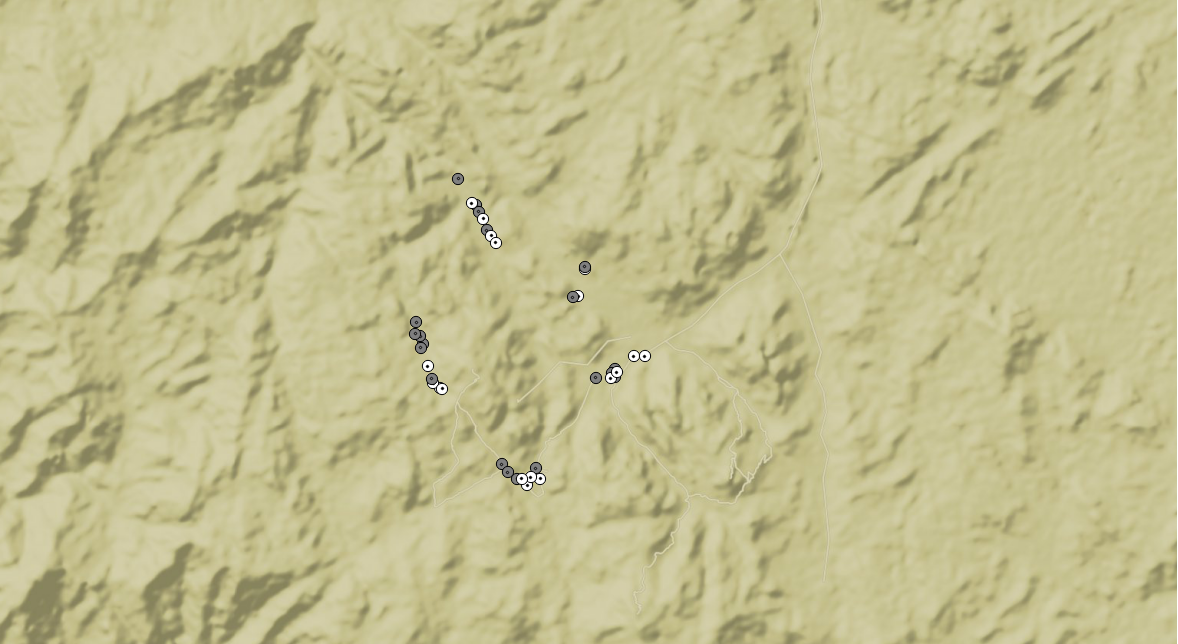
**Table S1.** List of plants species and their geographic range and distributions, ranked according to the number of pollinator visits that they received. (r= restricted, R = regional, W= widespread)

|  |  |  |  |
| --- | --- | --- | --- |
| **Species** | **N visits** | **Geographic range** | **Distribution** |
| *Achillea santolina* L. | 106 | R | Middle East, Med. |
| *Foeniculum vulgare* Mill. | 59 | W | Middle East, N. Africa, Med., Europe |
| *Caylusea hexagyna* (Forssk.) M.L.Green | 58 | R | Middle East, N. Africa |
| *Zilla spinosa* (L.) Prantl | 52 | R | Middle East, N. Africa |
| *Stachys aegyptiaca* Pers. | 37 | r | Middle East (Egypt, Israel, Jordan) |
| *Anchusa milleri* Spreng. | 34 | r | Middle East |
| *Diplotaxis harra* (Forssk.) Boiss. | 33 | W | Middle East, N. Africa, Europe, Asia |
| *Peganum harmala* L. | 32 | W | Middle East, N. Africa, Med., Europe |
| *Alkanna orientalis* (L.) Boiss | 26 | R | Middle East, N. Africa, Med. |
| *Punica granatum* L. | 25 | r | Middle East |
| *Tanacetum sinaicum* (Fresen.) Decne. ex K. Bremer and C.J.Humphries | 25 | r | Middle East (Sinai, Israel, Saudi Arabia) |
| *Eruca sativa* Mill. | 23 | W | Middle East, N. Africa, Med., Europe, Asia |
| *Allium cepa* L. | 12 | W | Middle East, Med., Europe, Afirca, Asia |
| *Alcea rosea* L. | 11 | W | Widespread |
| *Ballota undulata* (Fresen.) Bentham | 11 | r | Middle East |
| *Mesembryanthemum sp.* | 11 | W | Africa |
| *Mentha longifolia schimperi* (Briq.) Briq. | 9 | R | Middle East, Med. |
| *Origanum syriacum sinaicum* L. | 8 | r | Middle East (Egypt) |
| *Echinops glaberrimus* DC. | 7 | r | Middle East (Egypt, Israel, Jordan) |
| *Medicago sativa* L. | 7 | W | Asia, Middle East, N. Africa, Med., Europe |
| *Launaea nudicaulis* (L.) Hook.f. | 6 | R | Middle East, N. Africa |
| *Carduus getulus* Pomel | 5 | R | Middle East, N. Africa |
| *Arabidopsis kneuckeri* (Bornm.) Schulz | 5 | r | Middle East |
| *Anarrhinum pubescens* Fresen | 4 | r | Middle East (Egypt) |
| *Fagonia mollis* Delile | 4 | r | Middle East (Egypt, Israel) |
| *Gypsophila capillaris* (Forssk.) | 4 | r | Middle East |
| *Lappula sinaica* (DC.) Asch. & Schweinf | 4 | R | Middle East, Pakistan |
| *Nicotiana rustica* L. | 4 | W | South American |
| *Arnebia hispidissima* (Lehm.) DC. | 3 | W | Widespread |
| *Centaurea scoparia* Sieber ex Spreng. | 3 | r | Middle East |
| *Hyoscyamus boveanus* (Dunal) Asch. & Schweinf. | 3 | r | Middle East (Egypt) |
| *Monsonia nivea* (Decne.) Decne. ex Webb | 3 | R | Middle East, N. Africa |
| *Bituminaria bituminosa* (L.) C.H.Stirt. | 2 | W | Mediterranean, Asia |
| *Cucurbita pepo* L. | 2 | W | Asia |
| *Gomphocarpus sinaicus* Boiss. | 2 | r | Middle East |
| *Matthiola longipetala* (Vent.) DC. | 2 | W | Middle East, N. Africa, Europe |
| *Oligomeris linifolia* (Vahl) J.F.Macbr. | 2 | W | Widespread |
| *Salvia officinalis* L. | 2 | R | Med. |
| *Vitis vinifera*L. | 2 | W | Med., Europe |
| *Borago officinalis* L. | 1 | W | Middle East, N. Africa, Med., Europe |
| *Capparis spinosa* L. | 1 | W | Med., Asia |
| *Chenopodium album* L. | 1 | W | Widespread |
| *Colutea istria* Mill. | 1 | r | Middle East |
| *Convolvulus arvensis* L. | 1 | W | Widespread |
| *Crepis sancta* (L.) Bornm. | 1 | W | Med., Asia |
| *Diplotaxis acris* (Forssk.) Boiss | 1 | W | S. America |
| *Hyoscyamus pusillus* L. | 1 | W | Middle East, Asia |
| *Isatis lusitanica*L. | 1 | R | Middle East, N. Africa |
| *Launaea spinosa* (Forssk.) Kuntze | 1 | r | Middle East (Egypt, Israel, Jordan) |
| *Lavandula pubescens* Decne | 1 | W | Middle East, Asia |
| *Limonium* sp. | 1 | W | Med., Asia |
| *Ochradenus baccatus* Delile | 1 | R | Middle East, N. Africa, E. Africa |
| *Portulaca oleracea* L. | 1 | W | Middle East, N. Africa, Europe |
| *Rosa canina* L. | 1 | R | Middle East, N. Africa, Med. |
| *Rosmarinus officinalis* L. | 1 | W | N. Africa, Med., Europe |
| *Salvia multicaulis* Vahl | 1 | r | Saharo-Arabian |
| *Solanum nigrum* L. | 1 | W | S. America |
| *Verbascum sinaiticum* Benth. | 1 | r | Middle East (Sinai, Israel, Jordan) |

**Table S2.** List of bee species and their geographic ranges and distributions. Species are listed within family and ranked according to the total number of interactions that were observed. (r= restricted, R = regional, W= widespread).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **N visits** | **Observed flight period** | **Geographic range** | **Distribution** |
| **APIDAE** |  |  |  |  |
| *Apis mellifera* L. | 126 | April-July | W | Middle East, Africa, Asia, Europe, America |
| *Anthophora* Sinai sp1 | 57 | April-May | r | Middle East (Sinai) |
| *Anthophora pauperata* Walker | 52 | April | r | Middle East (Sinai, Saudi Arabia) |
| *Amegilla mucorea* (Klug) | 18 | May-July | W | Middle East, N. Africa, Asia |
| *Xylocopa sulcatipes* Maa | 17 | April-July | W | Middle East, N. Africa, S. Africa, Asia |
| *Anthophora crassipes* Lepeletier | 16 | April-May | W | Middle East, Med., Europe |
| *Anthophora concinna*  (Klug) | 12 | May-July | r | Middle East, Med. |
| *Amegilla cognata*(Smith) | 12 | May-July | W | Middle East, Europe |
| *Anthophora alternans* (Klug) | 6 | April-June | R | Middle East, N. Africa |
| *Amegilla savignyi* (Lepeletier) | 6 | April-July | W | Middle East, N. Africa, Europe |
| *Anthophora hermanni* Schwarz & Gusenleitner | 4 | April-May | r | Middle East (Egypt) |
| *Apis cerana* L. | 1 | May | W | Asia |
| **COLLETIDAE** |  |  |  |  |
| *Hylaeus sinaiticus* (Alfken) | 38 | April-July | r | Middle East (Sinai) |
| *Colletes perezi* Morice | 11 | May-July | R | Middle East, N. Africa |
| *Hylaeus oliviae* (Dathe) | 10 | June-July | r | Middle East (Sinai) |
| *Hylaeus xanthopoda* (Vachal) | 9 | April-May | R | Middle East, N. Africa |
| *Colletes nanus* Friese | 3 | July | R | Middle East, N. Africa |
| *Colletes tuberculatus* Morawitz | 3 | June-July | W | Middle East, Europe, Asia |
| *Colletes pumilus* Morice | 1 | May | W | Middle East, N. Africa, Europe |
| **HALICTIDAE** |  |  |  |  |
| *Halictus gemmellus* Pauly | 75 | April-July | W | Middle East, N. Africa, Europe |
| *Nomioides turanicus* Morawtiz | 28 | June-July | R | Middle East, N. Africa |
| *Halictus tibialis* Walker | 17 | May-July | r | Middle East (Egypt, Israel, Tibesti, Yemen) |
| *Halictus pici falx* Ebmer | 14 | June-July | R | Middle East, N. Africa |
| *Nomioides squamiger* Saunders | 6 | July | R | Middle East, N. Africa |
| *Lasioglossum collopiense* (Pérez, 1903) | 3 | July | R | Middle East, N. Africa, Med |
| *Lasioglossum erraticum* (Blüthgen) | 2 | July | R | Middle East, Med. |
| *Lasioglossum subaenescens asiaticum* (Dalla Torre) | 2 | April-May | W | Middle East, Med., Europe, Asia |
| *Nomioides rotundiceps* Handlirsch | 2 | June | R | Middle East, N. Africa |
| *Pseudapis nilotica* (Smith ) | 2 | July | R | Middle East, N. Africa |
| *Lasioglossum kowitense* (Cockerell) | 1 | May | R | Middle East, N. Africa |
| **MEGACHILIDAE** |  |  |  |  |
| *Megachile walkeri* Dalla Torre | 44 | April-July | r | Middle East (Egypt, Saudi Arabia, Oman) |
| *Hoplitis hofferi* Tkalců | 34 | April-June | r | Middle East (Egypt, UAE) |
| *Megachile insignis* van der Zanden | 10 | May-July | R | Middle East, Med. |
| *Megachile* Sinai sp1 | 7 | Male |  |  |
| *Osmia laticella* van der Zanden | 6 | April | r | Middle East (Egypt, Israel) |
| *Hoplitis africana* (Warncke) | 4 | April | R | Middle East, N. Africa |
| *Megachile concinna* Smith | 3 | April-June | W | Middle East, Med., Europe, N. America |
| *Hoplitis gerofita* (Warncke) | 2 | April-May | r | Middle East (Sinai, Israel, Jordan) |
| *Hoplitis epeoliformis* (Ducke) | 2 | May | R | Middle East, N. Africa |
| *Megachile tenuistriga* Alfken | 2 | July | R | Middle East, Med. |
| *Megachile doriae* Magretti | 1 | June | R | Middle East, Med. |
| *Megachile flabellipes* Pérez | 1 | June | W | Middle East, Med., Europe |
| *Megachile inexspectata* Rebmann | 1 | June | R | Middle East, N. Africa |
| *Megachile minutissima* Radoszkowski | 1 | May | W | Middle East, N. Africa, S. Africa |
| *Osmia alfkenii* Ducke | 1 | April | R | Middle East, N. Africa, Med. |
|  |  |  |  |  |



**St Katherine Town**

**Wadi Itlah**

**Wadi Tinya**

**Wadi Gebel**



**St Katherine**

**Figure S1.** Map of the study site in St Katherine. Circles show the location of the survey plots in the low mountains (Wadi Itlah and St Katherine Town) and the high mountains (Wadi Tinya and Wadi Gebel). Grey circles indicate plots within orchard gardens, white circle indicates those in unmanaged habitat.



**Figure S2.** The combined visitation network in St Katherine. White nodes (left) represent pollinator species, black nodes (right) represent plant species and connecting lines represent plant-pollinator interactions. Width of the nodes and lines represents the number of interactions.



**ALow mountainBHigh mountain**



DCA Axis 1 (17%)

DCA Axis 2 (6%)

**Figure S3.** Detrended Correspondence Analysis of floral traits of plant species with a range-restricted (pale grey), regional (medium grey) and widespread (black) distribution.