06	5.220E-06
2	SB	Philodromus aurelolus → Orthotylus virescens	8.240E-06	5.220E-06
2	SB	Philonthus politus → Sitona regensteinensis	8.620E-05	6.250E-06
2	SB	Phoeophthorus rhododactylus → Cytisus scoparius	4.160E-07	7.298E-02
2	SB	Phoridae sp. → Chesias legatella	4.590E-06	4.050E-05
2	SB	Phoridae sp. → Chesias rufata	4.590E-06	2.360E-04
2	SB	Phytodecta olivacea → Cytisus scoparius	4.300E-06	7.298E-02
2	SB	Pisaura mirabilis → Arytaina genistae	1.110E-04	1.340E-06
2	SB	Pisaura mirabilis → Arytaina spartii	1.110E-04	1.340E-06
2	SB	Pisaura mirabilis → Orthotylus adenocarpi	1.110E-04	5.220E-06
2	SB	Pisaura mirabilis → Orthotylus concolor	1.110E-04	5.220E-06
2	SB	Pisaura mirabilis → Orthotylus virescens	1.110E-04	5.220E-06
2	SB	Plagiognathus arbustorum → Acyrthosiphon pisum	4.960E-06	1.740E-06
2	SB	Plagiognathus arbustorum → Aphis sarathamni	4.960E-06	1.610E-06
2	SB	Plagiognathus arbustorum → Arytaina genistae	4.960E-06	1.340E-06
2	SB	Plagiognathus arbustorum → Arytaina spartii	4.960E-06	1.340E-06
2	SB	Platybunus triangularis → Phytodecta olivacea	9.830E-06	4.300E-06
2	SB	Platycheirus scutatus → Acyrthosiphon pisum	2.380E-05	1.740E-06
2	SB	Platycheirus scutatus → Aphis sarathamni	2.380E-05	1.610E-06
2	SB	Platygaster sp. → Clinodiplosis sarothamni	1.960E-07	7.470E-07
2	SB	Platygerrhus dolosus → Laemophloeus sp.	2.420E-07	2.770E-06
2	SB	Praon sp. → Acyrthosiphon pisum	7.470E-07	1.740E-06
2	SB	Pringalio soemias → Leucoptera spartifoliella	7.760E-07	1.020E-06
2	SB	Prionomitus mitratus → Arytaina genistae	4.160E-07	1.340E-06
2	SB	Propylea quatuordecimpunctata → Acyrthosiphon pisum	4.590E-06	1.740E-06
2	SB	Propylea quatuordecimpunctata → Aphis sarathamni	4.590E-06	1.610E-06
2	SB	Propylea quatuordecimpunctata → Arytaina genistae	4.590E-06	1.340E-06
2	SB	Propylea quatuordecimpunctata → Arytaina spartii	4.590E-06	1.340E-06
2	SB	Prunella modularis → Acyrthosiphon pisum	2.200E-02	1.740E-06
2	SB	Prunella modularis → Aphis sarathamni	2.200E-02	1.610E-06
2	SB	Prunella modularis → Arytaina genistae	2.200E-02	1.340E-06

doi:10.1038/nature11131

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
2	SB	Prunella modularis → Arytaina spartii	2.200E-02	1.340E-06
2	SB	Pseudocatolaccus thoracicus → Asphondylia sarothamni	1.960E-07	8.490E-07
2	SB	Ptezodoratus lituratus → Cytisus scoparius	1.340E-06	7.298E-02
2	SB	Raphitelus maculatus → Phoeophthorus rhododactylus	1.960E-07	4.160E-07
2	SB	Rhagonycha elongata → Acyrthosiphon pisum	1.990E-05	1.740E-06
2	SB	Rhagonycha elongata → Aphis sarathamni	1.990E-05	1.610E-06
2	SB	Sitona regensteinensis → Cytisus scoparius	6.250E-06	7.298E-02
2	SB	Spathius rubidus → Halystinus obscurus	3.240E-06	3.510E-07
2	SB	Spathius rubidus → Phoeophthorus rhododactylus	3.240E-06	4.160E-07
2	SB	Staphylinus sp. → Sitona regensteinensis	6.500E-05	6.250E-06
2	SB	Stenus sp. → Sitona regensteinensis	8.240E-06	6.250E-06
2	SB	Sylvia curruca → Acyrthosiphon pisum	1.250E-02	1.740E-06
2	SB	Sylvia curruca → Aphis sarathamni	1.250E-02	1.610E-06
2	SB	Sylvia curruca → Arytaina genistae	1.250E-02	1.340E-06
2	SB	Sylvia curruca → Arytaina spartii	1.250E-02	1.340E-06
2	SB	Syrphus calteatus → Acyrthosiphon pisum	7.300E-05	1.740E-06
2	SB	Syrphus calteatus → Aphis sarathamni	7.300E-05	1.610E-06
2	SB	Syrphus luniger → Acyrthosiphon pisum	6.500E-05	1.740E-06
2	SB	Syrphus luniger → Aphis sarathamni	6.500E-05	1.610E-06
2	SB	Syrphus vitripennis → Acyrthosiphon pisum	8.160E-05	1.740E-06
2	SB	Syrphus vitripennis → Aphis sarathamni	8.160E-05	1.610E-06
2	SB	Systasis encyrtoides → Contarinia pulchripes	1.210E-07	7.470E-07
2	SB	Tachynus rufipes → Sitona regensteinensis	1.160E-05	6.250E-06
2	SB	Telenomus sp.1 → Ptezodoratus lituratus	2.420E-07	1.340E-06
2	SB	Telenomus sp.2 → Ptezodoratus lituratus	2.670E-07	1.340E-06
2	SB	Tetrastichus sp. nr.attalus → Halystinus obscurus	4.160E-07	3.510E-07
2	SB	Tetrastichus sp. nr.attalus → Phoeophthorus rhododactylus	4.160E-07	4.160E-07
2	SB	Tetrastichus sp. nr.attalus → Raphitelus maculatus	4.160E-07	1.960E-07
2	SB	Tetrastichus sp. nr.flavovarius → Phoeophthorus rhododactylus	4.160E-07	4.160E-07
2	SB	Tetrastichus sp. nr.flavovarius → Raphitelus maculatus	4.160E-07	1.960E-07
2	SB	Tetrastichus sp. nr.glactopus → Leucoptera spartifoliella	4.160E-07	1.020E-06
2	SB	Tetrastichus sp. → Phytodecta olivacea	4.160E-07	4.300E-06
2	SB	Theridion (Enoplognatha) ovatum → Orthotylus adenocarpi	1.060E-05	5.220E-06
2	SB	Theridion (Enoplognatha) ovatum → Orthotylus concolor	1.060E-05	5.220E-06
2	SB	Theridion (Enoplognatha) ovatum → Orthotylus virescens	1.060E-05	5.220E-06
2	SB	Theridion redimitum → Arytaina spartii	1.060E-05	1.340E-06
2	SB	Torymus sp. nr.micropterus → Habrocytus sequester	1.210E-07	9.470E-07
2	SB	Torymus sp. nr.microstigma → Aprostocetus brevicornis	1.210E-07	9.590E-07
2	SB	Torymus sp. nr.microstigma → Habrocytus sequester	1.210E-07	9.470E-07
2	SB	Torymus sp. nr.microstigma → Trotteria sarothamni	1.210E-07	7.470E-07
2	SB	Triaspis sp. nr.obscurellus → Bruchidius ater	7.470E-07	1.770E-06
2	SB	Trichogramma sp.1 → Bruchidius ater	6.770E-08	1.770E-06
2	SB	Trichogramma sp.2 → Phytodecta olivacea	9.220E-08	4.300E-06
2	SB	Trotteria sarothamni → Cytisus scoparius	7.470E-07	7.298E-02
2	SB	Xantholinus linearis → Arytaina genistae	2.380E-05	1.340E-06
2	SB	Xantholinus linearis → Sitona regensteinensis	2.380E-05	6.250E-06
2	SB	Xysticus audax → Asciodema obsoletum	1.060E-05	4.590E-06
2	SB	Xysticus audax → Orthotylus adenocarpi	1.060E-05	5.220E-06
2	SB	Xysticus audax → Orthotylus concolor	1.060E-05	5.220E-06
2	SB	Xysticus audax → Orthotylus virescens	1.060E-05	5.220E-06

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
2	SB	Xysticus cristatus → Arytaina genistae	1.390E-05	1.340E-06
2	SB	Xysticus cristatus → Arytaina spartii	1.390E-05	1.340E-06
2	SB	Xysticus cristatus → Asciodema obsoletum	1.390E-05	4.590E-06
2	SB	Xysticus cristatus → Leucoptera spartifoliella	1.390E-05	1.020E-06
2	SB	Xysticus cristatus → Orthotylus adenocarpi	1.390E-05	5.220E-06
2	SB	Xysticus cristatus → Orthotylus concolor	1.390E-05	5.220E-06
2	SB	Xysticus cristatus → Orthotylus virescens	1.390E-05	5.220E-06
2	SB	Xysticus cristatus → Phytodecta olivacea	1.390E-05	4.300E-06
2	SP	Aeshna juncea → Acanthocyclops vernalis	2.700E-04	6.410E-08
2	SP	Aeshna juncea → Agabus bipustulatus	2.700E-04	6.120E-05
2	SP	Aeshna juncea → Agabus sturmii	2.700E-04	2.820E-05
2	SP	Aeshna juncea → Arctocorisa germari	2.700E-04	2.180E-05
2	SP	Aeshna juncea → Argyroneta aquatica	2.700E-04	2.720E-05
2	SP	Aeshna juncea → Callicorixa praeusta	2.700E-04	1.990E-05
2	SP	Aeshna juncea → Chironomus dorsalis	2.700E-04	1.470E-05
2	SP	Aeshna juncea → Chydorus latus	2.700E-04	5.850E-09
2	SP	Aeshna juncea → Corixa dentipes	2.700E-04	9.670E-05
2	SP	Aeshna juncea → Corixa punctata	2.700E-04	9.280E-05
2	SP	Aeshna juncea → Corynoneura scutellata	2.700E-04	8.590E-07
2	SP	Aeshna juncea → Enallagma cyathigerum	2.700E-04	7.280E-06
2	SP	Aeshna juncea → Enchytraidae sp.	2.700E-04	6.000E-08
2	SP	Aeshna juncea → Glyptotendipes pallens	2.700E-04	7.730E-06
2	SP	Aeshna juncea → Hesperocorixa linnei	2.700E-04	2.060E-05
2	SP	Aeshna juncea → Hesperocorixa sahlbergi	2.700E-04	2.140E-05
2	SP	Aeshna juncea → Holocentropus picicornis	2.700E-04	1.060E-05
2	SP	Aeshna juncea → Hydroporus erythrocephalus	2.700E-04	4.740E-06
2	SP	Aeshna juncea → Illybius fuliginosus	2.700E-04	6.500E-05
2	SP	Aeshna juncea → Lestes sponsa	2.700E-04	7.810E-05
2	SP	Aeshna juncea → Limnephilus marmoratus	2.700E-04	8.080E-05
2	SP	Aeshna juncea → Lumbriculus variegatus	2.700E-04	8.000E-06
2	SP	Aeshna juncea → Notonecta glauca	2.700E-04	1.440E-04
2	SP	Aeshna juncea → Other Chironomidae spp.	2.700E-04	3.820E-06
2	SP	Aeshna juncea → Procladius sagittalis	2.700E-04	4.410E-06
2	SP	Aeshna juncea → Scapaloberis mucronata	2.700E-04	3.210E-08
2	SP	Aeshna juncea → Sialis lutaria	2.700E-04	5.250E-05
2	SP	Aeshna juncea → Sigara semistriata	2.700E-04	1.220E-05
2	SP	Aeshna juncea → Sympetrum scoticum	2.700E-04	8.430E-05
2	SP	Aeshna juncea → Tanytarsus bruchonidae	2.700E-04	1.300E-06
2	SP	Agabus bipustulatus → Agabus sturmii	6.120E-05	2.820E-05
2	SP	Agabus bipustulatus → Arctocorisa germari	6.120E-05	2.180E-05
2	SP	Agabus bipustulatus → Callicorixa praeusta	6.120E-05	1.990E-05
2	SP	Agabus bipustulatus → Chironomus dorsalis	6.120E-05	1.470E-05
2	SP	Agabus bipustulatus → Corixa dentipes	6.120E-05	9.670E-05
2	SP	Agabus bipustulatus → Corixa punctata	6.120E-05	9.280E-05
2	SP	Agabus bipustulatus → Corynoneura scutellata	6.120E-05	8.590E-07
2	SP	Agabus bipustulatus → Enallagma cyathigerum	6.120E-05	7.280E-06
2	SP	Agabus bipustulatus → Enchytraidae sp.	6.120E-05	6.000E-08
2	SP	Agabus bipustulatus → Glyptotendipes pallens	6.120E-05	7.730E-06
2	SP	Agabus bipustulatus → Hesperocorixa linnei	6.120E-05	2.060E-05
2	SP	Agabus bipustulatus → Hesperocorixa sahlbergi	6.120E-05	2.140E-05

doi:10.1038/nature11131

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
2	SP	Agabus bipustulatus → Holocentropus picicornis	6.120E-05	1.060E-05
2	SP	Agabus bipustulatus → Hydroporus erythrocephalus	6.120E-05	4.740E-06
2	SP	Agabus bipustulatus → Limnephilus marmoratus	6.120E-05	8.080E-05
2	SP	Agabus bipustulatus → Lumbriculus variegatus	6.120E-05	8.000E-06
2	SP	Agabus bipustulatus → Other Chironomidae spp.	6.120E-05	3.820E-06
2	SP	Agabus bipustulatus → Procladius sagittalis	6.120E-05	4.410E-06
2	SP	Agabus bipustulatus → Sialis lutaria	6.120E-05	5.250E-05
2	SP	Agabus bipustulatus → Sigara semistriata	6.120E-05	1.220E-05
2	SP	Agabus bipustulatus → Tanytarsus bruchonidae	6.120E-05	1.300E-06
2	SP	Agabus sturmii → Arctocorisa germari	2.820E-05	2.180E-05
2	SP	Agabus sturmii → Callicorixa praeusta	2.820E-05	1.990E-05
2	SP	Agabus sturmii → Chironomus dorsalis	2.820E-05	1.470E-05
2	SP	Agabus sturmii → Corixa dentipes	2.820E-05	9.670E-05
2	SP	Agabus sturmii → Corixa punctata	2.820E-05	9.280E-05
2	SP	Agabus sturmii → Corynoneura scutellata	2.820E-05	8.590E-07
2	SP	Agabus sturmii → Enallagma cyathigerum	2.820E-05	7.280E-06
2	SP	Agabus sturmii → Enchytraidae sp.	2.820E-05	6.000E-08
2	SP	Agabus sturmii → Glyptotendipes pallens	2.820E-05	7.730E-06
2	SP	Agabus sturmii → Hesperocorixa linnei	2.820E-05	2.060E-05
2	SP	Agabus sturmii → Hesperocorixa sahlbergi	2.820E-05	2.140E-05
2	SP	Agabus sturmii → Holocentropus picicornis	2.820E-05	1.060E-05
2	SP	Agabus sturmii → Hydroporus erythrocephalus	2.820E-05	4.740E-06
2	SP	Agabus sturmii → Limnephilus marmoratus	2.820E-05	8.080E-05
2	SP	Agabus sturmii → Lumbriculus variegatus	2.820E-05	8.000E-06
2	SP	Agabus sturmii → Other Chironomidae spp.	2.820E-05	3.820E-06
2	SP	Agabus sturmii → Procladius sagittalis	2.820E-05	4.410E-06
2	SP	Agabus sturmii → Sialis lutaria	2.820E-05	5.250E-05
2	SP	Agabus sturmii → Sigara semistriata	2.820E-05	1.220E-05
2	SP	Agabus sturmii → Tanytarsus bruchonidae	2.820E-05	1.300E-06
2	SP	Argyroneta aquatica → Arctocorisa germari	2.720E-05	2.180E-05
2	SP	Argyroneta aquatica → Callicorixa praeusta	2.720E-05	1.990E-05
2	SP	Argyroneta aquatica → Chironomus dorsalis	2.720E-05	1.470E-05
2	SP	Argyroneta aquatica → Corixa dentipes	2.720E-05	9.670E-05
2	SP	Argyroneta aquatica → Corixa punctata	2.720E-05	9.280E-05
2	SP	Argyroneta aquatica → Corynoneura scutellata	2.720E-05	8.590E-07
2	SP	Argyroneta aquatica → Glyptotendipes pallens	2.720E-05	7.730E-06
2	SP	Argyroneta aquatica → Hesperocorixa linnei	2.720E-05	2.060E-05
2	SP	Argyroneta aquatica → Hesperocorixa sahlbergi	2.720E-05	2.140E-05
2	SP	Argyroneta aquatica → Holocentropus picicornis	2.720E-05	1.060E-05
2	SP	Argyroneta aquatica → Limnephilus marmoratus	2.720E-05	8.080E-05
2	SP	Argyroneta aquatica → Lumbriculus variegatus	2.720E-05	8.000E-06
2	SP	Argyroneta aquatica → Other Chironomidae spp.	2.720E-05	3.820E-06
2	SP	Argyroneta aquatica → Procladius sagittalis	2.720E-05	4.410E-06
2	SP	Argyroneta aquatica → Sigara semistriata	2.720E-05	1.220E-05
2	SP	Argyroneta aquatica → Tanytarsus bruchonidae	2.720E-05	1.300E-06
2	SP	Callicorixa praeusta → Chironomus dorsalis	1.990E-05	1.470E-05
2	SP	Callicorixa praeusta → Corynoneura scutellata	1.990E-05	8.590E-07
2	SP	Callicorixa praeusta → Glyptotendipes pallens	1.990E-05	7.730E-06
2	SP	Callicorixa praeusta → Other Chironomidae spp.	1.990E-05	3.820E-06
2	SP	Callicorixa praeusta → Procladius sagittalis	1.990E-05	4.410E-06

doi:10.1038/nature11131

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
2	SP	Callicorixa praeusta → Tanytarsus bruchonidae	1.990E-05	1.300E-06
2	SP	Dytiscus marginalis → Aeshna juncea	5.020E-04	2.700E-04
2	SP	Dytiscus marginalis → Agabus bipustulatus	5.020E-04	6.120E-05
2	SP	Dytiscus marginalis → Agabus sturmii	5.020E-04	2.820E-05
2	SP	Dytiscus marginalis → Arctocorisa germari	5.020E-04	2.180E-05
2	SP	Dytiscus marginalis → Callicorixa praeusta	5.020E-04	1.990E-05
2	SP	Dytiscus marginalis → Chironomus dorsalis	5.020E-04	1.470E-05
2	SP	Dytiscus marginalis → Corixa dentipes	5.020E-04	9.670E-05
2	SP	Dytiscus marginalis → Corixa punctata	5.020E-04	9.280E-05
2	SP	Dytiscus marginalis → Corynoneura scutellata	5.020E-04	8.590E-07
2	SP	Dytiscus marginalis → Enallagma cyathigerum	5.020E-04	7.280E-06
2	SP	Dytiscus marginalis → Glyptotendipes pallens	5.020E-04	7.730E-06
2	SP	Dytiscus marginalis → Hesperocorixa linnei	5.020E-04	2.060E-05
2	SP	Dytiscus marginalis → Hesperocorixa sahlbergi	5.020E-04	2.140E-05
2	SP	Dytiscus marginalis → Holocentropus picicornis	5.020E-04	1.060E-05
2	SP	Dytiscus marginalis → Hydroporus erythrocephalus	5.020E-04	4.740E-06
2	SP	Dytiscus marginalis → Illybius fuliginosus	5.020E-04	6.500E-05
2	SP	Dytiscus marginalis → Lestes sponsa	5.020E-04	7.810E-05
2	SP	Dytiscus marginalis → Limnephilus marmoratus	5.020E-04	8.080E-05
2	SP	Dytiscus marginalis → Lumbriculus variegatus	5.020E-04	8.000E-06
2	SP	Dytiscus marginalis → Notonecta glauca	5.020E-04	1.440E-04
2	SP	Dytiscus marginalis → Other Chironomidae spp.	5.020E-04	3.820E-06
2	SP	Dytiscus marginalis → Procladius sagittalis	5.020E-04	4.410E-06
2	SP	Dytiscus marginalis → Sialis lutaria	5.020E-04	5.250E-05
2	SP	Dytiscus marginalis → Sigara semistriata	5.020E-04	1.220E-05
2	SP	Dytiscus marginalis → Sympetrum scoticum	5.020E-04	8.430E-05
2	SP	Dytiscus marginalis → Tanytarsus bruchonidae	5.020E-04	1.300E-06
2	SP	Enallagma cyathigerum → Arctocorisa germari	7.280E-06	2.180E-05
2	SP	Enallagma cyathigerum → Callicorixa praeusta	7.280E-06	1.990E-05
2	SP	Enallagma cyathigerum → Chironomus dorsalis	7.280E-06	1.470E-05
2	SP	Enallagma cyathigerum → Corixa dentipes	7.280E-06	9.670E-05
2	SP	Enallagma cyathigerum → Corixa punctata	7.280E-06	9.280E-05
2	SP	Enallagma cyathigerum → Corynoneura scutellata	7.280E-06	8.590E-07
2	SP	Enallagma cyathigerum → Enchytraidae sp.	7.280E-06	6.000E-08
2	SP	Enallagma cyathigerum → Glyptotendipes pallens	7.280E-06	7.730E-06
2	SP	Enallagma cyathigerum → Hesperocorixa linnei	7.280E-06	2.060E-05
2	SP	Enallagma cyathigerum → Hesperocorixa sahlbergi	7.280E-06	2.140E-05
2	SP	Enallagma cyathigerum → Hydroporus erythrocephalus	7.280E-06	4.740E-06
2	SP	Enallagma cyathigerum → Lumbriculus variegatus	7.280E-06	8.000E-06
2	SP	Enallagma cyathigerum → Other Chironomidae spp.	7.280E-06	3.820E-06
2	SP	Enallagma cyathigerum → Procladius sagittalis	7.280E-06	4.410E-06
2	SP	Enallagma cyathigerum → Sialis lutaria	7.280E-06	5.250E-05
2	SP	Enallagma cyathigerum → Sigara semistriata	7.280E-06	1.220E-05
2	SP	Enallagma cyathigerum → Tanytarsus bruchonidae	7.280E-06	1.300E-06
2	SP	Holocentropus picicornis → Arctocorisa germari	1.060E-05	2.180E-05
2	SP	Holocentropus picicornis → Callicorixa praeusta	1.060E-05	1.990E-05
2	SP	Holocentropus picicornis → Chironomus dorsalis	1.060E-05	1.470E-05
2	SP	Holocentropus picicornis → Corixa dentipes	1.060E-05	9.670E-05
2	SP	Holocentropus picicornis → Corixa punctata	1.060E-05	9.280E-05
2	SP	Holocentropus picicornis → Corynoneura scutellata	1.060E-05	8.590E-07

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D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
2	SP	Holocentropus picicornis → Enchytraidae sp.	1.060E-05	6.000E-08
2	SP	Holocentropus picicornis → Glyptotendipes pallens	1.060E-05	7.730E-06
2	SP	Holocentropus picicornis → Hesperocorixa linnei	1.060E-05	2.060E-05
2	SP	Holocentropus picicornis → Hesperocorixa sahlbergi	1.060E-05	2.140E-05
2	SP	Holocentropus picicornis → Hydroporus erythrocephalus	1.060E-05	4.740E-06
2	SP	Holocentropus picicornis → Other Chironomidae spp.	1.060E-05	3.820E-06
2	SP	Holocentropus picicornis → Procladius sagittalis	1.060E-05	4.410E-06
2	SP	Holocentropus picicornis → Sigara semistriata	1.060E-05	1.220E-05
2	SP	Holocentropus picicornis → Tanytarsus bruchonidae	1.060E-05	1.300E-06
2	SP	Hydroporus erythrocephalus → Chironomus dorsalis	4.740E-06	1.470E-05
2	SP	Hydroporus erythrocephalus → Corynoneura scutellata	4.740E-06	8.590E-07
2	SP	Hydroporus erythrocephalus → Enchytraidae sp.	4.740E-06	6.000E-08
2	SP	Hydroporus erythrocephalus → Glyptotendipes pallens	4.740E-06	7.730E-06
2	SP	Hydroporus erythrocephalus → Other Chironomidae spp.	4.740E-06	3.820E-06
2	SP	Hydroporus erythrocephalus → Procladius sagittalis	4.740E-06	4.410E-06
2	SP	Hydroporus erythrocephalus → Tanytarsus bruchonidae	4.740E-06	1.300E-06
2	SP	Illybius fuliginosus → Agabus bipustulatus	6.500E-05	6.120E-05
2	SP	Illybius fuliginosus → Agabus sturmii	6.500E-05	2.820E-05
2	SP	Illybius fuliginosus → Arctocorisa germari	6.500E-05	2.180E-05
2	SP	Illybius fuliginosus → Callicorixa praeusta	6.500E-05	1.990E-05
2	SP	Illybius fuliginosus → Chironomus dorsalis	6.500E-05	1.470E-05
2	SP	Illybius fuliginosus → Corixa dentipes	6.500E-05	9.670E-05
2	SP	Illybius fuliginosus → Corixa punctata	6.500E-05	9.280E-05
2	SP	Illybius fuliginosus → Corynoneura scutellata	6.500E-05	8.590E-07
2	SP	Illybius fuliginosus → Enallagma cyathigerum	6.500E-05	7.280E-06
2	SP	Illybius fuliginosus → Enchytraidae sp.	6.500E-05	6.000E-08
2	SP	Illybius fuliginosus → Glyptotendipes pallens	6.500E-05	7.730E-06
2	SP	Illybius fuliginosus → Hesperocorixa linnei	6.500E-05	2.060E-05
2	SP	Illybius fuliginosus → Hesperocorixa sahlbergi	6.500E-05	2.140E-05
2	SP	Illybius fuliginosus → Holocentropus picicornis	6.500E-05	1.060E-05
2	SP	Illybius fuliginosus → Hydroporus erythrocephalus	6.500E-05	4.740E-06
2	SP	Illybius fuliginosus → Limnephilus marmoratus	6.500E-05	8.080E-05
2	SP	Illybius fuliginosus → Lumbriculus variegatus	6.500E-05	8.000E-06
2	SP	Illybius fuliginosus → Other Chironomidae spp.	6.500E-05	3.820E-06
2	SP	Illybius fuliginosus → Procladius sagittalis	6.500E-05	4.410E-06
2	SP	Illybius fuliginosus → Sialis lutaria	6.500E-05	5.250E-05
2	SP	Illybius fuliginosus → Sigara semistriata	6.500E-05	1.220E-05
2	SP	Illybius fuliginosus → Tanytarsus bruchonidae	6.500E-05	1.300E-06
2	SP	Lestes sponsa → Agabus bipustulatus	7.810E-05	6.120E-05
2	SP	Lestes sponsa → Agabus sturmii	7.810E-05	2.820E-05
2	SP	Lestes sponsa → Arctocorisa germari	7.810E-05	2.180E-05
2	SP	Lestes sponsa → Callicorixa praeusta	7.810E-05	1.990E-05
2	SP	Lestes sponsa → Chironomus dorsalis	7.810E-05	1.470E-05
2	SP	Lestes sponsa → Corixa dentipes	7.810E-05	9.670E-05
2	SP	Lestes sponsa → Corixa punctata	7.810E-05	9.280E-05
2	SP	Lestes sponsa → Corynoneura scutellata	7.810E-05	8.590E-07
2	SP	Lestes sponsa → Enallagma cyathigerum	7.810E-05	7.280E-06
2	SP	Lestes sponsa → Enchytraidae sp.	7.810E-05	6.000E-08
2	SP	Lestes sponsa → Glyptotendipes pallens	7.810E-05	7.730E-06
2	SP	Lestes sponsa → Hesperocorixa linnei	7.810E-05	2.060E-05

doi:10.1038/nature11131

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
2	SP	Lestes sponsa → Hesperocorixa sahlbergi	7.810E-05	2.140E-05
2	SP	Lestes sponsa → Hydroporus erythrocephalus	7.810E-05	4.740E-06
2	SP	Lestes sponsa → Illybius fuliginosus	7.810E-05	6.500E-05
2	SP	Lestes sponsa → Lumbriculus variegatus	7.810E-05	8.000E-06
2	SP	Lestes sponsa → Other Chironomidae spp.	7.810E-05	3.820E-06
2	SP	Lestes sponsa → Procladius sagittalis	7.810E-05	4.410E-06
2	SP	Lestes sponsa → Sialis lutaria	7.810E-05	5.250E-05
2	SP	Lestes sponsa → Sigara semistriata	7.810E-05	1.220E-05
2	SP	Lestes sponsa → Tanytarsus bruchonidae	7.810E-05	1.300E-06
2	SP	Limnephilus marmoratus → Chironomus dorsalis	8.080E-05	1.470E-05
2	SP	Limnephilus marmoratus → Corynoneura scutellata	8.080E-05	8.590E-07
2	SP	Limnephilus marmoratus → Enchytraidae sp.	8.080E-05	6.000E-08
2	SP	Limnephilus marmoratus → Glyptotendipes pallens	8.080E-05	7.730E-06
2	SP	Limnephilus marmoratus → Lumbriculus variegatus	8.080E-05	8.000E-06
2	SP	Limnephilus marmoratus → Other Chironomidae spp.	8.080E-05	3.820E-06
2	SP	Limnephilus marmoratus → Tanytarsus bruchonidae	8.080E-05	1.300E-06
2	SP	Polycelis tenuis → Chironomus dorsalis	4.000E-06	1.470E-05
2	SP	Polycelis tenuis → Corynoneura scutellata	4.000E-06	8.590E-07
2	SP	Polycelis tenuis → Enchytraidae sp.	4.000E-06	6.000E-08
2	SP	Polycelis tenuis → Glyptotendipes pallens	4.000E-06	7.730E-06
2	SP	Polycelis tenuis → Lumbriculus variegatus	4.000E-06	8.000E-06
2	SP	Polycelis tenuis → Other Chironomidae spp.	4.000E-06	3.820E-06
2	SP	Polycelis tenuis → Procladius sagittalis	4.000E-06	4.410E-06
2	SP	Polycelis tenuis → Tanytarsus bruchonidae	4.000E-06	1.300E-06
2	SP	Procladius sagittalis → Chironomus dorsalis	4.410E-06	1.470E-05
2	SP	Procladius sagittalis → Corynoneura scutellata	4.410E-06	8.590E-07
2	SP	Procladius sagittalis → Enchytraidae sp.	4.410E-06	6.000E-08
2	SP	Procladius sagittalis → Glyptotendipes pallens	4.410E-06	7.730E-06
2	SP	Procladius sagittalis → Other Chironomidae spp.	4.410E-06	3.820E-06
2	SP	Procladius sagittalis → Tanytarsus bruchonidae	4.410E-06	1.300E-06
2	SP	Sialis lutaria → Acanthocyclops vernalis	5.250E-05	6.410E-08
2	SP	Sialis lutaria → Arctocorisa germari	5.250E-05	2.180E-05
2	SP	Sialis lutaria → Callicorixa praeusta	5.250E-05	1.990E-05
2	SP	Sialis lutaria → Chironomus dorsalis	5.250E-05	1.470E-05
2	SP	Sialis lutaria → Chydorus latus	5.250E-05	5.850E-09
2	SP	Sialis lutaria → Corixa dentipes	5.250E-05	9.670E-05
2	SP	Sialis lutaria → Corixa punctata	5.250E-05	9.280E-05
2	SP	Sialis lutaria → Corynoneura scutellata	5.250E-05	8.590E-07
2	SP	Sialis lutaria → Enchytraidae sp.	5.250E-05	6.000E-08
2	SP	Sialis lutaria → Glyptotendipes pallens	5.250E-05	7.730E-06
2	SP	Sialis lutaria → Hesperocorixa linnei	5.250E-05	2.060E-05
2	SP	Sialis lutaria → Hesperocorixa sahlbergi	5.250E-05	2.140E-05
2	SP	Sialis lutaria → Hydroporus erythrocephalus	5.250E-05	4.740E-06
2	SP	Sialis lutaria → Lumbriculus variegatus	5.250E-05	8.000E-06
2	SP	Sialis lutaria → Other Chironomidae spp.	5.250E-05	3.820E-06
2	SP	Sialis lutaria → Procladius sagittalis	5.250E-05	4.410E-06
2	SP	Sialis lutaria → Scapaloberis mucronata	5.250E-05	3.210E-08
2	SP	Sialis lutaria → Sigara semistriata	5.250E-05	1.220E-05
2	SP	Sialis lutaria → Tanytarsus bruchonidae	5.250E-05	1.300E-06
2	SP	Sympetrum scoticum → Agabus bipustulatus	8.430E-05	6.120E-05

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
2	SP	Sympetrum scoticum → Agabus sturmii	8.430E-05	2.820E-05
2	SP	Sympetrum scoticum → Arctocorisa germari	8.430E-05	2.180E-05
2	SP	Sympetrum scoticum → Argyroneta aquatica	8.430E-05	2.720E-05
2	SP	Sympetrum scoticum → Callicorixa praeusta	8.430E-05	1.990E-05
2	SP	Sympetrum scoticum → Chironomus dorsalis	8.430E-05	1.470E-05
2	SP	Sympetrum scoticum → Corixa dentipes	8.430E-05	9.670E-05
2	SP	Sympetrum scoticum → Corixa punctata	8.430E-05	9.280E-05
2	SP	Sympetrum scoticum → Corynoneura scutellata	8.430E-05	8.590E-07
2	SP	Sympetrum scoticum → Enallagma cyathigerum	8.430E-05	7.280E-06
2	SP	Sympetrum scoticum → Enchytraidae sp.	8.430E-05	6.000E-08
2	SP	Sympetrum scoticum → Glyptotendipes pallens	8.430E-05	7.730E-06
2	SP	Sympetrum scoticum → Hesperocorixa linnei	8.430E-05	2.060E-05
2	SP	Sympetrum scoticum → Hesperocorixa sahlbergi	8.430E-05	2.140E-05
2	SP	Sympetrum scoticum → Hydroporus erythrocephalus	8.430E-05	4.740E-06
2	SP	Sympetrum scoticum → Illybius fuliginosus	8.430E-05	6.500E-05
2	SP	Sympetrum scoticum → Lestes sponsa	8.430E-05	7.810E-05
2	SP	Sympetrum scoticum → Lumbriculus variegatus	8.430E-05	8.000E-06
2	SP	Sympetrum scoticum → Other Chironomidae spp.	8.430E-05	3.820E-06
2	SP	Sympetrum scoticum → Procladius sagittalis	8.430E-05	4.410E-06
2	SP	Sympetrum scoticum → Sialis lutaria	8.430E-05	5.250E-05
2	SP	Sympetrum scoticum → Sigara semistriata	8.430E-05	1.220E-05
2	SP	Sympetrum scoticum → Tanytarsus bruchonidae	8.430E-05	1.300E-06
2	TL	Micropterus salmoides → Chaoborys punctipennis	1.950E-01	2.580E-07
2	UG	Ahtola atra → Alopecurus pratensis	5.220E-06	3.500E-02
2	UG	Bracon erythrostictus → Tetramesa hyalipennis	2.160E-06	3.480E-06
2	UG	Bracon sp. → Tetramesa brevicomis	2.160E-06	1.480E-06
2	UG	Bracon sp. → Tetramesa calamagrostidis	2.160E-06	7.400E-06
2	UG	Bracon sp. → Tetramesa longicomis	2.160E-06	3.740E-06
2	UG	Chlorocytus agropyri → Tetramesa comuta	1.640E-06	3.000E-06
2	UG	Chlorocytus deschampiae → Eurytoma appendigaster	1.980E-06	4.590E-06
2	UG	Chlorocytus deschampiae → Pediobius deschampiae	1.980E-06	1.980E-06
2	UG	Chlorocytus deschampiae → Tetramesa petiolata	1.980E-06	4.590E-06
2	UG	Chlorocytus harmolitae → Tetramesa eximia	5.220E-06	1.330E-05
2	UG	Chlorocytus phalaridis → Bracon sp.	2.160E-06	2.160E-06
2	UG	Chlorocytus phalaridis → Tetramesa longicomis	2.160E-06	3.740E-06
2	UG	Chlorocytus pulchripes → Ahtola atra	1.980E-06	5.220E-06
2	UG	Chlorocytus pulchripes → Tetramesa angustipennis	1.980E-06	5.220E-06
2	UG	Chlorocytus sp. → Tetramesa airae	3.740E-06	2.560E-06
2	UG	Endromopoda sp. → Bracon erythrostictus	2.820E-05	2.160E-06
2	UG	Endromopoda sp. → Eurytoma appendigaster	2.820E-05	4.590E-06
2	UG	Endromopoda sp. → Eurytoma roseni	2.820E-05	1.340E-06
2	UG	Endromopoda sp. → Tetramesa angustipennis	2.820E-05	5.220E-06
2	UG	Endromopoda sp. → Tetramesa calamagrostidis	2.820E-05	7.400E-06
2	UG	Endromopoda sp. → Tetramesa hyalipennis	2.820E-05	3.480E-06
2	UG	Endromopoda sp. → Tetramesa longicomis	2.820E-05	3.740E-06
2	UG	Endromopoda sp. → Tetramesa petiolata	2.820E-05	4.590E-06
2	UG	Eupelmus atropurpureus → Eurytoma sp.	6.250E-06	1.980E-06
2	UG	Eupelmus atropurpureus → Eurytoma sp. nr. steffani	6.250E-06	1.800E-06
2	UG	Eupelmus atropurpureus → Homoporus fulviventris	6.250E-06	1.800E-06
2	UG	Eupelmus atropurpureus → Syntomaspis baudysi	6.250E-06	2.160E-06

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
2	UG	Eupelmus atropurpureus → Tetramesa brevicomis	6.250E-06	1.480E-06
2	UG	Eupelmus atropurpureus → Tetramesa eximia	6.250E-06	1.330E-05
2	UG	Eurytoma appendigaster → Tetramesa petiolata	4.590E-06	4.590E-06
2	UG	Eurytoma castor → Tetramesa airae	3.480E-06	2.560E-06
2	UG	Eurytoma danuvica → Tetramesa eximia	6.250E-06	1.330E-05
2	UG	Eurytoma erdoesi → Tetramesa longula	2.160E-06	2.560E-06
2	UG	Eurytoma flavimana → Tetramesa linearis	1.480E-06	1.800E-06
2	UG	Eurytoma phalaridis → Tetramesa longicomis	1.980E-06	3.740E-06
2	UG	Eurytoma pollux → Tetramesa calamagrostidis	5.220E-06	7.400E-06
2	UG	Eurytoma roseni → Tetramesa hyalipennis	1.340E-06	3.480E-06
2	UG	Eurytoma sp. nr. apicalis → Tetramesa linearis	1.640E-06	1.800E-06
2	UG	Eurytoma sp. nr. festucae → Tetramesa brevicomis	2.560E-06	1.480E-06
2	UG	Eurytoma sp. nr. steffani → Tetramesa eximia	1.800E-06	1.330E-05
2	UG	Eurytoma sp. → Calamagrostis epigejos	1.980E-06	5.250E-02
2	UG	Eurytoma sp. → Deschampsia cespitosa	1.980E-06	5.500E-02
2	UG	Eurytoma sp. → Tetramesa brevicollis	1.980E-06	2.560E-06
2	UG	Eurytoma tapio → Tetramesa angustipennis	4.300E-06	5.220E-06
2	UG	Homoporus febriculosus → Tetramesa angustipennis	2.160E-06	5.220E-06
2	UG	Homoporus fulviventris → Tetramesa eximia	1.800E-06	1.330E-05
2	UG	Homoporus luniger → Tetramesa calamagrostidis	2.160E-06	7.400E-06
2	UG	Homoporus sp. → Tetramesa brevicomis	2.520E-06	1.480E-06
2	UG	Homoporus sp. → Tetramesa eximia	2.520E-06	1.330E-05
2	UG	Homoporus sp. → Tetramesa linearis	2.520E-06	1.800E-06
2	UG	Homoporus sp. → Tetramesa petiolata	2.520E-06	4.590E-06
2	UG	Macroneura vesicularis → Ahtola atra	1.330E-05	5.220E-06
2	UG	Macroneura vesicularis → Bracon sp.	1.330E-05	2.160E-06
2	UG	Macroneura vesicularis → Chlorocytus harmolitae	1.330E-05	5.220E-06
2	UG	Macroneura vesicularis → Eurytoma sp.	1.330E-05	1.980E-06
2	UG	Macroneura vesicularis → Eurytoma sp.	1.330E-05	1.980E-06
2	UG	Macroneura vesicularis → Eurytoma sp. nr. festucae	1.330E-05	2.560E-06
2	UG	Macroneura vesicularis → Eurytoma sp. nr. steffani	1.330E-05	1.800E-06
2	UG	Macroneura vesicularis → Homoporus luniger	1.330E-05	2.160E-06
2	UG	Macroneura vesicularis → Homoporus sp.	1.330E-05	2.520E-06
2	UG	Macroneura vesicularis → Syntomaspis baudysi	1.330E-05	2.160E-06
2	UG	Macroneura vesicularis → Tetramesa airae	1.330E-05	2.560E-06
2	UG	Macroneura vesicularis → Tetramesa angustipennis	1.330E-05	5.220E-06
2	UG	Macroneura vesicularis → Tetramesa brevicollis	1.330E-05	2.560E-06
2	UG	Macroneura vesicularis → Tetramesa brevicomis	1.330E-05	1.480E-06
2	UG	Macroneura vesicularis → Tetramesa calamagrostidis	1.330E-05	7.400E-06
2	UG	Macroneura vesicularis → Tetramesa eximia	1.330E-05	1.330E-05
2	UG	Macroneura vesicularis → Tetramesa linearis	1.330E-05	1.800E-06
2	UG	Mesopolobus graminum → Chlorocytus phalaridis	1.230E-06	2.160E-06
2	UG	Mesopolobus graminum → Eurytoma pollux	1.230E-06	5.220E-06
2	UG	Mesopolobus graminum → Eurytoma roseni	1.230E-06	1.340E-06
2	UG	Mesopolobus graminum → Eurytoma sp.	1.230E-06	1.980E-06
2	UG	Mesopolobus graminum → Eurytoma sp.	1.230E-06	1.980E-06
2	UG	Mesopolobus graminum → Pediobius dactylicola	1.230E-06	3.740E-06
2	UG	Mesopolobus graminum → Pediobius phalaridis	1.230E-06	3.480E-06
2	UG	Mesopolobus graminum → Tetramesa calamagrostidis	1.230E-06	7.400E-06
2	UG	Mesopolobus graminum → Tetramesa hyalipennis	1.230E-06	3.480E-06

doi:10.1038/nature11131

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
2	UG	Mesopolobus graminum → Tetramesa longicomis	1.230E-06	3.740E-06
2	UG	Mesopolobus graminum → Tetramesa longula	1.230E-06	2.560E-06
2	UG	Pediobius alaspharus → Tetramesa comuta	1.200E-06	3.000E-06
2	UG	Pediobius calamagrostidis → Eurytoma pollux	3.000E-06	5.220E-06
2	UG	Pediobius calamagrostidis → Tetramesa calamagrostidis	3.000E-06	7.400E-06
2	UG	Pediobius dactylicola → Eurytoma erdoesi	3.740E-06	2.160E-06
2	UG	Pediobius dactylicola → Tetramesa longula	3.740E-06	2.560E-06
2	UG	Pediobius deschampiae → Eurytoma appendigaster	1.980E-06	4.590E-06
2	UG	Pediobius deschampiae → Tetramesa petiolata	1.980E-06	4.590E-06
2	UG	Pediobius eubius → Eurytoma tapio	2.160E-06	4.300E-06
2	UG	Pediobius eubius → Tetramesa angustipennis	2.160E-06	5.220E-06
2	UG	Pediobius festucae → Eurytoma sp.	7.470E-07	1.980E-06
2	UG	Pediobius festucae → Tetramesa brevicollis	7.470E-07	2.560E-06
2	UG	Pediobius phalaridis → Eurytoma phalaridis	3.480E-06	1.980E-06
2	UG	Pediobius phalaridis → Tetramesa longicomis	3.480E-06	3.740E-06
2	UG	Pediobius sp. nr. claridgei → Tetramesa linearis	1.980E-06	1.800E-06
2	UG	Pediobius sp. nr. phalaridis → Tetramesa airae	1.800E-06	2.560E-06
2	UG	Sycophila sp. → Tetramesa angustipennis	1.020E-06	5.220E-06
2	UG	Sycophila sp. → Tetramesa brevicomis	1.020E-06	1.480E-06
2	UG	Sycophila sp. → Tetramesa eximia	1.020E-06	1.330E-05
2	UG	Sycophila sp. → Tetramesa linearis	1.020E-06	1.800E-06
2	UG	Syntomaspis baudysi → Tetramesa calamagrostidis	2.160E-06	7.400E-06
2	UG	Syntomaspis baudysi → Tetramesa eximia	2.160E-06	1.330E-05
2	UG	Tetramesa airae → Deschampsia cespitosa	2.560E-06	5.500E-02
2	UG	Tetramesa angustipennis → Alopecurus pratensis	5.220E-06	3.500E-02
2	UG	Tetramesa brevicollis → Festuca rubra	2.560E-06	2.625E-02
2	UG	Tetramesa brevicomis → Festuca rubra	1.480E-06	2.625E-02
2	UG	Tetramesa calamagrostidis → Calamagrostis epigejos	7.400E-06	5.250E-02
2	UG	Tetramesa comuta → Elymus repens	3.000E-06	4.750E-02
2	UG	Tetramesa eximia → Ammophila arenaria	1.330E-05	4.250E-02
2	UG	Tetramesa eximia → Calamagrostis epigejos	1.330E-05	5.250E-02
2	UG	Tetramesa hyalipennis → Elymus repens	3.480E-06	4.750E-02
2	UG	Tetramesa linearis → Elymus repens	1.800E-06	4.750E-02
2	UG	Tetramesa longicomis → Phalaris arundinaceae	3.740E-06	5.000E-02
2	UG	Tetramesa longula → Dactylis glomerata	2.560E-06	3.875E-02
2	UG	Tetramesa petiolata → Deschampsia cespitosa	4.590E-06	5.500E-02
3	ES	Abyssocucumis liouvillei → Phytoplankton	7.676E-03	1.370E-09
3	ES	Abyssorchomene plebs → Euphausia superba	3.460E-05	1.960E-04
3	ES	Abyssorchomene rossi → Copepoda	9.280E-05	1.810E-06
3	ES	Aethotaxis mitopteryx → Copepoda	4.857E-02	1.810E-06
3	ES	Aethotaxis mitopteryx → Cumacea	4.857E-02	7.400E-06
3	ES	Alacia belgicae → Phytoplankton	2.520E-07	1.370E-09
3	ES	Alacia hettacra → Phytoplankton	2.520E-07	1.370E-09
3	ES	Alcyonidium sp. → Nanoplankton	9.730E-06	1.080E-11
3	ES	Alcyonium antarcticum → Phytoplankton	2.490E-06	1.370E-09
3	ES	Alluroteuthis antarcticus → Euphausia superba	1.000E-02	1.960E-04
3	ES	Alluroteuthis antarcticus → Pleuragramma antarcticum	1.000E-02	3.006E-01
3	ES	Alluroteuthis antarcticus → Psychroteuthis glacialis	1.000E-02	4.666E-01
3	ES	Antarctomysis maxima → Zooplankton	3.670E-04	1.680E-07
3	ES	Anthomastus bathyproctus → Salpa thompsoni	4.560E-05	7.750E-05

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
3	ES	Anthometra adriani → Phytoplankton	6.107E-02	1.370E-09
3	ES	Aplidium vastum → Bacteria	4.487E-03	2.810E-10
3	ES	Aplidium vastum → Nanoplankton	4.487E-03	1.080E-11
3	ES	Aptenodytes forsteri → Electrona antarctica	1.084E+01	3.906E-02
3	ES	Aptenodytes forsteri → Euphausia superba	1.084E+01	1.960E-04
3	ES	Aptenodytes forsteri → Galitheutis glacialis	1.084E+01	1.250
3	**ES**	**Aptenodytes forsteri → Gonatus antarcticus (4)**	**1.084E+01**	**5.273E-01**
3	ES	Aptenodytes forsteri → Gymnoscopelus braueri	1.084E+01	2.614E-02
3	ES	Aptenodytes forsteri → Gymnoscopelus opisthopterus	1.084E+01	3.569E-02
3	ES	Aptenodytes forsteri → Kondakovia longimama	1.084E+01	1.758E-01
3	ES	Aptenodytes forsteri → Notolepis coatsi	1.084E+01	3.145E-03
3	ES	Aptenodytes forsteri → Protomyctophum bolini	1.084E+01	5.581E-03
3	ES	Aptenodytes forsteri → Psychroteuthis glacialis	1.084E+01	4.666E-01
3	ES	Aptenodytes forsteri → Thysanoessa macrura	1.084E+01	1.580E-05
3	ES	Arctocephalus gazella → Chaenodraco wilsoni	2.205E+02	2.139E-01
3	ES	Arctocephalus gazella → Chionodraco	2.205E+02	3.664E-01
3	ES	Arctocephalus gazella → Dissostichus mawsoni	2.205E+02	2.425E+01
3	ES	Arctocephalus gazella → Electrona antarctica	2.205E+02	3.906E-02
3	ES	Arctocephalus gazella → Euphausiacea	2.205E+02	1.580E-05
3	ES	Arctocephalus gazella → Gymnoscopelus braueri	2.205E+02	2.614E-02
3	ES	Arctocephalus gazella → Gymnoscopelus nicholsi	2.205E+02	1.150E-01
3	ES	Arctocephalus gazella → Myctophidae	2.205E+02	1.967E-02
3	ES	Arctocephalus gazella → Nototheniidae	2.205E+02	1.072
3	ES	Arctocephalus gazella → Pleuragramma antarcticum	2.205E+02	3.006E-01
3	ES	Arctocephalus gazella → Protomyctophum bolini	2.205E+02	5.581E-03
3	ES	Arctocephalus gazella → Pygoscelis adeliae	2.205E+02	8.802E-01
3	ES	Arctocephalus gazella → Trematomus eulepidotus	2.205E+02	4.803E-01
3	ES	Ascidia challengeri → Bacteria	3.240E-04	2.810E-10
3	ES	Ascidia challengeri → Nanoplankton	3.240E-04	1.080E-11
3	ES	Axociella nidificata → Bacteria	1.475E-01	2.810E-10
3	ES	Axociella nidificata → Phytoplankton	1.475E-01	1.370E-09
3	ES	Balaenoptera acutorostrata → Euphausiacea	1.423E+04	1.580E-05
3	ES	Balaenoptera acutorostrata → Myctophidae	1.423E+04	1.967E-02
3	ES	Balaenoptera acutorostrata → Zooplankton	1.423E+04	1.680E-07
3	ES	Balaenoptera musculus → Champsocephalus gunnari	2.399E+05	3.644
3	ES	Balaenoptera musculus → Dissostichus mawsoni	2.399E+05	2.425E+01
3	ES	Balaenoptera musculus → Euphausiacea	2.399E+05	1.580E-05
3	ES	Balaenoptera musculus → Myctophidae	2.399E+05	1.967E-02
3	ES	Balaenoptera musculus → Zooplankton	2.399E+05	1.680E-07
3	ES	Balaenoptera physalus → Champsocephalus gunnari	1.400E+05	3.644
3	ES	Balaenoptera physalus → Dissostichus mawsoni	1.400E+05	2.425E+01
3	ES	Balaenoptera physalus → Euphausiacea	1.400E+05	1.580E-05
3	ES	Balaenoptera physalus → Myctophidae	1.400E+05	1.967E-02
3	ES	Balaenoptera physalus → Zooplankton	1.400E+05	1.680E-07
3	ES	Bargmannia sp. → Euphausiacea	1.810E-05	1.580E-05
3	ES	Bargmannia sp. → Zooplankton	1.810E-05	1.680E-07
3	ES	Bathylagus antarcticus → Copepoda	2.652E-02	1.810E-06
3	ES	Bathylagus antarcticus → Euchaeta antarctica	2.652E-02	1.980E-06
3	ES	Bathylagus antarcticus → Eukrohnia hamata	2.652E-02	2.120E-05
3	ES	Bathylagus antarcticus → Euphausia superba	2.652E-02	1.960E-04

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
3	ES	Bathylagus antarcticus → Foraminifera	2.652E-02	5.650E-10
3	ES	Bathylagus antarcticus → Limacina helicina	2.652E-02	9.390E-08
3	ES	Bathylagus antarcticus → Metridia gerlachei	2.652E-02	8.160E-07
3	ES	Bathylagus antarcticus → Oithona sp.	2.652E-02	9.350E-09
3	ES	Bathylagus antarcticus → Oncea curvata	2.652E-02	9.350E-09
3	ES	Bathylagus antarcticus → Pelegobia longicirrata	2.652E-02	3.820E-08
3	ES	Bathylagus antarcticus → Sagitta marri	2.652E-02	9.980E-04
3	ES	Bathylagus antarcticus → Zooplankton	2.652E-02	1.680E-07
3	ES	Beroe cucumis → Pelegobia longicirrata	4.900E-04	3.820E-08
3	ES	Boroecia antipoda → Phytoplankton	2.520E-07	1.370E-09
3	ES	Bostrychopora dentata → Nanoplankton	7.030E-07	1.080E-11
3	ES	Calanoides acutus → Copepoda	1.490E-06	1.810E-06
3	ES	Calanoides acutus → Flagellate	1.490E-06	2.540E-11
3	ES	Calanoides acutus → Oithona sp.	1.490E-06	9.350E-09
3	ES	Calanoides acutus → Oncea curvata	1.490E-06	9.350E-09
3	ES	Calanoides acutus → Pelegobia longicirrata	1.490E-06	3.820E-08
3	ES	Calanoides acutus → Silicioflagellates	1.490E-06	1.510E-10
3	ES	Calanoides acutus → Tintinnid	1.490E-06	4.010E-08
3	ES	Calanus propinquus → Copepoda	1.550E-06	1.810E-06
3	ES	Calanus propinquus → Euchaeta antarctica	1.550E-06	1.980E-06
3	ES	Calanus propinquus → Flagellate	1.550E-06	2.540E-11
3	ES	Calanus propinquus → Oithona sp.	1.550E-06	9.350E-09
3	ES	Calanus propinquus → Silicioflagellates	1.550E-06	1.510E-10
3	ES	Calanus propinquus → Tintinnid	1.550E-06	4.010E-08
3	ES	Callianira antarctica → Copepoda	2.188E-02	1.810E-06
3	ES	Callianira antarctica → Zooplankton	2.188E-02	1.680E-07
3	ES	Calyx arcuarius → Bacteria	6.107E-02	2.810E-10
3	ES	Calyx arcuarius → Phytoplankton	6.107E-02	1.370E-09
3	ES	Camptoplites tricornis → Nanoplankton	9.730E-06	1.080E-11
3	ES	Cellarinella sp. → Nanoplankton	1.400E-06	1.080E-11
3	ES	Chaenodraco wilsoni → Euphausiacea	2.139E-01	1.580E-05
3	ES	Chionodraco hamatus → Copepoda	1.072	1.810E-06
3	ES	Chionodraco hamatus → Euphausiacea	1.072	1.580E-05
3	ES	Chionodraco myersi → Euphausiacea	3.664E-01	1.580E-05
3	ES	Chorismus antarcticus → Barrukia cristata	2.720E-04	9.000E-05
3	ES	Chorismus antarcticus → Corethron sp.	2.720E-04	6.460E-10
3	ES	Chorismus antarcticus → Eucranta mollis	2.720E-04	1.070E-04
3	ES	Chorismus antarcticus → Eulagisca gigantea	2.720E-04	4.777E-03
3	ES	Chorismus antarcticus → Eunoe spica	2.720E-04	9.540E-05
3	ES	Chorismus antarcticus → Foraminifera	2.720E-04	5.650E-10
3	ES	Chorismus antarcticus → Laetmonice producta	2.720E-04	2.583E-03
3	ES	Chorismus antarcticus → Taeniogyrus contortus	2.720E-04	4.805E-03
3	ES	Chorismus antarcticus → Yoldiella eightsi	2.720E-04	5.900E-04
3	ES	Cinachyra antarctica → Bacteria	6.692E-03	2.810E-10
3	ES	Cinachyra antarctica → Phytoplankton	6.692E-03	1.370E-09
3	ES	Cinachyra barbata → Bacteria	6.692E-03	2.810E-10
3	ES	Cinachyra barbata → Phytoplankton	6.692E-03	1.370E-09
3	ES	Clavularia frankliniana → Foraminifera	1.120E-05	5.650E-10
3	ES	Clavularia frankliniana → Phytoplankton	1.120E-05	1.370E-09
3	ES	Clavularia frankliniana → Zooplankton	1.120E-05	1.680E-07

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
3	ES	Clio pyramitata → Copepoda	1.710E-05	1.810E-06
3	ES	Clio pyramitata → Gnathia calva	1.710E-05	3.160E-06
3	ES	Clio pyramitata → Oithona sp.	1.710E-05	9.350E-09
3	ES	Clio pyramitata → Pelegobia longicirrata	1.710E-05	3.820E-08
3	ES	Clione antarctica → Limacina helicina	1.030E-04	9.390E-08
3	ES	Clione limacina → Clione antarctica	1.350E-05	1.030E-04
3	ES	Clione limacina → Limacina helicina	1.350E-05	9.390E-08
3	ES	Cnemidocarpa verrucosa → Bacteria	1.606E-02	2.810E-10
3	ES	Cnemidocarpa verrucosa → Nanoplankton	1.606E-02	1.080E-11
3	ES	Corella eumyota → Bacteria	4.487E-03	2.810E-10
3	ES	Corella eumyota → Nanoplankton	4.487E-03	1.080E-11
3	ES	Cryodraco antarcticus → Euphausiacea	1.278	1.580E-05
3	ES	Cryodraco antarcticus → Pleuragramma antarcticum	1.278	3.006E-01
3	ES	Cygnodraco mawsoni → Euphausia crystallorophias	7.565E-01	6.590E-05
3	ES	Cygnodraco mawsoni → Pteropoda	7.565E-01	5.540E-05
3	ES	Cyllopus lucasii → Calanus propinquus	2.640E-05	1.550E-06
3	ES	Cyllopus lucasii → Copepoda	2.640E-05	1.810E-06
3	ES	Cyllopus lucasii → Eukrohnia hamata	2.640E-05	2.120E-05
3	ES	Cyllopus lucasii → Euphausia superba	2.640E-05	1.960E-04
3	ES	Cyllopus lucasii → Flagellate	2.640E-05	2.540E-11
3	ES	Cyllopus lucasii → Metridia gerlachei	2.640E-05	8.160E-07
3	ES	Cyllopus lucasii → Oithona sp.	2.640E-05	9.350E-09
3	ES	Cyllopus lucasii → Oncea curvata	2.640E-05	9.350E-09
3	ES	Cyllopus lucasii → Ostracods	2.640E-05	2.520E-07
3	ES	Cyllopus lucasii → Pelegobia longicirrata	2.640E-05	3.820E-08
3	ES	Cyllopus lucasii → Tintinnid	2.640E-05	4.010E-08
3	ES	Cyllopus lucasii → Zooplankton	2.640E-05	1.680E-07
3	ES	Daption capense → Cyllopus lucasii	5.537	2.640E-05
3	ES	Daption capense → Electrona antarctica	5.537	3.906E-02
3	ES	Daption capense → Euphausia superba	5.537	1.960E-04
3	ES	Daption capense → Galitheutis glacialis	5.537	1.250
3	ES	Daption capense → Gonatus antarcticus	5.537	5.273E-01
3	ES	Daption capense → Gymnoscopelus braueri	5.537	2.614E-02
3	ES	Daption capense → Gymnoscopelus nicholsi	5.537	1.150E-01
3	ES	Daption capense → Gymnoscopelus opisthopterus	5.537	3.569E-02
3	ES	Daption capense → Notocrangon antarcticus	5.537	4.490E-04
3	ES	Daption capense → Notolepis coatsi	5.537	3.145E-03
3	ES	Daption capense → Protomyctophum bolini	5.537	5.581E-03
3	ES	Daption capense → Psychroteuthis glacialis	5.537	4.666E-01
3	ES	Daption capense → Salpa thompsoni	5.537	7.750E-05
3	ES	Daption capense → Vibillia antarctica	5.537	9.390E-08
3	ES	Daption capense → Vibillia stebbingi	5.537	9.390E-08
3	ES	Desmonema glaciale → Euphausiacea	1.800	1.580E-05
3	ES	Desmonema glaciale → Nemertini	1.800	1.028
3	ES	Desmonema glaciale → Odontaster validus	1.800	6.640E-04
3	ES	Dipulmaris antarctica → Clione antarctica	1.640E-02	1.030E-04
3	ES	Dipulmaris antarctica → Copepoda	1.640E-02	1.810E-06
3	ES	Dipulmaris antarctica → Limacina helicina	1.640E-02	9.390E-08
3	ES	Dipulmaris antarctica → Pteropoda	1.640E-02	5.540E-05
3	ES	Dipulmaris antarctica → Zooplankton	1.640E-02	1.680E-07

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
3	ES	Dipulmaris antarctica → Zooplankton	1.640E-02	1.680E-07
3	ES	Dissostichus mawsoni → Bathylagus antarcticus	2.425E+01	2.652E-02
3	ES	Dissostichus mawsoni → Dissostichus mawsoni	2.425E+01	2.425E+01
3	ES	Dissostichus mawsoni → Galitheutis glacialis	2.425E+01	1.250
3	ES	Dissostichus mawsoni → Gonatus antarcticus	2.425E+01	5.273E-01
3	ES	Dissostichus mawsoni → Harpagifer antarcticus	2.425E+01	3.645E-02
3	ES	Dissostichus mawsoni → Kondakovia longimama	2.425E+01	1.758E-01
3	ES	Dissostichus mawsoni → Macrourus whitsoni	2.425E+01	5.061
3	ES	Dissostichus mawsoni → Moroteuthis ingens	2.425E+01	3.052E-01
3	ES	Dissostichus mawsoni → Myctophidae	2.425E+01	1.967E-02
3	ES	Dissostichus mawsoni → Nototheniidae	2.425E+01	1.072
3	ES	Dissostichus mawsoni → Vampryoteuthis	2.425E+01	2.095E-03
3	ES	Djerboa furcipes → Phytoplankton	5.050E-06	1.370E-09
3	ES	Dolloidraco longidorsalis → Copepoda	1.316E-02	1.810E-06
3	ES	Dolloidraco longidorsalis → Cumacea	1.316E-02	7.400E-06
3	ES	Dolloidraco longidorsalis → Euphausiacea	1.316E-02	1.580E-05
3	ES	Dolloidraco longidorsalis → Ostracods	1.316E-02	2.520E-07
3	ES	Dolloidraco longidorsalis → Tanaidacea	1.316E-02	1.470E-04
3	ES	Echinopsolus acanthocola → Phytoplankton	6.530E-04	1.370E-09
3	ES	Edwardsia meridionalis → Copepoda	9.010E-04	1.810E-06
3	ES	Edwardsia meridionalis → Zooplankton	9.010E-04	1.680E-07
3	ES	Electrona antarctica → Calanus propinquus	3.906E-02	1.550E-06
3	ES	Electrona antarctica → Copepoda	3.906E-02	1.810E-06
3	ES	Electrona antarctica → Euchaeta antarctica	3.906E-02	1.980E-06
3	ES	Electrona antarctica → Eukrohnia hamata	3.906E-02	2.120E-05
3	ES	Electrona antarctica → Euphausia frigida	3.906E-02	1.690E-05
3	ES	Electrona antarctica → Euphausia superba	3.906E-02	1.960E-04
3	ES	Electrona antarctica → Euphausiacea	3.906E-02	1.580E-05
3	ES	Electrona antarctica → Metridia gerlachei	3.906E-02	8.160E-07
3	ES	Electrona antarctica → Oncea curvata	3.906E-02	9.350E-09
3	ES	Electrona antarctica → Ostracods	3.906E-02	2.520E-07
3	ES	Electrona antarctica → Pelegobia longicirrata	3.906E-02	3.820E-08
3	ES	Electrona antarctica → Rhincalanus gigas	3.906E-02	3.770E-06
3	ES	Electrona antarctica → Thysanoessa macrura	3.906E-02	1.580E-05
3	ES	Epimeria georgiana → Foraminifera	9.280E-05	5.650E-10
3	ES	Epimeria georgiana → Zooplankton	9.280E-05	1.680E-07
3	ES	Epimeria macrodonta → Euphausiacea	7.010E-05	1.580E-05
3	ES	Epimeria macrodonta → Foraminifera	7.010E-05	5.650E-10
3	ES	Epimeria rubrieques → Zooplankton	3.000E-04	1.680E-07
3	ES	Euchaeta antarctica → Copepoda	1.980E-06	1.810E-06
3	ES	Euchaeta antarctica → Cyllopus lucasii	1.980E-06	2.640E-05
3	ES	Euchaeta antarctica → Euchaeta antarctica	1.980E-06	1.980E-06
3	ES	Euchaeta antarctica → Eukrohnia hamata	1.980E-06	2.120E-05
3	ES	Euchaeta antarctica → Flagellate	1.980E-06	2.540E-11
3	ES	Euchaeta antarctica → Metridia gerlachei	1.980E-06	8.160E-07
3	ES	Euchaeta antarctica → Oithona sp.	1.980E-06	9.350E-09
3	ES	Euchaeta antarctica → Oncea curvata	1.980E-06	9.350E-09
3	ES	Euchaeta antarctica → Pelegobia longicirrata	1.980E-06	3.820E-08
3	ES	Euchaeta antarctica → Silicioflagellates	1.980E-06	1.510E-10
3	ES	Euchaeta antarctica → Tintinnid	1.980E-06	4.010E-08

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
3	ES	Euchaetomera antarcticus → Zooplankton	1.020E-05	1.680E-07
3	ES	Eucopia australis → Zooplankton	1.740E-04	1.680E-07
3	ES	Eudorella splendida → Bacteria	7.400E-06	2.810E-10
3	ES	Eukrohnia hamata → Calanus propinquus	2.120E-05	1.550E-06
3	ES	Eukrohnia hamata → Copepoda	2.120E-05	1.810E-06
3	ES	Eukrohnia hamata → Metridia gerlachei	2.120E-05	8.160E-07
3	ES	Euphausia crystallorophias → Phytoplankton	6.590E-05	1.370E-09
3	ES	Euphausia frigida → Copepoda	1.690E-05	1.810E-06
3	ES	Euphausia frigida → Flagellate	1.690E-05	2.540E-11
3	ES	Euphausia frigida → Foraminifera	1.690E-05	5.650E-10
3	ES	Euphausia frigida → Phytoplankton	1.690E-05	1.370E-09
3	ES	Euphausia frigida → Pteropoda	1.690E-05	5.540E-05
3	ES	Euphausia frigida → Tintinnid	1.690E-05	4.010E-08
3	ES	Euphausia superba → Chaetoceros sp.	1.960E-04	6.460E-10
3	ES	Euphausia superba → Copepoda	1.960E-04	1.810E-06
3	ES	Euphausia superba → Distephanus sp.	1.960E-04	6.460E-10
3	ES	Euphausia superba → Entomoneis sp.	1.960E-04	6.460E-10
3	ES	Euphausia superba → Flagellate	1.960E-04	2.540E-11
3	ES	Euphausia superba → Fragilariopsis	1.960E-04	6.460E-10
3	ES	Euphausia superba → Nitzschia sp.	1.960E-04	6.460E-10
3	ES	Euphausia superba → Oithona sp.	1.960E-04	9.350E-09
3	ES	Eusirus antarcticus → Copepoda	1.460E-05	1.810E-06
3	ES	Galitheutis glacialis → Euphausia superba	1.250	1.960E-04
3	ES	Gerlachea australis → Euphausia crystallorophias	2.592E-01	6.590E-05
3	ES	Gerlachea australis → Euphausiacea	2.592E-01	1.580E-05
3	ES	Gersemia antarctica → Foraminifera	4.525	5.650E-10
3	ES	Gnathia calva → Zooplankton	3.160E-06	1.680E-07
3	ES	Gonatus antarcticus → Cyllopus lucasii	5.273E-01	2.640E-05
3	ES	Gonatus antarcticus → Euphausia superba	5.273E-01	1.960E-04
3	ES	Gorgonocephalus chiliensis → Copepoda	2.606E-03	1.810E-06
3	ES	Gymnodraco acuticeps → Euphausiacea	1.362	1.580E-05
3	ES	Gymnodraco acuticeps → Zooplankton	1.362	1.680E-07
3	ES	Gymnoscopelus braueri → Clio pyramitata	2.614E-02	1.710E-05
3	ES	Gymnoscopelus braueri → Copepoda	2.614E-02	1.810E-06
3	ES	Gymnoscopelus braueri → Cyllopus lucasii	2.614E-02	2.640E-05
3	ES	Gymnoscopelus braueri → Euchaeta antarctica	2.614E-02	1.980E-06
3	ES	Gymnoscopelus braueri → Euchaeta antarctica	2.614E-02	1.980E-06
3	ES	Gymnoscopelus braueri → Eukrohnia hamata	2.614E-02	2.120E-05
3	ES	Gymnoscopelus braueri → Euphausia superba	2.614E-02	1.960E-04
3	ES	Gymnoscopelus braueri → Limacina helicina	2.614E-02	9.390E-08
3	ES	Gymnoscopelus braueri → Metridia gerlachei	2.614E-02	8.160E-07
3	ES	Gymnoscopelus braueri → Pelegobia longicirrata	2.614E-02	3.820E-08
3	ES	Gymnoscopelus braueri → Sagitta marri	2.614E-02	9.980E-04
3	ES	Gymnoscopelus braueri → Salpa thompsoni	2.614E-02	7.750E-05
3	ES	Gymnoscopelus braueri → Zooplankton	2.614E-02	1.680E-07
3	ES	Gymnoscopelus nicholsi → Calanus propinquus	1.150E-01	1.550E-06
3	ES	Gymnoscopelus nicholsi → Chaetognatha	1.150E-01	4.410E-04
3	ES	Gymnoscopelus nicholsi → Copepoda	1.150E-01	1.810E-06
3	ES	Gymnoscopelus nicholsi → Euchaeta antarctica	1.150E-01	1.980E-06
3	ES	Gymnoscopelus nicholsi → Euphausia crystallorophias	1.150E-01	6.590E-05

doi:10.1038/nature11131

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
3	ES	Gymnoscopelus nicholsi → Euphausia frigida	1.150E-01	1.690E-05
3	ES	Gymnoscopelus nicholsi → Euphausia superba	1.150E-01	1.960E-04
3	ES	Gymnoscopelus nicholsi → Euphausiacea	1.150E-01	1.580E-05
3	ES	Gymnoscopelus nicholsi → Metridia gerlachei	1.150E-01	8.160E-07
3	ES	Gymnoscopelus nicholsi → Oncea curvata	1.150E-01	9.350E-09
3	ES	Gymnoscopelus nicholsi → Ostracods	1.150E-01	2.520E-07
3	ES	Gymnoscopelus nicholsi → Protomyctophum bolini	1.150E-01	5.581E-03
3	ES	Gymnoscopelus nicholsi → Rhincalanus gigas	1.150E-01	3.770E-06
3	ES	Gymnoscopelus nicholsi → Thysanoessa macrura	1.150E-01	1.580E-05
3	ES	Gymnoscopelus opisthopterus → Clio pyramitata	3.569E-02	1.710E-05
3	ES	Gymnoscopelus opisthopterus → Copepoda	3.569E-02	1.810E-06
3	ES	Gymnoscopelus opisthopterus → Cyllopus lucasii	3.569E-02	2.640E-05
3	ES	Gymnoscopelus opisthopterus → Eukrohnia hamata	3.569E-02	2.120E-05
3	ES	Gymnoscopelus opisthopterus → Euphausia superba	3.569E-02	1.960E-04
3	ES	Gymnoscopelus opisthopterus → Limacina helicina	3.569E-02	9.390E-08
3	ES	Gymnoscopelus opisthopterus → Metridia gerlachei	3.569E-02	8.160E-07
3	ES	Gymnoscopelus opisthopterus → Oithona sp.	3.569E-02	9.350E-09
3	ES	Gymnoscopelus opisthopterus → Pelegobia longicirrata	3.569E-02	3.820E-08
3	ES	Gymnoscopelus opisthopterus → Sagitta marri	3.569E-02	9.980E-04
3	ES	Gymnoscopelus opisthopterus → Salpa thompsoni	3.569E-02	7.750E-05
3	ES	Gymnoscopelus opisthopterus → Zooplankton	3.569E-02	1.680E-07
3	ES	Haliclona dancoi → Bacteria	1.298E-01	2.810E-10
3	ES	Haliclona dancoi → Phytoplankton	1.298E-01	1.370E-09
3	ES	Haliclona tenella → Bacteria	1.298E-01	2.810E-10
3	ES	Haliclona tenella → Phytoplankton	1.298E-01	1.370E-09
3	ES	Haplocheira plumosa → Phytoplankton	5.050E-06	1.370E-09
3	ES	Harpagifer antarcticus → Chiton	3.645E-02	3.365E-03
3	ES	Harpagifer antarcticus → Djerboa furcipes	3.645E-02	5.050E-06
3	ES	Harpagifer antarcticus → Epimeria robusta	3.645E-02	9.280E-05
3	ES	Harpagifer antarcticus → Euphausia superba	3.645E-02	1.960E-04
3	ES	Harpagifer antarcticus → Natatolana meridionalis	3.645E-02	5.050E-06
3	ES	Harpagifer antarcticus → Notocrangon antarcticus	3.645E-02	4.490E-04
3	ES	Harpagifer antarcticus → Oradarea edentata	3.645E-02	5.050E-06
3	ES	Harpovoluta charcoti → Phytoplankton	6.899E-03	1.370E-09
3	ES	Heterophoxus videns → Copepoda	5.050E-06	1.810E-06
3	ES	Heterophoxus videns → Eucranta mollis	5.050E-06	1.070E-04
3	ES	Heterophoxus videns → Eunoe spica	5.050E-06	9.540E-05
3	ES	Heterophoxus videns → Foraminifera	5.050E-06	5.650E-10
3	ES	Heterophoxus videns → Laetmonice producta	5.050E-06	2.583E-03
3	ES	Heterophoxus videns → Tanaidacea	5.050E-06	1.470E-04
3	ES	Homaxinella balfourensis → Bacteria	6.107E-02	2.810E-10
3	ES	Homaxinella balfourensis → Phytoplankton	6.107E-02	1.370E-09
3	ES	Hydrurga leptonyx → Arctocephalus gazella	7.216E+02	2.205E+02
3	ES	Hydrurga leptonyx → Euphausiacea	7.216E+02	1.580E-05
3	ES	Hydrurga leptonyx → Kondakovia longimama	7.216E+02	1.758E-01
3	ES	Hydrurga leptonyx → Psychroteuthis glacialis	7.216E+02	4.666E-01
3	ES	Hyperia macrocephala → Limacina helicina	3.170E-05	9.390E-08
3	ES	Hyperia macrocephala → Pteropoda	3.170E-05	5.540E-05
3	ES	Hyperia macrocephala → Salpa thompsoni	3.170E-05	7.750E-05
3	ES	Hyperia macrocephala → Scyphozoa	3.170E-05	1.640E-02

doi:10.1038/nature11131

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
3	ES	Hyperiella dilatata → Copepoda	1.550E-06	1.810E-06
3	ES	Hyperiella dilatata → Flagellate	1.550E-06	2.540E-11
3	ES	Hyperiella dilatata → Oithona sp.	1.550E-06	9.350E-09
3	ES	Hyperiella dilatata → Oncea curvata	1.550E-06	9.350E-09
3	ES	Hyperiella dilatata → Tintinnid	1.550E-06	4.010E-08
3	ES	Ihlea racovitzai → Phytoplankton	1.110E-06	1.370E-09
3	ES	Iophon radiatus → Bacteria	6.107E-02	2.810E-10
3	ES	Iophon radiatus → Phytoplankton	6.107E-02	1.370E-09
3	ES	Isodyctia steifera → Bacteria	1.298E-01	2.810E-10
3	ES	Isodyctia steifera → Phytoplankton	1.298E-01	1.370E-09
3	ES	Isoschizoporella tricuspis → Nanoplankton	9.730E-06	1.080E-11
3	ES	Isotealia antarctica → Copepoda	1.914E-03	1.810E-06
3	ES	Isotealia antarctica → Eunoe spica	1.914E-03	9.540E-05
3	ES	Kirkpatrickia variolosa → Bacteria	7.978E-01	2.810E-10
3	ES	Kirkpatrickia variolosa → Phytoplankton	7.978E-01	1.370E-09
3	ES	Kondakovia longimama → Euphausia superba	1.758E-01	1.960E-04
3	ES	Lagenorhynchus cruciger → Champsocephalus gunnari	1.742E+02	3.644
3	ES	Lagenorhynchus cruciger → Dissostichus mawsoni	1.742E+02	2.425E+01
3	ES	Lagenorhynchus cruciger → Euphausiacea	1.742E+02	1.580E-05
3	ES	Lagenorhynchus cruciger → Myctophidae	1.742E+02	1.967E-02
3	ES	Leptonychotes weddelli → Aethotaxis mitopteryx	4.529E+02	4.857E-02
3	ES	Leptonychotes weddelli → Dissostichus mawsoni	4.529E+02	2.425E+01
3	ES	Leptonychotes weddelli → Euphausia crystallorophias	4.529E+02	6.590E-05
3	ES	Leptonychotes weddelli → Pleuragramma antarcticum	4.529E+02	3.006E-01
3	ES	Leptonychotes weddelli → Trematomus hansoni	4.529E+02	3.006E-01
3	ES	Liljeborgia georgiana → Copepoda	4.060E-05	1.810E-06
3	ES	Liljeborgia georgiana → Eucranta mollis	4.060E-05	1.070E-04
3	ES	Liljeborgia georgiana → Eunoe spica	4.060E-05	9.540E-05
3	ES	Liljeborgia georgiana → Euphausiacea	4.060E-05	1.580E-05
3	ES	Limacina helicina → Zooplankton	9.390E-08	1.680E-07
3	ES	Lobodon carcinophagus → Euphausia superba	4.403E+02	1.960E-04
3	ES	Lobodon carcinophagus → Euphausiacea	4.403E+02	1.580E-05
3	ES	Lyrocteis flavopallidus → Phytoplankton	4.253E-03	1.370E-09
3	ES	Lysasterias perrieri → Ostracods	3.561E-03	2.520E-07
3	ES	Martialia hyadesi → Chionodraco hamatus	1.758E-01	1.072
3	ES	Martialia hyadesi → Euphausia superba	1.758E-01	1.960E-04
3	ES	Martialia hyadesi → Gonatus antarcticus	1.758E-01	5.273E-01
3	ES	Martialia hyadesi → Gymnoscopelus nicholsi	1.758E-01	1.150E-01
3	ES	Martialia hyadesi → Protomyctophum bolini	1.758E-01	5.581E-03
3	ES	Martialia hyadesi → Psychroteuthis glacialis	1.758E-01	4.666E-01
3	ES	Megaptera novaeangliae → Euphausiacea	5.575E+04	1.580E-05
3	ES	Melicerita obliqua → Nanoplankton	9.730E-06	1.080E-11
3	ES	Melphidippa antarctica → Euchaeta antarctica	3.460E-05	1.980E-06
3	ES	Melphidippa antarctica → Euphausiacea	3.460E-05	1.580E-05
3	ES	Mertensiid ctenophore → Clione antarctica	1.006E-03	1.030E-04
3	ES	Mertensiid ctenophore → Copepoda	1.006E-03	1.810E-06
3	ES	Mertensiid ctenophore → Euchaeta antarctica	1.006E-03	1.980E-06
3	ES	Mertensiid ctenophore → Pteropoda	1.006E-03	5.540E-05
3	ES	Mertensiid ctenophore → Zooplankton	1.006E-03	1.680E-07
3	ES	Mesonychoteuthis hamiltoni → Eukrohnia hamata	1.563E+02	2.120E-05

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
3	ES	Metaconchoecia isocheira → Phytoplankton	2.520E-07	1.370E-09
3	ES	Metridia gerlachei → Copepoda	8.160E-07	1.810E-06
3	ES	Metridia gerlachei → Flagellate	8.160E-07	2.540E-11
3	ES	Metridia gerlachei → Oithona sp.	8.160E-07	9.350E-09
3	ES	Metridia gerlachei → Oncea curvata	8.160E-07	9.350E-09
3	ES	Metridia gerlachei → Silicioflagellates	8.160E-07	1.510E-10
3	ES	Metridia gerlachei → Tintinnid	8.160E-07	4.010E-08
3	ES	Mirounga leonina → Alluroteuthis antarcticus	2.067E+03	1.000E-02
3	ES	Mirounga leonina → Chionodraco	2.067E+03	3.664E-01
3	ES	Mirounga leonina → Chionodraco hamatus	2.067E+03	1.072
3	ES	Mirounga leonina → Dissostichus mawsoni	2.067E+03	2.425E+01
3	ES	Mirounga leonina → Electrona antarctica	2.067E+03	3.906E-02
3	ES	Mirounga leonina → Galitheutis glacialis	2.067E+03	1.250
3	ES	Mirounga leonina → Gonatus antarcticus	2.067E+03	5.273E-01
3	ES	Mirounga leonina → Gymnoscopelus nicholsi	2.067E+03	1.150E-01
3	ES	Mirounga leonina → Kondakovia longimama	2.067E+03	1.758E-01
3	ES	Mirounga leonina → Martialia hyadesi	2.067E+03	1.758E-01
3	ES	Mirounga leonina → Mesonychoteuthis hamiltoni	2.067E+03	1.563E+02
3	ES	Mirounga leonina → Moroteuthis ingens	2.067E+03	3.052E-01
3	ES	Mirounga leonina → Myctophidae	2.067E+03	1.967E-02
3	ES	Mirounga leonina → Nototheniidae	2.067E+03	1.072
3	ES	Mirounga leonina → Pleuragramma antarcticum	2.067E+03	3.006E-01
3	ES	Mirounga leonina → Psychroteuthis glacialis	2.067E+03	4.666E-01
3	ES	Mirounga leonina → Trematomus eulepidotus	2.067E+03	4.803E-01
3	ES	Mirounga leonina → Trematomus hansoni	2.067E+03	3.006E-01
3	ES	Mirounga leonina → Trematomus pennellii	2.067E+03	3.006E-01
3	ES	Mirounga leonina → Trematomus scotti	2.067E+03	9.548E-02
3	ES	Molgula pedunculata → Bacteria	1.045E-02	2.810E-10
3	ES	Molgula pedunculata → Nanoplankton	1.045E-02	1.080E-11
3	ES	Monocaulus parvula → Copepoda	6.550E-04	1.810E-06
3	ES	Monocaulus parvula → Zooplankton	6.550E-04	1.680E-07
3	ES	Morotheutis ingens → Copepoda	5.273E-01	1.810E-06
3	ES	Morotheutis ingens → Cyllopus lucasii	5.273E-01	2.640E-05
3	ES	Morotheutis ingens → Electrona antarctica	5.273E-01	3.906E-02
3	ES	Morotheutis ingens → Epimeria robusta	5.273E-01	9.280E-05
3	ES	Morotheutis ingens → Myctophidae	5.273E-01	1.967E-02
3	ES	Mycale (Oxymycale) acerata → Bacteria	2.581E-01	2.810E-10
3	ES	Mycale (Oxymycale) acerata → Phytoplankton	2.581E-01	1.370E-09
3	ES	Myodocopia → Zooplankton	2.520E-07	1.680E-07
3	ES	Mysidae → Zooplankton	7.010E-05	1.680E-07
3	ES	Nematocarcinus lanceopes → Euchaeta antarctica	1.279E-03	1.980E-06
3	ES	Nematocarcinus lanceopes → Flagellate	1.279E-03	2.540E-11
3	ES	Nematocarcinus lanceopes → Phytoplankton	1.279E-03	1.370E-09
3	ES	Nematocarcinus lanceopes → Tintinnid	1.279E-03	4.010E-08
3	ES	Nematocarcinus lanceopes → Zooplankton	1.279E-03	1.680E-07
3	ES	Notolepis coatsi → Copepoda	3.145E-03	1.810E-06
3	ES	Notolepis coatsi → Euchaeta antarctica	3.145E-03	1.980E-06
3	ES	Notolepis coatsi → Eukrohnia hamata	3.145E-03	2.120E-05
3	ES	Notolepis coatsi → Euphausia superba	3.145E-03	1.960E-04
3	ES	Notolepis coatsi → Limacina helicina	3.145E-03	9.390E-08

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
3	ES	Notolepis coatsi → Metridia gerlachei	3.145E-03	8.160E-07
3	ES	Notolepis coatsi → Notocrangon antarcticus	3.145E-03	4.490E-04
3	ES	Notolepis coatsi → Oithona sp.	3.145E-03	9.350E-09
3	ES	Notolepis coatsi → Oncea curvata	3.145E-03	9.350E-09
3	ES	Notolepis coatsi → Pelegobia longicirrata	3.145E-03	3.820E-08
3	ES	Notolepis coatsi → Sagitta marri	3.145E-03	9.980E-04
3	ES	Notolepis coatsi → Salpa thompsoni	3.145E-03	7.750E-05
3	ES	Nototanais antarcticus → Bacteria	1.470E-04	2.810E-10
3	ES	Nototanais dimorphus → Bacteria	1.470E-04	2.810E-10
3	ES	Notothenia marmorata → Euphausia superba	8.555	1.960E-04
3	ES	Notothenia marmorata → Salpa thompsoni	8.555	7.750E-05
3	ES	Nuttallochiton mirandus → Foraminifera	6.899E-03	5.650E-10
3	ES	Oediceroides calmani → Phytoplankton	5.070E-05	1.370E-09
3	ES	Oediceroides emarginatus → Phytoplankton	2.170E-04	1.370E-09
3	ES	Ommatophoca rossii → Alluroteuthis antarcticus	1.725E+02	1.000E-02
3	ES	Ommatophoca rossii → Galitheutis glacialis	1.725E+02	1.250
3	ES	Ommatophoca rossii → Kondakovia longimama	1.725E+02	1.758E-01
3	ES	Ommatophoca rossii → Psychroteuthis glacialis	1.725E+02	4.666E-01
3	ES	Ophiacantha antarctica → Copepoda	1.010E-04	1.810E-06
3	ES	Ophiacantha antarctica → Foraminifera	1.010E-04	5.650E-10
3	ES	Ophiacantha pentacis → Copepoda	1.470E-04	1.810E-06
3	ES	Ophiacantha vivipara → Copepoda	1.010E-04	1.810E-06
3	ES	Ophioceres incipiens → Flagellate	6.500E-05	2.540E-11
3	ES	Ophioceres incipiens → Foraminifera	6.500E-05	5.650E-10
3	ES	Ophioceres incipiens → Silicioflagellates	6.500E-05	1.510E-10
3	ES	Ophionotus victoriae → Euphausiacea	1.914E-03	1.580E-05
3	ES	Ophionotus victoriae → Foraminifera	1.914E-03	5.650E-10
3	ES	Ophioperla koehleri → Copepoda	1.673E-03	1.810E-06
3	ES	Ophioperla koehleri → Euphausiacea	1.673E-03	1.580E-05
3	ES	Ophioperla koehleri → Foraminifera	1.673E-03	5.650E-10
3	ES	Oradarea edentata → Phytoplankton	5.050E-06	1.370E-09
3	ES	Orcinus orca → Arctocephalus gazella	1.145E+04	2.205E+02
3	ES	Orcinus orca → Balaenoptera acutorostrata	1.145E+04	1.423E+04
3	ES	Orcinus orca → Dissostichus mawsoni	1.145E+04	2.425E+01
3	ES	Orcinus orca → Halobaena caerulea	1.145E+04	2.259E-01
3	ES	Orcinus orca → Hydrurga leptonyx	1.145E+04	7.216E+02
3	ES	Orcinus orca → Leptonychotes weddelli	1.145E+04	4.529E+02
3	ES	Orcinus orca → Lobodon carcinophagus	1.145E+04	4.403E+02
3	ES	Orcinus orca → Mirounga leonina	1.145E+04	2.067E+03
3	ES	Orcinus orca → Myctophidae	1.145E+04	1.967E-02
3	ES	Orcinus orca → Ommatophoca rossii	1.145E+04	1.725E+02
3	ES	Orcinus orca → Pygoscelis adeliae	1.145E+04	8.802E-01
3	ES	Orcinus orca → Thalassoica antarctica	1.145E+04	6.002E-01
3	ES	Pagetopsis maculatus → Euphausia crystallorophias	8.088E-02	6.590E-05
3	ES	Pagetopsis maculatus → Euphausia superba	8.088E-02	1.960E-04
3	ES	Pagetopsis maculatus → Euphausiacea	8.088E-02	1.580E-05
3	ES	Pemmatoporella sp. → Nanoplankton	7.030E-07	1.080E-11
3	ES	Physeter macrocephalus → Champsocephalus gunnari	5.141E+04	3.644
3	ES	Physeter macrocephalus → Dissostichus mawsoni	5.141E+04	2.425E+01
3	ES	Physeter macrocephalus → Euphausiacea	5.141E+04	1.580E-05

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
3	ES	Physeter macrocephalus → Myctophidae	5.141E+04	1.967E-02
3	ES	Pleuragramma antarcticum → Copepoda	3.006E-01	1.810E-06
3	ES	Pleuragramma antarcticum → Cyllopus lucasii	3.006E-01	2.640E-05
3	ES	Pleuragramma antarcticum → Euphausiacea	3.006E-01	1.580E-05
3	ES	Pleuragramma antarcticum → Myctophidae	3.006E-01	1.967E-02
3	ES	Pleuragramma antarcticum → Salpa thompsoni	3.006E-01	7.750E-05
3	ES	Podocopida → Zooplankton	2.520E-07	1.680E-07
3	ES	Primnoisis antarctica → Phytoplankton	3.170E-04	1.370E-09
3	ES	Primnoisis antarctica → Zooplankton	3.170E-04	1.680E-07
3	ES	Promachocrinus kerguelensis → Phytoplankton	6.107E-02	1.370E-09
3	ES	Protomyctophum bolini → Calanus propinquus	5.581E-03	1.550E-06
3	ES	Protomyctophum bolini → Chaetognatha	5.581E-03	4.410E-04
3	ES	Protomyctophum bolini → Copepoda	5.581E-03	1.810E-06
3	ES	Protomyctophum bolini → Euchaeta antarctica	5.581E-03	1.980E-06
3	ES	Protomyctophum bolini → Euphausiacea	5.581E-03	1.580E-05
3	ES	Protomyctophum bolini → Metridia gerlachei	5.581E-03	8.160E-07
3	ES	Protomyctophum bolini → Oncea curvata	5.581E-03	9.350E-09
3	ES	Protomyctophum bolini → Ostracods	5.581E-03	2.520E-07
3	ES	Protomyctophum bolini → Rhincalanus gigas	5.581E-03	3.770E-06
3	ES	Protomyctophum bolini → Thysanoessa macrura	5.581E-03	1.580E-05
3	ES	Psolus antarcticus → Phytoplankton	4.805E-03	1.370E-09
3	ES	Psolus charcoti → Phytoplankton	3.665E-03	1.370E-09
3	ES	Psolus dubiosus → Phytoplankton	4.805E-03	1.370E-09
3	ES	Psychroteuthis glacialis → Chaenodraco wilsoni	4.666E-01	2.139E-01
3	ES	Psychroteuthis glacialis → Chionodraco hamatus	4.666E-01	1.072
3	ES	Psychroteuthis glacialis → Euphausia superba	4.666E-01	1.960E-04
3	ES	Psychroteuthis glacialis → Myctophidae	4.666E-01	1.967E-02
3	ES	Psychroteuthis glacialis → Pleuragramma antarcticum	4.666E-01	3.006E-01
3	ES	Psychroteuthis glacialis → Psychroteuthis glacialis	4.666E-01	4.666E-01
3	ES	Pterodroma brevirostris → Cyllopus lucasii	3.257E-01	2.640E-05
3	ES	Pterodroma brevirostris → Electrona antarctica	3.257E-01	3.906E-02
3	ES	Pterodroma brevirostris → Euphausia superba	3.257E-01	1.960E-04
3	ES	Pterodroma brevirostris → Eurythenes gryllus	3.257E-01	9.320E-04
3	ES	Pterodroma brevirostris → Galitheutis glacialis	3.257E-01	1.250
3	ES	Pterodroma brevirostris → Gymnoscopelus braueri	3.257E-01	2.614E-02
3	ES	Pterodroma brevirostris → Notocrangon antarcticus	3.257E-01	4.490E-04
3	ES	Pterodroma brevirostris → Notolepis coatsi	3.257E-01	3.145E-03
3	ES	Pterodroma brevirostris → Protomyctophum bolini	3.257E-01	5.581E-03
3	ES	Pterodroma brevirostris → Vibillia antarctica	3.257E-01	9.390E-08
3	ES	Puncturella conica → Foraminifera	3.150E-05	5.650E-10
3	ES	Pygoscelis adeliae → Cyllopus lucasii	8.802E-01	2.640E-05
3	ES	Pygoscelis adeliae → Electrona antarctica	8.802E-01	3.906E-02
3	ES	Pygoscelis adeliae → Euphausia superba	8.802E-01	1.960E-04
3	ES	Pygoscelis adeliae → Euphausia superba	8.802E-01	1.960E-04
3	ES	Pygoscelis adeliae → Kondakovia longimama	8.802E-01	1.758E-01
3	ES	Pygoscelis adeliae → Psychroteuthis glacialis	8.802E-01	4.666E-01
3	ES	Pygoscelis adeliae → Thysanoessa macrura	8.802E-01	1.580E-05
3	ES	Racovitzia glacialis → Tanaidacea	4.286E-01	1.470E-04
3	ES	Reteporella hippocrepis → Nanoplankton	4.520E-05	1.080E-11
3	ES	Rhachotropis antarctica → Copepoda	1.730E-05	1.810E-06

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
3	ES	Rhachotropis antarctica → Euphausiacea	1.730E-05	1.580E-05
3	ES	Rhincalanus gigas → Flagellate	3.770E-06	2.540E-11
3	ES	Rhincalanus gigas → Oithona sp.	3.770E-06	9.350E-09
3	ES	Rhincalanus gigas → Oncea curvata	3.770E-06	9.350E-09
3	ES	Rhincalanus gigas → Silicioflagellates	3.770E-06	1.510E-10
3	ES	Rhincalanus gigas → Tintinnid	3.770E-06	4.010E-08
3	ES	Rhynchonereella bongraini → Ostracods	3.820E-08	2.520E-07
3	ES	Rossella antarctica → Bacteria	2.581E-01	2.810E-10
3	ES	Rossella antarctica → Phytoplankton	2.581E-01	1.370E-09
3	ES	Rossella nuda → Bacteria	4.141	2.810E-10
3	ES	Rossella nuda → Phytoplankton	4.141	1.370E-09
3	ES	Rossella racovitzae → Bacteria	7.978E-01	2.810E-10
3	ES	Rossella racovitzae → Phytoplankton	7.978E-01	1.370E-09
3	ES	Sagitta gazellae → Euchaeta antarctica	2.200E-04	1.980E-06
3	ES	Sagitta gazellae → Metridia gerlachei	2.200E-04	8.160E-07
3	ES	Sagitta marri → Copepoda	9.980E-04	1.810E-06
3	ES	Sagitta marri → Metridia gerlachei	9.980E-04	8.160E-07
3	ES	Sagitta marri → Oithona sp.	9.980E-04	9.350E-09
3	ES	Sagitta marri → Oncea curvata	9.980E-04	9.350E-09
3	ES	Sagitta marri → Ostracods	9.980E-04	2.520E-07
3	ES	Sagitta marri → Pelegobia longicirrata	9.980E-04	3.820E-08
3	ES	Salpa gerlachei → Phytoplankton	1.110E-06	1.370E-09
3	ES	Salpa thompsoni → Calanus propinquus	7.750E-05	1.550E-06
3	ES	Salpa thompsoni → Copepoda	7.750E-05	1.810E-06
3	ES	Salpa thompsoni → Euchaeta antarctica	7.750E-05	1.980E-06
3	ES	Salpa thompsoni → Eukrohnia hamata	7.750E-05	2.120E-05
3	ES	Salpa thompsoni → Flagellate	7.750E-05	2.540E-11
3	ES	Salpa thompsoni → Foraminifera	7.750E-05	5.650E-10
3	ES	Salpa thompsoni → Limacina helicina	7.750E-05	9.390E-08
3	ES	Salpa thompsoni → Metridia gerlachei	7.750E-05	8.160E-07
3	ES	Salpa thompsoni → Oithona sp.	7.750E-05	9.350E-09
3	ES	Salpa thompsoni → Oncea curvata	7.750E-05	9.350E-09
3	ES	Salpa thompsoni → Pelegobia longicirrata	7.750E-05	3.820E-08
3	ES	Salpa thompsoni → Phytoplankton	7.750E-05	1.370E-09
3	ES	Salpa thompsoni → Silicioflagellates	7.750E-05	1.510E-10
3	ES	Salpa thompsoni → Tintinnid	7.750E-05	4.010E-08
3	ES	Salpa thompsoni → Zooplankton	7.750E-05	1.680E-07
3	ES	Salpa thompsoni → Zooplankton	7.750E-05	1.680E-07
3	ES	Scolymastra joubini → Bacteria	8.800	2.810E-10
3	ES	Scolymastra joubini → Bacteria	8.800	2.810E-10
3	ES	Scolymastra joubini → Phytoplankton	8.800	1.370E-09
3	ES	Silicularia rosea → Tintinnid	1.650E-07	4.010E-08
3	ES	Silicularia rosea → Zooplankton	1.650E-07	1.680E-07
3	ES	Solmundella bitentaculata → Eukrohnia hamata	2.841E-02	2.120E-05
3	ES	Solmundella bitentaculata → Euphausiacea	2.841E-02	1.580E-05
3	ES	Solmundella bitentaculata → Limacina helicina	2.841E-02	9.390E-08
3	ES	Solmundella bitentaculata → Pteropoda	2.841E-02	5.540E-05
3	ES	Solmundella bitentaculata → Salpa thompsoni	2.841E-02	7.750E-05
3	ES	Sterechinus antarcticus → Foraminifera	7.107E-03	5.650E-10
3	ES	Sterechinus neumayeri → Foraminifera	2.760E-03	5.650E-10

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
3	ES	Stylocordyla borealis → Bacteria	7.978E-01	2.810E-10
3	ES	Stylocordyla borealis → Phytoplankton	7.978E-01	1.370E-09
3	ES	Synoicum adareanum → Bacteria	3.010E-03	2.810E-10
3	ES	Synoicum adareanum → Nanoplankton	3.010E-03	1.080E-11
3	ES	Systenopora contracta → Nanoplankton	1.122E-03	1.080E-11
3	ES	Taeniogyrus contortus → Phytoplankton	4.805E-03	1.370E-09
3	ES	Tetilla leptoderma → Bacteria	5.623E-01	2.810E-10
3	ES	Tetilla leptoderma → Phytoplankton	5.623E-01	1.370E-09
3	ES	Thysanoessa macrura → Copepoda	1.580E-05	1.810E-06
3	ES	Thysanoessa macrura → Flagellate	1.580E-05	2.540E-11
3	ES	Thysanoessa macrura → Foraminifera	1.580E-05	5.650E-10
3	ES	Thysanoessa macrura → Phytoplankton	1.580E-05	1.370E-09
3	ES	Thysanoessa macrura → Pteropoda	1.580E-05	5.540E-05
3	ES	Thysanoessa macrura → Tintinnid	1.580E-05	4.010E-08
3	ES	Trematomus bernacchii → Copepoda	2.426E-01	1.810E-06
3	ES	Trematomus bernacchii → Cyllopus lucasii	2.426E-01	2.640E-05
3	ES	Trematomus bernacchii → Echiurida	2.426E-01	1.180E-05
3	ES	Trematomus bernacchii → Epimeria robusta	2.426E-01	9.280E-05
3	ES	Trematomus bernacchii → Metridia gerlachei	2.426E-01	8.160E-07
3	ES	Trematomus bernacchii → Ostracods	2.426E-01	2.520E-07
3	ES	Trematomus bernacchii → Tanaidacea	2.426E-01	1.470E-04
3	ES	Trematomus bernacchii → Yoldiella eightsi	2.426E-01	5.900E-04
3	ES	Trematomus bernacchii → Zooplankton	2.426E-01	1.680E-07
3	ES	Trematomus eulepidotus → Copepoda	4.803E-01	1.810E-06
3	ES	Trematomus eulepidotus → Cyllopus lucasii	4.803E-01	2.640E-05
3	ES	Trematomus eulepidotus → Cyllopus lucasii	4.803E-01	2.640E-05
3	ES	Trematomus eulepidotus → Epimeria robusta	4.803E-01	9.280E-05
3	ES	Trematomus eulepidotus → Euchaeta antarctica	4.803E-01	1.980E-06
3	ES	Trematomus eulepidotus → Euphausia crystallorophias	4.803E-01	6.590E-05
3	ES	Trematomus eulepidotus → Euphausia superba	4.803E-01	1.960E-04
3	ES	Trematomus eulepidotus → Metridia gerlachei	4.803E-01	8.160E-07
3	ES	Trematomus eulepidotus → Oncea curvata	4.803E-01	9.350E-09
3	ES	Trematomus eulepidotus → Ostracods	4.803E-01	2.520E-07
3	ES	Trematomus eulepidotus → Zooplankton	4.803E-01	1.680E-07
3	ES	Trematomus hansoni → Ceratoserolis meridionalis	3.006E-01	3.980E-04
3	ES	Trematomus hansoni → Copepoda	3.006E-01	1.810E-06
3	ES	Trematomus hansoni → Cyllopus lucasii	3.006E-01	2.640E-05
3	ES	Trematomus hansoni → Euphausia crystallorophias	3.006E-01	6.590E-05
3	ES	Trematomus hansoni → Euphausia superba	3.006E-01	1.960E-04
3	ES	Trematomus hansoni → Metridia gerlachei	3.006E-01	8.160E-07
3	ES	Trematomus hansoni → Neobuccinum eatoni	3.006E-01	3.580E-03
3	ES	Trematomus hansoni → Pantopoda	3.006E-01	4.450E-04
3	ES	Trematomus hansoni → Pentanymphon antarcticum	3.006E-01	9.590E-07
3	ES	Trematomus hansoni → Trematomus eulepidotus	3.006E-01	4.803E-01
3	ES	Trematomus hansoni → Trematomus pennellii	3.006E-01	3.006E-01
3	ES	Trematomus hansoni → Zooplankton	3.006E-01	1.680E-07
3	ES	Trematomus lepidorhinus → Copepoda	1.485E-01	1.810E-06
3	ES	Trematomus lepidorhinus → Epimeria robusta	1.485E-01	9.280E-05
3	ES	Trematomus lepidorhinus → Eunoe spica	1.485E-01	9.540E-05
3	ES	Trematomus lepidorhinus → Euphausia crystallorophias	1.485E-01	6.590E-05

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
3	ES	Trematomus lepidorhinus → Euphausia superba	1.485E-01	1.960E-04
3	ES	Trematomus lepidorhinus → Laternula elliptica	1.485E-01	1.299E-02
3	ES	Trematomus lepidorhinus → Metridia gerlachei	1.485E-01	8.160E-07
3	ES	Trematomus lepidorhinus → Ostracods	1.485E-01	2.520E-07
3	ES	Trematomus loennbergii → Copepoda	2.454E-01	1.810E-06
3	ES	Trematomus loennbergii → Cumacea	2.454E-01	7.400E-06
3	ES	Trematomus loennbergii → Cyllopus lucasii	2.454E-01	2.640E-05
3	ES	Trematomus loennbergii → Eukrohnia hamata	2.454E-01	2.120E-05
3	ES	Trematomus loennbergii → Euphausia crystallorophias	2.454E-01	6.590E-05
3	ES	Trematomus loennbergii → Euphausia superba	2.454E-01	1.960E-04
3	ES	Trematomus loennbergii → Pteropoda	2.454E-01	5.540E-05
3	ES	Trematomus loennbergii → Salpa thompsoni	2.454E-01	7.750E-05
3	ES	Trematomus nicolai → Calanus acutus	6.625E-01	1.490E-06
3	ES	Trematomus nicolai → Copepoda	6.625E-01	1.810E-06
3	ES	Trematomus nicolai → Epimeria robusta	6.625E-01	9.280E-05
3	ES	Trematomus nicolai → Euphausia crystallorophias	6.625E-01	6.590E-05
3	ES	Trematomus nicolai → Euphausia superba	6.625E-01	1.960E-04
3	ES	Trematomus nicolai → Metridia gerlachei	6.625E-01	8.160E-07
3	ES	Trematomus nicolai → Tanaidacea	6.625E-01	1.470E-04
3	ES	Trematomus pennellii → Aega antarctica	3.006E-01	4.060E-05
3	ES	Trematomus pennellii → Ceratoserolis meridionalis	3.006E-01	3.980E-04
3	ES	Trematomus pennellii → Copepoda	3.006E-01	1.810E-06
3	ES	Trematomus pennellii → Cyllopus lucasii	3.006E-01	2.640E-05
3	ES	Trematomus pennellii → Epimeria robusta	3.006E-01	9.280E-05
3	ES	Trematomus pennellii → Euphausia crystallorophias	3.006E-01	6.590E-05
3	ES	Trematomus pennellii → Euphausia superba	3.006E-01	1.960E-04
3	ES	Trematomus pennellii → Glyptonotus antarcticus	3.006E-01	9.320E-04
3	ES	Trematomus pennellii → Gnathia calva	3.006E-01	3.160E-06
3	ES	Trematomus pennellii → Natatolana obtusata	3.006E-01	5.050E-06
3	ES	Trematomus pennellii → Ostracods	3.006E-01	2.520E-07
3	ES	Trematomus pennellii → Pentanymphon antarcticum	3.006E-01	9.590E-07
3	ES	Trematomus pennellii → Tanaidacea	3.006E-01	1.470E-04
3	ES	Trematomus scotti → Calanus acutus	9.548E-02	1.490E-06
3	ES	Trematomus scotti → Calanus propinquus	9.548E-02	1.550E-06
3	ES	Trematomus scotti → Copepoda	9.548E-02	1.810E-06
3	ES	Trematomus scotti → Cumacea	9.548E-02	7.400E-06
3	ES	Trematomus scotti → Cyllopus lucasii	9.548E-02	2.640E-05
3	ES	Trematomus scotti → Epimeria robusta	9.548E-02	9.280E-05
3	ES	Trematomus scotti → Euchaeta antarctica	9.548E-02	1.980E-06
3	ES	Trematomus scotti → Eunoe hartmanae	9.548E-02	1.349E-03
3	ES	Trematomus scotti → Eunoe spica	9.548E-02	9.540E-05
3	ES	Trematomus scotti → Euphausia crystallorophias	9.548E-02	6.590E-05
3	ES	Trematomus scotti → Euphausia superba	9.548E-02	1.960E-04
3	ES	Trematomus scotti → Gnathia calva	9.548E-02	3.160E-06
3	ES	Trematomus scotti → Metridia gerlachei	9.548E-02	8.160E-07
3	ES	Trematomus scotti → Natatolana obtusata	9.548E-02	5.050E-06
3	ES	Trematomus scotti → Ostracods	9.548E-02	2.520E-07
3	ES	Trematomus scotti → Pantopoda	9.548E-02	4.450E-04
3	ES	Trematomus scotti → Tanaidacea	9.548E-02	1.470E-04
3	ES	Trematomus scotti → Zooplankton	9.548E-02	1.680E-07

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
3	ES	Tritonia antarctica → Cephalodiscus sp.	4.530E-03	1.960E-04
3	ES	Tubularia ralphii → Copepoda	3.210E-06	1.810E-06
3	ES	Tubularia ralphii → Zooplankton	3.210E-06	1.680E-07
3	ES	Tursiops truncatus → Champsocephalus gunnari	1.110E+03	3.644
3	ES	Tursiops truncatus → Dissostichus mawsoni	1.110E+03	2.425E+01
3	ES	Tursiops truncatus → Euphausiacea	1.110E+03	1.580E-05
3	ES	Tursiops truncatus → Myctophidae	1.110E+03	1.967E-02
3	ES	Uristes gigas → Euphausiacea	4.060E-05	1.580E-05
3	ES	Vaunthompsonia indermis → Bacteria	7.400E-06	2.810E-10
3	ES	Vibillia antarctica → Zooplankton	9.390E-08	1.680E-07
3	ES	Vibillia stebbingi → Zooplankton	9.390E-08	1.680E-07
3	GM	Argiope bruennichi → Caelifera	4.230E-05	6.660E-05
3	GM	Argiope bruennichi → Chorthippus montanus	4.230E-05	6.160E-05
3	GM	Argiope bruennichi → Orthetrum cancellatum	4.230E-05	7.930E-05
3	GM	Argiope bruennichi → Somatochlora sp	4.230E-05	1.070E-04
3	GM	Argiope bruennichi → Sympetrum sanguineum	4.230E-05	5.060E-05
3	GM	Argiope bruennichi → Sympetrum sp	4.230E-05	8.300E-05
3	GM	Argiope bruennichi → Sympetrum striolatum	4.230E-05	1.750E-04
3	GM	Argiope bruennichi → Sympetrum vulgatum	4.230E-05	6.960E-05
3	GM	Argiope bruennichi → Tetragnatha extensa	4.230E-05	2.000E-06
3	GM	Argiope bruennichi → Tetrix sp	4.230E-05	5.800E-06
3	GM	Argiope bruennichi → Tetrix subulata	4.230E-05	4.600E-06
3	GM	Culex sp → Locustella naevia	2.500E-07	1.300E-02
3	GM	Dolichovespula sylvestris → Brachycera	2.310E-05	2.800E-07
3	GM	Dolichovespula sylvestris → Chrysops relictus	2.310E-05	6.050E-06
3	GM	Dolichovespula sylvestris → Culex sp	2.310E-05	2.500E-07
3	GM	Dolichovespula sylvestris → Haematopota sp	2.310E-05	9.300E-06
3	GM	Dolichovespula sylvestris → Herina parva	2.310E-05	4.950E-07
3	GM	Dolichovespula sylvestris → Ilione albiseta	2.310E-05	6.000E-06
3	GM	Dolichovespula sylvestris → Limonia sp	2.310E-05	1.000E-07
3	GM	Dolichovespula sylvestris → Muscidae copro	2.310E-05	4.500E-07
3	GM	Dolichovespula sylvestris → Muscidae flor	2.310E-05	4.500E-07
3	GM	Dolichovespula sylvestris → Psacadina zernyi	2.310E-05	2.300E-06
3	GM	Evarcha arcuata → Chartoscirta cincta	5.000E-06	1.590E-06
3	GM	Evarcha arcuata → Clubiona sp	5.000E-06	2.570E-07
3	GM	Evarcha arcuata → Clubiona subtilis	5.000E-06	2.270E-07
3	GM	Evarcha arcuata → Culex sp	5.000E-06	2.500E-07
3	GM	Evarcha arcuata → Evarcha sp	5.000E-06	1.100E-06
3	GM	Evarcha arcuata → Herina parva	5.000E-06	4.950E-07
3	GM	Evarcha arcuata → Muscidae copro	5.000E-06	4.500E-07
3	GM	Evarcha arcuata → Muscidae flor	5.000E-06	4.500E-07
3	GM	Evarcha arcuata → Ozyptila sp	5.000E-06	1.320E-06
3	GM	Evarcha sp → Cicadina	1.100E-06	7.930E-08
3	GM	Evarcha sp → Hebrus pusillus	1.100E-06	1.560E-06
3	GM	Evarcha sp → Hebrus ruficeps	1.100E-06	1.560E-06
3	GM	Evarcha sp → Thanatus sp	1.100E-06	1.000E-07
3	GM	Falco subbuteo → Chorthippus montanus	2.100E-01	6.160E-05
3	GM	Falco subbuteo → Orthetrum cancellatum	2.100E-01	7.930E-05
3	GM	Falco subbuteo → Somatochlora sp	2.100E-01	1.070E-04
3	GM	Falco subbuteo → Sympetrum sanguineum	2.100E-01	5.060E-05

doi:10.1038/nature11131

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
3	GM	Falco subbuteo → Sympetrum sp	2.100E-01	8.300E-05
3	GM	Falco subbuteo → Sympetrum striolatum	2.100E-01	1.750E-04
3	GM	Falco subbuteo → Sympetrum vulgatum	2.100E-01	6.960E-05
3	GM	Larinioides cornutus → Chrysops relictus	2.970E-05	6.050E-06
3	GM	Larinioides cornutus → Cloeon simile	2.970E-05	1.200E-06
3	GM	Larinioides cornutus → Dolichovespula sylvestris	2.970E-05	2.310E-05
3	GM	Larinioides cornutus → Haematopota sp	2.970E-05	9.300E-06
3	GM	Larinioides cornutus → Ilione albiseta	2.970E-05	6.000E-06
3	GM	Larinioides cornutus → Philaenus spumarius	2.970E-05	2.400E-06
3	GM	Larinioides cornutus → Psacadina zernyi	2.970E-05	2.300E-06
3	GM	Larinioides cornutus → Stalia boops	2.970E-05	2.500E-06
3	GM	Larinioides cornutus → Sympetrum sanguineum	2.970E-05	5.060E-05
3	GM	Larinioides cornutus → Sympetrum sp	2.970E-05	8.300E-05
3	GM	Larinioides cornutus → Sympetrum striolatum	2.970E-05	1.750E-04
3	GM	Larinioides cornutus → Sympetrum vulgatum	2.970E-05	6.960E-05
3	GM	Larinioides sp → Anthocomus coccineus	3.150E-06	3.180E-06
3	GM	Larinioides sp → Chartoscirta cincta	3.150E-06	1.590E-06
3	GM	Larinioides sp → Cloeon simile	3.150E-06	1.200E-06
3	GM	Larinioides sp → Culex sp	3.150E-06	2.500E-07
3	GM	Larinioides sp → Herina parva	3.150E-06	4.950E-07
3	GM	Larinioides sp → Limonia sp	3.150E-06	1.000E-07
3	GM	Larinioides sp → Muscidae copro	3.150E-06	4.500E-07
3	GM	Larinioides sp → Muscidae flor	3.150E-06	4.500E-07
3	GM	Larinioides sp → Philaenus spumarius	3.150E-06	2.400E-06
3	GM	Larinioides sp → Psacadina zernyi	3.150E-06	2.300E-06
3	GM	Larinioides sp → Stalia boops	3.150E-06	2.500E-06
3	GM	Mangora acalypha (Walckenaer 1802) → Hebrus pusillus	1.000E-07	1.560E-06
3	GM	Mangora acalypha (Walckenaer 1802) → Hebrus ruficeps	1.000E-07	1.560E-06
3	GM	Mangora acalypha (Walckenaer 1802) → Ootetrastichus sp	1.000E-07	8.000E-08
3	GM	Marpissa radiata → Anthocomus coccineus	4.180E-06	3.180E-06
3	GM	Marpissa radiata → Evarcha arcuata	4.180E-06	5.000E-06
3	GM	Marpissa radiata → Herina parva	4.180E-06	4.950E-07
3	GM	Marpissa radiata → Limonia sp	4.180E-06	1.000E-07
3	GM	Marpissa radiata → Micrommata virescens	4.180E-06	1.340E-05
3	GM	Marpissa radiata → Muscidae copro	4.180E-06	4.500E-07
3	GM	Marpissa radiata → Muscidae flor	4.180E-06	4.500E-07
3	GM	Marpissa radiata → Philaenus spumarius	4.180E-06	2.400E-06
3	GM	Marpissa radiata → Tibellus sp	4.180E-06	4.600E-06
3	GM	Orthetrum cancellatum → Anthocomus coccineus	7.930E-05	3.180E-06
3	GM	Orthetrum cancellatum → Chrysops relictus	7.930E-05	6.050E-06
3	GM	Orthetrum cancellatum → Cloeon simile	7.930E-05	1.200E-06
3	GM	Orthetrum cancellatum → Culex sp	7.930E-05	2.500E-07
3	GM	Orthetrum cancellatum → Dolichovespula sylvestris	7.930E-05	2.310E-05
3	GM	Orthetrum cancellatum → Haematopota sp	7.930E-05	9.300E-06
3	GM	Orthetrum cancellatum → Herina parva	7.930E-05	4.950E-07
3	GM	Orthetrum cancellatum → Ilione albiseta	7.930E-05	6.000E-06
3	GM	Orthetrum cancellatum → Limonia sp	7.930E-05	1.000E-07
3	GM	Orthetrum cancellatum → Muscidae copro	7.930E-05	4.500E-07
3	GM	Orthetrum cancellatum → Muscidae flor	7.930E-05	4.500E-07
3	GM	Orthetrum cancellatum → Ootetrastichus sp	7.930E-05	8.000E-08

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
3	GM	Orthetrum cancellatum → Psacadina zernyi	7.930E-05	2.300E-06
3	GM	Somatochlora sp → Anthocomus coccineus	1.070E-04	3.180E-06
3	GM	Somatochlora sp → Chrysops relictus	1.070E-04	6.050E-06
3	GM	Somatochlora sp → Cloeon simile	1.070E-04	1.200E-06
3	GM	Somatochlora sp → Culex sp	1.070E-04	2.500E-07
3	GM	Somatochlora sp → Dolichovespula sylvestris	1.070E-04	2.310E-05
3	GM	Somatochlora sp → Haematopota sp	1.070E-04	9.300E-06
3	GM	Somatochlora sp → Herina parva	1.070E-04	4.950E-07
3	GM	Somatochlora sp → Ilione albiseta	1.070E-04	6.000E-06
3	GM	Somatochlora sp → Limonia sp	1.070E-04	1.000E-07
3	GM	Somatochlora sp → Muscidae copro	1.070E-04	4.500E-07
3	GM	Somatochlora sp → Muscidae flor	1.070E-04	4.500E-07
3	GM	Somatochlora sp → Ootetrastichus sp	1.070E-04	8.000E-08
3	GM	Somatochlora sp → Psacadina zernyi	1.070E-04	2.300E-06
3	GM	Sympetrum sanguineum → Anthocomus coccineus	5.060E-05	3.180E-06
3	GM	Sympetrum sanguineum → Chrysops relictus	5.060E-05	6.050E-06
3	GM	Sympetrum sanguineum → Cloeon simile	5.060E-05	1.200E-06
3	GM	Sympetrum sanguineum → Culex sp	5.060E-05	2.500E-07
3	GM	Sympetrum sanguineum → Dolichovespula sylvestris	5.060E-05	2.310E-05
3	GM	Sympetrum sanguineum → Haematopota sp	5.060E-05	9.300E-06
3	GM	Sympetrum sanguineum → Herina parva	5.060E-05	4.950E-07
3	GM	Sympetrum sanguineum → Ilione albiseta	5.060E-05	6.000E-06
3	GM	Sympetrum sanguineum → Limonia sp	5.060E-05	1.000E-07
3	GM	Sympetrum sanguineum → Muscidae copro	5.060E-05	4.500E-07
3	GM	Sympetrum sanguineum → Muscidae flor	5.060E-05	4.500E-07
3	GM	Sympetrum sanguineum → Ootetrastichus sp	5.060E-05	8.000E-08
3	GM	Sympetrum sanguineum → Psacadina zernyi	5.060E-05	2.300E-06
3	GM	Sympetrum sp → Anthocomus coccineus	8.300E-05	3.180E-06
3	GM	Sympetrum sp → Chrysops relictus	8.300E-05	6.050E-06
3	GM	Sympetrum sp → Cloeon simile	8.300E-05	1.200E-06
3	GM	Sympetrum sp → Culex sp	8.300E-05	2.500E-07
3	GM	Sympetrum sp → Dolichovespula sylvestris	8.300E-05	2.310E-05
3	GM	Sympetrum sp → Haematopota sp	8.300E-05	9.300E-06
3	GM	Sympetrum sp → Herina parva	8.300E-05	4.950E-07
3	GM	Sympetrum sp → Ilione albiseta	8.300E-05	6.000E-06
3	GM	Sympetrum sp → Limonia sp	8.300E-05	1.000E-07
3	GM	Sympetrum sp → Muscidae copro	8.300E-05	4.500E-07
3	GM	Sympetrum sp → Muscidae flor	8.300E-05	4.500E-07
3	GM	Sympetrum sp → Ootetrastichus sp	8.300E-05	8.000E-08
3	GM	Sympetrum sp → Psacadina zernyi	8.300E-05	2.300E-06
3	GM	Sympetrum striolatum → Anthocomus coccineus	1.750E-04	3.180E-06
3	GM	Sympetrum striolatum → Chrysops relictus	1.750E-04	6.050E-06
3	GM	Sympetrum striolatum → Cloeon simile	1.750E-04	1.200E-06
3	GM	Sympetrum striolatum → Culex sp	1.750E-04	2.500E-07
3	GM	Sympetrum striolatum → Dolichovespula sylvestris	1.750E-04	2.310E-05
3	GM	Sympetrum striolatum → Haematopota sp	1.750E-04	9.300E-06
3	GM	Sympetrum striolatum → Herina parva	1.750E-04	4.950E-07
3	GM	Sympetrum striolatum → Ilione albiseta	1.750E-04	6.000E-06
3	GM	Sympetrum striolatum → Limonia sp	1.750E-04	1.000E-07
3	GM	Sympetrum striolatum → Muscidae copro	1.750E-04	4.500E-07

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
3	GM	Sympetrum striolatum → Muscidae flor	1.750E-04	4.500E-07
3	GM	Sympetrum striolatum → Ootetrastichus sp	1.750E-04	8.000E-08
3	GM	Sympetrum striolatum → Psacadina zernyi	1.750E-04	2.300E-06
3	GM	Sympetrum vulgatum → Anthocomus coccineus	6.960E-05	3.180E-06
3	GM	Sympetrum vulgatum → Chrysops relictus	6.960E-05	6.050E-06
3	GM	Sympetrum vulgatum → Cloeon simile	6.960E-05	1.200E-06
3	GM	Sympetrum vulgatum → Culex sp	6.960E-05	2.500E-07
3	GM	Sympetrum vulgatum → Dolichovespula sylvestris	6.960E-05	2.310E-05
3	GM	Sympetrum vulgatum → Haematopota sp	6.960E-05	9.300E-06
3	GM	Sympetrum vulgatum → Herina parva	6.960E-05	4.950E-07
3	GM	Sympetrum vulgatum → Ilione albiseta	6.960E-05	6.000E-06
3	GM	Sympetrum vulgatum → Limonia sp	6.960E-05	1.000E-07
3	GM	Sympetrum vulgatum → Muscidae copro	6.960E-05	4.500E-07
3	GM	Sympetrum vulgatum → Muscidae flor	6.960E-05	4.500E-07
3	GM	Sympetrum vulgatum → Ootetrastichus sp	6.960E-05	8.000E-08
3	GM	Sympetrum vulgatum → Psacadina zernyi	6.960E-05	2.300E-06
3	GM	Tetragnatha extensa → Anthocomus coccineus	2.000E-06	3.180E-06
3	GM	Tetragnatha extensa → Cloeon simile	2.000E-06	1.200E-06
3	GM	Tetragnatha extensa → Herina parva	2.000E-06	4.950E-07
3	GM	Tetragnatha extensa → Limonia sp	2.000E-06	1.000E-07
3	GM	Tetragnatha extensa → Muscidae copro	2.000E-06	4.500E-07
3	GM	Tetragnatha extensa → Muscidae flor	2.000E-06	4.500E-07
3	GM	Tetragnatha extensa → Philaenus spumarius	2.000E-06	2.400E-06
3	GM	Tetragnatha extensa → Psacadina zernyi	2.000E-06	2.300E-06
3	GM	Tetragnatha extensa → Stalia boops	2.000E-06	2.500E-06
3	SB	Araneus diadematus → Arytaina genistae	8.160E-05	1.340E-06
3	SB	Araneus diadematus → Arytaina spartii	8.160E-05	1.340E-06
3	SB	Araneus diadematus → Asciodema obsoletum	8.160E-05	4.590E-06
3	SB	Araneus diadematus → Orthotylus adenocarpi	8.160E-05	5.220E-06
3	SB	Araneus diadematus → Orthotylus concolor	8.160E-05	5.220E-06
3	SB	Araneus diadematus → Orthotylus virescens	8.160E-05	5.220E-06
3	SB	Araneus sp. → Leucoptera spartifoliella	8.240E-06	1.020E-06
3	SB	Linyphia triangularis → Arytaina genistae	8.240E-06	1.340E-06
3	SB	Linyphia triangularis → Arytaina spartii	8.240E-06	1.340E-06
3	SB	Linyphia triangularis → Asciodema obsoletum	8.240E-06	4.590E-06
3	SB	Linyphia triangularis → Heterocordylus tibialis	8.240E-06	8.020E-06
3	SB	Linyphia triangularis → Leucoptera spartifoliella	8.240E-06	1.020E-06
3	SB	Linyphia triangularis → Orthotylus adenocarpi	8.240E-06	5.220E-06
3	SB	Linyphia triangularis → Orthotylus concolor	8.240E-06	5.220E-06
3	SB	Linyphia triangularis → Orthotylus virescens	8.240E-06	5.220E-06
3	SP	Acanthocyclops vernalis → Chydorus latus	6.410E-08	5.850E-09
3	SP	Acanthocyclops vernalis → Corynoneura scutellata	6.410E-08	8.590E-07
3	SP	Acanthocyclops vernalis → Enchytraidae sp.	6.410E-08	6.000E-08
3	SP	Acanthocyclops vernalis → Other Chironomidae spp.	6.410E-08	3.820E-06
3	SP	Acanthocyclops vernalis → Tanytarsus bruchonidae	6.410E-08	1.300E-06
3	SP	Agabus bipustulatus → Acanthocyclops vernalis	6.120E-05	6.410E-08
3	SP	Agabus bipustulatus → Scapaloberis mucronata	6.120E-05	3.210E-08
3	SP	Agabus sturmii → Acanthocyclops vernalis	2.820E-05	6.410E-08
3	SP	Agabus sturmii → Scapaloberis mucronata	2.820E-05	3.210E-08
3	SP	Argyroneta aquatica → Acanthocyclops vernalis	2.720E-05	6.410E-08

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
3	SP	Argyroneta aquatica → Chydorus latus	2.720E-05	5.850E-09
3	SP	Argyroneta aquatica → Scapaloberis mucronata	2.720E-05	3.210E-08
3	SP	Enallagma cyathigerum → Acanthocyclops vernalis	7.280E-06	6.410E-08
3	SP	Enallagma cyathigerum → Chydorus latus	7.280E-06	5.850E-09
3	SP	Enallagma cyathigerum → Scapaloberis mucronata	7.280E-06	3.210E-08
3	SP	Holocentropus picicornis → Chydorus latus	1.060E-05	5.850E-09
3	SP	Holocentropus picicornis → Scapaloberis mucronata	1.060E-05	3.210E-08
3	SP	Hydroporus erythrocephalus → Chydorus latus	4.740E-06	5.850E-09
3	SP	Hydroporus erythrocephalus → Scapaloberis mucronata	4.740E-06	3.210E-08
3	SP	Illybius fuliginosus → Acanthocyclops vernalis	6.500E-05	6.410E-08
3	SP	Illybius fuliginosus → Scapaloberis mucronata	6.500E-05	3.210E-08
3	SP	Lestes sponsa → Acanthocyclops vernalis	7.810E-05	6.410E-08
3	SP	Lestes sponsa → Chydorus latus	7.810E-05	5.850E-09
3	SP	Lestes sponsa → Scapaloberis mucronata	7.810E-05	3.210E-08
3	SP	Notonecta glauca → Acanthocyclops vernalis	1.440E-04	6.410E-08
3	SP	Notonecta glauca → Agabus bipustulatus	1.440E-04	6.120E-05
3	SP	Notonecta glauca → Agabus sturmii	1.440E-04	2.820E-05
3	SP	Notonecta glauca → Arctocorisa germari	1.440E-04	2.180E-05
3	SP	Notonecta glauca → Callicorixa praeusta	1.440E-04	1.990E-05
3	SP	Notonecta glauca → Chironomus dorsalis	1.440E-04	1.470E-05
3	SP	Notonecta glauca → Chydorus latus	1.440E-04	5.850E-09
3	SP	Notonecta glauca → Corixa dentipes	1.440E-04	9.670E-05
3	SP	Notonecta glauca → Corixa punctata	1.440E-04	9.280E-05
3	SP	Notonecta glauca → Corynoneura scutellata	1.440E-04	8.590E-07
3	SP	Notonecta glauca → Enallagma cyathigerum	1.440E-04	7.280E-06
3	SP	Notonecta glauca → Glyptotendipes pallens	1.440E-04	7.730E-06
3	SP	Notonecta glauca → Hesperocorixa linnei	1.440E-04	2.060E-05
3	SP	Notonecta glauca → Hesperocorixa sahlbergi	1.440E-04	2.140E-05
3	SP	Notonecta glauca → Holocentropus picicornis	1.440E-04	1.060E-05
3	SP	Notonecta glauca → Hydroporus erythrocephalus	1.440E-04	4.740E-06
3	SP	Notonecta glauca → Illybius fuliginosus	1.440E-04	6.500E-05
3	SP	Notonecta glauca → Lestes sponsa	1.440E-04	7.810E-05
3	SP	Notonecta glauca → Limnephilus marmoratus	1.440E-04	8.080E-05
3	SP	Notonecta glauca → Lumbriculus variegatus	1.440E-04	8.000E-06
3	SP	Notonecta glauca → Other Chironomidae spp.	1.440E-04	3.820E-06
3	SP	Notonecta glauca → Procladius sagittalis	1.440E-04	4.410E-06
3	SP	Notonecta glauca → Scapaloberis mucronata	1.440E-04	3.210E-08
3	SP	Notonecta glauca → Sialis lutaria	1.440E-04	5.250E-05
3	SP	Notonecta glauca → Sigara semistriata	1.440E-04	1.220E-05
3	SP	Notonecta glauca → Tanytarsus bruchonidae	1.440E-04	1.300E-06
3	SP	Procladius sagittalis → Acanthocyclops vernalis	4.410E-06	6.410E-08
3	SP	Procladius sagittalis → Chydorus latus	4.410E-06	5.850E-09
3	SP	Procladius sagittalis → Scapaloberis mucronata	4.410E-06	3.210E-08
3	SP	Sympetrum scoticum → Acanthocyclops vernalis	8.430E-05	6.410E-08
3	SP	Sympetrum scoticum → Chydorus latus	8.430E-05	5.850E-09
3	SP	Sympetrum scoticum → Notonecta glauca	8.430E-05	1.440E-04
3	SP	Sympetrum scoticum → Scapaloberis mucronata	8.430E-05	3.210E-08
3	TL	Ascomorpha eucadis → Chromulina sp.	2.700E-10	3.030E-14
3	TL	Ascomorpha eucadis → Chroococcus dispersus	2.700E-10	2.390E-13
3	TL	Ascomorpha eucadis → Chroococcus limneticus	2.700E-10	1.310E-12

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
3	TL	Ascomorpha eucadis → Cryptomonas sp. 1	2.700E-10	2.030E-13
3	TL	Ascomorpha eucadis → Selenastrum minutum	2.700E-10	2.720E-13
3	TL	Ascomorpha eucadis → Trachelomonas sp.	2.700E-10	1.750E-13
3	TL	Ascomorpha eucadis → Unclassified flagellates	2.700E-10	3.460E-13
3	TL	Ascomorpha eucadis → Unclassified microflagellates	2.700E-10	1.020E-13
3	TL	Bosmina longirostris → Chromulina sp.	1.550E-09	3.030E-14
3	TL	Bosmina longirostris → Chroococcus dispersus	1.550E-09	2.390E-13
3	TL	Bosmina longirostris → Cryptomonas sp. 1	1.550E-09	2.030E-13
3	TL	Bosmina longirostris → Cryptomonas sp. 2	1.550E-09	1.510E-12
3	TL	Bosmina longirostris → Dictyosphaerium pulchellum	1.550E-09	4.630E-13
3	TL	Bosmina longirostris → Dinobryon sociale	1.550E-09	6.410E-13
3	TL	Bosmina longirostris → Glenodinium quadridens	1.550E-09	7.540E-12
3	TL	Bosmina longirostris → Peridinium pulsillum	1.550E-09	1.580E-12
3	TL	Bosmina longirostris → Selenastrum minutum	1.550E-09	2.720E-13
3	TL	Bosmina longirostris → Trachelomonas sp.	1.550E-09	1.750E-13
3	TL	Bosmina longirostris → Unclassified flagellates	1.550E-09	3.460E-13
3	TL	Chaoborys punctipennis → Ascomorpha eucadis	2.580E-07	2.700E-10
3	TL	Chaoborys punctipennis → Bosmina longirostris	2.580E-07	1.550E-09
3	TL	Chaoborys punctipennis → Conochiloides dossuarius	2.580E-07	1.600E-10
3	TL	Chaoborys punctipennis → Conochilus (solitary)	2.580E-07	3.500E-11
3	TL	Chaoborys punctipennis → Cyclops varians rubellus	2.580E-07	2.240E-08
3	TL	Chaoborys punctipennis → Daphnia pulex	2.580E-07	5.150E-08
3	TL	Chaoborys punctipennis → Daphnia rosea	2.580E-07	1.360E-08
3	TL	Chaoborys punctipennis → Diaphanosoma leuchtenbergianum	2.580E-07	2.240E-09
3	TL	Chaoborys punctipennis → Diaptomus oregonensis	2.580E-07	1.440E-08
3	TL	Chaoborys punctipennis → Filinia longispina	2.580E-07	1.800E-10
3	TL	Chaoborys punctipennis → Gastropus hyptopus	2.580E-07	1.350E-10
3	TL	Chaoborys punctipennis → Gastropus stylifer	2.580E-07	1.160E-10
3	TL	Chaoborys punctipennis → Glenodinium quadridens	2.580E-07	7.540E-12
3	TL	Chaoborys punctipennis → Kelicottia bostoniensis	2.580E-07	2.000E-11
3	TL	Chaoborys punctipennis → Kelicottia longispina	2.580E-07	4.500E-11
3	TL	Chaoborys punctipennis → Kellicottia sp.	2.580E-07	2.000E-11
3	TL	Chaoborys punctipennis → Keratella cochlearis	2.580E-07	1.000E-11
3	TL	Chaoborys punctipennis → Keratella testudo	2.580E-07	1.250E-11
3	TL	Chaoborys punctipennis → Leptodiaptomus siciloides	2.580E-07	8.800E-09
3	TL	Chaoborys punctipennis → Orthocyclops modestus	2.580E-07	2.740E-08
3	TL	Chaoborys punctipennis → Ploesoma sp.	2.580E-07	1.050E-10
3	TL	Chaoborys punctipennis → Polyarthra vulgaris	2.580E-07	3.630E-10
3	TL	Chaoborys punctipennis → Synchaeta sp.	2.580E-07	6.600E-10
3	TL	Chaoborys punctipennis → Trichocerca cylindrica	2.580E-07	4.850E-10
3	TL	Chaoborys punctipennis → Trichocerca multicorinis	2.580E-07	1.600E-10
3	TL	Chaoborys punctipennis → Tropocyclops prasinus	2.580E-07	7.870E-09
3	TL	Conochiloides dossuarius → Chromulina sp.	1.600E-10	3.030E-14
3	TL	Conochiloides dossuarius → Chroococcus dispersus	1.600E-10	2.390E-13
3	TL	Conochiloides dossuarius → Chroococcus limneticus	1.600E-10	1.310E-12
3	TL	Conochiloides dossuarius → Closteriopsis longissimus	1.600E-10	2.180E-13
3	TL	Conochiloides dossuarius → Cryptomonas sp. 1	1.600E-10	2.030E-13
3	TL	Conochiloides dossuarius → Selenastrum minutum	1.600E-10	2.720E-13
3	TL	Conochiloides dossuarius → Trachelomonas sp.	1.600E-10	1.750E-13
3	TL	Conochiloides dossuarius → Unclassified flagellates	1.600E-10	3.460E-13

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
3	TL	Conochiloides dossuarius → Unclassified microflagellates	1.600E-10	1.020E-13
3	TL	Conochilus (colonial) → Chromulina sp.	1.460E-08	3.030E-14
3	TL	Conochilus (colonial) → Chroococcus dispersus	1.460E-08	2.390E-13
3	TL	Conochilus (colonial) → Chroococcus limneticus	1.460E-08	1.310E-12
3	TL	Conochilus (colonial) → Closteriopsis longissimus	1.460E-08	2.180E-13
3	TL	Conochilus (colonial) → Cryptomonas sp. 1	1.460E-08	2.030E-13
3	TL	Conochilus (colonial) → Selenastrum minutum	1.460E-08	2.720E-13
3	TL	Conochilus (colonial) → Unclassified microflagellates	1.460E-08	1.020E-13
3	TL	Conochilus (solitary) → Chromulina sp.	3.500E-11	3.030E-14
3	TL	Conochilus (solitary) → Chroococcus dispersus	3.500E-11	2.390E-13
3	TL	Conochilus (solitary) → Closteriopsis longissimus	3.500E-11	2.180E-13
3	TL	Conochilus (solitary) → Cryptomonas sp. 1	3.500E-11	2.030E-13
3	TL	Conochilus (solitary) → Selenastrum minutum	3.500E-11	2.720E-13
3	TL	Conochilus (solitary) → Trachelomonas sp.	3.500E-11	1.750E-13
3	TL	Conochilus (solitary) → Unclassified flagellates	3.500E-11	3.460E-13
3	TL	Cyclops varians rubellus → Ascomorpha eucadis	2.240E-08	2.700E-10
3	TL	Cyclops varians rubellus → Conochiloides dossuarius	2.240E-08	1.600E-10
3	TL	Cyclops varians rubellus → Conochilus (solitary)	2.240E-08	3.500E-11
3	TL	Cyclops varians rubellus → Diaptomus oregonensis	2.240E-08	1.440E-08
3	TL	Cyclops varians rubellus → Filinia longispina	2.240E-08	1.800E-10
3	TL	Cyclops varians rubellus → Gastropus hyptopus	2.240E-08	1.350E-10
3	TL	Cyclops varians rubellus → Gastropus stylifer	2.240E-08	1.160E-10
3	TL	Cyclops varians rubellus → Kelicottia bostoniensis	2.240E-08	2.000E-11
3	TL	Cyclops varians rubellus → Kelicottia longispina	2.240E-08	4.500E-11
3	TL	Cyclops varians rubellus → Kellicottia sp.	2.240E-08	2.000E-11
3	TL	Cyclops varians rubellus → Keratella cochlearis	2.240E-08	1.000E-11
3	TL	Cyclops varians rubellus → Keratella testudo	2.240E-08	1.250E-11
3	TL	Cyclops varians rubellus → Leptodiaptomus siciloides	2.240E-08	8.800E-09
3	TL	Cyclops varians rubellus → Ploesoma sp.	2.240E-08	1.050E-10
3	TL	Cyclops varians rubellus → Polyarthra vulgaris	2.240E-08	3.630E-10
3	TL	Cyclops varians rubellus → Synchaeta sp.	2.240E-08	6.600E-10
3	TL	Cyclops varians rubellus → Trichocerca cylindrica	2.240E-08	4.850E-10
3	TL	Cyclops varians rubellus → Trichocerca multicorinis	2.240E-08	1.600E-10
3	TL	Cyclops varians rubellus → Tropocyclops prasinus	2.240E-08	7.870E-09
3	TL	Daphnia pulex → Arthrodesmus sp.	5.150E-08	1.520E-12
3	TL	Daphnia pulex → Ascomorpha eucadis	5.150E-08	2.700E-10
3	TL	Daphnia pulex → Chromulina sp.	5.150E-08	3.030E-14
3	TL	Daphnia pulex → Chroococcus dispersus	5.150E-08	2.390E-13
3	TL	Daphnia pulex → Chroococcus limneticus	5.150E-08	1.310E-12
3	TL	Daphnia pulex → Closteriopsis longissimus	5.150E-08	2.180E-13
3	TL	Daphnia pulex → Cosmarium sp.	5.150E-08	3.710E-12
3	TL	Daphnia pulex → Cryptomonas sp. 1	5.150E-08	2.030E-13
3	TL	Daphnia pulex → Cryptomonas sp. 2	5.150E-08	1.510E-12
3	TL	Daphnia pulex → Cryptomonas sp. 3	5.150E-08	6.720E-13
3	TL	Daphnia pulex → Cryptomonas sp. 4	5.150E-08	1.640E-12
3	TL	Daphnia pulex → Dactylococcopsis fascicularis	5.150E-08	1.320E-13
3	TL	Daphnia pulex → Dictyosphaerium pulchellum	5.150E-08	4.630E-13
3	TL	Daphnia pulex → Dinobryon bavaricum	5.150E-08	3.870E-12
3	TL	Daphnia pulex → Dinobryon cylindricum	5.150E-08	2.150E-12
3	TL	Daphnia pulex → Dinobryon sertularia	5.150E-08	9.250E-12

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
3	TL	Daphnia pulex → Dinobryon sociale	5.150E-08	6.410E-13
3	TL	Daphnia pulex → Glenodinium pulvisculus	5.150E-08	5.200E-12
3	TL	Daphnia pulex → Glenodinium quadridens	5.150E-08	7.540E-12
3	TL	Daphnia pulex → Gloeocystis sp.	5.150E-08	9.460E-11
3	TL	Daphnia pulex → Keratella cochlearis	5.150E-08	1.000E-11
3	TL	Daphnia pulex → Mallomonas sp. 1	5.150E-08	1.030E-12
3	TL	Daphnia pulex → Mallomonas sp. 2	5.150E-08	1.410E-12
3	TL	Daphnia pulex → Microcystis aeruginosa	5.150E-08	1.620E-11
3	TL	Daphnia pulex → Nostoc sp.	5.150E-08	7.970E-13
3	TL	Daphnia pulex → Oocystis sp. 1	5.150E-08	3.860E-12
3	TL	Daphnia pulex → Oocystis sp. 2	5.150E-08	6.320E-12
3	TL	Daphnia pulex → Oscillatoria sp.	5.150E-08	1.610E-12
3	TL	Daphnia pulex → Peridinium cinctum	5.150E-08	4.060E-11
3	TL	Daphnia pulex → Peridinium limbatum	5.150E-08	6.460E-11
3	TL	Daphnia pulex → Peridinium pulsillum	5.150E-08	1.580E-12
3	TL	Daphnia pulex → Peridinium wisconsinense	5.150E-08	3.560E-11
3	TL	Daphnia pulex → Quadrigula lacustris	5.150E-08	7.130E-12
3	TL	Daphnia pulex → Quadrigula sp. 2	5.150E-08	9.480E-13
3	TL	Daphnia pulex → Schroederia setigera	5.150E-08	6.370E-13
3	TL	Daphnia pulex → Selenastrum minutum	5.150E-08	2.720E-13
3	TL	Daphnia pulex → Sphaerocystis schroeteri	5.150E-08	1.080E-11
3	TL	Daphnia pulex → Synchaeta sp.	5.150E-08	6.600E-10
3	TL	Daphnia pulex → Synedra sp.	5.150E-08	4.610E-11
3	TL	Daphnia pulex → Trachelomonas sp.	5.150E-08	1.750E-13
3	TL	Daphnia pulex → Unclassified flagellates	5.150E-08	3.460E-13
3	TL	Daphnia pulex → Unclassified microflagellates	5.150E-08	1.020E-13
3	TL	Daphnia rosea → Ankyra judayi	1.360E-08	1.530E-13
3	TL	Daphnia rosea → Ascomorpha eucadis	1.360E-08	2.700E-10
3	TL	Daphnia rosea → Chromulina sp.	1.360E-08	3.030E-14
3	TL	Daphnia rosea → Chroococcus dispersus	1.360E-08	2.390E-13
3	TL	Daphnia rosea → Chroococcus limneticus	1.360E-08	1.310E-12
3	TL	Daphnia rosea → Cosmarium sp.	1.360E-08	3.710E-12
3	TL	Daphnia rosea → Cryptomonas sp. 1	1.360E-08	2.030E-13
3	TL	Daphnia rosea → Cryptomonas sp. 3	1.360E-08	6.720E-13
3	TL	Daphnia rosea → Cryptomonas sp. 4	1.360E-08	1.640E-12
3	TL	Daphnia rosea → Dactylococcopsis fascicularis	1.360E-08	1.320E-13
3	TL	Daphnia rosea → Dictyosphaerium pulchellum	1.360E-08	4.630E-13
3	TL	Daphnia rosea → Dinobryon sertularia	1.360E-08	9.250E-12
3	TL	Daphnia rosea → Glenodinium pulvisculus	1.360E-08	5.200E-12
3	TL	Daphnia rosea → Keratella cochlearis	1.360E-08	1.000E-11
3	TL	Daphnia rosea → Oocystis sp. 1	1.360E-08	3.860E-12
3	TL	Daphnia rosea → Oocystis sp. 2	1.360E-08	6.320E-12
3	TL	Daphnia rosea → Oscillatoria sp.	1.360E-08	1.610E-12
3	TL	Daphnia rosea → Peridinium pulsillum	1.360E-08	1.580E-12
3	TL	Daphnia rosea → Schroederia setigera	1.360E-08	6.370E-13
3	TL	Daphnia rosea → Selenastrum minutum	1.360E-08	2.720E-13
3	TL	Daphnia rosea → Sphaerocystis schroeteri	1.360E-08	1.080E-11
3	TL	Daphnia rosea → Synchaeta sp.	1.360E-08	6.600E-10
3	TL	Daphnia rosea → Unclassified microflagellates	1.360E-08	1.020E-13
3	TL	Diaphanosoma leuchtenbergianum → Chromulina sp.	2.240E-09	3.030E-14

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
3	TL	Diaphanosoma leuchtenbergianum → Chroococcus dispersus	2.240E-09	2.390E-13
3	TL	Diaphanosoma leuchtenbergianum → Cryptomonas sp. 1	2.240E-09	2.030E-13
3	TL	Diaphanosoma leuchtenbergianum → Cryptomonas sp. 2	2.240E-09	1.510E-12
3	TL	Diaphanosoma leuchtenbergianum → Dactylococcopsis fascicularis	2.240E-09	1.320E-13
3	TL	Diaphanosoma leuchtenbergianum → Dictyosphaerium pulchellum	2.240E-09	4.630E-13
3	TL	Diaphanosoma leuchtenbergianum → Dinobryon cylindricum	2.240E-09	2.150E-12
3	TL	Diaphanosoma leuchtenbergianum → Dinobryon sociale	2.240E-09	6.410E-13
3	TL	Diaphanosoma leuchtenbergianum → Glenodinium quadridens	2.240E-09	7.540E-12
3	TL	Diaphanosoma leuchtenbergianum → Nostoc sp.	2.240E-09	7.970E-13
3	TL	Diaphanosoma leuchtenbergianum → Peridinium pulsillum	2.240E-09	1.580E-12
3	TL	Diaphanosoma leuchtenbergianum → Selenastrum minutum	2.240E-09	2.720E-13
3	TL	Diaphanosoma leuchtenbergianum → Trachelomonas sp.	2.240E-09	1.750E-13
3	TL	Diaphanosoma leuchtenbergianum → Unclassified flagellates	2.240E-09	3.460E-13
3	TL	Diaptomus oregonensis → Chromulina sp.	1.440E-08	3.030E-14
3	TL	Diaptomus oregonensis → Chroococcus dispersus	1.440E-08	2.390E-13
3	TL	Diaptomus oregonensis → Chroococcus limneticus	1.440E-08	1.310E-12
3	TL	Diaptomus oregonensis → Cosmarium sp.	1.440E-08	3.710E-12
3	TL	Diaptomus oregonensis → Cryptomonas sp. 1	1.440E-08	2.030E-13
3	TL	Diaptomus oregonensis → Cryptomonas sp. 3	1.440E-08	6.720E-13
3	TL	Diaptomus oregonensis → Cryptomonas sp. 4	1.440E-08	1.640E-12
3	TL	Diaptomus oregonensis → Dactylococcopsis fascicularis	1.440E-08	1.320E-13
3	TL	Diaptomus oregonensis → Dictyosphaerium pulchellum	1.440E-08	4.630E-13
3	TL	Diaptomus oregonensis → Dinobryon sertularia	1.440E-08	9.250E-12
3	TL	Diaptomus oregonensis → Glenodinium pulvisculus	1.440E-08	5.200E-12
3	TL	Diaptomus oregonensis → Oocystis sp. 1	1.440E-08	3.860E-12
3	TL	Diaptomus oregonensis → Oocystis sp. 2	1.440E-08	6.320E-12
3	TL	Diaptomus oregonensis → Peridinium pulsillum	1.440E-08	1.580E-12
3	TL	Diaptomus oregonensis → Schroederia setigera	1.440E-08	6.370E-13
3	TL	Diaptomus oregonensis → Selenastrum minutum	1.440E-08	2.720E-13
3	TL	Diaptomus oregonensis → Sphaerocystis schroeteri	1.440E-08	1.080E-11
3	TL	Diaptomus oregonensis → Unclassified microflagellates	1.440E-08	1.020E-13
3	TL	Filinia longispina → Chromulina sp.	1.800E-10	3.030E-14
3	TL	Filinia longispina → Chroococcus dispersus	1.800E-10	2.390E-13
3	TL	Filinia longispina → Cryptomonas sp. 1	1.800E-10	2.030E-13
3	TL	Filinia longispina → Selenastrum minutum	1.800E-10	2.720E-13
3	TL	Filinia longispina → Trachelomonas sp.	1.800E-10	1.750E-13
3	TL	Filinia longispina → Unclassified flagellates	1.800E-10	3.460E-13
3	TL	Gastropus hyptopus → Chromulina sp.	1.350E-10	3.030E-14
3	TL	Gastropus hyptopus → Chroococcus dispersus	1.350E-10	2.390E-13
3	TL	Gastropus hyptopus → Chroococcus limneticus	1.350E-10	1.310E-12
3	TL	Gastropus hyptopus → Cryptomonas sp. 1	1.350E-10	2.030E-13
3	TL	Gastropus hyptopus → Selenastrum minutum	1.350E-10	2.720E-13
3	TL	Gastropus hyptopus → Unclassified microflagellates	1.350E-10	1.020E-13
3	TL	Gastropus stylifer → Ankyra judayi	1.160E-10	1.530E-13
3	TL	Gastropus stylifer → Chromulina sp.	1.160E-10	3.030E-14
3	TL	Gastropus stylifer → Chroococcus dispersus	1.160E-10	2.390E-13
3	TL	Gastropus stylifer → Chroococcus limneticus	1.160E-10	1.310E-12
3	TL	Gastropus stylifer → Cryptomonas sp. 1	1.160E-10	2.030E-13
3	TL	Gastropus stylifer → Selenastrum minutum	1.160E-10	2.720E-13
3	TL	Gastropus stylifer → Trachelomonas sp.	1.160E-10	1.750E-13

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
3	TL	Gastropus stylifer → Unclassified flagellates	1.160E-10	3.460E-13
3	TL	Gastropus stylifer → Unclassified microflagellates	1.160E-10	1.020E-13
3	TL	Holopedium gibberum → Arthrodesmus sp.	6.870E-08	1.520E-12
3	TL	Holopedium gibberum → Chromulina sp.	6.870E-08	3.030E-14
3	TL	Holopedium gibberum → Chroococcus dispersus	6.870E-08	2.390E-13
3	TL	Holopedium gibberum → Chroococcus limneticus	6.870E-08	1.310E-12
3	TL	Holopedium gibberum → Cosmarium sp.	6.870E-08	3.710E-12
3	TL	Holopedium gibberum → Cryptomonas sp. 1	6.870E-08	2.030E-13
3	TL	Holopedium gibberum → Cryptomonas sp. 2	6.870E-08	1.510E-12
3	TL	Holopedium gibberum → Cryptomonas sp. 3	6.870E-08	6.720E-13
3	TL	Holopedium gibberum → Cryptomonas sp. 4	6.870E-08	1.640E-12
3	TL	Holopedium gibberum → Dactylococcopsis fascicularis	6.870E-08	1.320E-13
3	TL	Holopedium gibberum → Dictyosphaerium pulchellum	6.870E-08	4.630E-13
3	TL	Holopedium gibberum → Dinobryon cylindricum	6.870E-08	2.150E-12
3	TL	Holopedium gibberum → Dinobryon sertularia	6.870E-08	9.250E-12
3	TL	Holopedium gibberum → Dinobryon sociale	6.870E-08	6.410E-13
3	TL	Holopedium gibberum → Glenodinium pulvisculus	6.870E-08	5.200E-12
3	TL	Holopedium gibberum → Glenodinium quadridens	6.870E-08	7.540E-12
3	TL	Holopedium gibberum → Mallomonas sp. 1	6.870E-08	1.030E-12
3	TL	Holopedium gibberum → Mallomonas sp. 2	6.870E-08	1.410E-12
3	TL	Holopedium gibberum → Nostoc sp.	6.870E-08	7.970E-13
3	TL	Holopedium gibberum → Oocystis sp. 1	6.870E-08	3.860E-12
3	TL	Holopedium gibberum → Oocystis sp. 2	6.870E-08	6.320E-12
3	TL	Holopedium gibberum → Peridinium cinctum	6.870E-08	4.060E-11
3	TL	Holopedium gibberum → Peridinium pulsillum	6.870E-08	1.580E-12
3	TL	Holopedium gibberum → Schroederia setigera	6.870E-08	6.370E-13
3	TL	Holopedium gibberum → Selenastrum minutum	6.870E-08	2.720E-13
3	TL	Holopedium gibberum → Sphaerocystis schroeteri	6.870E-08	1.080E-11
3	TL	Holopedium gibberum → Trachelomonas sp.	6.870E-08	1.750E-13
3	TL	Holopedium gibberum → Unclassified flagellates	6.870E-08	3.460E-13
3	TL	Holopedium gibberum → Unclassified microflagellates	6.870E-08	1.020E-13
3	TL	Kelicottia bostoniensis → Chromulina sp.	2.000E-11	3.030E-14
3	TL	Kelicottia bostoniensis → Chroococcus dispersus	2.000E-11	2.390E-13
3	TL	Kelicottia bostoniensis → Chroococcus limneticus	2.000E-11	1.310E-12
3	TL	Kelicottia bostoniensis → Cryptomonas sp. 1	2.000E-11	2.030E-13
3	TL	Kelicottia bostoniensis → Selenastrum minutum	2.000E-11	2.720E-13
3	TL	Kelicottia bostoniensis → Unclassified microflagellates	2.000E-11	1.020E-13
3	TL	Kelicottia longispina → Chromulina sp.	4.500E-11	3.030E-14
3	TL	Kelicottia longispina → Chroococcus dispersus	4.500E-11	2.390E-13
3	TL	Kelicottia longispina → Chroococcus limneticus	4.500E-11	1.310E-12
3	TL	Kelicottia longispina → Cryptomonas sp. 1	4.500E-11	2.030E-13
3	TL	Kelicottia longispina → Selenastrum minutum	4.500E-11	2.720E-13
3	TL	Kelicottia longispina → Unclassified microflagellates	4.500E-11	1.020E-13
3	TL	Kellicottia sp. → Chromulina sp.	2.000E-11	3.030E-14
3	TL	Kellicottia sp. → Chroococcus dispersus	2.000E-11	2.390E-13
3	TL	Kellicottia sp. → Cryptomonas sp. 1	2.000E-11	2.030E-13
3	TL	Kellicottia sp. → Selenastrum minutum	2.000E-11	2.720E-13
3	TL	Kellicottia sp. → Trachelomonas sp.	2.000E-11	1.750E-13
3	TL	Kellicottia sp. → Unclassified flagellates	2.000E-11	3.460E-13
3	TL	Keratella cochlearis → Chromulina sp.	1.000E-11	3.030E-14

doi:10.1038/nature11131

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
3	TL	Keratella cochlearis → Chroococcus dispersus	1.000E-11	2.390E-13
3	TL	Keratella cochlearis → Chroococcus limneticus	1.000E-11	1.310E-12
3	TL	Keratella cochlearis → Cryptomonas sp. 1	1.000E-11	2.030E-13
3	TL	Keratella cochlearis → Selenastrum minutum	1.000E-11	2.720E-13
3	TL	Keratella cochlearis → Trachelomonas sp.	1.000E-11	1.750E-13
3	TL	Keratella cochlearis → Unclassified flagellates	1.000E-11	3.460E-13
3	TL	Keratella cochlearis → Unclassified microflagellates	1.000E-11	1.020E-13
3	TL	Keratella testudo → Chromulina sp.	1.250E-11	3.030E-14
3	TL	Keratella testudo → Chroococcus dispersus	1.250E-11	2.390E-13
3	TL	Keratella testudo → Chroococcus limneticus	1.250E-11	1.310E-12
3	TL	Keratella testudo → Cryptomonas sp. 1	1.250E-11	2.030E-13
3	TL	Keratella testudo → Selenastrum minutum	1.250E-11	2.720E-13
3	TL	Keratella testudo → Trachelomonas sp.	1.250E-11	1.750E-13
3	TL	Keratella testudo → Unclassified flagellates	1.250E-11	3.460E-13
3	TL	Keratella testudo → Unclassified microflagellates	1.250E-11	1.020E-13
3	TL	Leptodiaptomus siciloides → Arthrodesmus sp.	8.800E-09	1.520E-12
3	TL	Leptodiaptomus siciloides → Chromulina sp.	8.800E-09	3.030E-14
3	TL	Leptodiaptomus siciloides → Chroococcus dispersus	8.800E-09	2.390E-13
3	TL	Leptodiaptomus siciloides → Cryptomonas sp. 1	8.800E-09	2.030E-13
3	TL	Leptodiaptomus siciloides → Cryptomonas sp. 2	8.800E-09	1.510E-12
3	TL	Leptodiaptomus siciloides → Dactylococcopsis fascicularis	8.800E-09	1.320E-13
3	TL	Leptodiaptomus siciloides → Dictyosphaerium pulchellum	8.800E-09	4.630E-13
3	TL	Leptodiaptomus siciloides → Dinobryon cylindricum	8.800E-09	2.150E-12
3	TL	Leptodiaptomus siciloides → Dinobryon sociale	8.800E-09	6.410E-13
3	TL	Leptodiaptomus siciloides → Glenodinium quadridens	8.800E-09	7.540E-12
3	TL	Leptodiaptomus siciloides → Mallomonas sp. 2	8.800E-09	1.410E-12
3	TL	Leptodiaptomus siciloides → Nostoc sp.	8.800E-09	7.970E-13
3	TL	Leptodiaptomus siciloides → Peridinium pulsillum	8.800E-09	1.580E-12
3	TL	Leptodiaptomus siciloides → Selenastrum minutum	8.800E-09	2.720E-13
3	TL	Leptodiaptomus siciloides → Trachelomonas sp.	8.800E-09	1.750E-13
3	TL	Leptodiaptomus siciloides → Unclassified flagellates	8.800E-09	3.460E-13
3	TL	Micropterus salmoides → Daphnia pulex	1.950E-01	5.150E-08
3	TL	Micropterus salmoides → Holopedium gibberum	1.950E-01	6.870E-08
3	TL	Orthocyclops modestus → Ascomorpha eucadis	2.740E-08	2.700E-10
3	TL	Orthocyclops modestus → Conochiloides dossuarius	2.740E-08	1.600E-10
3	TL	Orthocyclops modestus → Conochilus (solitary)	2.740E-08	3.500E-11
3	TL	Orthocyclops modestus → Cyclops varians rubellus	2.740E-08	2.240E-08
3	TL	Orthocyclops modestus → Diaptomus oregonensis	2.740E-08	1.440E-08
3	TL	Orthocyclops modestus → Filinia longispina	2.740E-08	1.800E-10
3	TL	Orthocyclops modestus → Gastropus hyptopus	2.740E-08	1.350E-10
3	TL	Orthocyclops modestus → Gastropus stylifer	2.740E-08	1.160E-10
3	TL	Orthocyclops modestus → Kelicottia bostoniensis	2.740E-08	2.000E-11
3	TL	Orthocyclops modestus → Kelicottia longispina	2.740E-08	4.500E-11
3	TL	Orthocyclops modestus → Kellicottia sp.	2.740E-08	2.000E-11
3	TL	Orthocyclops modestus → Keratella cochlearis	2.740E-08	1.000E-11
3	TL	Orthocyclops modestus → Keratella testudo	2.740E-08	1.250E-11
3	TL	Orthocyclops modestus → Leptodiaptomus siciloides	2.740E-08	8.800E-09
3	TL	Orthocyclops modestus → Ploesoma sp.	2.740E-08	1.050E-10
3	TL	Orthocyclops modestus → Polyarthra vulgaris	2.740E-08	3.630E-10
3	TL	Orthocyclops modestus → Synchaeta sp.	2.740E-08	6.600E-10

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
3	TL	Orthocyclops modestus → Trichocerca cylindrica	2.740E-08	4.850E-10
3	TL	Orthocyclops modestus → Trichocerca multicorinis	2.740E-08	1.600E-10
3	TL	Orthocyclops modestus → Tropocyclops prasinus	2.740E-08	7.870E-09
3	TL	Phoxinus eos → Bosmina longirostris	1.010E-03	1.550E-09
3	TL	Phoxinus eos → Chaoborys punctipennis	1.010E-03	2.580E-07
3	TL	Phoxinus eos → Cyclops varians rubellus	1.010E-03	2.240E-08
3	TL	Phoxinus eos → Daphnia pulex	1.010E-03	5.150E-08
3	TL	Phoxinus eos → Diaphanosoma leuchtenbergianum	1.010E-03	2.240E-09
3	TL	Phoxinus eos → Holopedium gibberum	1.010E-03	6.870E-08
3	TL	Phoxinus eos → Leptodiaptomus siciloides	1.010E-03	8.800E-09
3	TL	Phoxinus eos → Orthocyclops modestus	1.010E-03	2.740E-08
3	TL	Phoxinus eos → Tropocyclops prasinus	1.010E-03	7.870E-09
3	TL	Phoxinys neogaeus → Bosmina longirostris	1.170E-03	1.550E-09
3	TL	Phoxinys neogaeus → Chaoborys punctipennis	1.170E-03	2.580E-07
3	TL	Phoxinys neogaeus → Cyclops varians rubellus	1.170E-03	2.240E-08
3	TL	Phoxinys neogaeus → Daphnia pulex	1.170E-03	5.150E-08
3	TL	Phoxinys neogaeus → Diaphanosoma leuchtenbergianum	1.170E-03	2.240E-09
3	TL	Phoxinys neogaeus → Holopedium gibberum	1.170E-03	6.870E-08
3	TL	Phoxinys neogaeus → Leptodiaptomus siciloides	1.170E-03	8.800E-09
3	TL	Phoxinys neogaeus → Orthocyclops modestus	1.170E-03	2.740E-08
3	TL	Phoxinys neogaeus → Tropocyclops prasinus	1.170E-03	7.870E-09
3	TL	Ploesoma sp. → Chromulina sp.	1.050E-10	3.030E-14
3	TL	Ploesoma sp. → Chroococcus dispersus	1.050E-10	2.390E-13
3	TL	Ploesoma sp. → Cryptomonas sp. 1	1.050E-10	2.030E-13
3	TL	Ploesoma sp. → Selenastrum minutum	1.050E-10	2.720E-13
3	TL	Ploesoma sp. → Trachelomonas sp.	1.050E-10	1.750E-13
3	TL	Ploesoma sp. → Unclassified flagellates	1.050E-10	3.460E-13
3	TL	Polyarthra vulgaris → Chromulina sp.	3.630E-10	3.030E-14
3	TL	Polyarthra vulgaris → Chroococcus dispersus	3.630E-10	2.390E-13
3	TL	Polyarthra vulgaris → Chroococcus limneticus	3.630E-10	1.310E-12
3	TL	Polyarthra vulgaris → Cryptomonas sp. 1	3.630E-10	2.030E-13
3	TL	Polyarthra vulgaris → Selenastrum minutum	3.630E-10	2.720E-13
3	TL	Polyarthra vulgaris → Trachelomonas sp.	3.630E-10	1.750E-13
3	TL	Polyarthra vulgaris → Unclassified flagellates	3.630E-10	3.460E-13
3	TL	Polyarthra vulgaris → Unclassified microflagellates	3.630E-10	1.020E-13
3	TL	Synchaeta sp. → Chromulina sp.	6.600E-10	3.030E-14
3	TL	Synchaeta sp. → Chroococcus dispersus	6.600E-10	2.390E-13
3	TL	Synchaeta sp. → Chroococcus limneticus	6.600E-10	1.310E-12
3	TL	Synchaeta sp. → Cryptomonas sp. 1	6.600E-10	2.030E-13
3	TL	Synchaeta sp. → Selenastrum minutum	6.600E-10	2.720E-13
3	TL	Synchaeta sp. → Trachelomonas sp.	6.600E-10	1.750E-13
3	TL	Synchaeta sp. → Unclassified flagellates	6.600E-10	3.460E-13
3	TL	Synchaeta sp. → Unclassified microflagellates	6.600E-10	1.020E-13
3	TL	Trichocerca cylindrica → Chromulina sp.	4.850E-10	3.030E-14
3	TL	Trichocerca cylindrica → Chroococcus dispersus	4.850E-10	2.390E-13
3	TL	Trichocerca cylindrica → Chroococcus limneticus	4.850E-10	1.310E-12
3	TL	Trichocerca cylindrica → Cryptomonas sp. 1	4.850E-10	2.030E-13
3	TL	Trichocerca cylindrica → Selenastrum minutum	4.850E-10	2.720E-13
3	TL	Trichocerca cylindrica → Trachelomonas sp.	4.850E-10	1.750E-13
3	TL	Trichocerca cylindrica → Unclassified flagellates	4.850E-10	3.460E-13

D	Community	Consumer → Resource	Consumer mass (kg)	Resource mass (kg)
3	TL	Trichocerca cylindrica → Unclassified microflagellates	4.850E-10	1.020E-13
3	TL	Trichocerca multicorinis → Chromulina sp.	1.600E-10	3.030E-14
3	TL	Trichocerca multicorinis → Chroococcus dispersus	1.600E-10	2.390E-13
3	TL	Trichocerca multicorinis → Chroococcus limneticus	1.600E-10	1.310E-12
3	TL	Trichocerca multicorinis → Cryptomonas sp. 1	1.600E-10	2.030E-13
3	TL	Trichocerca multicorinis → Selenastrum minutum	1.600E-10	2.720E-13
3	TL	Trichocerca multicorinis → Trachelomonas sp.	1.600E-10	1.750E-13
3	TL	Trichocerca multicorinis → Unclassified flagellates	1.600E-10	3.460E-13
3	TL	Trichocerca multicorinis → Unclassified microflagellates	1.600E-10	1.020E-13
3	TL	Tropocyclops prasinus → Ascomorpha eucadis	7.870E-09	2.700E-10
3	TL	Tropocyclops prasinus → Conochiloides dossuarius	7.870E-09	1.600E-10
3	TL	Tropocyclops prasinus → Conochilus (solitary)	7.870E-09	3.500E-11
3	TL	Tropocyclops prasinus → Diaptomus oregonensis	7.870E-09	1.440E-08
3	TL	Tropocyclops prasinus → Filinia longispina	7.870E-09	1.800E-10
3	TL	Tropocyclops prasinus → Gastropus hyptopus	7.870E-09	1.350E-10
3	TL	Tropocyclops prasinus → Gastropus stylifer	7.870E-09	1.160E-10
3	TL	Tropocyclops prasinus → Kelicottia bostoniensis	7.870E-09	2.000E-11
3	TL	Tropocyclops prasinus → Kelicottia longispina	7.870E-09	4.500E-11
3	TL	Tropocyclops prasinus → Kellicottia sp.	7.870E-09	2.000E-11
3	TL	Tropocyclops prasinus → Keratella cochlearis	7.870E-09	1.000E-11
3	TL	Tropocyclops prasinus → Keratella testudo	7.870E-09	1.250E-11
3	**TL**	**Tropocyclops prasinus → Leptodiaptomus siciloides (2)**	**7.870E-09**	**8.800E-09**
3	TL	Tropocyclops prasinus → Ploesoma sp.	7.870E-09	1.050E-10
3	TL	Tropocyclops prasinus → Polyarthra vulgaris	7.870E-09	3.630E-10
3	TL	Tropocyclops prasinus → Synchaeta sp.	7.870E-09	6.600E-10
3	TL	Tropocyclops prasinus → Trichocerca cylindrica	7.870E-09	4.850E-10
3	TL	Tropocyclops prasinus → Trichocerca multicorinis	7.870E-09	1.600E-10
3	TL	Umbra limi → Bosmina longirostris	1.290E-03	1.550E-09
3	TL	Umbra limi → Chaoborys punctipennis	1.290E-03	2.580E-07
3	TL	Umbra limi → Cyclops varians rubellus	1.290E-03	2.240E-08
3	TL	Umbra limi → Daphnia pulex	1.290E-03	5.150E-08
3	TL	Umbra limi → Diaphanosoma leuchtenbergianum	1.290E-03	2.240E-09
3	TL	Umbra limi → Holopedium gibberum	1.290E-03	6.870E-08
3	TL	Umbra limi → Leptodiaptomus siciloides	1.290E-03	8.800E-09
3	TL	Umbra limi → Orthocyclops modestus	1.290E-03	2.740E-08
3	TL	Umbra limi → Phoxinus eos	1.290E-03	1.010E-03
3	TL	Umbra limi → Phoxinys neogaeus	1.290E-03	1.170E-03
3	TL	Umbra limi → Tropocyclops prasinus	1.290E-03	7.870E-09

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