Leptosomus discolor ncbi32000
Apaloderma vittatum ncbi32169
Buceros rhinoceros ncbi32403
Picoides pubescens ncbi32059
Geobiastes squamiger fmnh384758
Brachypteracias leptosomus fmnh438658
Uratelornis chimaera amnh s411213
Atelornis crossleyi amnhdot19371
Atelornis pittoides amnhdot19373
Eurystomus azureus usnm572400
Eurystomus orientalis kunhm18232
Eurystomus glaucurus uwbm104389
Eurystomus gularis fmnh396463
Coracias cyanogaster amnhdot16542
Coracias naevius uwbm95050
Coracias spatulatus fmnh455389
Coracias temminckii fmnh87664
Coracias benghalensis amnhdot7954
Coracias caudatus amnhdot5862
Coracias abyssinicus kunhm15413
Coracias garrulus msb30064
Nyctyornis amictus kunhm17789
Nyctyornis athertoni anwc34770
Meropogon forsteni amnh s299315
Merops bullockoides msb30066
Merops bulocki kunhm15398
Merops breweri usnm627698
Merops revoilii fmnh369641
Merops boehmi fmnh455385
Merops gularis kunhm8526
Merops muelleri amnh2560
Merops mentalis amnh827455
Merops hirundineus uwbm101445
Merops oreobates fmnh431095
Merops pusillus amnhdot10651
Merops variegatus amnhdot2154
Merops albicollis fmnh396449
Merops malimbicus usnm630885
Merops nubicoides uwbm57051
Merops nubicus nubicus amnh642335
Merops orientalis usnm620424
Merops leschenaulti amnh812115
Merops viridis americanus kunhm27326
Merops viridis amnhdot15043
Merops apiaster msb30071
Merops ornatus amnhdot19747
Merops philippinus kunhm 31027
Merops persicus lsumzb56947
Merops superciliosus fmnh384686
Todus mexicanus msb21984
Todus subulatus kunhm8104
Todus multicolor lsumzb82991
Todus angustirostris kunhm8053
Todus todus fmnh331069
Hylomanes momotula kunhm2182
Eumomota superciliosa uwbm100663
Electron carinatum lsumzb60710
Electron platyrhynchum msb27817
Aspatha gularis kunhm9432
Baryphthengus martii msb27648
Baryphthengus ruficapillus kunhm3633
Momotus aequatorialis msb36688
Momotus mexicanus uwbm114494
Momotus bahamensis lsumzb69333
Momotus m. microstephanus fmnh456580
Momotus momota lsumzb35504
Momotus subrufescens uwbm108166
Momotus coeruliceps unam427
Momotus lessonii kunhm5341
Ispidina lecontei kunhm15590
Ispidina picta kunhm20060
Corythornis madagascariensis fmnh431180
Corythornis leucogaster kunhm29128
Corythornis cristatus kunhm15442
Corythornis vintsioides fmnh431170
Alcedo euryzona amnhdot487
Alcedo euryzona uwbm67494
Alcedo hercules kunhm10160
Alcedo meninting kunhm17720
Alcedo quadribrachys kunhm20004
Alcedo semitorquata uwbm95253
Alcedo coerulescens anwc47173
Alcedo atthis kunhm23444
Alcedo atthis amnhdot165
Alcedo atthis wam22763
Ceyx fallax amnh299259
Ceyx pusillus wam24772
Ceyx azureus wam24816
Ceyx websteri usnmb04042
Ceyx erithaca kunhm10417
Ceyx erithaca wam22719
Ceyx melanurus mindanensis kunhm18127
Ceyx melanurus melanurus kunhm20200
Ceyx melanurus samarensis kunhm31654
Ceyx cyanopectus kunhm25661
Ceyx argentatus kunhm19071
Ceyx flumenicola kunhm20939
Ceyx margarethae kunhm19259
Ceyx lepidus lepidus amnh637099
Ceyx uropygialis ypm74989
Ceyx cajeli amnh637134
Ceyx wallacii amnh637152
Ceyx mulcatus amnhdot20033
Ceyx solitarius amnhdot19845
Ceyx sacerdotis amnhdot19862
Ceyx gentianus kunhm13540
Ceyx dispar kunhm5611
Ceyx nigromaxilla kunhm15893
Ceyx collectoris uwbm66054
Ceyx malaitae uwbm66089
Ceyx meeki meeki amnhdot6641
Ceyx meeki pallidus kunhm32075
Megaceryle alcyon amnhdot16947
Megaceryle torquata kunhm3107
Megaceryle lugubris ioz18907
Megaceryle maxima kunhm19853
Ceryle rudis usnmb28977
Chloroceryle amazona amnhdot6180
Chloroceryle americana msb34157
Chloroceryle aenea kunhm5791
Chloroceryle inda msb37184
Lacedo pulchella kunhm23121
Pelargopsis amauroptera ummz205481
Pelargopsis capensis amnhdot11117
Pelargopsis melanorhyncha fmnh87626
Halcyon coromanda kunhm17710
Halcyon badia lsub45151
Halcyon malimbica kunhm29057
Halcyon senegalensis kunhm19982
Halcyon senegaloides amnh831543
Halcyon chelicuti kunhm26643
Halcyon albiventris msb30063
Halcyon leucocephala uwbm107584
Halcyon pileata ioz18911
Halcyon cyanoventris amnh638779
Halcyon gularis kunhm18119
Halcyon smyrnensis amnhdot17275
Halcyon smyrnensis kunhm23257
Cittura cyanotis amnh299227
Cittura sanghirensis amnh640345
Tanysiptera nigriceps amnhdot19869
Tanysiptera sylvia anwcb32643
Tanysiptera danae anwc27067
Tanysiptera nympha amnh792940
Tanysiptera hydrocharis kunhm7591
Tanysiptera ellioti ypm75060
Tanysiptera riedelii amnh343551
Tanysiptera carolinae amnh301326
Tanysiptera galatea kunhm9585
Melidora macrorrhina kunhm9561
Clytoceyx rex kunhm7120
Dacelo tyro anwcb56401
Dacelo gaudichaud kunhm9180
Dacelo novaeguineae anwcb29831
Dacelo leachii anwcb33378
Dacelo leachii anwcb56231
Actenoides princeps amnh299286
Actenoides capucinus amnh299294
Actenoides monachus amnh299291
Caridonax fulgidus wam22673
Actenoides concretus kunhm21931
Actenoides hombroni kunhm19202
Actenoides lindsayi kunhm19371
Actenoides bougainvillei amnh640159
Actenoides excelsus cef1015
Syma megarhyncha kunhm7143
Syma torotoro kunhm9145
Todiramphus nigrocyaneus kunhm5294
Todiramphus winchelli kunhm28186
Todiramphus funebris amnh467654
Todiramphus pyrrhopygius anwcb55348
Todiramphus reichenbachii kunhm40147
Todiramphus albonotatus amnh777918
Todiramphus lazuli amnh638835
Todiramphus leucopygius amnhdot6658
Todiramphus diops amnh467633
Todiramphus macleayii anwcb33429
Todiramphus australasia wam25183
Todiramphus farquhari amnhdot21376
Todiramphus sanctus anwcb56378
Todiramphus sordidus anwcb44295
Todiramphus chloris kunhm18130
Todiramphus enigma amnh639664
Todiramphus colonus snzptkp2003071
Todiramphus tristrami amnhdot6704
Todiramphus albicilla kunhm22581
Todiramphus saurophagus kunhm27804
Todiramphus pelewensis kunhm23651
Todiramphus cinnamominus usnmb16774
Todiramphus recurvirostris kunhm104171
Todiramphus sacer amnhdot6585
Todiramphus sacer manuae kunhm107630
Todiramphus sacer pealei uwbm89771
Todiramphus godeffroyi amnh195223
Todiramphus gertrudae mhng po3-43
todiramphus tutus mhng hh7-60
Todiramphus tutus uwbm42604
Todiramphus ruficollaris uwbm42805
Todiramphus veneratus mhng po2-88
Todiramphus veneratus youngi mhng hh7-75