**Table S6.** Correlation coefficients for the relationship between week-to-week turnover values when rare interactions are included versus when rare interactions are excluded. For these analyses, rare interactions are those that occurred only once within a given week (i.e., a singleton within a week). These same interactions may have been observed more frequently in other weeks. Given that all turnover values are highly correlated, this strongly suggests that rare interactions on their own are not accounting for all of the rewiring or overall interaction turnover patterns. These results suggest that the observed patterns robust to sampling artifacts associated with rare interactions. For all correlations, P < 0.05. Turnover metric notation: species turnover (*βs*), interaction turnover (*βint*), interaction rewiring (*βrw*), and the contribution of species turnover to interaction turnover (*βst*).

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| --- | --- | --- |
| **Year** | **Turnover metric** | **Correlation coefficient** |
| 2013 | *βs* | 0.781 |
| *βint* | 0.850 |
| *βrw* | 0.949 |
| *βst* | 0.863 |
| 2014 | *βs* | 0.821 |
| *βint* | 0.927 |
| *βrw* | 0.895 |
| *βst* | 0.846 |
| 2015 | *βs* | 0.953 |
| *βint* | 0.890 |
| *βrw* | 0.599 |
| *βst* | 0.935 |