

**Table S1 – S7; Figure S1 – S6**

**Table S1.** A higher suitability ranking indicates criteria that are of high relevance to the assessment of the site. S1 = Don Heads Basalt Landform, S2 = Mersey Bluff Pseudo Petroglyphs and S3 = Penguin Megabreccia (**Note:** Criteria with a score of 8 or above were used for the assessment of the site and N/A indicates instances where criteria were not assessed as they were deemed irrelevant for the site). See also, Crisp et al. (*in press*).

| Criteria Name                                    | Criterion Tally | Suitability (S1) | Suitability (S2) | Suitability (S3) |
|--------------------------------------------------|-----------------|------------------|------------------|------------------|
| <b>Scientific Value</b>                          |                 |                  |                  |                  |
| General scientific value criterion               | 3               | 10               | N/A              | 9                |
| Representativeness                               | 21              | 10               | N/A              | 8                |
| Key Locality                                     | 3               | 5                | N/A              | 10               |
| Scientific Knowledge                             | 19              | 10               | N/A              | 5                |
| Integrity                                        | 14              | 10               | N/A              | 6                |
| Geological diversity                             | 15              | 10               | N/A              | 9                |
| Rarity                                           | 26              | 10               | N/A              | 8                |
| Use limitations                                  | 2               | 4                | N/A              | 8                |
| Exemplarity                                      | 3               | 5                | N/A              | 6                |
| Paleogeographical significance                   | 8               | 6                | N/A              | 2                |
| Visibility                                       | 2               | 5                | N/A              | 4                |
| Geohistorical reconstruction significance        | 1               | 2                | N/A              | 2                |
| Abundance and Singularity                        | 3               | 3                | N/A              | 6                |
| Ecological interest                              | 1               | 3                | N/A              | 3                |
| Extensiveness                                    | 1               | 3                | N/A              | 7                |
| Other geological features with geoheritage value | 1               | 4                | N/A              | 4                |
| Rareness at the national level                   | 2               | 2                | N/A              | 5                |
| Naturalness                                      | 1               | 2                | N/A              | 6                |
| Level of interpretation                          | 5               | 2                | N/A              | 9                |
| Special features                                 | 1               | 3                | N/A              | 8                |
| Local-type character                             | 1               | 4                | N/A              | 5                |
| Degree of degradation                            | 1               | 8                | N/A              | 6                |
| Spatial extension                                | 1               | 6                | N/A              | 6                |

**Geoconservation Research Volume 5 / Issue 1 2022/ Supplementary File 1**  
**Crisp: Omnidiversity Consolidation of Conservation Assessment**

|                                             |    |    |     |     |
|---------------------------------------------|----|----|-----|-----|
| Ecological support role                     | 1  | 3  | N/A | 4   |
| Geo-historical importance                   | 1  | 8  | N/A | 6   |
| Quality                                     | 1  | 8  | N/A | 3   |
| Scientific worth                            | 1  | 8  | N/A | 3   |
| Geologic history                            | 1  | 8  | N/A | 8   |
| <b>Tourism Value</b>                        |    |    |     |     |
| General tourism value criterion             | 1  | 8  | 8   | N/A |
| Vulnerability                               | 4  | 8  | 8   | N/A |
| Accessibility                               | 20 | 10 | 9   | N/A |
| Safety                                      | 5  | 6  | 9   | N/A |
| Logistics                                   | 2  | 5  | 9   | N/A |
| Density of Population                       | 2  | 6  | 8   | N/A |
| Association with other values               | 2  | 4  | 6   | N/A |
| Scenery                                     | 6  | 9  | 6   | N/A |
| Uniqueness                                  | 1  | 8  | 4   | N/A |
| Interpretative potential                    | 3  | 8  | 2   | N/A |
| Economic level                              | 2  | 5  | 3   | N/A |
| Proximity of recreational areas             | 3  | 8  | 6   | N/A |
| Tourist infrastructure and facilities       | 5  | 8  | 4   | N/A |
| Visibility                                  | 3  | 7  | 5   | N/A |
| Touristic attractiveness rate               | 1  | 7  | 6   | N/A |
| Aesthetics                                  | 2  | 7  | 6   | N/A |
| Biotic or cultural values                   | 1  | 4  | 6   | N/A |
| Landscape beauty                            | 1  | 7  | 7   | N/A |
| Viewpoints                                  | 3  | 8  | 6   | N/A |
| Tourist support                             | 1  | 4  | 5   | N/A |
| Location in vicinity to tourist trails      | 4  | 7  | 6   | N/A |
| Degree of degradation                       | 1  | 8  | 6   | N/A |
| Distance from restaurants and hotels (etc.) | 5  | 7  | 5   | N/A |
| Present use of the geological interest      | 1  | 4  | 6   | N/A |
| Uniqueness                                  | 1  | 4  | 8   | N/A |
| Observation conditions                      | 3  | 8  |     | N/A |

**Geoconservation Research Volume 5 / Issue 1 2022/ Supplementary File 1**  
**Crisp: Omnidiversity Consolidation of Conservation Assessment**

|                                                |   |    |   |     |
|------------------------------------------------|---|----|---|-----|
| Recreational interest                          | 2 | 7  | 4 | N/A |
| Global value                                   | 1 | 3  | 3 | N/A |
| Integrity                                      | 1 | 8  | 9 | N/A |
| Fragility                                      | 3 | 8  | 9 | N/A |
| Services                                       | 2 | 6  | 5 | N/A |
| Annual number of visitors                      | 5 | 5  | 8 | N/A |
| Additional natural values                      | 2 | 4  | 7 | N/A |
| Anthropogenic values                           | 2 | 4  | 5 | N/A |
| Vicinity to urban centres                      | 1 | 8  | 6 | N/A |
| Vicinity of road network                       | 1 | 8  | 6 | N/A |
| Outreach potential                             | 1 | 3  | 6 | N/A |
| Availability of information                    | 1 | 8  | 5 | N/A |
| Capacity of site                               | 1 | 8  | 6 | N/A |
| Form of ownership / permission to use or visit | 2 | 0  | 6 | N/A |
| Current and potential risks                    | 1 | 8  | 5 | N/A |
| Biotic value                                   | 1 | 4  | 6 | N/A |
| Tour guide service                             | 3 | 3  | 6 | N/A |
| Rarity                                         | 1 | 6  | 5 | N/A |
| Representativeness                             | 1 | 6  | 6 | N/A |
| Attraction                                     | 1 | 4  | 9 | N/A |
| <b>Educational Value</b>                       |   |    |   |     |
| General educational value criterion            | 2 | 6  | 9 | N/A |
| Vulnerability                                  | 4 | 9  | 9 | N/A |
| Safety                                         | 4 | 9  | 9 | N/A |
| Logistics                                      | 3 | 9  | 9 | N/A |
| Density of population                          | 2 | 4  | 5 | N/A |
| Association with other values                  | 1 | 2  | 5 | N/A |
| Observational conditions                       | 3 | 9  | 5 | N/A |
| Didactic potential                             | 5 | 10 | 8 | N/A |
| Geological diversity                           | 3 | 8  | 2 | N/A |
| Representativeness                             | 2 | 8  | 8 | N/A |

**Geoconservation Research Volume 5 / Issue 1 2022/ Supplementary File 1**  
**Crisp: Omniversity Consolidation of Conservation Assessment**

|                                       |   |     |   |     |
|---------------------------------------|---|-----|---|-----|
| Accessibility                         | 3 | 9   | 9 | N/A |
| Exposure (visibility)                 | 2 | 6   | 9 | N/A |
| Educational products                  | 4 | 6   | 7 | N/A |
| Possibility of sampling and fieldwork | 1 | 8   | 8 | N/A |
| Educational diversity                 | 1 | 8   | 5 | N/A |
| Capacity or size of the site          | 3 | 4   | 9 | N/A |
| Scenery                               | 1 | 3   | 5 | N/A |
| Uniqueness                            | 1 | 2   | 6 | N/A |
| Rarity                                | 1 | 2   | 7 | N/A |
| Interpretation                        | 1 | 6   | 5 | N/A |
| Educational interest                  | 2 | 8   | 9 | N/A |
| Exemplarity and Representativeness    | 2 | 8   | 9 | N/A |
| Educational significance              | 1 | 8   | 4 | N/A |
| <b>Aesthetic Value</b>                |   |     |   |     |
| General aesthetic value criterion     | 6 | N/A | 8 | 8   |
| Viewpoints                            | 7 | N/A | 8 | 8   |
| Landscape effect                      | 1 | N/A | 4 | 6   |
| Aesthetic value                       | 1 | N/A | 8 | 7   |
| Structure                             | 1 | N/A | 8 | 6   |
| Colour Contrasts                      | 2 | N/A | 5 | 9   |
| Landscape Interest                    | 1 | N/A | 5 | 5   |
| Surface area                          | 4 | N/A | 5 | 6   |
| Surrounding landscape and nature      | 2 | N/A | 6 | 7   |
| Environmental setting                 | 2 | N/A | 6 | 7   |
| Landscape difference                  | 1 | N/A | 4 | 6   |
| <b>Cultural Value</b>                 |   |     |   |     |
| General cultural value criterion      | 8 | N/A | 9 | N/A |
| Historical                            | 8 | N/A | 9 | N/A |
| Artistic                              | 6 | N/A | 9 | N/A |
| Economic                              | 2 | N/A | 7 | N/A |
| Religious                             | 5 | N/A | 8 | N/A |
| Geohistorical                         | 4 | N/A | 5 | N/A |

**Geoconservation Research Volume 5 / Issue 1 2022/ Supplementary File 1**  
**Crisp: Omnidiversity Consolidation of Conservation Assessment**

|                                                                   |   |     |   |     |
|-------------------------------------------------------------------|---|-----|---|-----|
| Cultural value                                                    | 1 | N/A | 9 | N/A |
| Religious importance                                              | 1 | N/A | 7 | N/A |
| Cultural diversity                                                | 1 | N/A | 6 | N/A |
| Community value                                                   | 1 | N/A | 6 | N/A |
| Ethics                                                            | 1 | N/A | 6 | N/A |
| <b>Conservation and Protection Value</b>                          |   |     |   |     |
| General conservation and protection value criterion               | 0 | 8   | 9 | 7   |
| Legislative protection                                            | 8 | 10  | 9 | 9   |
| Current threats                                                   | 1 | 8   | 5 | 9   |
| Ecological Influence                                              | 4 | 6   | 4 | 4   |
| Protected Site or Regime                                          | 4 | 9   | 9 | 3   |
| Natural variability                                               | 1 | 8   | 5 | 3   |
| Anthropogenic vulnerability                                       | 2 | 8   | 6 | 4   |
| Monthly number of visitors                                        | 1 | 5   | 8 | 6   |
| Settlement proximity                                              | 1 | 6   | 7 | 9   |
| Level of deterioration                                            | 2 | 8   | 9 | 7   |
| Integrity or Intactness                                           | 3 | 8   | 9 | 6   |
| Vulnerability                                                     | 5 | 8   | 8 | 7   |
| Accessibility                                                     | 1 | 8   | 8 | 9   |
| Visibility                                                        | 2 | 6   | 8 | 3   |
| Present use (geomorphological and other natural interests)        | 1 | 8   | 9 | 7   |
| Conservation status                                               | 1 | 8   | 4 | 3   |
| Suitable number of visitors                                       | 3 | 6   | 8 | 4   |
| Accessibility for vulnerability analysis                          | 1 | 6   | 7 | 3   |
| Proximity to potentially degrading zones                          | 1 | 8   | 2 | 4   |
| Current condition / State of preservation                         | 4 | 8   | 8 | 4   |
| Level of protection                                               | 3 | 8   | 8 | 4   |
| <b>Unassigned Values (e.g. Degradation risk)</b>                  |   |     |   |     |
| Deterioration of geological elements                              | 1 | 8   | 9 | 7   |
| Proximity to areas/activities with potential to cause degradation | 1 | 8   | 5 | 4   |

|                               |   |   |   |   |
|-------------------------------|---|---|---|---|
| Legal protection              | 1 | 8 | 4 | 6 |
| Accessibility                 | 2 | 8 | 6 | 7 |
| Density of population         | 1 | 2 | 4 | 4 |
| Ecological aspect             | 1 | 3 | 8 | 6 |
| Historical aspect             | 1 | 4 | 1 | 1 |
| Diversity of cultural aspects | 1 | 2 | 2 | 6 |
| Aesthetic aspect              | 1 | 8 | 3 | 7 |
| Fragility and vulnerability   | 2 | 8 | 5 | 5 |
| Observation conditions        | 1 | 8 | 8 | 8 |
| Environmental services        | 2 | 4 | 4 | 8 |
| Threats                       | 1 | 8 | 6 | 4 |
| Ecological value              | 3 | 4 | 3 | 7 |
| Socio-Economic value          | 1 | 4 | 7 | 3 |
| Economic geology              | 1 | 2 | 9 | 3 |
| Good example of process       | 1 | 8 | 6 | 7 |
| Naturalness                   | 1 | 4 | 3 | 4 |
| Landscape interest            | 1 | 8 | 4 | 9 |

**Table S2.** The attributes established in ArcGIS Online for each feature layer added to *FieldMaps* to capture geodiversity data in-field. See also, Crisp *et al.* (2021).

| Feature Layer Name           | Attribute Name | Attribute Type | Example responses                                                                                         |
|------------------------------|----------------|----------------|-----------------------------------------------------------------------------------------------------------|
| <b>Geological Structures</b> | Description    | String         | General description of feature                                                                            |
|                              | Type           | String         | Basalt, other pyroclastics, Granite, Gabbro, Dacite, Rhyolite, Pumice, Obsidian                           |
|                              | Classification | String         | Igneous – extrusive; igneous – intrusive; metamorphic – foliated; metamorphic – non-foliated; sedimentary |
|                              | Type           | String         | Cliff, Dunes, Plateau, Cave, Gully, River delta, Valley, Drainage basin, Alluvial fan.                    |
|                              | Description    | String         | General description of landform                                                                           |
|                              | Height (m)     | Integer        | Metres                                                                                                    |

|                                                    |                          |         |                                                                                                                            |
|----------------------------------------------------|--------------------------|---------|----------------------------------------------------------------------------------------------------------------------------|
| <b>Geomorphological<br/>(Landform)</b>             | Length                   | String  | An estimation of how much of the boundary is covered – full boundary, part boundary, small restricted area                 |
| <b>Lithological<br/>(Physical Characteristics)</b> | Colour                   | String  | Default = ‘Black’                                                                                                          |
|                                                    | Grain Size               | String  | V. Fine, Medium to Coarse, Coarse-Grained, Medium to V. Coarse                                                             |
|                                                    | Flow Characteristics     | String  | Pahoehoe, Aa, Pillow Lava, Block Lava                                                                                      |
|                                                    | Bedrock Type             | String  | Basalt and other pyroclastics, Slate, Conglomerate, Diorite, Granodiorite, Gneiss, Mudstone, Marble, Greenshist, Limestone |
| <b>Pedological<br/>(Soil and Stratigraphy)</b>     | Soil Classification      | String  | Vertosol, Ferrosol, Chromosols, Hydrosols, Kurosols, Organosols, Rudosols.                                                 |
|                                                    | Soil Hue                 | Integer | X                                                                                                                          |
|                                                    | Soil Chroma              | Integer | X                                                                                                                          |
|                                                    | Soil Value               | Integer | X                                                                                                                          |
|                                                    | % Sand                   | Integer | X                                                                                                                          |
|                                                    | % Silt                   | Integer | X                                                                                                                          |
|                                                    | % Clay                   | Integer | X                                                                                                                          |
|                                                    | No. of Stratified Layers | Integer | X                                                                                                                          |
|                                                    | Unconformity Present?    | String  | Yes or No                                                                                                                  |
| <b>Hydrological</b>                                | Flow Characteristics     | String  | Surface or Sub-Surface                                                                                                     |
|                                                    | Colour                   | String  | Default = ‘Clear’                                                                                                          |
|                                                    | Exit Point Height        | Double  | Metres                                                                                                                     |
|                                                    | Point Source Known?      | String  | Yes or No                                                                                                                  |
|                                                    | Turbidity                | String  | Clear, Cloudy, Very Cloudy                                                                                                 |
| <b>Erosional Landform</b>                          | Type                     | String  | Headlands, Arches, Caves, Stacks, Stumps                                                                                   |
|                                                    | Description              | String  | General description                                                                                                        |
|                                                    | Exogenic Force Type      | String  | Wind, Waves, Rain                                                                                                          |

|                              |                     |        |                                                                       |
|------------------------------|---------------------|--------|-----------------------------------------------------------------------|
| <b>Accumulation Landform</b> | Type                | String | Debris talus, Rock fall accumulations, Holocene infill, Alluvial fans |
|                              | Description         | String | General description                                                   |
|                              | Exogenic Force Type | String | Wind, Waves, Rain                                                     |

**Table S3.** The attributes established in ArcGIS Online for each feature layer added to *FieldMaps* to capture biodiversity data in-field.

| Feature Layer Name  | Attribute Name                               | Attribute Type | Example Responses                               |
|---------------------|----------------------------------------------|----------------|-------------------------------------------------|
| <b>Vegetation</b>   | Description                                  | String         | Fern – <i>Pteridium esculentum</i>              |
|                     | Interaction with Geodiversity?               | String         | Yes                                             |
| <b>Bird</b>         | Description                                  | String         | Penguin – <i>Eudyptula minor</i>                |
|                     | Location of Bird                             | String         | Coastal basalt platform                         |
|                     | Approximate distance from location point (m) | Integer        | 25                                              |
|                     | Interaction with Geodiversity?               | String         | Yes                                             |
| <b>Invertebrate</b> | Description                                  | String         | Spider                                          |
|                     | Interaction with geodiversity?               | String         | Yes                                             |
| <b>Vertebrate</b>   | Description                                  | String         | Bennett's Wallaby – <i>Macropus rufogriseus</i> |
|                     | Interaction with geodiversity?               | String         | No                                              |

**Table S4.** The Survey123 field results for each *geoconservation value* at each coastal *geoconservation site*.

| Geoheritage Values               | Selected Criteria (Criteria Rank)                                                                    | Av. Value | Date of Field Assessment |
|----------------------------------|------------------------------------------------------------------------------------------------------|-----------|--------------------------|
| <b>Don Heads Basalt Landform</b> |                                                                                                      |           |                          |
| Scientific                       | Representativeness, scientific knowledge, integrity, geological diversity, rarity, degradation, geo- | 3         | 11/9/2021<br>12/9/2021   |

|                                        |                                                                                                                                                                                                                                                                                                                                    |     |                        |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------|
|                                        | historical importance, quality, scientific worth,<br>geological history                                                                                                                                                                                                                                                            |     |                        |
| Educational                            | Vulnerability, safety, logistics, observable conditions, geological diversity, representativeness, accessibility, possibility of sampling and fieldwork, educational diversity, educational interest, exemplarity or representativeness, educational significance                                                                  | 3   | 11/9/2021<br>12/9/2021 |
| Aesthetic                              | N/A                                                                                                                                                                                                                                                                                                                                | N/A | 11/9/2021<br>12/9/2021 |
| Cultural                               | N/A                                                                                                                                                                                                                                                                                                                                | N/A | 11/9/2021<br>12/9/2021 |
| Tourism                                | Vulnerability, uniqueness, interpretive potential, proximity of recreational areas, tourist infrastructure and facilities, viewpoints, degree of degradation, observable conditions, integrity, fragility, vicinity to urban centres, vicinity to road network, capacity of site, current and potential risks                      | 2.5 | 11/9/2021<br>12/9/2021 |
| Conservation                           | Legislative protection, current threats, protected site or regime, natural variability, anthropogenic vulnerability, level of deterioration, integrity and intactness, vulnerability, accessibility, conservation status, proximity to potentially degrading zones, current condition / state of preservation, level of protection | 2.5 | 11/9/2021<br>12/9/2021 |
| <b>Mersey Bluff Pseudo Petroglyphs</b> |                                                                                                                                                                                                                                                                                                                                    |     |                        |
| Scientific                             | N/A                                                                                                                                                                                                                                                                                                                                | N/A | 4/9/2021<br>5/9/2021   |
| Educational                            | Vulnerability, safety, logistics, didactic potential, representativeness, accessibility, exposure (visibility), possibility of sampling and fieldwork, capacity or size of the site, educational interest, educational significance                                                                                                | 3.5 | 4/9/2021<br>5/9/2021   |
| Aesthetic                              | Viewpoints, structure                                                                                                                                                                                                                                                                                                              | 3   | 4/9/2021<br>5/9/2021   |
| Cultural                               | Historical, artistic                                                                                                                                                                                                                                                                                                               | 3   | 4/9/2021<br>5/9/2021   |
| Tourism                                | Vulnerability, accessibility, safety, logistics, density of population, uniqueness, integrity, fragility, annual number of visitors, attraction                                                                                                                                                                                    | 3.5 | 4/9/2021<br>5/9/2021   |
| Conservation                           | Legislative protection, protected site or regime, monthly number of visitors, level of deterioration, integrity or intactness, vulnerability, accessibility, visibility, suitable number of visitors, current condition / state of preservation, level of protection                                                               | 3.5 | 4/9/2021<br>5/9/2021   |

| <b>Penguin Megabreccia</b> |                                                                                                                                                |     |                        |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------|
| Scientific                 | Representativeness, key locality, geological diversity, rarity, use limitations, level of interpretation, special features, geological history | 3   | 18/9/2021<br>19/9/2021 |
| Educational                | N/A                                                                                                                                            | N/A | 18/9/2021<br>19/9/2021 |
| Aesthetic                  | Viewpoints, colour contrasts                                                                                                                   | 3.5 | 18/9/2021<br>19/9/2021 |
| Cultural                   | N/A                                                                                                                                            | N/A | 18/9/2021<br>19/9/2021 |
| Tourism                    | N/A                                                                                                                                            | N/A | 18/9/2021<br>19/9/2021 |
| Conservation               | Legislative protection, ecological influence, settlement proximity, accessibility                                                              | 2   | 18/9/2021<br>19/9/2021 |

**Table S5.** Omniversity ranking criteria description

| Ranking criteria                                                             | Ranking values                            |                                            |                                              |                                                    |                                                                  |
|------------------------------------------------------------------------------|-------------------------------------------|--------------------------------------------|----------------------------------------------|----------------------------------------------------|------------------------------------------------------------------|
|                                                                              | 1                                         | 2                                          | 3                                            | 4                                                  | 5                                                                |
| <b>Degree of geodiversity at site</b>                                        | Less than 15                              | Greater than 15 or less than 25            | Greater than 25 or less than 35              | Greater than 35 or less than 45                    | Greater than 45                                                  |
| <b>Degree of biodiversity at site</b>                                        | Very low species richness                 | Low species richness                       | Moderate species richness                    | High species richness                              | Very high species richness                                       |
| <b>Interaction value</b>                                                     | Between 0 and 0.2                         | Greater than 0.2 and less than 0.4         | Greater than 0.4 and less than 0.6           | Greater than 0.6 and less than 0.8                 | Greater than 0.8                                                 |
| <b>Degree to which local geodiversity underpins biodiversity at the site</b> | No dependence observed                    | Very low dependence observed               | A moderate dependence observed               | A high dependence observed                         | A very high dependence observed                                  |
| <b>Balance of geodiversity and biodiversity</b>                              | Very high difference (Low Bd and High Gd) | High difference (Medium Bd and V. High Gd) | Moderate difference (V. high Bd and high Gd) | High level of Bd and Gd similarity (V. high Gd/Bd) | Very high level of Bd and Gd similarity (values almost the same) |

**Table S6.** Omniversity conservation criteria description

| Ranking criteria |                                                                                      | Ranking values                                                                     |                                                                                                                 |                                                                                                            |                                                                                                         |                                                                                                                                     |
|------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
|                  |                                                                                      | 1                                                                                  | 2                                                                                                               | 3                                                                                                          | 4                                                                                                       | 5                                                                                                                                   |
| C1               | Species of conservation concern                                                      | No species of conservation concern found in inventory stage                        | Up to one species of conservation concern found in inventory stage (no threatened species)                      | Up to two species of conservation concern found in inventory stage (no threatened species)                 | Up to one species of conservation concern found in inventory stage (with up to one threatened species)  | More than two species of conservation concern (with up to one threatened species)                                                   |
| C2               | Degree to which species of conservation concern interact with local geodiversity     | Very low dependence on local geodiversity                                          | Low dependence on local geodiversity                                                                            | Moderate dependence on local geodiversity                                                                  | High dependence on local geodiversity                                                                   | Very high dependence on local geodiversity                                                                                          |
| C3               | Link between local geodiversity and importance to life history stage of biodiversity | Very low link to life history stage                                                | Low link to life history stage                                                                                  | Moderate link to life history stage                                                                        | High link to life history stage                                                                         | Very high link to life history stage                                                                                                |
| C4               | Representativeness                                                                   | The site is not a representative interaction between geodiversity and biodiversity | Very few features at the site are representative of the interaction between geodiversity and biodiversity       | Some features are representative of the interaction between geodiversity and biodiversity                  | Many features at the site are representative of the interaction between geodiversity and biodiversity   | The site is very highly representative of the interaction between geodiversity and biodiversity (all or most features exhibit link) |
| C5               | Uniqueness and rarity of habitat                                                     | Habitat is not unique and rare and does not support threatened or endemic species  | Habitat exhibits low uniqueness and rarity and unlikely that threatened species are dependent upon this habitat | Habitat exhibits some uniqueness and rarity and could be important to endemic and restricted-range species | Habitat exhibits uniqueness and rarity and could be important to endemic and restricted-range species   | Habitat of significant uniqueness and rarity and could be of significant importance to endangered or threatened species             |
| C6               | Restricted-range species                                                             | No-restricted range species                                                        | Species with a restricted range greater than 50,000km <sup>2</sup> but no more than 100,000km <sup>2</sup>      | Species with a restricted range greater than 50,000km <sup>2</sup> but no more than 80,000km <sup>2</sup>  | Up to two restricted-range species present with an extent of occurrence less than 50,000km <sup>2</sup> | More than two restricted-range species present with an extent of occurrence less than 50,000km <sup>2</sup>                         |

**Geoconservation Research Volume 5 / Issue 1 2022/ Supplementary File 1**  
**Crisp: Omniversity Consolidation of Conservation Assessment**

|            |                                                                                                     |                                                                                                                |                                                                                                                 |                                                                                                                             |                                                                                                              |                                                                                                                        |
|------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>C7</b>  | <b>Ecological integrity</b>                                                                         | Very low ecological integrity                                                                                  | Low ecological integrity                                                                                        | Moderate ecological integrity                                                                                               | High ecological integrity                                                                                    | Very high ecological integrity                                                                                         |
| <b>C8</b>  | <b>Extent to which ecological integrity depends on local geodiversity conservation</b>              | Very low dependence on local geodiversity                                                                      | Low dependence on local geodiversity                                                                            | Moderate dependence on local geodiversity                                                                                   | High dependence on local geodiversity                                                                        | Very high dependence on local geodiversity                                                                             |
| <b>C9</b>  | <b>Vulnerability of species with geodiversity degradation at the site (no geoconservation site)</b> | Biodiversity is not vulnerable to geodiversity degradation (no sensitivity to absence of geoconservation site) | Biodiversity is not vulnerable to geodiversity degradation (low sensitivity to absence of geoconservation site) | Biodiversity is moderately vulnerable to geodiversity degradation (moderate sensitivity to absence of geoconservation site) | Biodiversity is vulnerable to geodiversity degradation (highly sensitive to absence of geoconservation site) | Biodiversity is very vulnerable to geodiversity degradation (very highly sensitive to absence of geoconservation site) |
| <b>C10</b> | <b>Vulnerability of species if scientific values absent</b>                                         | Biodiversity has very low vulnerability in the absence of scientific value                                     | Biodiversity has low vulnerability in the absence of scientific value                                           | Biodiversity is moderately vulnerable to the absence of scientific value                                                    | Biodiversity is highly vulnerable to the absence of scientific value                                         | Biodiversity is very highly vulnerable to the absence of scientific value                                              |
| <b>C11</b> | <b>Vulnerability of species if educational values absent</b>                                        | Biodiversity has very low vulnerability in the absence of education value                                      | Biodiversity has low vulnerability in the absence of education value                                            | Biodiversity is moderately vulnerable to the absence of education value                                                     | Biodiversity is highly vulnerable to the absence of education value                                          | Biodiversity is very highly vulnerable to the absence of education value                                               |
| <b>C12</b> | <b>Vulnerability of species if tourism value absent</b>                                             | Biodiversity has very low vulnerability in the absence of tourism value                                        | Biodiversity has low vulnerability in the absence of tourism value                                              | Biodiversity is moderately vulnerable to the absence of tourism value                                                       | Biodiversity is highly vulnerable to the absence of tourism value                                            | Biodiversity is very highly vulnerable to the absence of tourism value                                                 |
| <b>C13</b> | <b>Vulnerability of species if aesthetic values absent</b>                                          | Biodiversity has very low vulnerability in the absence of aesthetic value                                      | Biodiversity has low vulnerability in the absence of aesthetic value                                            | Biodiversity is moderately vulnerable to the absence of aesthetic value                                                     | Biodiversity is highly vulnerable to the absence of aesthetic value                                          | Biodiversity is very highly vulnerable to the absence of aesthetic value                                               |
| <b>C14</b> | <b>Table</b>                                                                                        | Biodiversity has very low vulnerability in the absence of conservation value                                   | Biodiversity has low vulnerability in the absence of conservation value                                         | Biodiversity is moderately vulnerable to the absence of conservation value                                                  | Biodiversity is highly vulnerable to the absence of conservation value                                       | Biodiversity is very highly vulnerable to the absence of conservation value                                            |
|            |                                                                                                     | Biodiversity has very low                                                                                      | Biodiversity has low                                                                                            | Biodiversity is moderately                                                                                                  | Biodiversity is highly                                                                                       | Biodiversity is very highly                                                                                            |

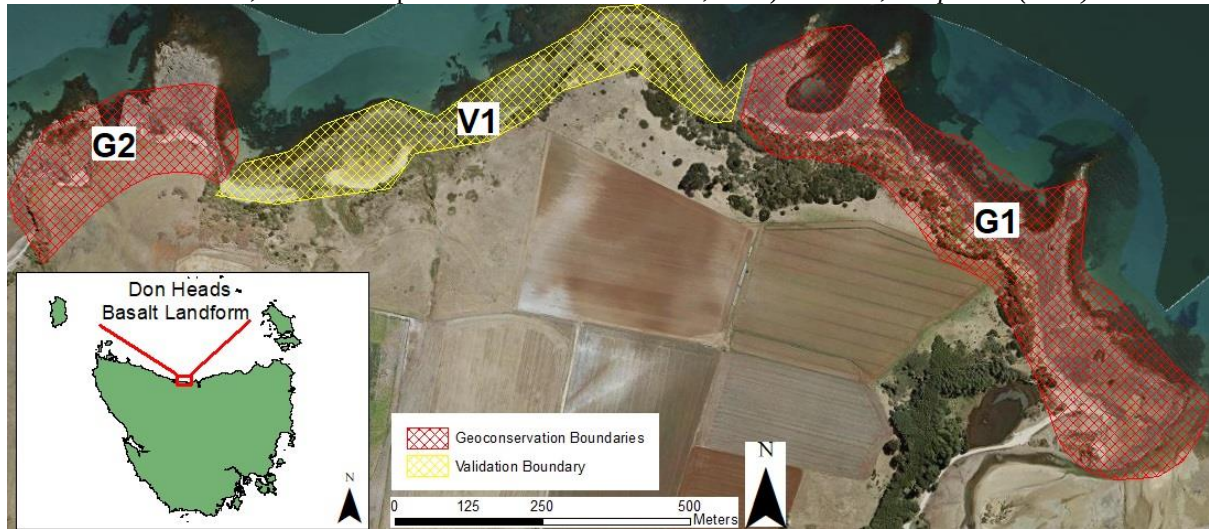
|            |                                                                               |                                                |                                                |                                             |                                             |                                             |
|------------|-------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|
| <b>C15</b> | <b>Vulnerability of species if cultural values absent</b>                     | vulnerability in the absence of cultural value | vulnerability in the absence of cultural value | vulnerable to the absence of cultural value | vulnerable to the absence of cultural value | vulnerable to the absence of cultural value |
| <b>C16</b> | <b>Fragility and sensitivity of habitats if geodiversity is not conserved</b> | Very low dependence on local geodiversity      | Low dependence on local geodiversity           | Moderate dependence on local geodiversity   | High dependence on local geodiversity       | Very high dependence on local geodiversity  |

\*M = C1 – C16 present if omniversity is rated as high to very high. With moderate omniversity, C10-C16 are present. None of the above criteria are used with low to very low omniversity value.

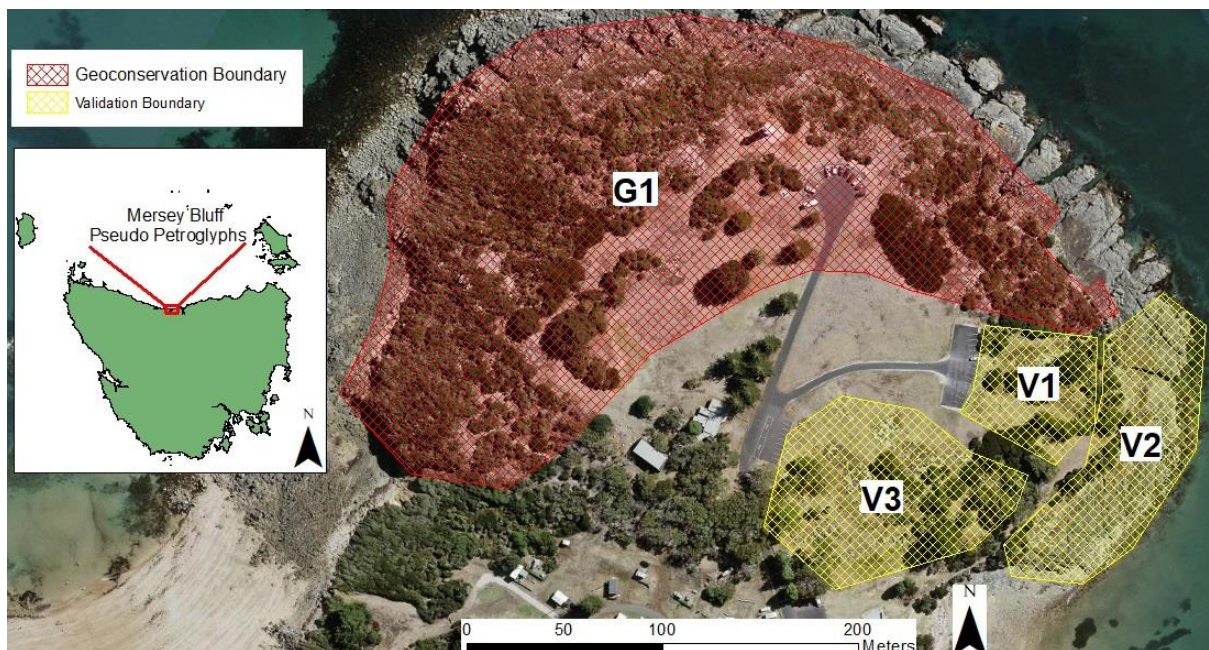
**Table S7.** Sum of geodiversity and biodiversity spatially located point features captured from ArcGIS FieldMaps. **Note:** Acronyms in brackets identify feature types from map figures

| <b>Site 1 – Don Heads Basalt Landform</b>       |    |
|-------------------------------------------------|----|
| <b>Geodiversity spatial data</b>                |    |
| Erosional landforms (EAL)                       | 20 |
| Soil and stratigraphy (SS)                      | 4  |
| Geomorphological (G)                            | 19 |
| Accumulation landforms (EAL)                    | 7  |
| Hydrological (H)                                | 6  |
| Geological structures (GS)                      | 12 |
| <b>Biodiversity spatial data</b>                |    |
| Vegetation (V)                                  | 95 |
| Invertebrate (INV)                              | 69 |
| Bird (BD)                                       | 8  |
| Vertebrate (T)                                  | 35 |
| <b>Site 2 – Penguin Megabreccia</b>             |    |
| Erosional landforms (EAL)                       | 9  |
| Soil and stratigraphy (SS)                      | 1  |
| Geomorphological (G)                            | 5  |
| Accumulation landforms (EAL)                    | 3  |
| Hydrological (H)                                | 6  |
| Geological structures (GS)                      | 26 |
| <b>Biodiversity spatial data</b>                |    |
| Vegetation (V)                                  | 74 |
| Invertebrate (INV)                              | 43 |
| Bird (BD)                                       | 9  |
| Vertebrate (T)                                  | 12 |
| <b>Site 3 – Mersey Bluff Pseudo-Petroglyphs</b> |    |
| <b>Geodiversity spatial data</b>                |    |
| Erosional landforms (EAL)                       | 1  |
| Soil and stratigraphy (SS)                      | 2  |
| Geomorphological (G)                            | 3  |
| Accumulation landforms (EAL)                    | 0  |
| Hydrological (H)                                | 1  |
| Geological structures (GS)                      | 16 |
| <b>Biodiversity spatial data</b>                |    |
| Vegetation (V)                                  | 69 |
| Invertebrate (INV)                              | 15 |
| Bird (BD)                                       | 7  |
| Vertebrate (T)                                  | 15 |

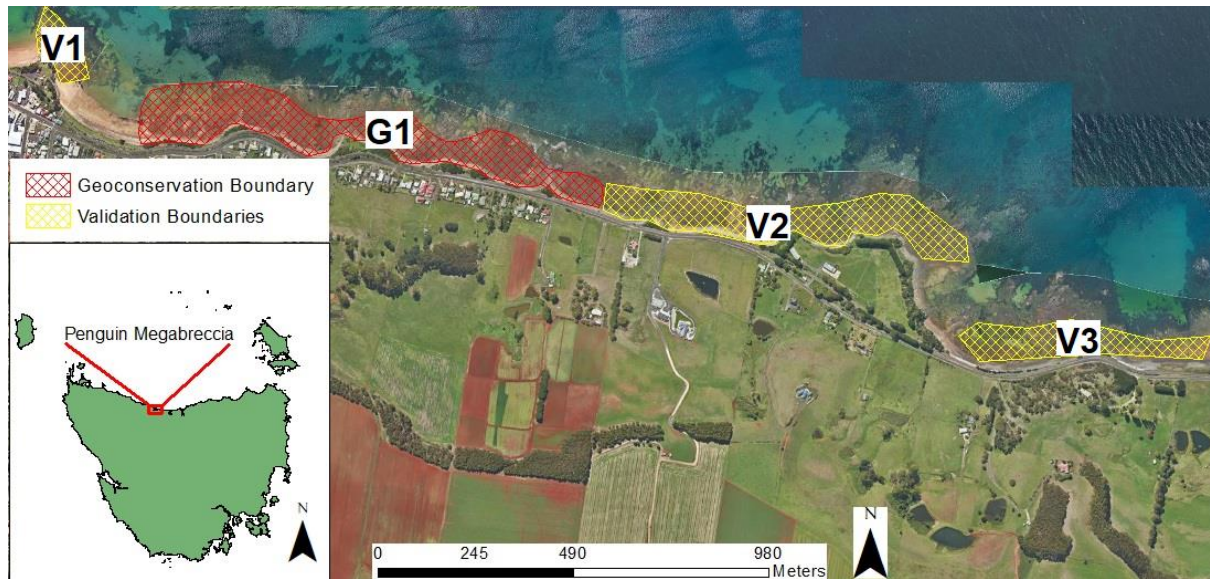
**Figure S1.** The polygonal boundaries (G1-2) of the Don Heads Basalt Landform geoconservation site and established validation boundary (V1) (**Sources:** 1. Aerial Imagery - DPIPWE, 2014. 2. Geoconservation site boundaries – DPIPWE, 2016. 3. Shapefile of Tasmania - DISER, 2020). See also, Crisp et al. (2021).



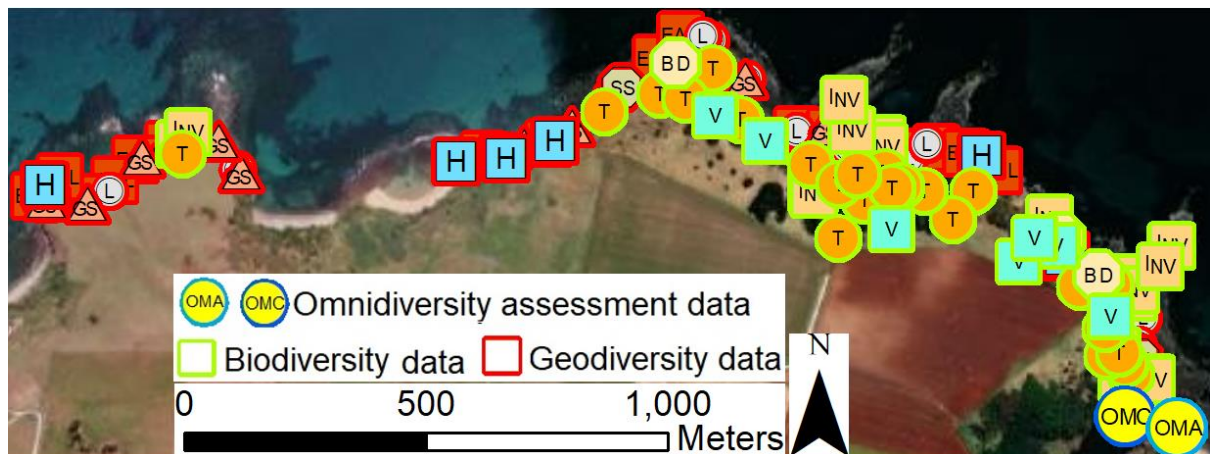
**Figure S2.** The geoconservation (G1) and validation boundaries (V1-3) at the Mersey Bluff Pseudo Petroglyphs geoconservation site (**Sources:** 1. Aerial Imagery - DPIPWE, 2014. 2. Geoconservation site boundaries – DPIPWE, 2016. 3. Shapefile of Tasmania - DISER, 2020). See also, Crisp et al. (2021).



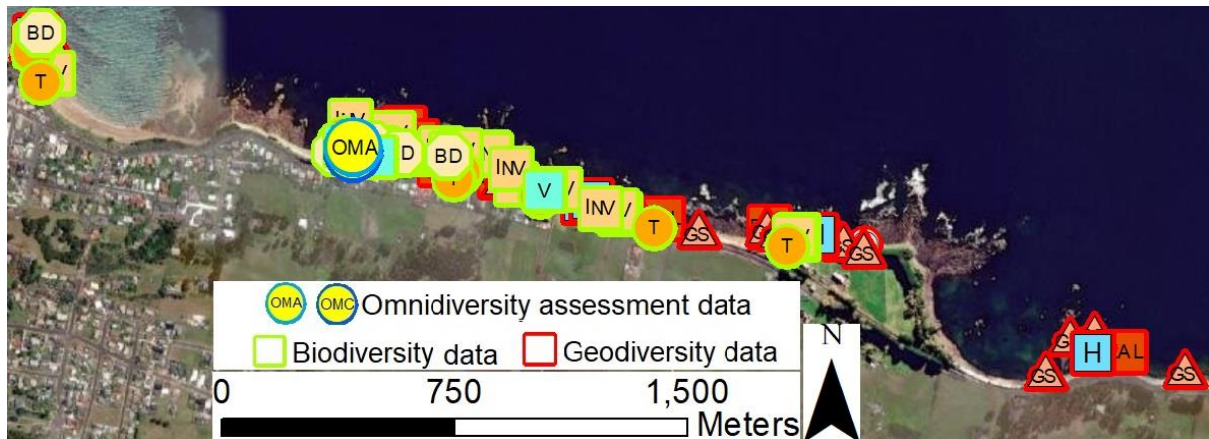
**Figure S3.** The geoconservation (G1) and validation boundaries (V1-3) at the Penguin Megabreccia geoconservation site (**Sources:** **1.** Aerial Imagery - DPIWE, 2014. **2.** Geoconservation site boundaries – DPIWE, 2016. **3.** Shapefile of Tasmania - DISER, 2020). See also, Crisp et al. (2021).



**Figure S4.** Example of all data captured from ArcGIS Survey123 and FieldMaps compiled into one map at Don Heads Basalt Landform geoconservation site, uploaded to ArcGIS Online, with geodiversity, biodiversity and omnidiversity assessment attributes included (© ESRI background aerial imagery). **Note:** Some biodiversity point features were in close proximity and are impossible to delineate from the figure; see Table S7 for count of point features.



**Figure S5.** Example of all data captured from ArcGIS Survey123 and FieldMaps compiled into one map at Penguin Megabreccia geoconservation site, uploaded to ArcGIS Online, with geodiversity, biodiversity and omniversity assessment attributes included (© ESRI background aerial imagery). **Note:** Some biodiversity point features were in close proximity and are impossible to delineate from the figure; see Table S7 for count of point features.



**Figure S6.** Example photographs demonstrating the process to count the number of visible interactions between biodiversity and geodiversity (Bd → Gd). **A** – Example of the interaction between local geodiversity at Penguin Megabreccia geoconservation site and *Astrofestuca* biodiversity. **B** – Example of the interaction between local geodiversity at Penguin Megabreccia geoconservation site and local seaweed biodiversity, with holdfast attached to rock fragment **C** – Another interaction between coastal rocky shore and local vegetation biodiversity at Penguin Megabreccia geoconservation site. **D** – Interaction between seagrass and rock pool at Don Heads Basalt Landform geoconservation site.

