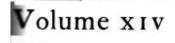


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Adventures With a Pair of Ring-tailed Cats

By Enid Michael, Ranger-Naturalist

Valley one expects to be bothered me that whatever the animals were, by bears and mice, and on rare oc- they were altogether too lively to casions a skunk may prove ob- be skunks. I raised up in bed; the noxious, but really one does not animals apparently became disenexpect to lose much sleep over the tangled and raced for the door. But, doings of a pair of Ring-tailed Cats. somehow in their startled hurried-However, the Tom and Tabby cat ness they found time, or at least one behavior of a pair of these hand- of the animals did, to pollute the some animals caused quite a bit of air. There came to me uneasy senexcitement, some amusement, and sations. The center of my concern many moments of startled wakeful- seemed to be somewhere near the ness and some alarm.

on the cold midnight of May 15. falls? Do skunks, thought I. in the Snugly tucked in bed I seemed to ardor of love, sometimes forget the hea. in my dreams scampering foot- dignity of their race in answer to falls on the canvas roof and then hurried desire. The nauseaus air just as I realized that I was not of the tent was dense with a heavy dreaming there came the clatter of odor of musk. Presently I expectracing feet on the tent floor. Then ed to be stifled. But, instead of the a thud as the animals tumbled into odor getting worse, the air quickly lowed by a series of shrieks and could see more clearly and I reasqueals. In the darkness I got an lized that I had not aroused the ani-"ear picture" of two animals in mosity of a skunk, but had merely mortal combat. For the moment I interrupted the love affair of a pair

When camping in the Yosemite lay still and then the thought struck pit of my stomach. Had I misin-The visitation of the cats came terpreted the clatter of hurried footthe wood pile back of the stove, fol- thinned. And as the air thinned I of Ring-tailed cats.

more of the Ring-tailed cats, for from the top of the table the anisoon they discovered that our kit- mal might reach the handle, but chen tent offered good foraging surely it could not get purchase grounds. Having had much experience camping in the Yosemite drawer open. it became a habit with me to put all food away before going to bed, to bed. Soon there was a patter but one night the butter plate was of feet on the roof of the tent and carelessly left on the kitchen table. a light thud as the cat landed on The aext morning butter and plate the kitchen floor. I raised up in were missing. A search around the bed in time to see the cat moving outside of the tent disclosed the across the floor in the direction of missing butter plate unbroken with the kitchen table. I threw a shoe what remained of the butter much at the beast and was much surpristooth-marked. Evidently an animal cd when she (it was the smaller had taken the butter plate in its cat) did not leap to make her esteeth, climbed the tent wall to the cape by the usual route. In fact crack between the tent roof and there was no sound to indicate that the fly, and made its way to the she was even trying to escape. Auback of the tent and then to the patently a thrown shoe was getting ground without dropping the plate, to be old stuff with her. Out of This was clever work, but there was bed and softly into the kitchen I a show of greater cleverness to come went. The ring-tailed was nowith the next adventure.

awakened by a noise that sounded some box and so I sat down to await as though a partly-filled paper bag anything that might happen. was being dragged over the roof o. chair was opposite the kitchen table the tent. At once the thought came and about three feet away. There to me that the Ring-tailed cat had was no sound, but after a minute or discovered some food that I had ne- two the bread drawer began to slide glected to put away. I got up and mysteriously open. The clever aniwent into the kitchen and found mel had gone behind the table and the bread drawer partly open. I by wedging her body between the was sure that I had closed the draw- tent wall and the drawer she was er before going to bed, but there able to develop sufficient pressure it was partly open and a half loaf to force the drawer open. She seemfigure no way that a ring-tailed taken dry bread to her mate, she

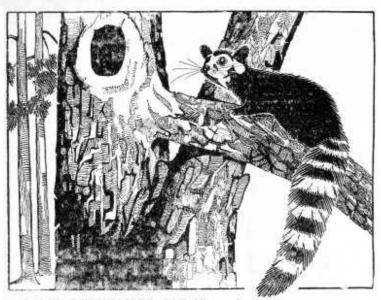
cat could reach up high enough to As it turned out we were to see reach the handle of the drawer, and enough on the table top to pull the

I closed the drawer and went back where to be seen. I thought that On the night of May 27 I was she was probably hiding behind My of raisin bread was missing. I could ed very bold, but probably having

the butter.

Ring-tailed cats and mice seem not to go together. At any rate,

had been sent promptly back for since having nightly visits from the ring-tailed, we have not been bothered with mice.



CALIF. RING-TAILED CAT (Bassariscus astutus raptor).

RED SNOW AT TIOGA PASS

C. W. Sharsmith **Ranger-Naturalist**

recently seen near the ranger sta- eral kinds of algae, of which the tion at Tioga Pass, though it was commonest kind is probably Sphaernot distinctly noticeable until the ella nivalis Sommerf. Really "green" snow bank was walked upon. The plants, the green or chlorophyll tracks made in walking became a clear, pale, rosy red, due to the known as haematochrome. compacting of the microscopic plan. latter gives the characteristic color organisms as the snow was stepped to the cells which, when sufficiently into.

occasionally throughout the high or brown, but these seem to be rare regions of the Park. The plants in Yosemite.

belong to a vast order of simple plants known as algae. Those which thrive in snow just at melting tem-A fine display of "red snow" was pearture are representatives of sevpigment is masked by another This abundant, gives our "red snow."

Not at all restricted to regions of The snow-loving algae may also perpetual snow, red snow is found color snow yellowish-green, green,



The Hudsonian Zone Moves Down (By CHAS, W. MICHAEL)

7,500 feet and perhaps 100 yards hemlocks and color was just beginsoutheast of the point where the ning to show in the buds of Bryan-Eagle Peak trail crosses Ribbon thus and Ledum. A hundred yards creek meadow, there is a wonder- away and up the slope a Hudsonful stand of Mountain Hemlock ian flora could not possibly exist, (Tsuga mertensiana). This is the for here such heat-loving plants as lowest point in Yosemite National Eriogonum umbellatum and Spra-Park that the hemlocks are known guea umbellata were in full flower to grow. These hemlocks, along Evidence would seem to indicate with their usual associates such as that the main physical factor that Bryanthus, Kalmia, Ledum and determines the prosperity of this Vaccinium, form here an island of little colony of Hudsonian Zone Hudsonian flora disconnected from plants is temperature, and not alother Hudsonian territory by a dis- t'tude or moisture. tance of many miles and at least : While it is true that in especially thousand feet of altitude. Here is cold sections one finds islands of an island of Hudsonian flora com- Hudsonian Zone flora surrounded pletely surrounded by a sea of by Canadian Zone flora. reverse Canadian flora.

h-mlocks and their Hudsonian as- surrounded by Transition Zone sociates grow happily 1,000 feet be - plants. A striking example of Uplow their normal range is that here per Sonoran flora 3,000 feet above there happens to be a pocket of the normal range of altitude is to Hudsonian climate. As evidence of be found on the south facing slove the cold climate of this section there above Emerald pool. Here is found was on July 4, 1935, banks of frozen a stand of Ceanothus cuncatus, x

At an elevation of approximately snow still lying at the feet of the

conditions are the case where Up-Doubtless the reason that these per Sonoran Zone plants are four !

plant of the foothill district that has panicle of flowers was white inaltitude and 15 miles in distance. Ceanothus cuneatis is common about El Portal, 2,000 feet below the floor of Yosemite Valley. Not a single Ceanothus of this species has been found in the Valley, and yet 2,000 feet above the Valley on the hot slope above Emerald pool there is quite a stand. Here again it appears that the physical factor which permits a certain plant to thrive is temperature, and not altitude or moisture.

It is an interesting fact that the Pallid Wren-tit (Chamaea fasciata henshawi), who is found in association with Ceanothus cuneatus at El Portal, also completely jumps Yosemite Valley to appear in the Ceanothus thickets above the Emerald Pool.

A NEW FLOWERING PLANT IN YOSEMITE

by Ranger-Naturalist Enid Michael

After living in the Yosemite for 16 years, and during that time observing and studying wild flowers, it is a thrill to find in the familiar meadow a flowering plant that one has never seen before. This good fortune was ours on Sunday, June 25, 1935. In the grassy meadow below the Old Village we came upon the strange plant. In general appearance it was not unlike the Meadow Goldenrod save that the

made a clear jump of 3,000 feet in stead of yellow. The plant apparently was one of the Galiums, but one I had never seen before in Yosemite or elsewhere,

> A perusal of Dr. Jepson's Manual of Flowering Plants, disclosed the stranger to be Galium boreale, a plant of wide distribution.

A VICIOUS DRAGON-FLY

By Ranger Naturalist Dwight C. Smiley

An incident which showed the vicious nature of a dragon-fly was observed on August 9, at 2 p. m. The writer was hiking along the Glen Aulin trail one mile from Tuolumne Meadows when a loud buzzing was heard near the trail. Investigation showed two dragonflics in a fierce battle. From a slight difference in their size and a marked difference in coloration. it was judged that they were of two different species.

The larger of the two was lying back downward on a flat piece of granite. The smaller dragon-fly, also back downward, was clasped by the jaws and feet of the larger. The jaws of the latter were patiently and dog-edly chewing through the chitinous covering of the neck of his victim. There was an audible crushing sound. At the same time the victim was struggling with all the power of four wings to release itself.

The chewing and struggling con-

The head of the attacker CONDITIONED RESPONSE tinued. was gradually disappearing within the exoskelton of the unfortunate victim. After ten minutes twothirds of his viscera was gone yet he continued to struggle. The larger fly was eating the left side and internal part of the smaller fly from the neck toward the rear. Having arrived at the base of the slender abdomen, he neatly clipped it off, and continued to eat the material at the head-end of the abdomen.

The observer turned the flies right side up. Whereupon the forward part of the smaller fly started to walk away. The escape was thwarted by the right forefoot of the cannibal fly which was placed calmly but quickly on the back of the escaping part.

Having finished with the forward part of the abdomen, he continued his meal on the struggling frontal portion. After ten minutes of continuous eating, as above described, he abruptly flew away. The small, partially eviscerated dragon-fly continued to struggle and even walked an inch and a half though he was minus the rear part of his hody and two-thirds of his insides. This might be pure reflex action as was certainly the case in the curling and uncurling of the abdomen which was lying alongside.

At the time the observer left, mother nature was starting to clean up the remains of the victim. A spider, the size of a pin-head was starting to work on the abdomen

IN THE GOLDEN-MANTLED GROUND SQUIRREL

(Ranger-Naturalist D. C. Smiley)

At Glac'er Point, elevation 7214 feet, there are at least two dozen Sierra Nevada Golden-Mantled Ground Squirrels (Callospermophilus chrysode rus chrysodeirus -Merriam) which willingly eat peanuts from the hand of visitors. The cur'o shop docs a rushing business in nickel packages of peanuts, all of which are wrapped in cellophane. It is evident that at least one of these little animals associates the sound of crushing cellophane with the functions of eating peanuts.

On June 20 the writer was standing on the east porch of the Glacier Foint Hotel. It was fifteen feet to the ground below. A Golden-mantled Ground Squirrel was on the ground scurrying around looking o: edibles. When the writer wadded up a piece of cellophane, the lit le fellow became greatly agitated. He sat up, located the source of the sound, then rushed here and there, every few hops sitting up to look for the peanuts that logically should be showered down at him.

Again the question of intelligence in animals arises. The writer offers no further arguments pro or con on the much debated subject. However . the behavior of this ground squirrel was similar to the human behavior which may be observed any day in a small boy who smells a fresh batch of cookies.



The Bird Feeding Trav

By Ranger-Naturalist Epid Michael

dard raises the tray about five and breasted Nuthatch and the Mounone-half feet above the ground. The tain Chickadee. The boldness of tray is kept well laden with such the little nuthatch gives him an adfood as bread stuff, suet, melon and vantage over the other birds. melon seeds. Many species of birds will peck away at the suet while find food to their liking, and as a I stand but two feet away, result there is an almost continuous bread-line. Red light reflected from water-melon rind glorifies such yellow or orange-breasted birds as robin, grosbeak or tanager as they lean over to feed. Five species of woodpeckers patronize the suet, and this food also attracts nuthatch and chickadee. The Blue-fronted Jay is an omnivorous feeder and alco an accumulator-after eating his fill he always carries something away. Food that he does not share with his family he carefully stores away for future use. Our Blue-fronted Jay is a muchly maligned bird. He has the reputation of being a bully table is the Sierra Chickaree. He and a thief, a reputation that is so widespread that it is generally accepted without question. An unprejudiced study through the years will lead one to admire and respect

Just in front of our tent in Camp Two small birds that come often to 19 is a bird feeding tray. A stan- our offering of suet are the Red-Ha



Blue-fronted Jay

Another patron of the feeding is a very active little squirrel and by climbing into the azalea bush he can leap onto the tray. Such feasting as did the little chickaree made the clumsy ground squirrels

squirrels had to be content with the ments, then by hooking his hind crumbs that fell from the table. For claws into the last gnawed nick, many days they looked with hungry and by leaning far out, he was able eyes at the plentiful supply of food to get his front paws onto the food just about five and a half feet above tray. Swinging free with his hind their heads.

standard that supported the tray meal. was too slick to climb. At last a The ground squirrel is not one of ground squirrel more clever than my favorites. To me he has an unhis companions solved the problem. prepossessing appearance. Rat-like One morning I looked out of the he sneaks low to the ground, his tent and saw a ground squirrel eyes have a pig-like expression. As gnawing at the slick standard. At a matter of fact, I can almost hate first I thought that there must be him when I catch him red-handed same salty flavor in the wood that robbing a bird's nest of eggs or appealed to his taste. I watched the young. However, the cleverness of squirrel for a long time-perhaps 20 this one ground squirrel I cannot



Mt. Chickadee

minutes. He was gnawing to a purpose. A nick in this side of the undisturbed through many, many standard, then a nick in the other years. Undoubtedly the rings are side-slowly he cut steps up the the work of human hands, but what standard until he reached the un- sort of human hands laid them out, derside of the feeding tray. Here and for what purpose? he clung for several baffled mo-

legs he hunched onto the tray and The leap was too great and the proceeded to enjoy a hard-earned

> help but admire, and so far I have not removed his stairway to the feeding tray.

INDIAN RINGS ?

By Enid Michael, Ranger-Naturalist

On the Turtle-back Dome above Yosemite Valely laid out on the acres of bare granite, are a series of age old rings. Nicely placed slabs of granite, one layer deep. form these rings, which average 12 feet in diameter. Some of the slabs are beginning to disintegrate; all are covered by a lichen growth.

Apparently these rings have lain

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