# 分析対象種の確認状況の経年比較（その1）

| No. | 地整 | 項目 | 河畔林に特徴的な種の分布状況 | | | | | | | | | | | | | | | | | | | | 生物多様性の攪乱　国外外来種の分布状況 | | | | | | | | | | | | | | | | | | |

# 分析対象種の確認状況の経年比較（その2）

| No. | 地整 | 項目 | 河畔林に特徴的な種の分布状況 | | | | | | | | | | | | | | | | | | | | 生物多様性の攪乱　国外外来種の分布状況 | | | | | | | | | | | | | | | | | | |

# 分析対象種の確認状況の経年比較（その3）

| No. | 地整 | 項目 | 生物多様性の攪乱　国外外来種の分布状況 | | | | | | | | | | | | | | | | 温暖化に伴い分布を拡大する生物の状況 | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 種名 | イネミズゾウムシ | | | | シバオサゾウムシ | | | | アメリカジガバチ | | | | セイヨウオオマルハナバチ | | | | ナガサキアゲハ | | | | モンキアゲハ | | | | ムラサキツバメ | | | | ツマグロヒョウモン | | | | イシガケチョウ | | | | クロコノマチョウ | | | |
| | | 河川名　＼　巡目調査 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| 1 | 北海道 | 天塩川 | - | × | × | - | - | × | × | - | - | × | × | - | - | × | × | - | - | × | × | - | - | × | × | - | - | × | × | - | - | × | × | - | - | × | × | - | - | × | × | - |
| 2 | 北海道 | 渚滑川 | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | ● | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| 3 | 北海道 | 湧別川 | × | × | × | × | × | × | × | × | × | × | × | × | × | × | ● | ● | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| **4** | **北海道** | **常呂川** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **●** | **◎** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** |
| 5 | 北海道 | 網走川 | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | ● | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| 6 | 北海道 | 留萌川 | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - |
| 7 | 北海道 | 石狩川 | × | ● | × | - | × | × | × | - | × | × | × | - | × | ● | ● | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - |
| 8 | 北海道 | 尻別川 | - | × | × | ● | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × |
| 9 | 北海道 | 後志利別川 | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × |
| 10 | 北海道 | 鵡川 | - | × | × | - | - | × | × | - | - | × | × | - | - | × | × | - | - | × | × | - | - | × | × | - | - | × | × | - | - | × | × | - | - | × | × | - | - | × | × | - |
| 11 | 北海道 | 沙流川 | - | × | × | - | - | × | × | - | - | × | × | - | - | ● | ● | - | - | × | × | - | - | × | × | - | - | × | × | - | - | × | × | - | - | × | × | - | - | × | × | - |
| 12 | 北海道 | 釧路川 | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - |
| 13 | 北海道 | 十勝川 | - | × | × | - | - | × | × | - | - | × | × | - | - | × | × | - | - | × | × | - | - | × | × | - | - | × | × | - | - | × | × | - | - | × | × | - | - | × | × | - |
| 14 | 東北 | 岩木川 | - | ● | ● | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × |
| 15 | 東北 | 高瀬川 | ● | × | ● | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - |
| 16 | 東北 | 馬淵川 | - | ● | × | ● | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × |
| **17** | **東北** | **北上川** | **●** | **●** | **●** | **◎** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** |
| 18 | 東北 | 鳴瀬川 | - | × | ● | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × |
| 19 | 東北 | 名取川 | ● | ● | ● | ● | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | ● | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| 20 | 東北 | 阿武隈川 | - | ● | ● | ● | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | ● | - | × | × | × | - | × | × | × | - | × | × | × |
| 21 | 東北 | 米代川 | ● | ● | ● | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - |
| 22 | 東北 | 雄物川 | ● | ● | ● | ● | × | × | × | ● | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| 23 | 東北 | 子吉川 | ● | ● | ● | ● | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| 24 | 東北 | 最上川 | ● | ● | ● | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - |
| 25 | 東北 | 赤川 | ● | ● | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - |
| 26 | 関東 | 久慈川 | ● | × | ● | ● | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | ● | × | × | × | ● | × | × | × | ● | × | × | × | × | × | × | × | × | × | × | × | ● |
| 27 | 関東 | 那珂川 | ● | ● | ● | - | × | × | × | - | × | × | ● | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - |
| 28 | 関東 | 利根川（利根川） | ● | ● | ● | - | × | ● | ● | - | × | ● | ● | - | × | × | ● | - | × | × | × | - | ● | ● | ● | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - |
| 29 | 関東 | 利根川（常陸利根川） | - | - | ● | - | - | - | × | - | - | - | ● | - | - | - | × | - | - | - | × | - | - | - | × | - | - | - | × | - | - | - | × | - | - | - | × | - | - | - | × | - |
| 30 | 関東 | 利根川（中川・綾瀬川） | ● | ● | ● | - | ● | × | × | - | ● | × | ● | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - |
| 31 | 関東 | 利根川（江戸川） | ● | ● | ● | - | × | ● | × | - | × | ● | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - |
| 32 | 関東 | 利根川（渡良瀬川） | - | ● | ● | - | - | × | × | - | - | × | ● | - | - | × | × | - | - | × | × | - | - | × | × | - | - | × | × | - | - | × | × | - | - | × | × | - | - | × | ● | - |
| 33 | 関東 | 利根川（鬼怒川） | - | ● | ● | - | - | × | × | - | - | × | × | - | - | × | × | - | - | × | × | - | - | × | × | - | - | × | × | - | - | × | × | - | - | × | × | - | - | × | × | - |
| 34 | 関東 | 利根川（小貝川） | ● | ● | ● | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | ● | × | × | - | × | × | × | - | × | × | ● | - | × | × | × | - | × | × | × | - |
| 35 | 関東 | 利根川（烏川・神流川） | ● | ● | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - |
| 36 | 関東 | 荒川（関東） | × | ● | ● | - | × | ● | ● | - | × | ● | ● | - | × | × | × | - | × | × | ● | - | × | × | × | - | × | × | ● | - | × | × | × | - | × | × | × | - | × | × | × | - |
| 37 | 関東 | 多摩川 | - | ● | × | × | - | ● | × | × | - | ● | ● | × | - | × | × | × | - | × | × | ● | - | × | × | × | - | × | × | × | - | × | × | ● | - | × | × | × | - | × | × | ● |
| 38 | 関東 | 鶴見川 | - | ● | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | ● | - | × | × | × | - | × | × | ● | - | × | × | ● | - | × | × | × | - | × | × | × |
| 39 | 関東 | 相模川 | - | × | × | × | - | × | × | × | - | × | ● | ● | - | × | × | × | - | × | × | × | - | ● | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × |
| 40 | 関東 | 富士川 | - | ● | ● | ● | - | × | ● | ● | - | × | ● | ● | - | × | × | × | - | × | ● | × | - | ● | ● | ● | - | × | × | × | - | × | ● | ● | - | × | × | × | - | ● | ● | ● |
| 41 | 北陸 | 荒川（北陸） | × | ● | × | - | × | × | × | - | × | × | ● | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - |
| 42 | 北陸 | 阿賀野川 | ● | ● | ● | ● | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | ● | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| 43 | 北陸 | 信濃川 | ● | ● | ● | - | × | × | × | - | ● | ● | ● | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | ● | ● | - | × | × | × | - | × | × | × | - |
| 44 | 北陸 | 関川 | - | × | ● | × | - | × | × | × | - | ● | ● | ● | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | ● | - | × | × | × | - | × | × | × | - |
| 45 | 北陸 | 姫川 | - | ● | ● | ● | - | × | × | × | - | ● | ● | ● | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | ● | - | × | × | × | - | × | × | × | - |
| 46 | 北陸 | 黒部川 | - | ● | ● | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | ● | × | - | × | × | × | - | × | ● | ● | - | × | × | × | - | × | × | × | - |
| **47** | **北陸** | **常願寺川** | **●** | **●** | **●** | **◎** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **●** | **●** | **◎** | **×** | **×** | **×** | **×** | **×** | **●** | **●** | **◎** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** |
| 48 | 北陸 | 神通川 | ● | ● | × | ● | × | × | × | × | ● | × | × | × | × | × | × | × | × | × | × | × | × | ● | ● | ● | × | × | × | × | × | ● | ● | ● | × | × | × | × | × | × | × | × |
| 49 | 北陸 | 庄川 | ● | ● | × | - | × | × | × | - | ● | ● | ● | - | × | × | × | - | × | × | × | - | ● | ● | ● | - | × | × | × | - | × | ● | ● | - | × | × | × | - | × | × | × | - |
| 50 | 北陸 | 小矢部川 | - | ● | ● | ● | - | × | × | × | - | ● | ● | × | - | × | × | × | - | × | × | × | - | ● | × | ● | - | × | × | × | - | × | ● | ● | - | × | × | × | - | × | × | × |
| 51 | 北陸 | 手取川 | ● | × | × | - | × | × | × | - | × | ● | × | - | × | × | × | - | × | × | × | - | ● | ● | ● | - | × | × | × | - | × | ● | ● | - | × | × | × | - | × | × | × | - |
| 52 | 北陸 | 梯川 | - | ● | ● | - | - | × | × | - | - | × | ● | - | - | × | × | - | - | × | × | - | - | × | ● | - | - | × | × | - | - | ● | ● | - | - | × | × | - | - | × | × | - |
| 53 | 中部 | 狩野川 | ● | ● | ● | - | × | × | ● | - | × | × | ● | - | × | × | × | - | × | × | ● | - | ● | ● | ● | - | × | × | × | - | × | × | ● | - | × | × | × | - | ● | ● | ● | - |
| 54 | 中部 | 安倍川 | - | × | × | × | - | × | × | × | - | × | ● | × | - | × | × | × | - | × | × | ● | - | ● | ● | ● | - | × | × | × | - | × | ● | ● | - | × | × | × | - | ● | ● | ● |
| **55** | **中部** | **大井川** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **●** | **×** | **×** | **×** | **×** | **×** | **×** | **×** | **●** | **◎** | **●** | **●** | **●** | **◎** | **×** | **×** | **×** | **×** | **×** | **●** | **●** | **◎** | **×** | **×** | **×** | **×** | **●** | **●** | **●** | **◎** |
| 56 | 中部 | 菊川 | × | ● | ● | - | × | × | ● | - | × | × | × | - | × | × | × | - | × | × | ● | - | ● | ● | ● | - | × | × | × | - | × | ● | ● | - | × | × | × | - | × | × | × | - |
| 57 | 中部 | 天竜川 | ● | ● | ● | ● | × | × | × | × | × | ● | ● | ● | × | × | × | × | × | × | ● | × | × | ● | ● | ● | × | × | × | × | × | ● | ● | ● | × | × | × | × | × | ● | ● | ● |
| 58 | 中部 | 豊川 | ● | ● | ● | - | × | ● | ● | - | ● | ● | ● | - | × | × | × | - | × | × | ● | - | ● | ● | ● | - | × | × | × | - | ● | ● | ● | - | × | × | × | - | ● | ● | ● | - |
| 59 | 中部 | 矢作川 | ● | ● | × | - | × | × | ● | - | × | × | × | - | × | × | × | - | × | × | ● | - | × | × | ● | - | × | × | × | - | ● | ● | ● | - | × | × | × | - | × | × | × | - |
| 60 | 中部 | 庄内川 | - | ● | ● | ● | - | × | × | ● | - | ● | ● | ● | - | × | × | × | - | × | × | × | - | ● | × | ● | - | × | × | × | - | ● | ● | ● | - | × | × | × | - | × | × | ● |
| 61 | 中部 | 木曽川（木曽川） | ● | ● | ● | ● | × | × | × | ● | ● | ● | ● | × | × | × | × | × | × | × | × | ● | × | × | ● | ● | × | × | × | ● | ● | ● | ● | ● | × | × | × | × | × | × | × | ● |
| 62 | 中部 | 木曽川（長良川） | ● | ● | ● | ● | × | × | × | ● | ● | ● | × | × | × | × | ● | × | × | × | × | ● | × | × | × | ● | × | × | × | ● | ● | ● | ● | ● | × | × | × | × | × | × | × | × |
| 63 | 中部 | 木曽川（揖斐川） | ● | ● | ● | ● | × | × | × | × | ● | × | × | × | × | × | × | × | × | × | × | ● | × | × | × | ● | × | × | × | ● | ● | ● | ● | ● | × | × | × | × | ● | × | × | × |
| 64 | 中部 | 鈴鹿川 | ● | ● | ● | ● | × | × | ● | ● | ● | ● | ● | ● | × | × | × | × | × | × | ● | ● | × | × | × | ● | × | × | × | × | ● | ● | ● | ● | × | × | × | × | × | × | × | × |
| 65 | 中部 | 雲出川 | ● | ● | ● | - | × | × | ● | - | × | ● | ● | - | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | ● | ● | ● | - | × | × | × | - | ● | ● | × | - |
| **66** | **中部** | **櫛田川** | **●** | **●** | **●** | **◎** | **×** | **●** | **×** | **×** | **×** | **×** | **●** | **◎** | **×** | **×** | **×** | **×** | **×** | **●** | **●** | **◎** | **●** | **×** | **●** | **◎** | **×** | **×** | **×** | **×** | **●** | **●** | **●** | **◎** | **×** | **×** | **×** | **×** | **●** | **●** | **×** | **◎** |
| 67 | 中部 | 宮川 | - | ● | ● | ● | - | × | × | × | - | × | ● | ● | - | × | × | × | - | × | ● | ● | - | × | ● | ● | - | × | × | × | - | × | ● | ● | - | × | × | × | - | × | × | × | ● |
| 68 | 近畿 | 由良川 | × | ● | ● | ● | × | × | × | × | ● | ● | ● | ● | × | × | × | × | ● | × | ● | × | ● | ● | ● | ● | × | × | × | × | ● | ● | ● | ● | × | × | × | × | × | × | × | × |
| 69 | 近畿 | 淀川（瀬田川） | ● | ● | ● | - | ● | ● | ● | - | ● | × | × | - | × | × | × | - | × | ● | ● | - | ● | ● | × | - | × | × | × | - | ● | ● | ● | - | × | × | × | - | × | × | ● | - |
| 70 | 近畿 | 淀川（草津川） | ● | ● | ● | - | × | ● | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | ● | × | - | × | × | × | - | × | ● | ● | - | × | × | × | - | × | × | × | - |
| 71 | 近畿 | 淀川（猪名川） | - | × | × | - | - | × | × | - | - | × | ● | - | - | × | × | - | - | × | × | - | - | ● | × | - | - | × | × | - | - | ● | ● | - | - | × | × | - | - | × | × | - |
| 72 | 近畿 | 淀川（木津川） | ● | ● | ● | - | × | × | ● | - | × | ● | × | - | × | × | × | - | × | ● | ● | - | × | × | ● | - | × | × | × | - | ● | ● | ● | - | × | × | × | - | × | × | × | - |
| 73 | 近畿 | 淀川（野洲川） | ● | ● | ● | - | × | × | × | - | ● | ● | ● | - | × | × | × | - | × | × | × | - | × | × | ● | - | × | × | × | - | ● | ● | ● | - | × | × | × | - | × | × | × | - |
| 74 | 近畿 | 淀川（淀川） | ● | × | ● | - | × | ● | ● | - | ● | ● | ● | - | × | × | × | - | × | ● | ● | - | ● | ● | ● | - | × | × | × | - | ● | ● | ● | - | × | × | ● | - | ● | ● | ● | - |
| 75 | 近畿 | 大和川 | ● | ● | ● | - | ● | ● | ● | - | ● | ● | ● | - | × | × | × | - | × | × | × | - | × | × | ● | - | × | × | × | - | ● | ● | ● | - | × | × | × | - | × | × | × | - |
| 76 | 近畿 | 円山川 | ● | ● | ● | - | × | × | × | - | × | × | ● | - | × | × | × | - | × | ● | ● | - | ● | × | ● | - | × | × | × | - | ● | ● | ● | - | × | × | × | - | × | × | × | - |
| 77 | 近畿 | 加古川 | - | × | × | × | - | × | ● | ● | - | ● | ● | × | - | × | × | × | - | × | × | × | - | ● | × | × | - | × | × | × | - | ● | ● | ● | - | × | × | × | - | × | × | × |
| 78 | 近畿 | 揖保川 | - | × | × | × | - | × | × | × | - | × | ● | ● | - | × | × | × | - | ● | ● | ● | - | ● | ● | ● | - | × | × | × | - | ● | ● | ● | - | × | × | × | - | × | × | ● |
| 79 | 近畿 | 紀の川 | - | × | ● | × | - | ● | × | × | - | × | ● | ● | - | × | × | × | - | × | ● | ● | - | × | × | ● | - | × | × | × | - | ● | ● | ● | - | × | ● | × | - | × | × | ● |
| 80 | 近畿 | 新宮川 | ● | ● | ● | - | × | × | × | - | × | ● | ● | - | × | × | × | - | ● | ● | ● | - | ● | ● | ● | - | × | × | × | - | ● | ● | ● | - | ● | ● | ● | - | ● | ● | ● | - |
| 81 | 近畿 | 九頭竜川 | - | ● | ● | ● | - | × | × | × | - | ● | ● | ● | - | × | × | × | - | × | × | × | - | ● | ● | ● | - | × | × | × | - | × | ● | ● | - | × | × | × | - | × | × | × |
| 82 | 近畿 | 北川 | - | ● | × | ● | - | × | × | × | - | × | ● | × | - | × | × | × | - | × | × | × | - | ● | ● | ● | - | × | × | × | - | ● | ● | ● | - | × | × | × | - | × | × | × |

凡例　◎●：確認、×：未確認、-：１～３巡目調査は河川環境データベースに調査データが未格納、４巡目調査は調査未実施

注1)　１～３巡目調査のデータは、種名等について真正化され、河川環境データベースに格納されている調査データを対象にした。
注2)　調査の継続性の観点から、経年比較のとりまとめ対象は一級河川の直轄区間とし、指定区間および二級水系は対象外とした。
注3)　１～３巡目調査の区分については、原則として１巡目調査：平成２・３～７年度、２巡目調査：平成８～12年度、３巡目調査：平成13～17年度としたが、各河川の実施状況のバランスに応じて適宜区切りを調整した。
各調査項目における具体的な巡目の区切りは調査実施年度の欄に記した。

# 分析対象種の確認状況の経年比較（その4）

| No. | 地整 | 項目 | 生物多様性の攪乱　国外外来種の分布状況 | | | | | | | | | | | | | | | | 温暖化に伴い分布を拡大する生物の状況 | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 種名 | イネミズゾウムシ | | | | シバオサゾウムシ | | | | アメリカジガバチ | | | | セイヨウオオマルハナバチ | | | | ナガサキアゲハ | | | | モンキアゲハ | | | | ムラサキツバメ | | | | ツマグロヒョウモン | | | | イシガケチョウ | | | | クロコノマチョウ | | | |
| | | 河川名 ＼ 巡目調査 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| 83 | 中国 | 千代川 | ● | ● | ● | ● | × | × | × | × | ● | ● | ● | ● | × | × | × | × | ● | × | ● | × | ● | ● | ● | ● | × | × | × | × | ● | ● | ● | ● | × | × | × | × | × | × | × | ● |
| 84 | 中国 | 天神川 | - | ● | ● | ● | - | × | × | × | - | ● | ● | ● | - | × | × | × | - | × | × | ● | - | × | ● | ● | - | × | × | × | - | ● | ● | ● | - | × | × | × | - | × | × | ● |
| 85 | 中国 | 日野川 | - | ● | ● | ● | - | × | × | × | - | ● | × | × | - | × | × | × | - | ● | ● | ● | - | ● | ● | ● | - | × | × | × | - | ● | ● | ● | - | × | × | × | - | × | × | × |
| 86 | 中国 | 斐伊川 | ● | ● | ● | ● | × | × | × | × | × | × | ● | ● | × | × | × | × | ● | × | ● | × | ● | ● | ● | ● | × | × | × | × | ● | × | ● | ● | × | × | ● | × | × | × | × | × |
| 87 | 中国 | 江の川 | ● | × | ● | - | × | × | × | - | ● | ● | ● | - | × | × | × | - | ● | ● | × | - | ● | ● | ● | - | × | × | × | - | ● | ● | ● | - | × | × | × | - | × | × | × | - |
| 88 | 中国 | 高津川 | ● | ● | × | - | × | × | × | - | ● | ● | × | - | × | × | × | - | ● | ● | ● | - | ● | ● | × | - | × | × | × | - | ● | ● | ● | - | ● | ● | ● | - | × | ● | ● | - |
| 89 | 中国 | 吉井川 | ● | × | ● | - | × | × | × | - | × | × | × | - | × | × | × | - | × | ● | ● | - | × | × | ● | - | × | × | × | - | × | ● | ● | - | × | × | × | - | × | × | × | - |
| 90 | 中国 | 旭川 | ● | ● | ● | - | × | × | × | - | ● | ● | ● | - | × | × | × | - | ● | × | ● | - | ● | × | × | - | × | × | × | - | ● | × | ● | - | × | × | × | - | × | × | ● | - |
| 91 | 中国 | 高梁川 | ● | ● | × | × | × | × | ● | × | × | × | ● | × | × | × | × | × | × | × | ● | ◎ | × | ● | × | × | × | × | × | × | × | ● | ● | ◎ | × | × | × | × | × | ● | ● | ◎ |
| 92 | 中国 | 芦田川 | - | - | × | × | - | - | × | ◎ | - | - | ● | × | - | - | × | × | - | - | ● | ◎ | - | - | ● | ◎ | - | - | × | × | - | - | ● | ◎ | - | - | × | × | - | - | × | ◎ |
| 93 | 中国 | 太田川 | ● | ● | ● | ● | × | × | ● | ● | ● | ● | ● | × | × | × | × | × | ● | × | ● | ● | ● | × | ● | ● | × | × | × | × | ● | ● | ● | ● | × | ● | × | ● | ● | ● | ● | ● |
| 94 | 中国 | 小瀬川 | × | × | ● | - | × | × | ● | - | × | × | × | - | × | × | × | - | × | × | ● | - | × | × | × | - | × | × | × | - | ● | ● | ● | - | ● | × | ● | - | ● | × | × | - |
| 95 | 中国 | 佐波川 | × | ● | × | - | × | × | × | - | × | ● | ● | - | × | × | × | - | × | ● | ● | - | × | ● | ● | - | × | ● | × | - | × | ● | ● | - | × | ● | ● | - | × | ● | ● | - |
| 96 | 四国 | 吉野川 | ● | ● | ● | - | × | × | ● | - | × | ● | ● | - | × | × | × | - | ● | ● | ● | - | ● | ● | ● | - | × | × | × | - | ● | ● | ● | - | ● | ● | ● | - | × | ● | ● | - |
| 97 | 四国 | 那賀川 | × | ● | ● | - | × | × | ● | - | ● | ● | × | - | × | × | × | - | ● | ● | ● | - | ● | ● | ● | - | × | × | × | - | ● | ● | ● | - | × | ● | ● | - | × | ● | ● | - |
| 98 | 四国 | 土器川 | - | ● | × | ● | - | × | ● | ● | - | ● | ● | × | - | × | × | × | - | × | ● | × | - | × | × | ● | - | × | × | × | - | ● | ● | ● | - | × | × | ● | - | × | ● | ● |
| 99 | 四国 | 重信川 | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | ● | ● | ● | - | ● | ● | × | - | × | × | ● | - | ● | ● | ● | - | × | × | × | - | ● | ● | ● | - |
| 100 | 四国 | 肱川 | - | × | ● | × | - | × | × | × | - | ● | × | ● | - | × | × | × | - | ● | × | ● | - | ● | ● | ● | - | × | × | × | - | ● | ● | ● | - | ● | × | ● | - | ● | ● | ● |
| 101 | 四国 | 物部川 | - | × | ● | × | - | × | × | × | - | × | × | × | - | × | × | × | - | ● | ● | ● | - | ● | ● | × | - | × | × | × | - | ● | ● | ● | - | × | × | × | - | ● | ● | ● |
| 102 | 四国 | 仁淀川 | - | ● | ● | ● | - | × | × | × | - | ● | × | × | - | × | × | × | - | ● | ● | ● | - | ● | ● | ● | - | ● | × | × | - | ● | ● | ● | - | ● | ● | ● | - | ● | ● | ● |
| 103 | 四国 | 渡川 | ● | ● | ● | - | × | × | × | - | × | × | ● | - | × | × | × | - | × | ● | ● | - | ● | ● | ● | - | ● | ● | ● | - | ● | ● | ● | - | ● | ● | ● | - | ● | ● | ● | - |
| 104 | 九州 | 遠賀川 | ● | ● | ● | - | × | × | ● | - | × | × | ● | - | × | × | × | - | × | ● | ● | - | ● | ● | ● | - | ● | × | ● | - | ● | ● | ● | - | ● | × | × | - | × | ● | ● | - |
| 105 | 九州 | 山国川 | ● | ● | ● | ● | × | × | × | × | × | × | × | × | × | × | × | × | ● | ● | ● | ● | ● | ● | ● | ● | × | × | × | × | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 106 | 九州 | 筑後川 | - | ● | × | ◎ | - | ● | ● | ◎ | - | × | ● | ◎ | - | × | ● | ◎ | - | ● | ● | ◎ | - | × | × | ◎ | - | ● | ● | ◎ | - | ● | ● | ◎ | - | ● | ● | ◎ | - | ● | × | ◎ |
| 107 | 九州 | 矢部川 | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | ● | ● | ● | ● | ● | ● | ● | ● | × | × | × | ● | ● | ● | ● | ● | ● | × | × | × | ● | ● | ● | ● |
| 108 | 九州 | 松浦川 | ● | ● | × | - | × | × | × | - | × | × | × | - | × | × | × | - | × | ● | ● | - | ● | ● | ● | - | × | ● | ● | - | ● | ● | ● | - | ● | ● | ● | - | × | ● | ● | - |
| 109 | 九州 | 六角川 | × | × | × | - | × | × | × | - | × | ● | ● | - | × | × | × | - | × | ● | × | - | × | ● | ● | - | × | × | × | - | ● | ● | ● | - | × | × | × | - | × | × | ● | - |
| 110 | 九州 | 嘉瀬川 | × | × | × | × | × | × | × | ● | × | × | × | × | × | × | × | × | × | ● | ● | ● | × | ● | × | ● | × | × | × | × | ● | ● | ● | ● | ● | × | ● | × | ● | ● | ● | ● |
| 111 | 九州 | 本明川 | × | × | ● | × | × | ● | × | ● | × | × | × | × | × | × | × | × | ● | ● | ● | × | ● | ● | ● | ● | × | × | ● | ● | ● | ● | ● | ● | ● | ● | ● | × | × | × | ● | ● |
| 112 | 九州 | 菊池川 | - | × | × | × | - | × | × | ● | - | × | × | × | - | × | × | × | - | ● | ● | ● | - | × | ● | ● | - | × | × | × | - | ● | ● | ● | - | ● | × | × | - | × | × | ● |
| 113 | 九州 | 白川 | - | - | × | × | - | - | × | ● | - | - | × | × | - | - | × | × | - | - | ● | ● | - | - | ● | × | - | - | × | ● | - | - | ● | ● | - | - | × | × | - | - | ● | × |
| 114 | 九州 | 緑川 | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | ● | ● | ● | ● | × | ● | ● | ● | × | × | × | ● | ● | ● | ● | ● | × | × | ● | ● | × | × | ● | ● |
| 115 | 九州 | 球磨川 | × | × | × | - | × | × | × | - | × | × | × | - | × | × | × | - | ● | ● | ● | - | ● | × | ● | - | × | × | ● | - | ● | ● | ● | - | ● | ● | ● | - | ● | ● | ● | - |
| 116 | 九州 | 大分川 | ● | ● | ● | - | × | ● | × | - | × | × | ● | - | × | × | × | - | ● | ● | ● | - | × | ● | ● | - | × | × | × | - | ● | ● | ● | - | × | × | ● | - | × | × | ● | - |
| 117 | 九州 | 大野川 | - | × | × | × | - | × | ● | ◎ | - | × | × | ◎ | - | × | × | × | - | × | × | ◎ | - | × | ● | × | - | × | × | × | - | ● | ● | ◎ | - | × | × | × | - | × | × | × |
| 118 | 九州 | 番匠川 | ● | ● | × | - | × | × | × | - | × | × | ● | - | × | × | × | - | × | ● | ● | - | ● | ● | ● | - | × | × | ● | - | ● | ● | ● | - | × | × | ● | - | ● | ● | × | - |
| 119 | 九州 | 五ヶ瀬川 | - | × | ● | × | - | × | ● | × | - | × | × | × | - | × | × | × | - | × | ● | ● | - | × | ● | ● | - | ● | ● | ● | - | ● | ● | ● | - | × | ● | ● | - | × | ● | ● |
| 120 | 九州 | 小丸川 | - | ● | ● | - | - | × | × | - | - | × | × | - | - | × | × | - | - | × | ● | - | - | ● | × | - | - | × | × | - | - | × | ● | - | - | × | × | - | - | × | × | - |
| 121 | 九州 | 大淀川 | - | ● | ● | × | - | × | × | ◎ | - | × | × | × | - | × | × | × | - | × | × | ◎ | - | ● | × | ◎ | - | × | × | ◎ | - | ● | ● | ◎ | - | × | × | ◎ | - | × | × | ◎ |
| 122 | 九州 | 川内川 | ● | ● | - | × | × | × | - | × | × | × | - | × | × | × | - | × | ● | ● | - | ● | ● | ● | - | ● | × | ● | - | ● | ● | ● | - | ● | ● | ● | - | ● | ● | - | ● |
| 123 | 九州 | 肝属川 | ● | ● | ● | - | × | × | × | - | × | × | × | - | × | × | × | - | ● | ● | ● | - | ● | ● | ● | - | × | × | ● | - | ● | ● | ● | - | ● | ● | ● | - | × | ● | ● | - |
| 全実施河川 | | 確認河川数 | 56 | 80 | 75 | 34 | 3 | 14 | 24 | 17 | 20 | 39 | 56 | 19 | 0 | 2 | 7 | 5 | 19 | 34 | 53 | 32 | 33 | 53 | 58 | 41 | 2 | 7 | 11 | 8 | 40 | 68 | 80 | 50 | 13 | 17 | 20 | 10 | 18 | 31 | 35 | 31 |
| | | 未確認河川数 | 22 | 40 | 47 | 31 | 75 | 106 | 98 | 48 | 58 | 81 | 66 | 46 | 78 | 118 | 115 | 60 | 59 | 86 | 69 | 33 | 45 | 67 | 64 | 24 | 76 | 113 | 111 | 57 | 38 | 52 | 42 | 15 | 65 | 103 | 102 | 55 | 60 | 89 | 87 | 34 |
| | | 確認率（%） | 71.8 | 66.7 | 61.5 | 52.3 | 3.8 | 11.7 | 19.7 | 26.2 | 25.6 | 32.5 | 45.9 | 29.2 | 0.0 | 1.7 | 5.7 | 7.7 | 24.4 | 28.3 | 43.4 | 49.2 | 42.3 | 44.2 | 47.5 | 63.1 | 2.6 | 5.8 | 9.0 | 12.3 | 51.3 | 56.7 | 65.6 | 76.9 | 16.7 | 14.2 | 16.4 | 15.4 | 23.1 | 25.8 | 28.7 | 47.7 |

凡例　◎●：確認、×：未確認、-：１～３巡目調査は河川環境データベースに調査データが未格納、４巡目調査は調査未実施

注1)　１～３巡目調査のデータは、種名等について真正化され、河川環境データベースに格納されている調査データを対象にした。
注2)　調査の継続性の観点から、経年比較のとりまとめ対象は一級河川の直轄区間とし、指定区間および二級水系は対象外とした。
注3)　１～３巡目調査の区分については、原則として１巡目調査：平成２・３～７年度、２巡目調査：平成８～12年度、３巡目調査：平成13～17年度としたが、各河川の実施状況のバランスに応じて適宜区切りを調整した。
各調査項目における具体的な巡目の区切りは調査実施年度の欄に記した。

# 分析対象種の確認状況の経年比較（その5）

| No. | 地整 | 項目 | 注目すべき種の分布状況 | | |

# 分析対象種の確認状況の経年比較（その6）

| No. | 地整 | 項目 | 注目すべき種の分布状況 | | |