

Sierra Madre Oriental

Mexico's Mysterious East

A Greentours Trip Report

1st - 16th November 2024

Led by Chris Gardner & Eric Miranda

Day 1 Arrival in Mexico

Our first hotel was only five minutes from the airport but the extra heavy traffic because of Day of the Dead celebration meant it took longer. Nonetheless we arrived in enough time to have our first taste of rich and varied Mexican cuisine.

Day 2 Bernal Pueblo Magico and to Jalpan in the Sierra Gorda

Today was about getting ourselves north into the Sierra Gorda. The traffic was again extra heavy and it took all morning before we reached Bernal Pueblo Magico. The large monolith rose up above the colourful town with painted churches and decorated streets that were filled with locals enjoying the weekend festivities. We made our way through to the plaza and then our restaurant tucked away on a side street. Here we were treated to tasty gorditos. Afterwards we bought some delicious local breads with various sweet fillings and toppings and then walked back to the car cameras clicking and painted people, places and souvenir stalls.

From here we quickly entered cactus country with many architectural plants scattered across the plain and then the rocky hills as we climbed and descended, stopping along the road where it seemed quite flowery with various daisies and naturalised *Aloe vera*, which was magnet for butterflies beginning with a pristine long-tailed skipper *Urbanus proteus*. Many more butterflies were quickly evident, and we saw the rather striking southern dogface *Colias cesonia*, dainty sulphur *Nathalies iole*, American snout, red-crescent hairstreak and mallow scrub-hairstreak and a male Empress Laelia *Asterocapma laeilia* was poised on a branch in the shade opening and closing his wings. A rough track led a little further where Lynn, Keith and I found at least six species of cacti with the tall organ pipes of *Stenocereus dumortieri*, the stems scarred and gracefully patterned, broad spreading plants of *Myrtillocactus geometricans* and the more modest and irregular *Cylindropuntia imbricata* the branches laden with developing fruits. More butterflies were found (and assassin bugs) including a lot of casualties along the roadside, though the white-patched skipper *Chiomara asychis* we saw looked well enough.

A second stop was to look at the huge barrels of *Echinocactus platyacanthus* which grew on a stony ridge with a small specimen of *Ferocactus latispinus* and the pretty white-spined *Mammillaria* af. *muehlenpfortii* and near spineless disc of *Strombocactus disciformis*, with white toothed *Agave xyloacantha* scattered about beneath the leafless, gangly stems of *Fourqieria macdougallii*. The

yellow-spined pads of *Opuntia microdasys* were also common and we found fruiting *Cylindropuntia leptocaulis*, *Mammillaria* sp. and an assortment of undeterminable cacti scattered among the scrub. More time could easily have been spent exploring these superb cactus fields, but we had to move on, stopping for a short time for a gigantic specimen of *Echinocactus platyacanthus* growing in a very spiny collection of shrubs and the bromeliad *Hechtia lepidophylla*. The peculiar, inflated fruits of *Cardiospermum halicacabum* hung from scrambling vines.

Sadly, the slow traffic came home to roost now and we could only admire the rivers of golden daisies that painted the rocky hillsides golden punctuated with more, big *Agave* sp. as well as an assortment of colourful flowers. The ride took a spectacular route up and over the mountain with fine sunset views across the silhouetted ridges before reaching the misty realms of pines and oaks. The light had closed in by the time we descended to Jalpan and our (changed) hotel. Dinner was in a breezy spot overlooking the town lights below.

Day 3 Cascada El Chuveje & Tancama.

A very productive day began on the quiet side road that led to the Cascada El Chuveje. Whilst Eric and Beto prepared breakfast, we had look around along the road finding the first butterflies with tiny Elf, Carolina satyr, ardent crescent *Phycoides ardys*, and zebra heliconian, as well as several colourful plants from wild runner beans to showy rich violet-blue *Salvia* sp. and another paler blue species too. The musical notes of a blue mockingbird revealed its presence, and we got brief views as it skulked in the branches of a large shrub. Breakfast included some of the delicious bread we had bought yesterday together with yogurt, fruit and coffee. Walking a bit further down the road afterwards there were the gorgeous deep pink flowers of *Achimenes grandiflora*, graceful maidenhair ferns, the unusual reddish flowers of *Cuphea hookeriana*, *Calceolaria tripartita*, the first of many crimson patches and a rusty-tipped page. A little further along the road and Keith spotted some wonderful *Laelia anceps* in a tree, with several plants growing along the boughs of a large oak.

We continued to the entrance for the water (and Sierra Gordo reserve) and began our slow walk, taking three hours to reach the falls even though they were only 1200 metres away. There was so much to see, beginning with a strong-flying blue-winged grasshopper, an acorn woodpecker and then an abundance of ardent crescent and crimson patch sprinkled with the falcate metalmark and common banner *Epiphile adrasta*, whilst a pair of mating damselflies were posed artistically within some chain link fence. A large grasshopper flew to the top of a small tree and from there began a remarkable display, repeatedly shuffling its bright red wings. In the shade of the huge spreading oaks plants were rich and varied with a succession of interesting and colourful gesneriads; scarlet-red *Achimenes erecta*, tall orange *A. antirrhina* and a third unknown pink species, together with masses of interesting ferns such as *Llavea cordifolia* and shiny-leaved *Tectaria heracleifolia*, the slender stems of *Echeandia flavescens* with pendent yellow flowers and the large leaved orchid; *Govenia alba* with white flowers. The latter came just as we reached the river flanked by majestic Mexican plane trees, the alabaster trunks beautifully marble, flanked by the architectural foliage of *Oreopanax xalapensis* and the tall canopies creating a soft glowing light to the series of weirs that tumbled along the river. Reaching the river banks the bright blue damselfly; *Argia anceps* was seen, and a bit further up was a Armerican rubyspot *Haeterina americana* and the handsome great spreadwing damselfly *Archilestes grandis* with a white tip to its abdomen. A lovely superb cycadian *Eumaeus childrenae* was seen on a side track too shortly before we saw a female *Dircenna klugii* egg-laying. Photographing some dazzling Gilbert's flasher (*Telegonus alector*) I flushed a green tree frog,

which then posed well on some moss. The falls themselves were picturesque with a fierce central cascade rushing over developing tufa into a blue pool. More mating damselflies were seen here before we began our walk back, seeing a vibrant *Achimenes patens* in the sun, lots more common banners, which seemed especially fond of pig poo.

There followed an excellent lunch, coffee and another tasty, sweet bread. A final walk along another section of road found an abundance of red patches together with theona checkerspot *Chlosyne theona*, the odd *Diaethria pandama* and a female *Lasaia agesilas*. We had hoped to find some more areas where the water crossed the road to attract some mud-puddling butterflies in the sun, but by now much of the track was in shade. No matter, there was time to go onto Tancama, a local archaeological site. Driving back down the winding road and into more open countryside. However, even though our information said it closed at 5 p.m. it shut earlier. We could make out one or two pyramids and instead looked around the surrounding area passing under some huge *Opuntia* and into a grassy area. Huge yellow daisy *Tithonia tubaeformis* rocketed up to several metres tall, there was a small 'painted' grasshopper, a female ladder-backed woodpecker, great kiskadee and tropical kingbird. Walking a little further we then found a female wasp spider sitting astride a large silken boss in the centre of her web. She was feeding on a recently captured morsel, but what happened next was remarkable. A much smaller male spider approached, and she began violently shaking the web and doing whatever she could to deter his approaches, even flicking him away with a leg at one point. This was repeated a couple more times, each time successfully deterring the male, although he seemed persistent and in for the long haul. Time was moving on and we had leave so we'll never know if he made or was the next meal. Fortunately, we found an easier less bumpy route out, passing fields of the agaves grown to make tequila.

Day 4 Santa Clara River, Jalpan Reservoir and Edward James Garden.

A day of varied habitats began with a drive to a riverside area, passing a rather battered stand of *Taxodium mucronatum* on the way (apparently pest insects are killing them off). There were good views from the bridge and down by the river was a multitude of American ruby-spot damselflies with dozens poised on slender grass stems. A little further on we found a few unusual blue millipedes and the first of many long-tailed skippers appeared too. Spotted sandpiper and black phoebe were seen well along the river. Eric prepared some excellent avocado omelettes for breakfast and then we had a walk in the other direction, finding ovipositing roseate skimmers, many more skippers, a Guatemalan daggerwing and a jazzy leafwing.

Returning to Jalpan we arrived at the reservoir in much warmer weather. A pair of flycatchers (*Empidonax* sp) were by the water, lizards were on the tree, the waters were filled with shoals of cichlids and rasboras and butterflies were constantly drifting across. Of those that settled we had a good look at green, yellow angled-sulphur *Anteos maerula* and walking up the road a white-flowered shrub attracted a large black longhorn beetle, ruddy daggerwing *Marpesia petreus* and in shadier spots we had excellent views of Mexican bluewing *Myscelia ethusa* revealing its stunning upper side, as well as grey cracker. Adjacent trees came alive with a flock of black-crested titmouse accompanied by blue-grey gnatcatchers and the latter moved further up the road to where more leafwings had been drawn to a stream of water. Shrubs of the elm-relative *Karwinskia humboldtsiana* were laden with papery fruits. Walking back, I caught sight of a common banner flying along the bank and we managed to find it resting in a shade under the bank. Little blue heron, cattle egret and great kiskadee were also seen, but overall, the birdlife was muted.

After a good lunch in the shade, we drove on through dramatic hills clad in thorn-scrub that slowly transitioned to greener juniper and pine and then lower down into lush sub-tropical woods, the roadsides filled with big-leaved begonias and countless daisies. We checked in at our hotel and then made our way the short distance to the singular creation that is Edward James Garden. Art is subjective so I'll say no more, but regardless the garden was jam-packed with luxuriant vegetation and we spent well over an hour wandering slowly through finding a succession of interesting things from the many wedge-tailed sabrewing, a long-bodied helicopter damselfly, glasswings and a split-banded owl *Opsiphanes cassinia* teased us by landing and moving several times, but the many well-pattered orb-web spiders proved to be better subjects. An interesting caterpillar was followed by the mini-beast of the day, when a worker brought in a pair of hefty mating horse lubber grasshoppers (*Romalea centurio*) which posed very well for photos. We wandered back to the hotel along the well-vegetated road finding more caterpillars and hummingbird hawkmoth feeding on the flamboyant flowers of *Callandria grandiflora* and arriving at the hotel Montezuma's oropendulas were displaying in a tree. There was time to relax looking out over the green hills before dinner.

Day 5 Balneario de Tambaque & Sotano de las Golondrinas

Morning coffee was decidedly lukewarm, but luckily it was not an omen for the day. Looking out from the veranda there was not much movement, but plenty of noise. The road seemed a better option and we picked up a flock of chuckling plain chachalacas before we'd reached the gate together with melodious blackbird, masked tityra and buff-throated saltatory, the latter two feeding in a fruiting tree. Just after the first bend a tall tree in a garden had a thriving Montezuma's oropendola colony with many birds perched and some displaying, though the colony was not active yet (usually there is a constant toing and froing of birds to and from their nests). Hooded oriole was also seen nearby. A bit further on and more chachalacas were joined by a rather dapper Mexican grey squirrel who posed well for photos at one point. The sun was coming through and this brought the butterflies out with a zebra heliconian and then great views of a perching whitened bluewing. Next to this was the deep orange climbing daisy *Pseudogynoxys chenopodioides*. Heading back and black-headed saltators, a glasswing *Greta morgane* and an *Anteos chlorinde* with its crisply veined underside was settled under a leaf. Various pierids were flying around the large flowering shrubs near the hotel.

An excellent breakfast followed and then we were off, driving up into a countryside of orange orchards and forest patches. It was quite warm in the sun as we set off for the one hour walk which would take us twice that long with all of the stops we made. Almost straight away there was a small climbing *Aristolochia styloglossa* with round marbled leaves next to a climbing fern *Lygodium venustum*. Butterflies came thick and fast with celadon sister (*Adelpha serpa*), cattlehearts, *Dryadula phaetus* whilst a small pond was a swirl of dragonflies with at least ten species of odonatan varying in size including vivid roseate skimmer and larger emperors and mating pairs. However, the finest mating pair was two pipevine swallowtails poised on a twig revealing their stunning undersides. On a patch of lantana there was giant swallowtail (*Papilio cresathontes*), puddles and muddy wheel ruts had dozens of dragonflies as we walked eventually reaching the tarmac road that led the short distance to the springs at Balneario de Tambaque. Inside was a cool retreat and after a reviving cold drink we spent some time looking around finding celadon sister (*Adelpha serpa*), red cracker, grey cracker and then along the forest edge increasing numbers of malachites. We had been hoping one of these would settle for us and on a corner next to an impressive flaking bark *Bursera* sp (tree) one

did, and it remained there for some time. In the adjacent forest patch, we also found the broad-tipped clearwing (*Pteronymia cotytto*) and *Tithorea tarricina*.

A leisurely lunch and then we drove the hour to the Soltano de las Golondrinas cave and although we arrived early, we (sensibly) decided to go down early. More clearwings and two Anna's eighty-eight *Diaethria anna* were seen before we reached the plunging giant sinkhole in the forest. The sound of many small green parakeets reverberated about the rock walls, and we could see them on ledges and surrounding vegetation. White-collared swifts were already overhead in great sweeping flocks, turning around and around. Then the show began with first whooshing down and into the cave at breakneck speed. The next hour was one a stunning natural history with the ever-rotating swirl of swifts periodically firing birds down into the depths below with screams and the rushing sound of their wings as they fizzed past. It was quite mesmerising and hard to leave, but we decided (wisely) to forgo the bats (that emerge after the swifts have dive-bombed into the cave) and instead walked up whilst it was still light.

Dinner was latish but the swifts were worth it.

Day 6 El Tajin

A long travel day that was necessary to move us south to the rest of the tour. We left at 7 am and drove an hour or so, tried to buy coffee, which turned out to be the worst in Mexico. Fortunately, we found a breakfast stop not much further on. While Eric prepared, we went on a wander, finding a black-winged dragonfly almost straight away. A track led alongside forest and grassy waysides where we found other butterflies as the musical whistles of banded wren gave way their location though they were only seen clearly when they flew across, likewise the flock of red-throated ant-tanagers. Vireo Nigel found an interesting bug and there were also various grasshoppers, a well-posed *Heliconius erato* and variable cracker on a tree trunk. A cryptic forest toad was seen just before we left for the next leg of our marathon. The ultimate aim of the day was to reach the archeological site of El Tajin, so for lunch we quickly bought pizzas and ate them as we drove, pushing on via countless speedbumps and making it to the site with ten minutes to spare. Now we could relax and enjoy a very pleasant walk around this excellent and large site with several impressive pyramids. The late afternoon light was perfect for photographing the ruins. Natural history was limited to an eastern wood-pewee, a smattering of butterflies, an odd white bulb and the wonderful flaking bark of some large *Bursera* trees.

There was a final hour and a half to get to our seaside hotel and then a good dinner in a small local restaurant.

Day 7 Gulf coast, Cienagas del Fuente and to Xapala

We had a birdwatching walk with excellent close views of blackburnian warbler, three willets and a brown pelican along the coast, then Wilson's warbler and a fly over of an aplomado falcon flying out to sea before we crossed the road to where we saw American kestrel, three golden-crowned woodpeckers and a stunning male vermillion flycatcher. Departing at 8 am we drove short distance to the coast where we had a walk around while Eric prepared breakfast, seeing two juvenile white ibises very close, common yellowthroat in the grass and on the posts in the sea sat royal tern and laughing gull. Walking back there was a sleek and elegant scissortail flycatcher too. There was time

for another walk after breakfast, with three great black hawks flying in and one perching in a tree for a time. On the opposite beach a large gaggle of black vultures had assembled around the ripe carcass of a cow. Various interesting coastal plants grew here too including beach bean (*Canavalia rosea*) and the yellow *Sida abutifolia*, which attracted various butterflies such as red monarch and Mexican fritillary.

There was a short delay reaching our next place, detouring over a river where we saw large terrapins hauled, before arriving at a lagoon and marshes. The area was full of birds, with a huddle of long-billed dowitchers in the marsh surrounded by blue-winged teals, black-necked stilts and various probing white ibis, glossy ibis and wood stork. Looking closer there were killdeer and Wilson's snipe (Nigel). However, the star turn was provided by the dapper yellow-eared night-herons of which there were several including one that had caught a large crab and spent some time figuring how to juggle the creature (and knock one or two legs off) before it could finally gulp it down.

The birding switched seamlessly to butterflies with a delightful assortment of species as we wandered the straight tree-lined road starting with a variable beautymark *Rhetus periander* (white variant), then the fast-flying and red-and-black leafwing *Siderone galanthis*, followed by a tiger leafwing (*Consul fabius*) whose vivid orange vanished into a beautiful cryptic dried leaf the moment it settled. Indeed, this type of butterfly was very well represented today and approaching a tree further along Nigel and I flushed six Blomfield's beauties which then alighted on a different tree in full view, but even then, they were hard to see with their exquisite camouflage. With them was a one-spotted prepona (*Archaeoprepona demophon*). There was a constant movement of zebra heliconians, *Heliconius erato*, sulphurs and a confusion of skippers, together with many dragonflies which seemed content to perch on the overhead wires. A grey hawk was seen well when it alighted on a post as we made our way past tangles of the handsome white pea vine *Centrosema pubescens*. One of the highlights was a jumping spider, a substantial species for a group of typically small arachnids, which had captured and was carrying off an earwig. It was warm by now and we were glad to arrive at our lunch spot where Eric has cooked a delicious pork lunch. The breeze from the river was also welcome and as we relaxed there was a constant to and fro from the many scissor-tailed flycatchers which were migrating through. Northern waterthrush and black-and-white warbler were also seen before we departed, as was another gathering of Blomfield's beauties.

From here we drove for an hour, climbing up and over the hills and descending to a broad rocky river. A pair of amazon kingfishers were seen well here. However, the butterflies again to centre stage with a gathering of six different camouflaged species on a single tree; variable crackers, hefty Orion cecropian and Blomfield's beauty! Two variable leafwings were also seen at the top of the slope, where two were feeding on tree sap. Walking the short distance back to the vehicle we saw a vivid red parasitic *Tristerix* sp. and large epiphytic cacti tumbling from a tree. The vegetation grew lush and lush as we now climbed (reaching two thousand metres) with an abundance of large ferns and *Xanthosoma* lining the banks as the mists rolled in.

Day 8 Xalapa Botanic Garden

A butterfly frenzy today. We arrived at the Xalapa botanic garden in good time, too good, and were told that the garden opens at 09.00 but the cashier doesn't get there until 09.10! No matter there was the odd *Heliconius ismenius* and Anna's eighty-eight (*Diaethria anna*) flying around as well as a few acorn woodpeckers in the large tree by the entrance. A large party of schoolchildren accosted

the group and had an engaging few minutes before we were finally let in, descending steps to an area of flowering shrubs that were drawing a confusion of butterflies, so many it was hard to keep up. Most obvious were the many tiger heliconians, joined by variable cattleheart (*Parides erythalion*), Mexican silverspot (*Dione moneta*) and Julias, whilst on the flowery salvia collection was a whirr of skippers including the stunning twin-barred flasher, teal beamer (*Phocides urania*) and surprising whites, hummingbird hawkmoths zipped from flower to flower and yellow and red forms of surprising white appeared. Some was spent clicking away before we moved on passing through the large cycad collection to where we found a pair of tiger heliconians, the male hovering over the female and wafting pheromone onto her. The only downside with the morning there was the constant drone of lawnmowers and leaf blowers as workers prepared the area for a ceremony of some sort. Moving away from the din, more park like areas eventually produced some birds with cordilleran flycatcher, a flock of blue-winged teal on the river, black-throated green warblers, black-and-white warbler, a couple of yellow-winged tanagers and blue-grey gnatcatchers. Mexican longwing was common and starred oxeo was seen and a caterpillar infested with fungi hung from a silken thread. A second session with the flowering shrub area was equally productive (if hot), with many showy pierids moving in including yellow-angled sulphur, tailed sulphur (*Phoebis neocypris*) and cloudless sulphur and there were also good views of Anna's eighty-eight, falcate metalmark and the delightful bonus of a narrow-banded dartwhite (*Archonias flisa*) that posed well and even opened its wings in the shade.

Lunch was in the attached café and then we drove on for an hour through sugar canes fields, orchards and forest patches to a boulder strewn river. Five-banded skipper was outside the bus when we arrived and crossing the river we found a track down to the shore and spent time looking at gold-bordered hairstreak, blue-studded skipper and gold-tufted skipper and some large *Nephila* spiders, making our way to a damp area by the shore that had many-banded daggerwing, white-angled sulphur, straight-line sulphur and briefly dusted spurwing settling for salts. A few lizards scuttled about the rocks and log piles too and black phoebes hawked for insects over the water. The other side of the river was not as productive but did have several ruby spot damselflies.

From here we completed our journey to Huatusco.

Day 9 Huatusco cloud forest I

An hour was spent birding the grounds of the Misione hotel and with a bit of patience we did see quite a few species including golden-fronted woodpeckers sunning themselves and pecking open oranges joined at one point by squirrel cuckoo which showed well. Azure-crowned hummingbirds were busy in the bougainvillea flowers, melodious blackbirds were indeed melodious at times and a female, crimson-collared grosbeak appeared before we found a couple of band-backed wrens in the tall bamboo. Shortly before we left the warming sun had woken up several Anna's eighty-eights too. We drove a short way and then stopped in an area of coffee plantation with taller shade trees. Eric and Beto prepared breakfast and we had a look around finding a pair of large mating grasshoppers, various skippers and crescents and both Blomfield's and Karwinski's beauties were sunning themselves on coffee bushes. A good breakfast followed and after a short walk on the other side with not so much to see we continued onto the university and trundled through pasture and forest to a local farming community. From here we walked to the ashram finding many butterflies and interesting plants. The list for the day was extensive with all of us probably seeing species others did

not! In no particular order there were navy eighty-eights, fine-lined hairstreak, eyed sister, broad-banded page, spying hairstreak and Salvin's clearwing crowded the broad corymbs of daisy bushes.

Chatting to Hector he offered to lead us to the large 400-year-old plane tree in the forest and we set off into the lush interior alongside a stream flanked by tall, elegant tree ferns and onto a small clearing from where we could see the plane and some large *Quercus insignis* too. The rest of the afternoon was spent slowly walking back out of the area, again finding a succession of butterflies; and then coming upon a superb old *Quercus insignis* that was plastered in slender leaved bromeliads, some such as *Tillandsia punctulata* sporting showy inflorescences, as well as many ferns and old orchid plants and a bit further on and we also found the orange bells of *Bomarea acutifolia* and a rambling *Passiflora adenopoda* in flower. A metalmark was seen sheltering under one fern and a large tree was festooned in swathes of the handsome grey fern *Phlebodium pseudoaureum*. More clearwings settled along the track as we walked before reaching the vehicle where a huge white daisy bush *Montanoa hibiscifolia* was alive with butterflies. We continued walking and a loud tapping we had heard for a while turned out to be a pair of lineated woodpeckers on a tall, broken off tree. Beyond this there were the familiar and raucous brown jays, but little else and the plan was then to drive back. However, a locked gate meant a detour back to the hippies and then an alternative route along a flowery track and back to the coffee plantation we had breakfasted in before reaching the main road.

Day 10 Huatusco cloud forest II

Heading out at sunrise we drove a short distance out of town and stopped in an area of trees, sugar cane and pasture. There were many large *Liquidambar styraciflua* trees, the older ones smothered in epiphytes from bromeliads to orchids and ferns as well as a heavy load of parasitic *Psittacanthus calyculatus*. Two grey silky-flycatchers were on a high perch as took an early morning walk before breakfast, also seeing a bare stump that was a larder for acorn woodpeckers, with rows of holes prepared in which to stuff acorns. The magnificent white daisies looked superb with backlight as steam rose from the warming ground and we hoped they would be attractive to butterflies in a little while. Another excellent breakfast was followed by a second wander, Nigel finding Colorado-type beetles demolishing a solanum and there were many glasswings *Episcada salvinia* crowding broad corymbs of white flowers, joined by *Dircenna klugii* and an *Emesis lupina*. A velvet ant was watched as it busied itself among the stones along the road. The cackle of barred antshrikes revealed their presence, and they moved closer, so we had decent views of a male bird.

We tried to go to a higher altitude but unfortunately none of roads made it to any significantly greater elevation. We did find a side track that led to an interesting area with various oaks and the parasite *Psittacanthus schiedeana*. Grey silky-flycatchers, black-and-white warbler, brown crested flycatcher and black-throated green warbler were all seen as was the triangle remella. Taking the backroad towards the ashram we walked back down the road finding the handsome crimson flowers of *Hibiscus uncinellus*, the gesneriad *Moussonia deppeana* and square-tipped crescent.

Day 11 Rio Playa La Junta Apotec and to Tehaucan

Leaving at 7 am we drove for an hour and then after a bit of following small back roads finally found a good-looking place for breakfast. Whilst the guys prepared, we had a wander walking up past

flowery tracksides on one side and tall sugar cane on the other. A local was gathering and boxing chayote fruits and beyond him we found flocks of white-collared seedeater, yellow-faced grassquit and lone, white-crowned parrot was perched on the ridge. Other birds were flitting in the rather dense undergrowth including a wren of some sort. We did eastern wood pewee and a few chestnut-headed oropendola fly over, whilst in the grass we spotted a stunning and fresh superb cicadian. It was a bit hidden in the wet grass, so I coaxed it onto a finger and placed it on a sunny leaf. Various colourful *Ipomaea* species grew in the grassland twining among the abundant *Bidens* sp.

It took another two hours to reach Rio Playa La Junta Apotec, but once we did butterflies were plentiful. Tropical leafwing, navy eighty-eight, orion cecropian, Blomfield's beauty were all seen, and walking the access track there was a congregation of the former on dog scat. Just beyond a small ditch held many different dragonflies, a palm with the nests of two different wasp species and following the flowery edge we also found glassy skipper, Walker's metalmark, a sky-blue greatstreak in a shrub and there were fly pasts of silver emperor. A second species; silver emperor was seen very well when it joined the many tropical leafwings on the dog scat. Yellow-rumped warbler, common ground-doves and an *Empidonax* flycatcher were also seen as we walked back for lunch beside the calm river. Variable cracker alighted on tree trunks and rusty-tipped page floated past as did stunning blue morphos. Nigel had also found orange-spotted skipper, a butterfly he had particularly wanted to see. We had a further foray after lunch but did not find much different, no doubt because of the now overcast conditions.

Mexican roads being what they are we trundled out to tarmac and then rumbled through small villages until we reached a much slicker faster road that sped us along (at last). The landscape began to change as we climbed into the hills, which at one point were swathed in blanket of invasive *Echinopepon pringlei*. There were further fine views of Volcan Orizaba as we continued along the good road, only to be diverted by the police onto a much slower side road. This climbed and climbed (ultimately to 2700 metres) through stands of elegant *Pinus Montezuma* with their drooping leaves. We passed the many trucks had clear views of the volcano and observatory and kept going, entering a different, drier plateau landscape with scattered architectural yuccas. These became more numerous further on as we descended into cactus country and the town outskirts where huge numbers of cattle egrets were gathering in a few trees as dusk set in.

Day 12 Tehuacan-Cuicatlan Biosphere Reserve

A superb botanical day with so many interesting architectural plants. We stopped first in an area not far from town, where a track led into a rich area of succulents and cacti laced where plentiful orangey *Mentzelia hispida* and lurid pink *Mirabilis* af. *viscosa* coloured the gaps between some immense barrels of *Echinocactus platyacanthus*, densely spined *Opuntia pilifera* and various *Agave* with lovely imprints of their spine-tipped leaves pressed on their foliage including the red-spined shorter rosettes of *Agave potatorum*. Big white trumpet flowers decorated small trees of *Ipomaea pauciflora* as we walked towards large stands of *Yucca periculosa* also seeing butterflies; Mexican fritillary, tropical skipper, dainty sulphur and the pretty common meadow. A green spider sat on the leaf of *Cnidioscolus tehuacanensis*, an unidentified hummingbird was seen, delicate vines of *Ipomaea ternifolia* sprinkled the area with mauve funnels and we even found some yellow flowers on the many *Echinocactus*. Everywhere we turned there was an interesting plant or butterfly drifting past. The tough little fern, *Cheiloplecton rigidum* grew from the bare rocks and we found the first big fibre-optic *Dasyllirion atrotrichum* (sotol) on a rocky slope, but then there were more on the flat with the

huge rosettes of *Agave salmiana*, as a loggerhead shrike perched on a tall yucca and Cassin's kingbirds flew across. Here and there were the tall greyish-leaved yucca lookalikes *Nolina excelsa* and it was difficult to leave there was so much to see here, but more awaited down the road. Next up were the amazing stands of silvery *Cephalocereus columna-trajani* (typically as single trunks) that extended in vast ranks across the rocky hills and canyons. This type of impressive vegetation to become a frequent sight as we continued through the day. Reaching the botanical reserve, we were now surrounded by huge towers columns of *Neobuxbaumia tetetzo* (with multiple trunks). We took a walk along the trails here finding many more fascinating things including the barrels of *Ferocactus latispinus* armed with ferocious broad spines and some of them topped with pinkish flowers, shrubs of red-flowered *Erythrostemon melanadenius* and the banded leaves of *Agave marmorata*. Many of the cacti were spread throughout with abundant *Mammillaria carnea* and then the massive and ancient corky boles of *Beaucarnea gracilis* a quite wonderful xerophytic tree. Bushy-crested flycatchers and creamy hairstreak were seen too. Some of us took a longer walk also finding colonial *Ferocactus robustus*, rosettes of *Agave macroacantha* and there were the peculiar hooded red flowers of *Euphorbia cymbifera* sprouting from clumps of leafless round stems.

Lunch was in the shade and afterwards we drove back the same way stopping briefly so some more fine *Beaucarnea gracilis* and pretty *Mammillaria haageana* with big conglomerations of orb-web spiders in the trees close by. There were a three further stops as we covered the ground to Oaxaca, passing through an incredible cactus-dominated canyon and hill landscape. The first found a flowers *Fouquieria formosa*, some interesting grasshoppers, creamy stripe-streak and southern dogface, the next was a fine viewpoint across the fabulous landscape. Our last stop was for a rocky gully and slopes adorned with a superb population of Mexican blue palms; *Brahea dulcis* which looked wonderful against the blue sky with the moon rising. Many big *Dasyllirion atrotrichum* were mixed among them and another architectural gem was on the other side of the road; *Wigandia urens*, which was attracting a few butterflies. There was no choice now but the drive, enjoying the landscape as it softened in the evening light, reaching lush areas of pines and oak before descending to the busy streets of the city.

Day 13 Sierra Juarez

Pulling my curtains first thing a broad-winged hawk swept past, boding well for the day. Leaving the city traffic behind we turned towards the forested slopes of Sierra Juarez, passing numerous weaving shops before arriving at a reservoir. On the calm waters were least grebes, a few blue-winged teal and a flock of northern roughwing swallows. Large blue dragonflies flew back and forth, and a white-winged dove was seen sunning itself in a tree. *Ipomaea pauciflora* with dark-centred white flowers was plentiful (with various beetles investigating its flowers) and there were a few of its larger relative *I. arborescens* too. Walking along the track we also found, prickly poppy *Argemone ochroleuca*, zebra-striped hairstreak and then a handsome large dragonfly and zebra cross-streak. The abundant daisies attracted many dainty sulphurs, small air plants; *Tillandsia recurvata* crowded the stems of the large columnar cactus *Myrtillocactus schenckii* and the flat padded *Opuntia pilifera* grew nearby. Red-tailed hawk soared out accompanied by a smaller sharp-shinned hawk. Further around the reservoir we also saw a couple of killdeer very well. There followed a series of stops as we gained height, each time experiencing a different vegetation zone. Along the road throughout was a variety of showy *Salvia* species beginning with mauve pink *purpurea* that grew around large bushes of the tall white daisy *Montanoa leucantha* with pretty drifts of pink *Lopezia racemosa* beneath. At the next stop these had transitioned to the fiery red of *S. cinnabarina*, this one mixed

with rich blue *S. vitifolia* and similar but smaller flowered *S. amarissima* in oak woods dominated by *Quercus candicans* (with pale undersides to greyish-green leaves). which also held an impressive old *Beaucarnea sp* with a great mop of long, broad leaves. The small orchid grew on the bank together with a pretty blue *Commelina tuberosa* with striking calyces. There were a few butterflies around including Mexican dart white, but this picked up a bit at our next stop in a flowery mead with abundant dainty blue *Lobelia*. Here in the sun-dappled woods the rather special Oaxaca checkerspot was found. However, we only saw this because Nigel drew out attention to a bright red prostrate pea, which we almost ignored once we saw the fabulous cactus *Aporocactus martianus* sprawled across a leaning oak and almost enveloping it in trailing stems.

Ever higher we stopped for a plant of *Lobelia laxiflora*, before reaching the village nestled among pine and oak woodland, where Eric set about preparing lunch. There were dense stands of *Salvia cinnabarina* and various yellow daisies and here we saw Mexican dartwhite and some fresh *Dione moneta* the silver-spot whose underside did indeed reflect sunlight like a mirror. In the trees were golden-cheeked warblers, mountain elaenia and a brown creeper. A dazzling green violetear settled in front of us on a slender twig and suggested it might stay long enough for photos, but no sooner had cameras been raised than it was away. Not long after, among a dense stands of dark red *Salvia longistyla* Lynn, Keith and I had a good view of a juvenile amethyst-throated hummingbird and walking back up I got the briefest view of red warbler.

After a late lunch we took a walk towards the village seeing interesting plants such as *Lobelia laxiflora*, *Cuphea cyanea*, red *Stachys coccinea* and the rosettes of *Pinguicula moranensis*, more fine plants of *Lobelia laxiflora*, huge specimens of *Agave atrovirens*, the pendant inflorescences of *Tillandsia prodigiosa*, as well as scrub jays, Scott's oriole and Tennessee warbler. Nigel had gone back up before us and he had had superb views of the dazzling red warbler. Driving back down from the pleasant highlands we stopped for a population of the striking and very spiny *Agave potatorum* that surprisingly perhaps, grew in open oak woodland. Not much further on and found a fine flowers spike that grew from the slope at eye level. From here we drove down and onto towards Oaxaca seeing dozens of cattle egrets flying to roost on the way.

Day 14 Sierra Juarez II & Monte Alban

Red-lored parrot, Audobon's oriole and white-throated towhee were seen before breakfast. Most of us then went up into the high sierra a second visit, this time following a slicker, quicker route, turning off onto a dirt road into the pine and oak woods at 2800 metres. From here we took a pleasant stroll downhill seeing an interesting selection of flora from the graceful leaved *Pinus pseudostrabus*, deep pink *Penstemon roseus*, fleshy rosettes of *Echeveria sp*, lots of rich blue *Salvia polystachia* and the immense rosettes of *Agave atrovirens* that burst from the ground and looked quite incongruous among the woodland. Nigel had found a slate-throated redstart and in the same area we also saw golden-browed warbler and an entertaining flock of bushtit. Birds could be heard but nothing else was seen. Continuing down there was many more impressive agaves and stems of *Lobelia laxiflora*. Beto picked us up and we then descended a long way down to a sunny area with lots of flowering daisy species alongside a river. Butterflies were much more common here and though much was now familiar we did find Mexican dart white, white-patched eighty-eight, common buckeye, a large leafwing (Nigel) as well as three sleek grey silky-flycatchers that posed well in a leafless tree.

We all met up back at the hotel and then battled through the Oaxaca traffic to a local eating den where many restaurants were housed in a noisy centred crowded with locals. A slice of Mexican life. As was then trying to get back to the bus, walking through the busy streets to the car park. Peace and tranquillity were restored once we had fought through the market traffic and were finally climbing into the hills to the premier archaeological site of the area, Monte Alban. Eric then took us on a tour of the site, which revealed it was named white hill for the numerous bushes of *Ipomaea arborescens* that grow here (after which the site is named – white mountain). Other floral delights including kapok sees, a tree-sized euphorbia and a clump of red-flowered semi-parasite *Lamourouxia xalapensis*. there were fine views across the expansive site and its various features from sacrificial altar to ballcourt an tomb, including some carved depictions of sacrifices and astronomically aligned buildings.

A final group meal was had back at the hotel with the twinkling lights of Oaxaca below.

Day 15 Flights

There was time for a bit of birdwatching in the grounds before breakfast which almost immediately turned up a white-throated towhee which had caught a praying mantis. Exploring the further corner of the area the large eucalyptus trees were abuzz with many berylline hummingbirds, with quite a few Nashville warblers in the trees too and a male summer tanager. Ladder-backed woodpecker was also seen quite well, and Lynn and Keith saw white-breasted nuthatch. However, probably the best sighting of the morning was the rampage of around twenty Mexican grey squirrels that arrived in twos, threes and fours chasing and moving swiftly about the trees. Walking back to breakfast we also saw several grey silky-flycatchers and a female western tanager, whilst Nigel had found rufous-backed thrush.

A final checklist and then packing, leaving the hotel after a quick lunch and driving to the airport for our flight to the capital and then onward international flights to the UK.

Systematic List Number 1 Butterflies

SWALLOWTAILS			
1	Polydamas Swallowtail	<i>Battus polydamas</i>	Waterfall walk, Xilitla
2	Pipevine Swallowtail	<i>Battus philenor</i>	Mating pair on walk to waterfall near Xilitla
3	Variable Cattleheart	<i>Parides eithalion</i>	Xalapa
4	Montezuma's Cattleheart	<i>Parides montezuma</i>	Waterfall walk
5	Montezumas's swallowtail	<i>aster</i>	On walk to waterfall near Xilitla
6	Giant Swallowtail	<i>Papilio cresphontes</i>	On walk to waterfall near Xilitla
7	Thoas Swallowtail	<i>Papilio thoas</i>	Quite widespread
8	Ruby-spotted Swallowtail	<i>Papilio anchisiades</i>	Cienagas del Fuente
9	Victorine Swallowtail	<i>Papilio victorinus</i>	Xalapa/Huatusco
WHITES			
10	Mexican Yellow	<i>Abaeis mexicana</i>	Cascada el Chuvete
11	Sleepy Orange	<i>Abaeis nicippe</i>	On the way to Jalpan
12	White Angled-Sulphur	<i>Anteos clorinde</i>	Widespread
13	Yellow Angled-Sulphur	<i>Anteos maerula</i>	Widespread and common
14	Pale Sulphur	<i>Apprissa statira statira</i>	Xalapa
15	Florida White	<i>Glutophrissa drusilla</i>	Sierra Juarez
16	Narrow-banded Dartwhite	<i>Archonias flisa</i>	Huatusco and seen well in Xalapa botanic garden
17	Mexican Dartwhite	<i>Archonias nimbice</i>	Sierra Juarez
18	Southern Dogface	<i>Colias cesonia</i>	On the way to Jalpan, Tehuacan, Sierra Juarez
19	Clouded Sulphur	<i>Colias philodice</i>	On the way to Jalpan in dry country
20	Bold Mimic-White	<i>Enantia jethys</i>	Rio Playa la Junta Apotec
21	De la Maza's Mimic-White	<i>Enantia mazai</i>	Rio Playa la Junta Apotec

22	Boisduval's Yellow	<i>Eurema boisduvaliana</i>	On the way to Jalpan and Xalapa
23	Barred Yellow	<i>Eurema daira</i>	Scattered, Jalpan, Huatusco
24	Dina Yellow	<i>Pyrisitia dina</i>	Cascada el Chuvete
25	Little Yellow	<i>Pyrisitia lisa</i>	Cienagas del Fuente
26	Mimosa Yellow	<i>Pyrisitia nise</i>	Cascada el Chuvete
27	Tailed Orange	<i>Pyrisitia proterpia</i>	Cascada el Chuvete, Cienagas del Fuente
28	Salome Yellow	<i>Eurema Salome jamapa</i>	On the way to Jalpan
29	Black-banded White	<i>Itaballia demophile centralis</i>	Xalapa
30	Common Greeneyed White	<i>Leptophobia aripa</i>	Widespread in north
31	Dainty Sulphur	<i>Nathalis iole</i>	Widespread
32	Surprising White	<i>Pereute charops</i>	Widespread in south
33	Large Orange Sulphur	<i>Phoebis agarithe</i>	Waterfall walk and Xalapa
34	Apricot Sulphur	<i>Phoebis argante</i>	Cascada el Chuvete and Huatusco
35	Tailed Sulphur	<i>Phoebis neocypris</i>	Xalapa and Huatusco
36	Orange-barred Sulphur	<i>Phoebis philea</i>	Waterfall walk, Xilitla
37	Cloudless Sulphur	<i>Phoebis sennae</i>	Widespread in north
38	Straight-lined Sulphur	<i>Phoebis trite</i>	Xilitla area
HAIRSTREAKS & BLUES			
39	Creamy Stripe-streak	<i>Arawacus jada</i>	Tehuacan area and Sierra Juarez
40	Fine-lined Stripe-streak	<i>Arawacus sito</i>	Huatusco
41	Chiapas Stripe-streak	<i>Arawacus togarna</i>	Huatusco
42	Spying Hairstreak	<i>Atlides inachus</i>	Huatusco
43	Guatemalan Hairstreak	<i>Callophrys guatemalana</i>	Huatusco
44	Xami hairstreak	<i>Callophrys xami</i>	Sierra Juarez
45	Rusty-banded Groundstreak	<i>Calycopis demonassa</i>	Sierra Juarez

46	Dusky-blue Groundstreak	<i>Calycopis isobea</i>	Huatusco
47	Spring Azure	<i>Celastrina ladon</i>	Sierra Juarez
48	Eastern Tailed Blue	<i>Cupido comyntas</i>	Casacada el Chuvete, Tehuacan
49	Mathew's Groundstreak	<i>Electrostrymon mathewi</i>	Sierra Juarez
50	Ruddy Groundstreak	<i>Electrostrymon hugon</i>	Sierra Juarez
51	Superb Cycadian	<i>Eumaeus childrenae</i>	Scattered, Cascada el Chuvete, Huatusco, etc
52	Mexican Cycadian	<i>Eumaeus toxea</i>	Xilitla area
53	Ceraunus Blue	<i>Hemiargus ceraunus astenidas</i>	On the way to Jalpan, Cienagas del Fuente, Tehuacan
54	Reakirt's Blue	<i>Hemiargus isola</i>	Casacada el Chuvete, Sierra Juarez
55	Cassius Blue	<i>Leptotes cassius</i>	Casacada el Chuvete
56	Gray Ministreak	<i>Ministrymon azia</i>	
57	Garnet patched hairstreak	<i>Nicolaea velina</i>	Huatusco
58	Zebra Cross-streak	<i>Panthiades bathildis</i>	Sierra Juarez
59	Sky-blue Greatstreak	<i>Pseudolycaena damo</i>	Huatusco area, Rio Playa la Junta Apotec
60	Tiger-eye Hairstreak	<i>Rekoa meton</i>	Xilitla and Huatusco
61	Gold-bordered Hairstreak	<i>Rekoa palegon</i>	Huatusco
62	Mallow Scrub-Hairstreak	<i>Strymon istapa</i>	On the way to Jalpan
63	Red-crescent Scrub-Hairstreak	<i>Strymon rufofusca</i>	On the way to Jalpan
64	Burnt-chocolate Hairstreak	<i>Theclopsis mycon</i>	Sierra Juarez
65	Walker's Metalmark	<i>Apodemia walkeri</i>	Rio Playa la Junta Apotec
66	Zela Tanmark	<i>Apodemia zela</i>	Sierra Juarez
67	Rawson's Calephelis	<i>Calphelis rawsoni</i>	Possibly this species on the waterfall walk
68	Scintillant	<i>Calephelis sp</i>	Cienagas del Fuente

69	Sturnula Metalmark	<i>Calydna sturnula</i>	Sierra Juarez
70	Great Emesis	<i>Emesis furor</i>	Xalapa
71	Little Tanmark	<i>Emesis lupina</i>	Huatusco area
72	Falcate Metalmark	<i>Emesis teneidia</i>	Cascada el Chuvete, Huatusco
73	Fiery Euselasia	<i>Euselasia aurantiaca</i>	Huatusco
74	Black-patched Bluemark	<i>Lasaia agesilas</i>	As we left Cascada el Chuvete
75	Red-bordered Pixie	<i>Melanis pixe</i>	Xalapa
76	Variable Beautymark	<i>Rhetus periander</i>	Cienagas del Fuente, Rio Playa la Junta Apotec
BRUSHFOOTS			
77	American Snout	<i>Libytheana carinenta</i>	Widespread
78	Guatemalan Actinote	<i>Actinote guatemalena</i>	Huatusco
79	Gulf Fritillary	<i>Diona vanillae</i>	Cascada el Chuvete, Rio Playa la Junta Apotec, Sierra Juarez
80	Juno Heliconian	<i>Dione juno</i>	Scattered; Cascada el Chuvete, Xalapa, etc
81	Mexican Silverspot	<i>Dione moneta</i>	Widespread in south
82	Julia Heliconian	<i>Dryas iulia</i>	Widespread
83	Least Heliconian	<i>Eueides alipha</i>	Xalapa
84	Isabella's Heliconian	<i>Eueides isabella</i>	Jalpan
85	Variegated Fritillary	<i>Euptoieta claudia</i>	Huatusco
86	Mexican Fritillary	<i>Euptoieta hegesia</i>	Rio Playa la Junta Apotec
87	Zebra Heliconian	<i>Heliconius charithonius</i>	Widespread
88	Erato Heliconian	<i>Heliconius erato</i>	Widespread
89	Mexican Heliconian	<i>Heliconius hortense</i>	Huatusco, Rio Playa la Junta Apotec
90	Tiger Heliconian	<i>Heliconius ismenius</i>	Widespread
91	Banded Peacock	<i>Anartia fatima</i>	Cascada el Chuvete
92	White Peacock	<i>Anartia jatrophae</i>	Cascada el Chuvete, Jalpn

93	Ardent Crescent	<i>Anthanassa ardys</i>	Cascada el Chuvete
94	Brown crescent	<i>Anthanassa atronia</i>	Huatusco
95	Orange-patched Crescent	<i>Anthanassa drusilla</i>	Xalapa, Huatusco
96	Black Crescent	<i>Anthanassa ptolyca</i>	Huatusco
97	Texan Crescent	<i>Anthanassa texana</i>	Huatusco
98	Pale-banded Crescent	<i>Anthanassa tulcis</i>	Xalapa
99	Mayan Crescent	<i>Castilia myia</i>	Cascada el Chuvete
100	Oaxacan Checkerspot	<i>Chlosyne cynisca</i>	Sierra Juarez
101	Crimson Patch	<i>Chlosyne janais</i>	Cascada el Chuvete
102	Bordered Patch	<i>Chlosyne lacinia</i>	Cascada el Chuvete
103	Rosita Patch	<i>Chlosyne rosita</i>	Huatusco
104	Theona Checkerspot	<i>Chlosyne theona</i>	Cascada el Chuvete
105	Long-winged Crescent	<i>Eresia phillyra</i>	Huatusco
106	Orange Mapwing	<i>Hypanartia lethe</i>	Xalapa, Huatusco
107	Common Buckeye	<i>Junonia coenia</i>	Tehuacan, Sierra Juarez
108	Dark Tropical Buckeye	<i>Junonia genoveva</i>	Cascada el Chuvete, Sierra Juarez
109	Elf	<i>Microtia elva</i>	Cascada el Chuvete
110	Mexican Crescent	<i>Phyciodes pallesens</i>	Xalapa
111	Rusty-tipped Page	<i>Siproeta epaphus</i>	Widespread
112	Malachite	<i>Siproeta stelenes</i>	Widespread; Xilitla, Huatusco, Sierra Juarez
113	Broad-banded Page	<i>Siproeta superba</i>	Huatusco
114	Red Admiral	<i>Vanessa atalanta</i>	Cascada el Chuvete
115	American Painted Lady	<i>Vanessa virginiensis</i>	Huatusco, Sierra Juarez
116	Spot-celled Sister	<i>Adelpha basiloides</i>	Cienagas del Fuente
117	Celadon Sister	<i>Adelpha serpa celerio</i>	Waterfall walk, Huatusco
118	Confusing Sister	<i>Adelpha iphicleola</i>	Cienagas del Fuente ?

119	Tawny-striped Sister	<i>Adelpha leuceroidea</i>	Xalapa
120	Eyed Sister	<i>Adelpha paroeca</i>	Huatusco
121	Celadon sister	<i>Adelpha serpa</i>	Walk to waterfall and Huatusco
122	White-patched Eighty-eight	<i>Diaethria bacchis</i>	Sierra Juarez (second day)
123	Anna's Eighty-eight	<i>Diaethria anna</i>	Huatusco
124	Turquoise-spotted Eighty-eight (Navy)	<i>Diaethria astala</i>	Huatusco
125	Orange-striped Eighty-eight	<i>Diaethria pandama</i>	Cascada el Chuvete
126	Common Mestra	<i>Mestra amymone</i>	Widespread in south
127	Grey Cracker	<i>Hamadryas februa</i>	Xilitla and Cienagas del Fuente
128	Variable Cracker	<i>Hamadryas feronia</i>	Xalapa and Huatusco
129	Orange Cracker	<i>Hamadryas fornax</i>	Huatusco
130	Red Cracker	<i>Hamadryas amphinome</i>	Xilitla area
131	Starry Cracker	<i>Hamadryas laodamia</i>	One at the waterfall
132	Orion Cecropian	<i>Historis odius</i>	Cienagas del Fuente
133	Tailed Cecropian	<i>Historis acheronta</i>	Rio Playa la Junta Apotec
134	Blomfield's Beauty	<i>Smyrna blomfieldia</i>	Cienagas del Fuente and riverside after Rio Playa la Junta Apotec where it was gathering with other cryptic species on tree trunks
135	Karwinski's Beauty	<i>Smyrna karwinskii</i>	Huatusco
136	Common Banner	<i>Epiphele adrasta</i>	Cascada el Chuvete, Jalpan
137	Orange Banner	<i>Temenis laothoe</i>	Jalpan area
138	Stoplight Catone	<i>Catonephele numilia</i>	El Tajin day
139	Mexican Bluewing	<i>Myscelia ethusa</i>	Jalpan, Huatusco
140	Whitened Bluewing	<i>Myscelia cyaniris</i>	Xilitla
141	Red Rim	<i>Biblis aganisa</i>	El Tajin day

142	Orange Daggerwing	<i>Marpesia berania</i>	Riverside near Jalpan
143	Many-banded Daggerwing	<i>Marpesia chiron</i>	Widespread
144	Ruddy Daggerwing	<i>Marpesia petreus</i>	Scattered
145	Jazzy leafwing		Riverside on the way to Tehuacan
146	Silvery emperor		Rio Playa la Junta Apotec
147	Tropical Leafwing	<i>Anaea aidea</i>	Jalpan river, Xalapa
148	Angled Leafwing	<i>Anaea glycerium</i>	Xalapa
149	Noble Leafwing	<i>Anaea nobilis</i>	Possibly this at Rio Playa la Junta Apotec
150	Big-spotted Leafwing	<i>Anaea perenna</i>	Huatusco
151	Pale-spotted Leafwing	<i>Anaea pithyusa</i>	Huatusco
152	Orange-spotted (feathered) Prepona	<i>Archeoprepona deiphile</i>	Cienagas del Fuente
153	One-spotted prepona 6 demophon	<i>Archeoprepona demophon</i>	Cienagas del Fuente
154	Two-spotted Prepona	<i>Archeoprepona demophon</i>	Cienagas del Fuente
155	Feathered prepona 6	<i>Archeoprepona laertes</i>	Cienagas del Fuente?
156	Black-veined Leafwing	<i>Consul excellens</i>	Sierra Juarez
157	Tiger Leafwing	<i>Consul fabius</i>	Cienagas del Fuente
158	Pale-spotted Leafwing	<i>Memphis pithyusa</i>	Cienagas del Fuente, Rio Playa la Junta Apotec
159	Silver Emperor	<i>Doxocopa laura</i>	Rio Playa la Junta Apotec
160	Pavon Emperor	<i>Doxocopa pavon</i>	Rio Playa la Junta Apotec
161	Empress Leilia	<i>Asterocampa leilia</i>	On the way to Jalpan
162	Split-banded Owlet	<i>Opsiphanes cassina</i>	El Tajin journey
163	Common Morpho	<i>Morpho helenor</i>	Quite widespread in humid places
164	Plain Satyr	<i>Cissia pompilia</i>	Huatusco
165	Big-spiked Gemmed-Satyr	<i>Cyllopsis pephredo</i>	Cascada el Chuvete
166	Westwood's Satyr	<i>Euptychia westwoodii</i>	Xalapa

167	Carolina Satyr	<i>Hermeuptychia sosybius</i>	Cascada el Chuvete, Jalpan
168	Cramer's Satyr	<i>Megaleuptychia antoninae</i>	Huatusco
169	Starred Oxeo	<i>Oxeoschistus tauropolis</i>	El Tajin day
170	Mexican pine satyr	<i>Paramercera xicaque</i>	Sierra Juarez
171	White-banded Satyr	<i>Pareuptychia metaleuca</i>	Huatusco
172	White Satyr	<i>Pareuptychia ocirrhoe</i>	Xalapa, Huatusco
173	Wide-bordered Satyr	<i>Satyrotaygetis satyrina</i>	Huatusco
174	Monarch	<i>Danaus plexippus</i>	Widespread in south
175	Queen	<i>Danaus gilippus</i>	Gulf coast, Sierra Juarez area
176	Tiger Mimic-Queen	<i>Lycorea halia atergatis</i>	Waterfall walk
177	Menapis tigerwing	<i>Mechanitis menapis</i>	Xalapa, Huatusco
178	Geyer's Dircenna	<i>Dircenna jemina</i>	Cascade el Chuvete
179	Klug's Clearwing	<i>Dircenna klugii</i>	Huatusco
180	Salvin's Ticlear	<i>Episcada salvinnia</i>	Huatusco
181	Simple Clearwing	<i>Pteronymia simplex</i>	Huatusco
182	Thick-tipped Greta	<i>Greta morgane</i>	Xilitla
183	Paula's Clearwing	<i>Oleria paula paula</i>	Waterfall walk,
184	Ithomia Clearwing	<i>Ithomia patilla</i>	Huatusco
185	Paula's Oleria	<i>leria paula</i>	Cascade el Chuvete
SKIPPERS			
186	Orange-spotted skipper		Rio Playa la Junta Apotec
187	Stalling's flat		Cascada el Chuvete
188	Lugubrious blue skipper		Cascada el Chuvete
189	Desert checkered skipper		On the way to Jalpan

190	Gold-spotted Aguna	<i>Aguna asander</i>	Huatusco
191	Long-tailed Aguna	<i>Aguna metophis</i>	Xilitla area
192	Tropical Least Skipper	<i>Ancyloxypha arene</i>	Rio Playa la Junta Apotec
193	Trailside Skipper	<i>Anthoptus epicteus</i>	Xalapa
194	Royal Spurwing	<i>Systaspes corrosus</i>	Xalapa & Huatusco
195	Dusted Spurwing	<i>Antigonus erosus</i>	Xalapa
196	Orange-spotted Skipper	<i>Atarnes sallei</i>	Rio Playa la Junta Apotec
197	Potrillo Skipper	<i>Autochon potrillo</i>	Cascada el Chuvete
198	Sharp Banded-Skipper	<i>Autochton zarex</i>	Huatusco, Rio Playa la Junta Apotec
199	Benito's Skipper	<i>Buzyges benito</i>	Rio Playa la Junta Apotec
200	Potrillo Skipper	<i>Cabares potrillo</i>	Cascade el Chuvete
201	Two-toned Hoary Skipper	<i>Carrhenes calidus</i>	Xalapa
202	Hoary Skipper	<i>Carrhenes canescens</i>	Xalapa
203	Chisos Banded-Skipper	<i>Cecropterus cincta</i>	Cascade el Chuvete
204	Sharp-banded Skipper	<i>Cecropterus zarex</i>	Widespread in south
205	Zilpa Longtail	<i>Chioides zilpa</i>	Jalpan, Xilitla
206	White-patched Skipper	<i>Chiothion georgina</i>	Jalpan, Xilitla
207	White-centred Ruby-eye	<i>Cobalus fidicula</i>	El Tajin day
208	Mimosa Skipper	<i>Cogia calchas</i>	Cascade el Chuvete
209	Mottled Longtail	<i>Cogia undulatus</i>	Waterfall walk
210	Southern Skipperling	<i>Copaeodes minimus</i>	Scattered, Jalpan, Tehuacan area
211	Cynea Skipper	<i>Cynea cynea</i>	Xalapa
212	Common Bentwing	<i>Ebrietas anacreon</i>	Huatusco
213	False Duskywing	<i>Gesta invisus</i>	Cienagas del Fuente

214	Hermit Skipper	<i>Grais stigmaticus</i>	El Tajin day
215	Whirlabout	<i>Hedone praeceps</i>	Xalapa
216	Veined White-Skipper	<i>Heliopetes arsalte</i>	Widespread
217	Laviana White-Skipper	<i>Heliopetes laviana</i>	Jalpan area
218	Turk's-cap White-Skipper	<i>Heliopetes macaira</i>	El Tajin day
219	Fiery Skipper	<i>Hylephila phyleus</i>	Xalapa area
220	Rita's Remelia	<i>Mnasicles rita</i>	Huatusco
221		<i>Nisoniades victoria</i>	Xalapa
222	Teal Beamer	<i>Phocides urania</i>	Casacada el Chuvete and Cienagas del Fuente
223	Mercurial Skipper	<i>Proteides mercurius</i>	Xalapa
224	White-Checkered-Skipper	<i>Burnsius albescens</i>	Cascada el Chuvete
225	Tropical Checkered-Skipper	<i>Burnsius oileus</i>	Jalpan and Huatusco
226	Orcus Checkered Skipper	<i>Burnsius orcas</i>	Huatusco
227	Desert Checkered Skipper	<i>Burnsius philetas</i>	On the way to Jalpan
228	Tanned Blue-Skipper	<i>Quadrus lugubris</i>	Xalapa area
229	Triangle Remella	<i>Remella vopiscus</i>	Huatusco area
230	Blue-studded Skipper	<i>Sostrata bifasciata</i>	Huatusco
231	Mauve Scallopwing	<i>Staphylus ascalaphus</i>	Cascada el Chuvete
232	Gilbert's Flasher	<i>Telegonus alector</i>	Cascada el Chuvete
233	Yellow-tipped Flasher	<i>Telegonus anaphus</i>	Sierra Juarez
234	Two-barred Flasher	<i>Telegonus azul complex</i>	Scattered; Cienagas del Fuente, Huatusco
235	Chocolate-marked Therra	<i>Thespieus dalman</i>	Xalapa BG

236	Five-banded Skipper	<i>Timochares trifasciata</i>	Xalapa, Rio Playa de Apotec
237	Confluent Skipper	<i>Tirynthia conflua</i>	Huatusco
238	Dorantes Longtail	<i>Cecropterus dorantes</i>	Quite widespread e.g. Huatusco
239	Esmeralda Longtail	<i>Urbanus esmeraldus</i>	Xalapa
240	Turquoise longtail	<i>Urbanus evona</i>	On Nigel's hat at Cienagas del Fuente
241	Long-tailed Skipper	<i>Urbanus proteus</i>	On the way to Jalpan
242	Plain Longtail	<i>Urbanus simplicius</i>	Xilitla, Xalapa
243	Tanna Longtail	<i>Spicauda tanna</i>	Xalapa, Rio Playa de Apotec
244	Teleus Longtail	<i>Spicauda teleus</i>	Huatusco
245	Glassy-winged Skipper	<i>Xenophanes ruatenensis /tryxus</i>	Xalapa, Huatusco, Rio Playa de Apotec
246	OTHER INVERTEBRATES		
247	Blue grasshopper	<i>Chromacris colorata</i>	
248	Horselovers (grasshoppers - red wings)		
249	Dythemis sterilis	Brown Setwing	D10
250	Erythemis plebeja	Pin-tailed Pondhawk	D3, D6
251	Erythemis vesiculosa	Great Pondhawk	D6
252	Erythrodiplax fusca	Red-faced Dragonlet	D10
253	Erythrodiplax umbrata	Band-winged Dragonlet	D4, D10
254	Libellula herculea	Hercules Skimmer	D7
255	Libellula saturata	Flame Skimmer	D12
256	Micrathyria ocellata	Square-spotted Dasher	D4
257	Orthemis discolor	Carmine Skimmer	D3, D6, D10
258	Orthemis ferruginea	Roseate Skimmer	D6
259	Paltothemis lineatipes	Red Rock Skimmer	D2
260	Pseudoleon superbus	Filigree Skimmer	D5, D6
261	Rhionaeschna multicolor	Blue-eyed Darner	D12
262	Orthemis ferruginea	Roseate Skimmer	D6

263	Paltothermis lineatipes	Red Rock Skimmer	D2
264	Pseudoleon superbus	Filigree Skimmer	D5, D6
265	Rhionaeschna multicolor	Blue-eyed Darner	D12

Systematic List Number 2

Supplementary Invertebrates

SUPPLEMENTARY INVERTEBRATE LIST FROM NIGEL SAWYER

Florida Predatory Stink Bug	<i>Euthyrhynchus floridanus</i>	Day breakfast stop
Spot-sided Coreid	<i>Hypselonotus punctiventris</i>	Day 1 first stop after Bernal
A leaf-footed bug	<i>Catorhintha apicalis</i>	Day 1 first stop after Bernal
Southern Small Milkweed Bug	<i>Lygaeus kalmii</i>	Day 1 first stop after Bernal
Euphorbia Bug	<i>Charlesterus antennator</i>	Day 5 Breakfast stop
Spine-headed Bug	<i>Acanthocephala alata</i>	Day 7
An Assassin Bug	<i>Saica</i> sp.	Day 3
Orange assassin bug	<i>Apiomerus pictipes</i>	Day 5
Ringed Assassin Bug	<i>Pselliopus cinctus</i>	Day 2 Cascada Chuveje
Red Bull Assassin Bug	<i>Repipta taurus</i>	Day 2 Cascada Chuveje
Milkweed Assassin Bug	<i>Zelus longipes</i>	Day 8 Also other <i>Zelus</i> species on other days
Spot-winged Broad-headed Bug	<i>Burtinus notatipennis</i>	Day 7
Cotton Stainer Bug	<i>Dysdercus</i> sp.	Day 8
Green Stink Bug	<i>Chinavia marginata</i>	Day 8
Brown Stink Bug	<i>Euschistus</i> sp.	Day 7
Stink Bug	<i>Oebalus</i> sp.	Day 5
A leaf-footed bug	<i>Sagotylus confluens</i>	Day 13 river site
A seed bug - Rhyparochromidae	<i>Pseudopamera nitidula</i>	Day 2 Hotel
Neotropical Red-shouldered Stink Bug	<i>Thyanta perditor</i>	Day 10 Breakfast spot
Solanaceous Treehopper	<i>Antianthe expansa</i>	Day 9 Breakfast spot
Thorn Treehopper	<i>Umbonia crassicornis</i>	Day 3 Podosa James
Pink-spotted Hawkmoth	<i>Agrius cingulata</i>	Day 1 first stop after Bernal. Caterpillar - to confirm
Vine Sphinx	<i>Eumorpha vitis</i>	Day 3
Ello Sphinx	<i>Erinnyis ello</i>	Podosa James
"Blue" Day Flying Moth	<i>Gardinia</i> sp.	Day 10 walls at breakfast spot
Mexican Pygmy Grasshopper	<i>Paratettix mexicanus</i>	Day 3
Differential Grasshopper	<i>Melanoplus differentialis</i>	Day 1 Very first stop at petrol station
Cornfield Grasshopper	<i>Sphenarium purpurascens</i>	Most days towards end of trip
"Horse lubber"	<i>Romalea centurio</i>	Podosa James
A "blue-winged grasshopper"	<i>Machaerocera mexicana</i>	Day 9
Mexican Bush Katydid	<i>Scudderia mexicana</i>	Day 4 Podosa James
Traveller Grasshopper	<i>Rhammatocerus viatorius</i>	Day 13 Monte Alban - ?only grasshopper on site
Grasshopper	<i>Huastecacris</i> sp.	Podosa James
Grasshopper	<i>Netrosoma</i> sp.	Day 11
Grasshopper	<i>Boopedon rufipes</i>	Sierra Juarez, Oaxaca Checkerpsot area
Gray Bird Grasshopper	<i>Schistocerca nitens</i>	Day 2 Tancama
A Bird Grasshopper	<i>Schistocerca camerata</i>	Day 10 Breakfast spot
Grasshopper	<i>Dociostaurus jagoi</i>	Day 1
Aztec Spur-throated Grasshopper	<i>Aidemona azteca</i>	Day 2 Tancama possibly Day 10
Common Short-wing Katydid	<i>Obolopteryx brevihastata</i>	Day 2 Tancama
Grasshopper	<i>Chromacris colorata</i>	Day 8 Ashram

Grasshopper	<i>Chapulacris albanica</i>	Day 11 First stop
Painted-wing fly	<i>Pterocalla</i> sp.	Day 12 Reservoir site
Bromeliad Fly	<i>Copestylum marginatum</i>	Day 10 First site (not a Bee-fly!)
Green, shiny, beetle	<i>Calomacraspis splendens</i>	Day 12 Reservoir site
Soldier Beetle	<i>Chauliognathus limbicollis</i>	Day 3 Podosa James
Potato Leaf Beetle	<i>Leptinotarsa undecimlineata</i>	Day 9 Breakfast spot
Wild Olive Tortoise Beetle	<i>Physonota alutacea</i>	Day 6
Spotless Lady Beetle	<i>Cycloneda sanguinea</i>	Day 1 first stop after Bernal
"Ladybird"	<i>Epilachna mexicana</i>	Day 2 Cascada Chuveje
Red-headed Blister Beetle	<i>Epicauta atrata</i>	Day 11 first stop
A black Blister Beetle	<i>Epicauta curvicornis</i>	Day 11 first stop
Long-horned Beetle	<i>Ochraethes</i> sp.	Day 11 first stop
A chafter type	<i>Euphoria canescens</i>	Day 11 first stop
Long-horned Beetle	<i>Lagocheirus araneiformis</i>	Day 2 Jalpan Hotel
Long-horned Beetle	<i>Ochraethes</i> sp.	Day 2 Cascada Chuveje
Beetle	<i>Disonychia politula</i>	Day 2 Cascada Chuveje
A Burying Beetle	<i>Nicrophorus olidus</i>	Day 2 Cascada Chuveje
A Leaf Beetle	<i>Cyrtosoma tristigma</i>	Day 4 (Podosa James) and Day 6 Lunch spot
Unstable Paper Wasp	<i>Polistes instabilis</i>	Day 6 and Day 11 big nest0
A Sharp-tailed Bee	<i>Coelioxys</i> sp.	Day 7
Leafhopper	<i>Agrosoma</i> sp.	Day 3
Great Spreadwing	<i>Archilestes grandis</i>	Day 2 Cascada Chuveje
Dancer	<i>Argia</i>	Day 2 Cascada Chuveje
Pin-tailed Pondhawk	<i>Erythemis plebeja</i>	Day 6 lunch spot
Darner	<i>Rhionaeschna</i> sp.	Oaxaca presa
Band-winged Dragonlet	<i>Erythrodiplax umbrata</i>	Day 4
Flame Skimmer	<i>Libellula saturata</i>	Oaxaca resevior
Cockroach	<i>Rochaina mexicana</i>	Day 3 Podosa James
Preying Mantis	<i>Stagmomantis mantis</i>	Day 4 Podosa James
Tropical Stonefly	<i>Neoperla</i> sp.	Day 4 Podosa James
Red-lipped Green Lacewing	<i>Chrysoperla rufilabris</i>	Day 2 Hotel
Black Webspinner	<i>Oligotoma nigra</i>	Day 2 Hotel Embioptera (insect order I have
not come across before!)		
Speckled Dun (Mayfly)	<i>Callibaetis pictus</i>	Day 2 Cascada Chuveje
Golden silk spider	<i>Trichonephila clavipes</i>	Day 11 The big web spider Common!
Banded Garden Spider	<i>Argiope trifasciata</i>	Day 3
Spined Micrathena	<i>Micrathena gracilis</i>	Day 7 (on Ian) and Day 8 breakfast spot
Bromeliad Spider	<i>Cupiennius</i> sp.	Day 10 By the river
Green Lynx Spider	<i>Peucetia</i> sp.	Day 11 First stop
Orchard Spider	<i>Leucauge</i> sp.	Many days. Common webspider
Arrowhead Orb Weaver	<i>Verrucosa arenata</i>	Day 7 Bot. Gardens
A colourful jumping spider	<i>Phidippus</i> sp.	Day 11 First stop

Systematic List Number 3 Birds

Blue-winged Teal	<i>Anas discors</i>	Wetland, pond, Cienagas del Fuente
Plain Chachalaca	<i>Ortalis vetula</i>	Quite common around Xalapa,
Least Grebe	<i>Tachybaptus dominicus</i>	Lake below Sierra Juarez
Wood Stork	<i>Mycteria americana</i>	Cienagas del Fuente
Neotropic Cormorant	<i>Phalacrocorax brasilianus</i>	Cienagas del Fuente
Brown Pelican	<i>Pelecanus occidentalis</i>	Gulf coast
Great Blue Heron	<i>Ardea herodias</i>	Cienagas del Fuente
Great Egret	<i>Ardea alba</i>	Wetlands
Snowy Egret	<i>Egretta thula</i>	Wetlands
Little Blue Heron	<i>Egretta caerulea</i>	Gulf coast, Cienagas del Fuente
Tricolored Heron	<i>Egretta tricolor</i>	Cienagas del Fuente
Cattle Egret	<i>Bubulcus ibis</i>	Widespread
Yellow-crowned Night-Heron	<i>Nyctanassa violacea</i>	Cienagas del Fuente
White Ibis	<i>Eudocimus albus</i>	Cienagas del Fuente
White-faced Ibis	<i>Plegadis chihi</i>	Marshes, Cienagas del Fuente
Black Vulture	<i>Coragyps atratus</i>	Widespread
Turkey Vulture	<i>Cathartes aura</i>	Widespread
Osprey	<i>Pandion haliaetus</i>	Coast and wetlands
Sharp-shinned Hawk	<i>Accipiter striatus</i>	Sierra Juarez
Great Black-Hawk	<i>Buteogallus urubitinga</i>	Cienagas del Fuente
Roadside Hawk	<i>Rupornis magnirostris</i>	Widespread along roadsides
Broad-winged Hawk	<i>Buteo platypterus</i>	Sierra Juarez
Gray Hawk	<i>Buteo plagiatus</i>	One at Cienagas del Fuente
Short-tailed Hawk	<i>Buteo brachyurus</i>	Huatusco
Red-tailed Hawk	<i>Buteo jamaicensis</i>	Gulf Coast
American Coot	<i>Fulica americana</i>	Cienagas del Fuente
Black-necked Stilt	<i>Himantopus mexicanus</i>	Cienagas del Fuente
American Avocet	<i>Recurvirostra americana</i>	Cienagas del Fuente
Killdeer	<i>Charadrius vociferus</i>	Cienagas del Fuente
Northern Jacana	<i>Jacana spinosa</i>	Cienagas del Fuente
Spotted Sandpiper	<i>Actitis macularius</i>	Cienagas del Fuente, Sierra Juarez
Willet	<i>Tringa semipalmata</i>	Gulf coast
Lesser Yellowlegs	<i>Tringa flavipes</i>	Cienagas del Fuente
Long-billed Dowitcher	<i>Limnodromus scolopaceus</i>	Cienagas del Fuente
Wilson's Snipe	<i>Gallinago delicata</i>	Cienagas del Fuente
Laughing Gull	<i>Leucophaeus atricilla</i>	Gulf coast
Royal Tern	<i>Thalasseus maximus</i>	Gulf coast
Red-billed Pigeon	<i>Patagioenas flavirostris</i>	
Short-billed Pigeon	<i>Patagioenas nigrirostris</i>	Cascada El Chuneje
White-winged Dove	<i>Zenaida asiatica</i>	Widespread
Inca Dove	<i>Columbina inca</i>	Widespread
Common Ground-Dove	<i>Columbina passerina</i>	Huatusco
White-tipped Dove	<i>Leptotila verreauxi</i>	Xilitla, El Tajin
Squirrel Cuckoo	<i>Piaya cayana</i>	Huatusco area
White-collared Swift	<i>Streptoprocne zonaris</i>	Sotano de las Golondrinas
Green Violetear	<i>Colibri thalassinus</i>	Sierra Juarez

Amethyst-throated Hummingbird	<i>Lampornis amethystinus</i>	Sierra Juarez
Wedge-tailed Sabrewing	<i>Campylopterus curvipennis</i>	Xilitla
Azure-crowned Hummingbird	<i>Amazilia cyanocephala</i>	Huatusco
Berylline Hummingbird	<i>Amazilia beryllina</i>	Sierra Juarez
Amazon Kingfisher	<i>Chloroceryle amazona</i>	Cienagas del Fuente
Keel-billed Toucan	<i>Ramphastos sulfuratus</i>	Heard at Huatusco
Acorn Woodpecker	<i>Melanerpes formicivorus</i>	Xalapa botanic garden
Golden-fronted Woodpecker	<i>Centurus aurifrons</i>	Widespread in north
Ladder-backed Woodpecker	<i>Picoides scalaris</i>	Tancama, Sierra Juarez
Northern Flicker	<i>Colaptes auratus</i>	Sierra Juarez
Lineated Woodpecker	<i>Dryocopus lineatus</i>	Two descending from Huatusco
Crested Caracara	<i>Caracara cheriway</i>	Widespread
Laughing Falcon	<i>Herpetotheres cachinnans</i>	Heard at Xilitla
American Kestrel	<i>Falco sparverius</i>	Widespread in open areas
Aplomado Falcon	<i>Falco femoralis</i>	One flying out to sea on Gulf coast
Green Parakeet	<i>Aratinga holochlora</i>	Xilitla (including roost in cave)
White-crowned Parrot	<i>Pionus senilis</i>	Rio Playa and Tehuacan area
Red-lored Parrot	<i>Amazona autumnalis</i>	Xilitla, Xalapa, Oaxaca
Barred Antshrike	<i>Thamnophilus doliatus</i>	Decent views of calling male at Huatusco
Yellow-bellied Elaenia	<i>Elaenia flavogaster</i>	Maybe this at Huatusco
Eastern Wood-Pewee	<i>Contopus virens</i>	Widespread
Alder/Willow Flycatcher	<i>Empidonax alnorum</i>	Tehuacan, one of these tricky species
Cordilleran Flycatcher	<i>Empidonax occidentalis</i>	Xalapa botanic garden
Black Phoebe	<i>Sayornis nigricans</i>	Widespread
Vermilion Flycatcher	<i>Pyrocephalus rubinus</i>	Gulf coast
Brown-crested Flycatcher	<i>Myiarchus tyrannulus</i>	Tehuacan area
Great Kiskadee	<i>Pitangus sulphuratus</i>	Widespread
Boat-billed Flycatcher	<i>Megarynychus pitangua</i>	Xilitla
Social Flycatcher	<i>Myiozetetes similis</i>	Widespread
Tropical Kingbird	<i>Tyrannus melancholicus</i>	Widespread
Cassin's Kingbird	<i>Tyrannus vociferans</i>	Tehuacan
Scissor-tailed Flycatcher	<i>Tyrannus forficatus</i>	Lovely bird, seen well at Cienagas del Fuente
Masked Tityra	<i>Tityra semifasciata</i>	Xilitla
White-eyed Vireo	<i>Vireo griseus</i>	Xilitla
Yellow-throated Vireo	<i>Vireo flavifrons</i>	Huatusco
Plumbeous Vireo	<i>Vireo plumbeus</i>	Xilitla
Brown Jay	<i>Psilorhinus morio</i>	Widespread
Scrub Jay	<i>Aphelocoma coerulescens</i>	Tehuacan
Chihuahua Raven	<i>Corvus cryptoleucas</i>	Jalpan
Northern Rough-winged Swallow	<i>Stelgidopteryx serripennis</i>	Widespread in south
Mangrove Swallow	<i>Tachycineta albilinea</i>	Cienagas del Fuente
Violet-green Swallow	<i>Tachycineta thalassina</i>	Sierra Juarez lake
Black-crested Titmouse	<i>Parus wollweberi</i>	Jalpan lake
Bushtit	<i>Psaltiriparus minimus</i>	Sierra Juarez
White-breasted Nuthatch	<i>Sitta carolinensis</i>	Sierra Juarez

Brown Creeper	<i>Certhia americana</i>	Sierra Juarez
House Wren	<i>Troglodytes aedon</i>	Xilitla Xilitla
Band-backed Wren	<i>Campylorhynchus zonatus</i>	Huatusco
Bewick's Wren	<i>Thyomanes bewickii</i>	Oaxaca
Gray-breasted Wood-Wren	<i>Henicorhina leucophrys</i>	Heard at Xalapa
Blue-gray Gnatcatcher	<i>Poliophtila caerulea</i>	Widespread
Clay-colored Thrush	<i>Turdus grayi</i>	Oaxaca
Rufous-backed Thrush		Oaxaca
Gray Catbird	<i>Dumetella carolinensis</i>	Huatusco
Northern Mockingbird	<i>Mimus polyglottos</i>	Tehuacan
Gray Silky-flycatcher	<i>Ptilogonys cinereus</i>	Huatusco, Oaxaca
Loggerhead Shrike	<i>Lanius ludovicianus</i>	Tehuacan
Ovenbird	<i>Seiurus aurocapilla</i>	Xilitla
Northern Waterthrush	<i>Parkesia noveboracensis</i>	Huatusco, Cienagas del Fuente
Black-and-white Warbler	<i>Mniotilta varia</i>	Widespread
Tennessee Warbler	<i>Oreothlypis peregrina</i>	Sierra Juarez
Nashville Warbler	<i>Oreothlypis ruficapilla</i>	Oaxaca
Common Yellowthroat	<i>Geothlypis trichas</i>	Cienagas del Fuente
Northern Parula	<i>Setophaga americana</i>	Xilitla
Blackburnian Warbler	<i>Setophaga fusca</i>	Gulf coast, Oaxaca
Yellow-rumped Warbler	<i>Setophaga coronata</i>	Widespread in south
Black-throated Green Warbler	<i>Setophaga virens</i>	Widespread
Golden-browed Warbler	<i>Basileuterus belli</i>	Oaxaca
Wilson's Warbler	<i>Cardellina pusilla</i>	Sierra Juarez
Red-faced Warbler	<i>Cardellina rubrifrons</i>	Sierra Juarez
Red Warbler	<i>Cardellina rubra</i>	Sierra Juarez
Slate-throated Redstart	<i>Myioborus miniatus</i>	Sierra Juarez
Blue-gray Tanager	<i>Thraupis episcopus</i>	Xilitla
Yellow-winged Tanager	<i>Thraupis abbas</i>	Sotano de G, Xalapa
White-collared Seedeater	<i>Sporophila torqueola</i>	Tehuacan
Bananaquit	<i>Coereba flaveola</i>	Jalpan
Yellow-faced Grassquit	<i>Tiaris olivaceus</i>	On the way to Tehuacan
Black-headed Saltator	<i>Saltator atriceps</i>	Widespread, Xilitla, Xalapa
White-throated Towhee	<i>Pipilo albicollis</i>	Oaxaca
Lincoln's Sparrow	<i>Melospiza lincolnii</i>	Oaxaca
Summer Tanager	<i>Piranga rubra</i>	Oaxaca
Western Tanager	<i>Piranga ludoviciana</i>	Oaxaca
Red-throated Ant-Tanager	<i>Habia fuscicauda</i>	On the way to El Tajin
Black-faced Grosbeak	<i>Caryothraustes poliogaster</i>	Huatusco area
Northern Cardinal	<i>Cardinalis cardinalis</i>	Xalapa
Melodious Blackbird	<i>Dives dives</i>	Xilitla
Great-tailed Grackle	<i>Quiscalus mexicanus</i>	Xilitla
Bronzed Cowbird	<i>Molothrus aeneus</i>	Jalpan
Hooded Oriole	<i>Icterus cucullatus</i>	Xilitla, Huatusco
Bullock's Oriole	<i>Icterus bullockii</i>	?
Scott's Oriole	<i>Icterus parisorum</i>	Oaxaca
Audubon's Oriole	<i>Icterus graduacauda</i>	Oaxaca
Baltimore Oriole	<i>Icterus galbula</i>	Huatusco
Chestnut-headed Oropendola	<i>Psarocolius wagleri</i>	Huatusco
Montezuma Oropendola	<i>Psarocolius montezuma</i>	Xilitla, Huatusco

Yellow-throated Euphonia	<i>Euphonia hirundinacea</i>	Xilitla
Lesser Goldfinch	<i>Spinus psaltria</i>	Widespread in south
House Sparrow	<i>Passer domesticus</i>	Widespread