SOME REMINISCENCES OF SPORT IN ASSAM

By

H.G.H.M.

PART I

Sibles and love of the purple life must be one of the inhermaces in my moleculy and only development in this direction, while he much soleted by the environment of my early years. All the much soleted by the environment of my early years. All the development of the many control of the past control, and other control of the past control, and an extension of the new control of the past control, and an extension of the past control of the past control, and an extension of the past control of the past control, and an extension of the Particles and the Paight where small game shooting, and the articled good unique for comparisons abiliary later on collecstified good unique for comparisons abiliary later on collecstified good unique for comparisons abiliary later on collecmented good unique for comparisons abiliary later on collec-

After some eight years of life in the plains I was fortunate in being transferred to Assam where, except for the years of the Great War, I served for another twenty-five years. During all these days in Assam, a country which has been said to consist of jungless and ten planters, many opportunities of sport were retervitive memorary that I will how embade. Under from an unmanily retervitive memorary that I will how embade.

Though I had been in Dhubri several times I had not met the Rajah of Goalpara until I was posted to the Goalpara District as Civil Surgeon, but shortly after taking over charge I called on him. Of course I had beard about him as a sportsman and an extraordinary shot, both with rifle and gun, but was surprised to find him a delicate, nervous man of retiring disposition. At the time of this meeting I had shot specimens of most of the big game to be found in Assam, but had never been able to bag a tiger, though I had sat up very many times, both in muchans and on the ground, without success. I had always been discovered and it appeared to me that I was always detected from the direction the men had been working on the muchan, and this was usually from the back. I am convinced that a tiger, if at all suspicious, and they have always been so on the numerous occasions I have waited for them, circles round the 'kill' to make sure, before approaching it, and my humble opinion is that they get the scent of the men who have made the machan, and having got this scent soon discover the waiting sportsman, for their bearing is so keen that the very slightest noise will be heard and, suspicions aroused, they very soon know exactly where is the hidden danger. The tiper may now go right away, or he may lie concealed in the jungle waiting developments. If the shikari leaves his machan or other concealment after dark the tiger will very frequently partake of his deferred dinner, for he now well

still it can be inten as certain, that he is assays be good and vill in some offer locality, see terming to their bill, and the impression in given that they just did not come back. This is entirely worse, for a tiger bills to eat, and the reason for the interestion in given that they just did not come back. This is entirely worse, for a tiger bills to be a figure bill to be a figure bill to the come back and discovered danger. I have enough transit has come back and discovered danger. I have enough transit and gradual detect vent of mean and artimate. Their secure of used, they have been depended in with due or all below rate, a by a sufficient hand to be a sufficient of the common district of the common detects of used, they have been of the common district of the comm

at all how is it that they follow deer when they change their feeding ground? If they do not follow by scent how do they manage? Yone of the writers give a reason.

A tiper does not hunt altogether by scent; if he did he would never go hungry and no animal would ever escape. He artually have been supported by the second of the second of the house of the second of the second of the forms him free his food, whatever it may be, is in the particular locality and, knowing this, he uses his second localing and of sight to pro-

cure it. The Rajah of G-, who has taught me almost all I know about tigers and their habits, returning to camp of an evening has said to me, 'of course you know where to find tierer during the day -all streams, the thicker the cover the more does the tiger appreciate it, for it means concealment, coolness, and shade; but do you know where to find the tiger in the late afternoon and evening?' I did not know, and said so. 'Well', said he, 'you will find them often on an open plain behind a bush or tuft of grass which you would say could not conceal a tiger, and it would seem impossible that a tiger should be there. This fact has been demonstrated to me on many occasions. A tiger coming down through thick jungle growing on both sides of a small stream gets the seest of cattle; he remains in the cover during the day; as late afternoon approaches he emerges and comes to the edge of the plain-to survey abandoned or recent cultivation where the cattle are grazing. Hiding behind cover that one would think would not conceal a have he waits until a cow or calf comes within distance, or be may cautiously shift his ground to be in a better position for the attack. On many occasions I have seen tiger dislodged from bushes you would have said to be impossible for concesiment of such a great beast. He will allow elephants to pass him on all sides without moving. To find tiper in these

positions every bush or isolated patch of grass should be searched by the beating line. In these cases the shot is usually a long cue.'

On one occasion I was out after bear, and while on my way to their battets some villagers ran up to say that a tiger had just killed a cow pear their habitations. This killing had taken place at 10 a.m., in the plains, at the foot of the Garo Hills and not far from the Dalu Inspection bungalow. It seemed that the cow was not dead when the villagers ran up to it, and in their anxiety to get it away they tried to make it rise, and in so doing pulled the body round completely so that the head was facing to the opposite direction. I went up to the small hill on the other side of the road and having selected a position got the people to cut away some of the jungle so that I could get a clear shot towards whichever direction the tiger might approach. I felt certain of a shot, asthe well from which women had been drawing water when the kill took place was within 15 paces of the kill. Such is the boldness of the unhunted tiger; and I felt sure the animal would return late in the afternoon, and before dark. At 4 p.m. I heard the noise of an animal coming down the opposite hill and thought it must be a sambur. It came near the kill and I did not hear it move away. While the animal was approaching down the hill, and for a considerable time after, a squirrel on a tree behind me was very noisy. It was not scolding me, but because it had seen the animal. I sat perfectly still, and made no movement, so could not have been detected by sense of hearing. The azimal went. and the reason I had not heard the departure was that there was a game path and the two tigers had gone away by this! When I, the enemy, was discovered, it is difficult to say; and how and why they discovered me it is difficult to say. The matter remains a mystery. I waited until dark and then returned to the bungalow. It was found next morning that the tigers had not visited the kill proving, to my mind, that I had been detected. But how? It must have been by scent, as my small hillock was on the opposite side of the road from the larger hill down which the tivers approached. The village was fifty yards to my right. I was sitting on the ground in midst of a bush, made no sound, and could not possibly have been seen. Maybe I was not detected and the tigers sheered off because the kill was not in the position they had left it, for it had been turned completely round. But such jungle tigers as these should not have been put off by this. Very little clearing of twigs etc., had been done near the kill. The villagers knew me, and knew that the reward I would give would be divided among them. No: there was no badmashi in this instance. Had the kill not been moved would the tierrs have fed on it? Perhans. The moral of the story is that nothing can be left to chance: the kill must not be moved, the sportsman must not move, and the breeze must not be from the wrong direction.

It is within the experience of many sportsmen to be 'seen off the 'permisse' by a fiver. The last time I waited for a tiger was at a shooting and finding spot—Nechuguard, at the foot of the Naga Hills and the commencement of the Nanbur Forest. Late in the afterioral I come on a fresh figer lidil and quo behind a bash in the hore that articles would reman desire daylight; a such spot and the spot of the stricts and the spot of the spot of the slice was 3 or 4 miles away from the road I With ne was a Gurkha led. We left at dusk and were two miles from the road when position in dense cover and close to the road.

This was in 1010 after return from the 1014-18 war. Kalia

it became dark. All the time I sensed I was in great thanger. I had seen and beard nothings, but yet was in a trevible and uncontrollable fright. On reaching the road I was in a bath of perspiration. Asking the boy if he feet sirabile be registed that he had been so frightened that he could not speak. He knew we had been so frightened that he could not speak. He knew to be similar to the could not speak to the

am nightly deal. The lad had wented to left me but could not a lad attacher curious, and fortunate, experience. Arrived at Grappins, the ascord stage on the way to Dait, Gear Hills, on the country of the country of the country of the country of habitation, I work for a wall in the affermous and saw the pagmodes of figer doug the road. With the aid of my could, provide the country of the country of the country of country of the country of the country of country of the coun

(the cook) cut sucks and made a rest for the rifle, using my khaki pillow case to wrap round the wood to prevent barrel-iump. Had the tiger come along I would have had an easy shot. Before going on Service I had sold all my weapons and all I now possessed was a 20 gauge shot gun and a 22 H.V. Sayage Magazine Rifle. At about this time I had read a lot about the 22 being ideal for tiger. The writer said that he was with the Prince of Wales' shooting party in Nepel and was using this weapon on that shoot. He must have arrived at his opinion on the weapon from one lucky shot, and without further experience, for I have seen the 22 H.V. used on tiger a number of times and can say it is certainly not a weapon to be used against any of the big eats; not fair to the shooter lumself, to his companions, or the game. All this is by-the-way, for the expected tiger did not appear. Next morning the cook went early to recover the pillow-case, which had been forgotten, and returned to tell me to dress quickly and see what had happened in the night. This is what we found. A known rogue elephant of the locality had come along the road, scented the pillow case, gone straight to the spot, removed the rest-bar, stringed off the pillow case by putting his foot on the bar and pulling off the cloth, and then walked back to the road where he left it in the dust. Fortunate for us that we had come away before the elephant came along, for the 20 bore gun

and the 'az rifle would have done little damage and caused an already testy temper to be exceedingly violent?

On my taking leave from the Raiah he laughed in his nervous way and said to me. You will shoot vour first tiger in April. I will invite you to my camp, but the notice will be short, as when ritger are about a armgements for the hunt have to be made very entickly. Thanking him, I returned to Dhubri which is some divenilles from Gauritium.

It was perhaps two weeks later that I received one morning the expected invitation and request to be at the Ferry that afternoon at 3 p.m. My wife accompanying me, we not the Rajah as arranged, and having crossed the wide Brahmapootra river to Fakirsani drove in a dog-cart to the camp which was situated a few miles from South Salmara.

Next day being Good Friday I said I would rather not go shooting, so the Rajah went to a locality where tiger would not be disturbed, to shoot some deer for the camp followers who needed meat. To keep the camp contented in this respect makes the people keen and willing. While he was away I had been to the South Salmara Dis-

pensary and on the way back was informed by a small boy that a tiger had just killed a cow and dragged it into some jungle. Very excited was the mahout, and also crestfallen when I explained that the pipe I was smoking would not be of much avail! When Gauripur returned to camp in the evening we talked the matter over and it was arranged to start at 10 the next morning.

Having learned that the Rajah expected great punctuality on such occasions we were ready ten minutes before the hour. We were to meet Royalty-The Royal Tiger-so pad elephants had to be in position ten minutes before the hour; guns and guests on the pads by ten sharp; howdahs, spare elephants, and beaters ready at the meeting place when the Raiah and his party arrive. By 11 a.m. we were on the ground. The plan shows the position of the 'kill' and the lay-out of the beat. Arrived at 'A' the Rajah called up his bead shikari and after hearing what he had to say went off, as is his habit, to see things for himself. He followed the 'drag' cautiously, and very slowly, until he found the remains of the cow. Then he returned and came again to A and proceeded to B. almost immediately finding the 'animal run', or game track. This he followed on towards the river, and being satisfied that other 'runs' did not exist in that particular portion of the jungle returned again to A, where I and my wife were in the howdah on back of the mighty Jung Bahadur. Now he said to me, 'If you will permit me to explain I should like to tell you something of the art of driving a tiger in a particular direction'. I assured him I would be only too glad to learn for I knew nothing of the game. While this was going on the elephants were collecting at D-with them one bowdsh elephant. 'Well', said be 'the first thing to note is that if I attempted to drive the tiger in the direction of the fields he would refuse to

go, and would fight. Whenever it is possible the tiger must be brought to the gun without approving him, and so ensure a quiet and fatal shot. The next point to remember in this particular drive is to drive very slowly and without any noise; just the slow forward advance of the elephants is sufficient: this will keep him from crossing the river. Were he heaten out with a great noise the tiger would be scared and would be certain to rush to the

river, jump in, and swim across. A great aid in preventing the riger going to the river is to keep the line of elephants diagonal, the right end advanced along the river bank with the howdah elephant on the Nulla side in the open as far as possible and some distance in advance of the beating line and in line with the leading elephant. When the tiper hears the elephant on the river bank he will not hear those farthest away, and as the howdah elephant is not in the jungle but walking just outside he will not hear him except when he comes out and sees him, and that will make him go back into the jungle. The best continuing in this diagonal manner will edge the tiger away from the river and quietly swing him on to the nala side, which is your side, and when the tiger reaches the 'animal run' he will follow it and give you an easy shot. If he attempts to cross the river I will take a long shot.' He then took me to B, and Jung Bahadur was ordered to push down a small tree so that it would fall towards the nala. Then some grass was pulled away until the animal run could be seen entering the lighter jungle just as it nuitted the tall grass and heavy cover. 'Now', said Gauripur, 'your tiger will appear there', pointing to the exit of the run, 'I will take post at C. Mark the line of heating elephants coming into position with the aid of your binoculars, and carefully watch the 'hullee', as the shaking of the grass tops is called when the tiger moves from place to place, for that is your sure indication of the whereabouts of the tiger.' Then he signalled to the line to advance and went off to his selected position at C.

Soon came the signal from the fine that the tiger had been found in the rose-bush cover. 'See', called the Rajah, 'the tiger is now in the heavy jungle, watch the 'hullee'. Carefully I watched the 'hullee' which followed zig-zag between the nala and the river. Suddenly it ceased and I knew the quarry must be in the animal run. Now my pulse hammered rapidly and my heart thumped, for the Royal beast was at hand and my excitement intense, Slowly I brought the rifle to bear on the expected place. Sure enough, there, where the Rajah said it would, appeared the head. and soon the line of the back was plainly visible. I pressed the trigger and experienced a thrill of delight as I saw the tioressfor it was the 'Oucen' and not the 'King' on this occasion, fall over on her side. I had used a .280 double rifle and was still covering the animal when the Rajah came up. The distance from muzzle to animal was not more than 15 yards. Jung Bahadur is a very tall elephant and the tieress was below me and slightly to my left. 'Good shot' said the Raiah, 'but it is always wise to put in a second bullet, for it does not damage the skin as most people think'. But this time I had brought the rifle on to the bowdsh rail with the muzzle pointing skywards, as is the strict order of the Rajah. The beating elephants were crowded around the place so that I could not with safety deliver a second shot. I said soand the head shikari, who heard my remark, was told by Gauripur to tell the mahouts; and to tell them also that by crowding round in that manner they stood a good chance of a bullet if the person in the howdsh became excited. In the evening I was told that I had gained the confidence of the mahouts and that, to a sportsman, spells success. 'Now the mahouts will trust you' he told me, 'and that is half the battle in timer shooting,'

told me, 'and that is half the battle in tiger shooting.'

I handed my rifle to the Raish and he set in the second shot 'to make sure' saying to the mahouts that I had wished it. The-

a very possible retreat for a tiger. Towards the end of the beat my mount, Jung Bahadur, whose howdah was occupied by my wife and I suddenly stopped, as he was almost on the top of the crouching tiger, which growled at him and started the adjacent elepasnts trumpeting and making the well known metallic sound, sure indication of a tiger in the vicinity, by beating tre ground with curred-up tips of their trunks. All this indicating that the tiger was likely to try and break back through the line of elephants. The Rajah called out for Jung Bahadur to be at once taken out of the cover, and just as we emerged into the open a shot was heard, and immediately upon that came a shouted instruction from the Rajah for me to go on with my elephant and kill the tiger struggling on its back. This I did, with two shots. as June Bahadur was steady as a rock. The Raiah was pleased as a boy would be, although this was about his three hundredth tirer, for the shot had been a long one, something like a hundred and thirty vards. The Princes and Rajahs of India are many of them marvedous shots note with rifle and gun. They have plenty of practice! In days long gone by, an Indigo Planter held the record with 1000 tigers to his own gun. There is at the present time one Ruler in the centre of India who has shot over 600 l This animal was a tigress a little larger than the one I had killed earlier in the day. The rifle used by the Rajah was a

rite weapons were a .577 and a .450, both black powder rifles. After the tiper had been padded and sent to camp we beat out the cover again as pig had been seen, and I shot one with my .280; killing it dead-a close shot. That night we had a long talk on shikar and of course the day's sport was discussed in detail. My wife was asked what she thought of tiger shooting. 'It is very interesting and very exciting', she replied, 'but that tigress you brought out to my husband was well trained; was a Viceroy's tiger, blue ribbon round its neck sort or total . 'G' laughed and said, 'I hope to show you, if not on this shoot some other time, that all tigers do not wear blue ribbons. If the danger is not too great I will make a tiger demonstrate for your edification.' The next morning it was not long before the quickly descending vultures had picked clean the bones of both the animals dragged into the open for them to demolish. There was the usual fighting, screaming, and scrimmaging, with sometimes that rug-

.465 by Holland and Holland which had been presented to him when he was a boy by the old Maharajah of Knoch Bihar as reword for his already marvellous shooting. His other two favou-

of-war, when two birds have either end of a tasty morsel, which is so amusing to watch and at the same time a somewhat obscene spectacle. On the Monday morning we went to a place indicated by the scouts but it turned out that the kill was a very old one and the Rajah was proportionately annoyed. 'However', said he 'we may as well beat the place. I will place myself just in front of that path which passes through the jungle. The beat was in progress when a villager, walking along behind my elephant (J.B.) spoke to the mahout. 'What are you looking for? but he. Mahous do not usually possess a series or numor, but Mats, he repact. The vanager due not even augus that said, 'If you are looking for tiger, there is one assessment and the possessment of the said, that the upper some force. There is most a two passed in these possions for the slote, but the upper scross force. There is most proposed to the upper some force. The tiger was able to pay any companies of the said of some bending some game because we could paid a doubt a dome bending some game because of the other than the said of the sai

male tiger. Not rar from this place another tiger was put up in a large natch of grass jungle which was beaten on the chance of it hoseing sometning. Here was an opportunity for the Raish to show how to make a tiger demonstrate. This he did by driving hertor it was a tigress-towards some fields. Naturally she objected, and went up and down toe line of elephants growing and jumping up at almost every one of them. As she jumped the elephant would roll up its trunk, screech, and back on its hind legs. Again the shot was to be mine but I was looking to my right when the beast passed close to my left. My wire pointed and called to me but I was too late and the tigress disappeared into thick cover. 'Now' said the Rajah, she will probacily charge, and if she does you must get off two shots, for even it you miss this will be likely to bautk ner spring at the e-cohant. Or course she may not charge, and perhaps give you an easy shot. Good luck,' and he turned away. When the tigress broke she jumped out with a grunt and instead of charging galloped in and out among the beating elephants just emerging from the cover. It was impossible for me to fire and she got away into the open. 'G' was behind me and to my right. He waited until the beast was well clear, and then killed her stone dead with a shot in the the shoulder which turned her head over heels. The distance was something like two hundred yards. Not many men are there who can bring off shots like that,

We find only just moved off when there was hard a sind Protespoor's. All except my wife and I lower what the porposition of the control of the control of the control ined into sortion. Right and left all the elephants made aft in the cover into well-the fluid protesting of the cover into well-the fluid office. The cover is the cover into the cover in t It has been suggested to me that I should have fired a shot at Sibjee, but that was impossible both on account of the motion and the fact that the mahout was still on Sibiee's neck wielding his ankus with tremendous digs deep into the bead and then pulling hard on the heavy iron implement with all his strength. The chase went on for near a mile, and at last Sibjee's manout got the animal under control by pulling a blanket from under hum and putting it over the maddened beast's eyes. The great danger had been lest LB, should have attempted to turn to meet his assailant. In course of doing that he might have been struck sideways and knocked over, with perhaps fatal results to all three on his back. That this might occur was in the mind of the mahout for LB, had once been used to catch wild elephants, being sent into the stockade to punish recalcitrant tuskers, a duty which he used to do very thoroughly. That was before he came into the possession of his present owner and when he had belonged to the Rani of Bigni. Had J.B. started on Sibjee he would have made a thorough job of it; and what would have happened to us! Our mahout aid the right thing by beavily punishing his elephant in order to get him clear of the assauant as soon as possible.

After a while J.B. calmed down and quietly grazed with the other animals gathered around us. Besides his keedah experience J.B. had at one time been used as a fighting elephant at displays of that kind: he would have given Sibjec a great thrasmog.

Siblee had been known as unreliable having killed several mahouts and grass cutters, but this was the first tune be had attacked an elephant. Years after in a occurrence he attacked a female elephant, upsetting her and killing her mahout, after which he was used only as a provision carrier and kept a mile or so behind all other elephants. The sight of a tiger seemed to upset him. After we went to Bangalore the Rajah most kindly sent us an invitation to another shoot saying, 'I hope Mrs. M. will come. Tell her that Sibice is dead and she need have no fear of such an occurrence again.' After that first shoot we went to many another but my wife had had too nerve-racking an experience and always remained in camp. Next morning the shoot was closed down as the mahouts were rather agitated over what had happened, and when in that state of mind would not work well. The elephants swam across the wide Brahmapootra and we returned to Dhubri well pleased with our first experience of tiger shooting and grateful to our kindly host for having afforded us the ever memorable experience.

Many have been the shoots I have been at since then, but that first one will abunya stand out as the shoot.

At time of preparing these reminiscences for the Natural History Journal I received with much source the sad news of the death of my friend, the much beloved Rajah of G. He has groun, as the humalf said when the shoot of the death of the said with much pleasure and interest the first two parts of this series and I, holding his ememory in affectionate rememberance, any glad that was so.

Since the shoot above described the Head Shikari referred to

hay also gone to the Happy Hunting Grounds and the elephants sibjee and Jung Bahadar are also dead. Stories about them will be related in that country for many years to come and the Rajah will always live in the affectionate memory of his people.

(To be continued)

NEW SPECIES OF CEROPEGIA AND THE SYNONYMY OF THE INDIAN SPECIES.

CHARLES McCare, F.L.S.

For the past let your I have been sittifying the Indian species of the geome Corelegion. My satisfies have been carried on in the field, and are possible, and at the asset them. I have examined the late of the conposition, and the past of the control of the control of the works including some to licitify our me the material for examined and works in abone complete, but unfortunishly, ordegs to the present paper include, work in abone complete, the tuberinalishly, ordegs to the present paper includes work in fact. However, I find that in spike of all the receivines of lenst fine works in the control of the control of the control of the control of the other papers and the control of the control of the control of the other papers and the control of the control of the control of the received with the published that that the proper operationally.

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^{4644.} Addi. to 4646 & 4648 to 46501 4800 (Co-types Horb. McConn); Smitapass

1 Named in honore of the late Mr. F. V. Evans of Liverpool who helped
nor much for many years in carrying on my relearch work.

Ny thuskes are due to Rec. Fr. H. Smitapass, N.J., for the Latin descriptions.

Junior who gave him a mortal wound with a heavy conical bullet from his 12 bore Paradox. The wounded beast then passed

through a clear space, going slowly, and Dorothy got her first view of a wikl tiger, and a big one too. I fired and he rolled over into the grass. A fine beast measuring ten feet over the curves. I have always considered skin measurements over the curves to be the better method, as it is then possible to compare lengths of animals with those shot in the years before the peg-to-peg measurements began to be considered correct. The difference between curve and peg measurement, if each are properly taken, is some six to eight inches. The twelve feet tigers of former days were the result of wet skin measurements, skins after removal from the animals being pulled out as far as they would go thus giving the annearance of a striped python on the ground. A friend has recently told me that he himself read the original report of a sportsman who wrote, not twenty years ago, to the Civil Officer of the District that he had just shot three tigers 12 ft. o.in., 12 ft. 7 in, and 11 ft, 10 in, in length! That was the method employed:

so the foolish practice seems to still exist. One day four tigers were obtained, one of them being shot by me with the .280. My daughter now begged to be allowed to shoot a timer, and the Rajah said he knew this request was coming as he had received a letter from her husband saving 'she is a very good shot at a target'. 'So', said G. 'your girl may have her chance provided you take charge of her and see she makes no mistake'. To this I of course agreed and the beat next day was arranged for her benefit, but so that she could only fire in one direction, the elephants of the brothers M. being on either side of ours. G. lent D., which will stand for either Dorothy or 'Diana'. his D.R. aso black powder rifle. The tiper was pressed forward. but seeing our elephant waiting for him growled and went back into heavy cover where he demonstrated against some of the elephonts causing them to scare. G, then went to the besting line and brought it along very silently.

Being over anofous that nothing untround thould happen: I bould D's rite in the lith barred only, letting her to pell the left normal bound D's rite in the lith barred only, letting her to pell the left normal D, palled the right and not the left trigger. She had a government D, palled the right and not the left trigger. She had a government D, palled the right and not the left trigger. She had a government between hooled. Of the left had been hooled been hooled of the left had been hooled been hooled by the left had been hooled

The author of this series read the almost completed compilation, culled from his several Note Books, before he became ill early this year (1944).

Major H. G. H. Munrowd was not, unfortunately, a member

of the Bombay Natural History Society. His death took place at Bangalore on the 21st March 1944. All members will be at one

with the Committee in expressing regret to his family that he should have passed away before seeing his experiences in print and contributing, as he had hoped to do, some more of his interesting Assam Reminiscences.—Bds.

(The end.)

THE RIDDLE OF THE BEARDED PIG.

A PROBLEM OF DISTRIBUTION,

J. E. KEMPE

(School of Oriental and African Studies, London University)

(With 4 plates)

Three distinct species of wild swine have for long been recognized in the western portion of the Malaysian sub-region, that is the area (excluding Celebes and the Philippines), lying south and cast of Burms, together with a number of somewhat disputable loud forus. These are Sua cristatus Goral representative of Sus scrufa of Europe and western Asia including India and Burms), S. barbatus of Sumstra, Borneo and the Riau Archipelago and S. perrucceus of Java. The last is not of interest in this discussion and may be dismissed. S. cristatus and S. barbatus overlap and occur together e.g. in Sumstra. But that the only wild pig of the Malay Peninsula was S. cristatus was never in question until 1918, when Dr. W. S. Leicester of the Malayan medical service. stationed at Pekan in the State of Pahane on the east coast of the peninsula some 160 miles directly north of Singapore, shot the sow of a species new to him. Dr. Leicester kept a pack of mongrel dogs and for some years hunted that remote country as a regular pastime. He apparently shot several half grown young pigs as well about the same time, and in December of that year sent the sow's skull to the Director of Museums at Kuula Lumpur (the late Mr. H. C. Robinson). The latter, in his own words, found 'the occurrence so remarkable and so at variance with preconceived ideas of geographical distribution, that, pending further evidence, it was not considered advisable to place the occurrence on record'

These the matter rooted till Steplensker 1921 when the oritors testioned at Pelan m Detect Officer and quite namewor out the fore-stated and pelan and the pelan state of the fore-stated large Christian with whom he frequently board. Chris had been similed thought Geneb a weak before, a rule are two coals of the similed at thought Geneb a weak before, a rule are two coals of What, happened the man was its great height and height Geneb and the state of the similed and the similed of the similed and the similed and the similed of the similed and the similed of the similed

46. Knjeng. On the Mahamadi 40 miles by road from Cuttack. Raja's Bangahow 41. Chamilton. Travellers lumphor. Where the tide receder for miles. About 12 miles from Balator miles.

Great fishing for Cook-up, after the Monsoon, a few miles below. Good fishing from country craft for Cook-up, etc. in deeper water. Season November to Jaccary. A few flat-bottomed boats aveilable. Local fishing mostly with stake-cets.

SOME REMINISCENCES OF SPORT IN ASSAM.

H. G. H. M. PART II

(Continued from page 200 of volume 45).

It may be as well, before proceeding to relate further shooting reminiscences, to say something about the rules regulating the sport of hunting tiger with the aid of dephants. In this matter of the right way and the wrong way to do things the Rajah of G—was very particular, and rightly so, as carclescones in the hand-

Sing of warpons has consisted in our in few factal accelerate.

A take and invidends rule is that, when the effect or gas in
A take and invidends rule is that, when the effect or gas in
sing from a "duaginush" or a plain part, it must be held—still
accelerate factor—with the ensure frozing operates. This
could be a subject to the contraction of the cont

On one occasion I resumelenced that I had forgotten, this, and went but, thin to find the bounds depends and subsidier yet for the contract of the contract of the contract of the contract using a very barry rife, I was promitted to stand in the bounds and the contract of the contract of the contract of the contract part of the contract of the contract of the contract hadding a barry weepen with the emusic sequence and the best "Ver said the Rajals," you may be that and so what the emsuals are contracted to the contract of the mathest and "Najals" and pointed upwarch. I saked the to stand you are not been feel to understand the time for granted and

[&]quot;It is regretted that thereofs an error the author's reminiscopeca have been associated with the 'Raja of Goalpera'. The second lies of paragraph 3 of Part I of this article, published on page 100 ct of No. 3, should read:—Raja of G.— until I was possed to the Goalpera District.—Ray.

and once they distrust a sportsman it is good-bye to his chance of bagging a tiger. The next day the Rajah said to me, 'I see the mahouts have granted you permission; you are a privileged person: not to everyone would they accord their consent in such a vital matter,' As in small game shooting under ordinary circumstances, so

in tiger shooting from elephant-back, shots across the front of the line must never be taken. On one occasion a relation of G's Dewon shot across my front at an imaginary tiger and was exceedingly angry when his elephant was ordered out of the line; but he had to go. The Rajah made no exceptions, and took the strongest action, whoever the offender might be. In connection with this occasion there was an amusing incident. A great friend

of the Raigh's, who did not shoot, was always to be seen in the back seat of the Rajah's howdah. Some of the other guests were laughing, and laughed all the more when I asked what had caused the offender to fire across me, for I had not seen a tiger and the best came through without putting up any animal. One of them remarked, 'Look at G's friend: see his ears twitch!' Then I noticed that he had, in a marked degree, the ability to move his ears about in the way small how often do when making grimaces. The offending sportsman, when asked what he had fired at, replied: 'Why a tiper of course, I saw its ears twitching, hence the shot across my front. After that it was always a great joke, and the Rajah's friend would violently twitch his ears when a tiger was missed. Another strict rule is that when the line of beating elephants

is approaching from the front no shot must be taken at a distance of more than about twenty yards: the closer the better, for longer shots may endanger the lives of the mahouts. Many accidents have happened from non-observance of this rule, and doubtless there will be many more; yet, if it is adhered to, no such accidents will occur. There have been many extraordinary accidents owing to glancing or ricochet shots. The nearer the shot is taken the less chance is there of the hullet going astray. Unless general shooting is proclaimed by the Master of the Shoot no one may fire at any thing but the tiger. Birds flushed ahead of the line-iungle fowl, peafowl, partridge may all be indications of a tierr on the move; so also the 'huller' of some animal. a sambar or other deer, or a nic. All such signs have to be watched for, and experience soon traches the sportsman what is indicated by them. Though the beating line may be a long way off yet a flushed bird may show that the tiger is close by, so one

has always to be watchful, vigilant, with the mind concentrated on the business in hand. Right on the heels of a breaking samhar may be the tiger, for when slarmed all animals are thinking of their own safety and way of escape and indifferent to the larger carnivora which, they well know, are not hunting them. No chance shots may be taken; no firing at moving grass; for if you fire and kill a deer, or other snimal, you may ruin the chance for the tiger and, moreover, may prehaps not again be asked to a shoot by that particular host. A howdah elephant is often placed in the beating line. The occupant may not fire at a tiger, for by doing so he may spoil

occupant may not fire at a tiger, for by doing so he may spoil any chance of the tiger being shot. His job is to act as a beater, to assist in directing the line, and to drive the tiger to the waiting gues ahead.

and guaranteescales. I was guilty of killing a tiger from the beating like but it was under exceptional circumstances, and G said. I was acting rightly. This was the largest tiger I have abortone to freet, with a short tail. I may relate the occurrence latter; but it was pleasing to me when the Rajah led the cheering; and the enaboust cheered with a will for they believed this animal to

ce a man-earing tigger. It was construent the next year occural killings of people in that the listrict had ceased. It siger, and I It is very offern that the beating like view of Assam, taking construent to the construent of Assam, taking stomes in his howdah to throw at the tiger and make him move un. Before he left Assam he had killed perhaps fifty tigers. He frequently used a 405, the weapon the late Theodore Roosevolt.

requently used a 405, the weapon the late thecoore Roosever, called the 'medicine gun for fions', and found it an efficient weapon for howdah shooting.

When your elephant has been placed at a particular apot youmust on no account move from that aport, for by doing so you

must on no account move from that spot, for by doing so you may not only be incurring danger to yourself and your mahout, but may let the tigger escape.

Sometimes, when there is a large expanse of heavy grass, elophants are used to trample a clear space, along the hither side

of which the guns are placed. The like of beating dephasis forces that tiger towards the cleared tract and the animal, not towering it is there, will afford a shot as he besistates on the further side of it. Abways must the guns be on the hitter side. That, of course, is common-sense, and a rule even in small game shooting, for shots at animals and bries sourrying part you unexpectedly from behind are very chancy, and you cannot face the other way as you would see nothing before it was right on top of you.

as you would see nothing before it was right on top of you. In Assam, and also I am told along the Teral, as the jumple country along the foothils of the Himshaya is termed, are awange will not go, for they know the danger of it. When tiger make such places their haust they are exceedingly difficult to get as. To meet this kind of situation G, devised a method of which I

have not beard, or rend, anywhere das.

He had a supply of 12 agues frework! cartridges which could be fired from an ordinary shot pun without fear of damaging the horrel. When fired the charge will rise to a leight of sixty or seventy yards and then horrst, producing a wonderful freework effect. So also, when fired into cover, it produces an effect high discomfring to the tiger! The method was for two howdah elephants to walk on each side of the boggy gatch, the freework can be set to be supplementable to the size of the supplementable of the size of

phants to walk on each side of the boggy patch, the firework cartridges being fired into the grass during their slow advance. Eventually these unwelcome and unusual sounds start the tigers movanimals are discovered by the 'hullee' of the grais to be roused, it is fairly easy to keep them on the move, and eventually drive them to the guns on the waiting line of elephants at the further end.

teem to the geats on the wating must of exponents at the surface.

It could be known by pogmarks in the assumpy ground that
the game was 'at home,' and the animals were kept inside the
cover and prevented from beaking out to one side by a shot or
two ahead of the 'bailee'. I have seen this method successful
over and over again. The boating elephants and their muhouts

enver and prevented from hresking out to cost side by a shot ore vealed of the 'shaller'. I have seen this method successful to the shaller of the seen that method successful like it, for there is less courrison and they see all the finu. Sometimes tigers also pot of a beat to cot side or the other when being hunted in ordinary cover, and their maneouver is desire given away by excited visiterings of small brisk and celling the state of the seen of the state of the seen of the state of the seen of the seen of the seen of the seen of spiring from tree to tree—small trees fittle larger than she'shapalishy saying, 'Herbs be is, here he is,' and on this accounts in-

often given sowy by excited referencing of small infect and calling of jungle cross. On the very last should I was ex, a crow large of jungle cross. On the very last should I was ex, a crow large plainly spring. Here he is, here he is it and on this accusate inparation is not hear way exploit yearinged not the ingress after. Here the stress of the stress of the stress of the stress of the hunt, will ship off to gain a more undistribed booking and will be should be stress of the stress of the stress of the stress of the other. Of the latter he had been stress, "Striped squireds reach, the strputs period and pickod, the seven breast solars character, the stress probability of the stress breast solars character of the stress probability of the stress three stress and the stress had been stress of the stress of the stress of the stress had been stress of the stress of the stress of the stress had been stress of the stress of the stress of the stress had been stress of the stress of the stress of the stress had been stress of the stress of the stress of the stress had been stress of the stress had been stress of the stres

He carest ecopy their vigilates. When tiger and partner and the wild cast shipt yets not reducted, by when on the more than the wild cast shipt yets not reducted, by when on the more than the state of the state of

always hoped the "steamer would run agrovind, for if the course it and the steam of the steam of

down the Brahmaputra to Dhubri is a very enjoyable one and we

a few days previously and this little creature thought it great fun to undo une's boots or also-leton; very pretty to watch and highly amusing for the children. The people responsible for the taking of this small elephant said that had they not done so it would have died, or been killed by a tiger, and that it was of no advantage to them to capitale it as if cost a for to feed and would be

of the basis have a number of years, and the provided by the sold in Little brought stage from Bellach. Histologous in specials to gas and half and in besides the core into a substruct integration on a small half and besides the core into a substruct integration of the substruction of

bulkek cart. I followed the tracks of the killer until it became dark, and then returned to the bungalow. Early next morning we necked up and went down to the car, finding the elephant had been quite close to it: why he had not attacked it was difficult to say. We drove to Mankachar, the .ers ready for action if needed, but saw no sign of the animal which was evidently keeping to the hills. After tea with the Mauridar we pushed on to the ferry which takes loaded cars across the river, and landing on the other side saw things wrapped in matting, and asking what these were learned they were the bodies of three men the rogue elephant had killed. One was a tailor of Mankachar, the place we had just left The elephant, they said, was following the main road and was on its way to Garobada, and for all they knew might be in the jungle along the road we were travelling. Though I said nothing I was fairly terrified as there would be a miles of a mud road and no possibility of turning: and glad and relieved I was to get into the bungalow at Rangapani. The building was not much protection, for an elephant could have easily knocked it down. I had thought that the curtmen, learning of the killing of the three men, would not have faced that length of road, but they came on to our great relief and comfort.

Next mersing we could skink me definite information so dress to Garchada, the 4-3x affecting of accomptable feding of security. Nearing a basehoo bridge which is reserved every season after the raist, a Policoman rais tion the read with visibently swaing hands and gave the sews that the dephant had just good into the jusqle this side of the bridge. The safest thing was to get on to the bridge as agreedly as possible for no dephase would now a server a season as mall jusqle stream we harried on to the foot of

the hill on which is the bungatow and there parked the car in a safe! spot, my wife and chaldren went up to the house. From the time the policeman was met all information gained

return the time me posterials was next air innormation gauses was skateful from men perched in the safety of trees. There were nine into its trees, each wight a gan or rife, and I was asked to go in after the eliphant and kill it, they would protect me! "Now, I said, you will see the grass moving and take me for the deplace. Not mark even words to that effect. The cover was tall

Yes, 'I said, 'you will see the greas moving and take me for the chaptant. Not man't eve word to that effect. The conver was tail chaptant will be man't ever the chapte of bentheo, so small hope of obtaining a successful about. On the chapter of bentheo, the chapter of elephant eathers but note of them, were patternly, would consent to giving me a mount to go after the rogue. I add the men in trees to get sway from the jungle and I would go and in consolion noun prescration from that the cheapter and was now into excession noun prescration from that the cheapter in was now

men in trest to get away from the jungle and I would go and how some hosts and think the matter over. While at this planecould be the plane of the plane of the plane of the plane out in the river and might make his way towards a 'hat' (e market hold on certain dops) where there would be londered of people, and that not more than a mile away. It was evident that some control of the plane of the plane of the plane of the plane follow the men at Helidelyque; litter our Nanappain; had met earts on the way to Garchedin and there smanded up several carts, follow two certains and destroyed a belicks or two; seven human

carts on the way to Garobalts and their smalled up several carts, Milled two cartron and destroyed a bulked, or two; seven humabeings had be already slain, and at the hat—I it was a territyand the seven because the seven the second to the airest as a single-tunker. All who had seen him described the airest as a single-tunker. Taking a handful of cartridgee (Solids) and the 49% I ran down to be real beauting to the hat anothers saw the tunker in the total cartridge of the had to the second three saw the tunker in the that place. Directly I showed rayself to the basis of the stream be cartridge to but tunks and charged. His leady was held very

that piles. Directly I absored spoyd to the bank of the stream high. I use done for the date and titled to get the balk part has trush in logs of randomly the brain, but fails to be received poulday did to trush in the randomly and the bank of the balk part spinday did to trush in the trush the second due to lead at applicable to the trush in the randomly and the shade at applicable in the table state on have no cocception of the applicable adoptant in the table state on have no cocception of the applicable and the state of the stat

the backing on the hounders, the second shot, the third shot, and the falls. Servants and Garca standing on the hill sho witnessed the whole affair; such an exceptional scene as can have but rarely been laid out as a spectrool for spectrool store show the Had I coly known it at the time I could have gone alone the Had I coly known it at the time I could have gone show the Had I coly known it at the time I could have gone show the being seen. The shot would have been a clase one aff from safety, as there the bank was very steep. However I did not know all that and had to not quickly and take my shot at about 19 yards.

There was no elephant I could use for following the wounded animal. One of the elephants was a "lung Bahndur," but not such a grand animal as G's elephant of that name. Had he been available the hunt after this regree would have been a highly exclining business, and a successful one also. Hurrying down the road I found the elephant had crossed about there miles en and I followed on some nifes further, but got no news of him. He was formed to the country of the countr

Those who have been charged by an elephant will tell you that the on-coming animal appears as if a great railway engine is advancing on you and that it is impossible to stop it. That is what it feels like even though experienced several times. Every time you feel as if nothing could stop the huge thing. The charge usually takes place from grass jungle and you do not see the animal until it is almost on top of you, so all the more do you feel that it cannot be halted. That is my own feeling. With all dangerous game I am terribly excited and frightened until I am actually taking aim and then I become perfectly calm and able to shoot accurately. As soon as the danger is over reaction takes place with me and the whole of my body trembles for minutes. I have never killed a charging elophant dead in its tracks but have always been able to stop and turn him. It seems to me that a charge of shot into the turned-up trunk would stop a charge, for elephants greatly dislike their trunks being burt: watch a mahout make an elephant obey him by labbing the trunk lightly with a spear; but I will let someone else

we the size quit experience.
These is well as the control in the control is two, the read is the control in the

tracks up a MI, on the tay of which we found a fair portion of ground covered with taxans having among it is for upon space. So, one weight he to except the state of a ten. The consistency of the state of a ten. The consistency of the state of a ten. The consistency of the state of the sta

the solid bullet, though not reaching the brain, knocked the animal over. P atood up immediately and told me he had, before it fell, fired a shot into it at very close range. As soon as he could he came back on his hands and knock, got up a small tree and stood on a branch no thicker than one's arm and started firing shot after shot into the fallen elebhant's head and close its description.

could be come back on his hands and home, get up a small two ing shot after shot time the fillen opposite hand and close. He subbedy and that his role was minifring and I maded up to the property of the state of the state of the state of the state I was now helshed a large forbat or with the supposed disabled I was now helshed a large forbat or with the supposed disabled of the world set. Then F. settably successful grain get in a few states of the state of the state of the state of the state of the world set. Then F. settably successful and the based state disable, first from above, found the best and the based still disable, was streaming down its clear, a turnible and places sight. When was streaming down its clear, a turnible and places sight. When was streaming down its clear, a turnible and places sight. When was streaming down its clear, a turnible and places sight. When was streaming down its clear, a turnible and places sight.

that the be have considered with the transcription of the world load the left here and pall the eight trigger. In excitement family things happen. There was nothing the matter with the rifle. When my weapon was examined it was found that the right striller was broken. It will be noticed that this story furnishes at least one moral: one's rifle should be carefully examined before starting after dangeroes game.

rous game.

On another occasion we had permission to shoot a large trusteer and, to cut the story short, P tool: the short and immediately statted reunling; he had not got every far when he naturally field, tripped up by a creeper. He persisted in running away after a shot and l'could not get him to give lit up. He did it every time, and fiell every time! This time the elephant was only stunned and we never came up with it again.

where and I round not got line to goo at up. 100 on it very some, we never came up with it again.

That life the look up to line one. A repice makes diplant with the look up to line one. A repice makes diplant with the look up to line one. A repice makes diplant with the look up to line one look up to line the William of the look up to line one look up to line with any experience was myself. I make as lot mistake off. The nishtle was in following the best level young many longle. I should have gone round the lill until us certain was listened and the look up to line with I followed the tasks into difficult played with looking that an animal, neptidily an deplant, is liely to return on its own required trants reading for some food. I roundedtay plat? I who was to take the day, last position mere an opening in the cover clearing as respectal, relatively a look as it had not be decating as respectal, relatively a relative late of the look of the look of the clearing as respectal, relatively a look as it had not for

urguated trask endings for some food. I mitholiship pil V, who where it was craim the elephent vorth pass. He can into the claring an expected, affecting a clear side side at the about 7th according to the contract of the contract of the contract of the same cone, but I have seen it to be not a sure one for the bolten may attribe a projecting bost and planes off in a verog direction, do not be contracted to the contract of the contract of the other contracts of the contract mal fell over dead—but we did not know it was dead. P., after firing; dd bli usual speirt and ran sway to, as usual, catch his foot in a creeper and fall speawing. W jumped backwards at the shot and fell into their latanta which supported bins, but he was in a difficult position had anything happened unarmed as he was for he had only come out to see the fun. As the animal fell a fairly thick bamboo his me on the head and knocked me down. Fortunster the elephant was done

When the usual sign preclaiming death was seen we walked up to examine the beast. It was seen to have a nother of beliefs just usefur the skin-projectiles from native weignons, so no work the skin it had treating the beautiful to the skin which we thought that both had been deflected and that the cause of death was injuy to the spin---- aboly fracture spinal vertex an allogather very extraordinary affair; and, 'allo well that ends well.' The challenge of the skin well well and the skin well are the electronic seed rose; and one sold as are usually ased for electronic.

BUFFALO

Some villagers from across the Brahmagutra came to the D.C. Dutshy, Mr. R., L.C.S., to say that a wide buffalls buff was giving them a great deal of trouble, having idited some of the tame buffa and lately taken to classing the people. H. sent word to S. (Forest Officer) and me suggesting we should go to the assistance of the villagers, who would give all help in the matter. These single wide buffalces—we may call them 'Roque Buffalost', boccome were dancemans to villagers where time buffalors are

kept. When I was in the Garo Hills I had to examine a man who had been killed by one of these 'cornes'. The buffalo had got the body of the man up against a bank in such a position that he could use the massive bony forehead, which is about eleven inches wide between the borns, to the greatest advantage. The result, propelled by the enormous strength of an animal weighing near a ton, can be imagined. The man's chest was flattened and nearly all the ribs in the body had been broken. A gruesome sight. S. and I each possessed 475 H.V. rifles. We set out as soon as we could and crossed by ferry to Fakirganj. There the villagers put us into a bullock cart and after a few miles, the track being deep in mud and slush, we were transferred to a cart drawn by buffaloes. When this form of conveyance could take us no further we got into a dug-out cance and were propelled by means of poles along miniature canals among the rice fields. The water was waist deep and in some places deeper. S was a man of over six feet and much felt the aches and pains of being doubled up with his knees touching his chin, expressing his discomfort in very forcible terms. The dug-out wobbled so much that I realized it would be almost impossible to shoot from it. We tossed for the shot and I won, so prepared for action. I loaded with a soft nose bullet in the right barrel and a solid in the left. S pinned his

faith on solids so loaded accordingly.

In conclusion it is perhaps worth stating that I can find no evidence for the inclusion of the following species or races in the avifauna of Afghanistan though that country is included in their range as given in the second edition of the Fauna of British India, Birds. That many of them do actually occur within Mghan boundaries is of course not improbable.

Parus major intermedius.
Parus palustris horejeuv.
Molpastes leucogenys leucogenys.
Certiha himalayana taeniura.
Oenauthe monacha.
Phoenicums prontalis.
Rhyacornis fuilginosa.
Callioche pectoralis pectoralis.
Prumella himalayamus.
Perierocotus roseus.
Phylloscopus tytleri.
Phylloscopus pulcher kangrae.

Seicercus xanthoschistos albosuperciliaris.

Corvus splendens zugmayeri.

Dendrocitta vagabunda

Scotocerca inquieta striata. Cephalolyrus flammicelys. Sturmus rulgaris humei. Urolonicha malabarica. Mycerobas melanoxanthus. Mycerobas melanoxanthus. Anthus hodgsomi hodgsomi. Eremophila alepstris longinostris. Cimyris asiatica brevirostris. Cojeph himalayensis. Cyps himalayensis. Cyps limalayensis. Letucobinus. Letucobinus. Letucobinus. Letucobinus.

SOME REMINISCENCES OF SPORT IN ASSAM.

BY

H. G. H. M.

(Continued from page 332 of volume 45).

PART III.

In some parts of the plains of Assam are to be found vast stretches of country covered by grass in patches, in some places high and dense, in others light and interspersed with open spaces covered by green grass. These uncultivated areas are called 'chapris' and a well known one is the 'Pakar Chapri' which is surrounded by heavy, dense jungle bordered on three sides by a stream in which there used to be very good fishing. I use the past tense, for in Assam, as in most parts of India, the people of the country have woefully diminished the freshwater fish supply of the land by all sorts of poaching and destructive malpractices: and this is true of even the larger rivers.

To get to the Pakar Chapri from Sadiya one drives to the bank of the Brahmaputra river which is then crossed by means of a 'mar'. On the other side is a wide stretch of sand-this is in the cold season when the river runs low-over which is laid a brushwood track for the easier passage of motor cars. Thus one arrives at Saikwa Ghat, the terminus of the Assam-Bengal From here one motors for miles and miles through Railway. heavy tree jungle, the haunt of all sorts of wild animals, and a rich avian life. Then one arrives at Kobo on the Brahmaputra which is reached by again crossing the river on a 'mar'. During this passage over the river there are sandbanks to be avoided and there are days when the crossing can be dangerous owing to a sudden rise in the river which at this place has not long issued from the mountains. Thinking of Kobo brings to mind the occasion when the Assistant Commandant at Pasighat was on his way down to Saikwa Ghat. He ran his car down the bank too fast and so shot over the 'mar', burst through the pole barriers on the further side of it and plunged into the river! 'More haste less speed', 'Safely First' and that kind of thing. In the car was a box containing his wife's party frocks and fripperies. The box was to be forwarded to her in Shillong, and as the car was not retrieved from the water for several hours the state of the garments can be imagined, as also the state of mind of the poor wife when she saw them.

From Kobo we drove through more forest to Pasighat. This used to be a very pleasant place as the houses of the officials were along the river bank and one had only to go a hundred yards or so to fish for mahseer. There were times when there was not at Pasighat anyone fond of fishing. What waste of opportunity! On the way down river from Pasighat to Pakar Chapri there are many rapids to be negotiated, some of them, to the mind of a non-swimmer, appearing very dangerous, but good fun to those less timorous. I was in a large dug-out which could have easily been capsized, for the river had suddenly begun to rise and it was impossible to stop the boats which were, however, most skilfully managed by the expert and courageous boatmen. On the return journey I preferred to ride an elephant.

The elephants were made to swim across the river, and so swift was the water that they were many times submerged, only their trunks being above the surface, and how the mahouts managed to stick to their charges was a mystery to me, but all crossed in safety.

Life in this camp was very delightful. We had fishing and all sorts of shooting with rifle and shot gun. Daily the chapri was explored on elephant-back. A number of buffalo was seen, as many as sixteen in one herd, among them two young bulls; and one female had such enormous horns that we debated whether they were not something approaching the record which is nearly fourteen feet tip to tip across the forehead! I don't suppose they were within a couple of feet of that but it was seriously discussed whether we should shoot the animal and pay the fine of fifty rupees. Better counsels prevailed so she was left in peace. She was not an old animal, though to have attained such imposing horns she must have been well on in years.

'Green-pigeon and jungle-fowl were shot, some of the latter with a .22 rifle as they pecked about on the edge of the cover across the stream. Green-Pigeon were in thousands in those parts, the larger flocks containing birds of several well-known species. Large bags are made during the months succeeding the breeding season, the time when this has ended being known by the birds collecting into huge flocks which, with some species, amount to many thousands. The largest bird is the Bengal Green-Pigeon; others are the Ashy-headed and the Thick-billed both of which are very fast fliers, and the Orange-breasted Green-Pigeon. The jungle fowl is the Common Red variety and among other game birds is the Blackbreasted-Kalij Pheasant not easily come by owing to its skulking habits. That shoot at Pakar Chapri in company with our son-in-

law, C. of the Police, T. the Forest Officer, and N. of the Saw Mills (Bird & Co.) remains a very pleasant memory to us both. But I have forgotten the rogue elephant. There was known to be one in the jungles through which we had to pass on our way to camp: and my wife, who had not been on an elephant where tiger could be met since she experienced the charge previously related, was very much alarmed when the mahout suddenly pointed to a spot in the forest where an elephant had evidently just passed. I did not feel too happy, having with me only one of those all-inone three-barrelled weapons—a double 12 gauge with a .405 barrel beneath. We pushed on as fast as possible and left the re jungle for the open grass land as soon as could be managed. By doing this we saw various kinds of game animals: buffalo, sambar, hogdeer, also wild cats and pig. In the stream not far from camp quite large mahseer were caught.

On a number of occasions the Rajah of G. arranged shoots for the Governor of Assam and other high officials; then he would supplement his own elephants by animals of the Forest Department and others borrowed from zamindars. He did not very much care for these big occasions but always did his best to make them a success. From the time he arrived in camp he every evening interviewed 'khubberias'-bringers of information of the whereabouts of tigers, and decided what beats to carry out the next day. Buffaloes were never tied out as baits as is commonly the practice in other parts of India. Months before these important shoots his shikaris toured through all the likely jungle tracts and marked down all the places where cattle were being killed. A central spot was chosen for the camp-usually on the banks of a stream and in open country, so that those bringing information could have ready access to it. The men would cover all the country within ten or twelve miles round the camp. The informant was given ten rupees for each tiger shot, was fed in camp for as many days as was necessary, and taken out on a pad elephant when his particular tiger was to be hunted.

Every evening the Rajah arranged details of how the elephants should be fed, making fodder arrangements for twenty-four hours. He would also listen to all complaints, make particular enquiries as to any tusker becoming 'musth', and if in any doubt would personally inspect the animal. All elephants had to be daily examined for sore backs or other injuries, rope-galls and the like. In all this he was thorough and painstaking, as a good Commander should be, hence his known success on all occasions. A start was always made by 10 a.m. and the shooting ground reached by I or 2 p.m. Then, as soon as the Rajah had personally ascertained the lie of the land and the signs of the tiger being present were good, beats would be arranged, the guns placed in position, and the beat started, he himself giving orders as to the manner and direction of the drive. If tiger were few the sport was perhaps over by 3-30 p.m. when lunch would be served: but if there were several tigers then it was good-bye to lunch. On the way out and back all guests rode pad elephants, these animals having faster paces: they did not generally take part in the beats.

On return to camp tea was available, and dinner at 9-30 to 10 p.m. After that one could go to the big tent in which was singing and dancing. The first time I saw a boy dressed as a girl I was asked his sex, knowing the Rajah did not allow women in the camp I said 'Middle-sex'; and this was thought a great joke, that boy being ever after known by the name of Middlesex. The Rajah always said of these semi-official outings that they were not 'shoots' but huge picnic parties, and that it could be very dangerous both to guns and beaters. 'I like punctuality,' he said, and the starts are frequently delayed for one reason or another so the shooting ground is not reached in time and lunch is demanded, tables laid out, chairs placed, and so on, all meaning delay and waste of time, so that it is after 3 o'clock before a start can be made. Then the guns, having had lunch and beer are in an excited mood and do dangerous things; it is difficult to control, and frequently the tiger gets away from the beat.' One reason for tigers escaping without being shot at is that the mahouts, seeing the 'hullee' approaching and having little confidence in the howdah guns, deliberately cause their elephants to turn away and fidget, or even run away. The visiting sportsman as often as not knows nothing of 'hullee' sign, or that the elephant is being wilfully made unruly and does not connect this with the advancing tiger which quietly slips by and escapes the beat.

Mahouts have to be considered. Seated astride the necks of their majestic beasts they are in considerable danger from the attacking tiger, and it is natural they should be anxious as to the nerves and weapons of the sportsmen in the howdah, not only the guns on his own elephant but those on either side of him. They do not like single barrel weapons or small bore rifles, and one cannot convince them of the efficacy of magazine weapons. Very naturally mahouts discuss among themselves the merits and demerits of the various sportsmen, more especially on these semiofficial shoots, and also gather information from camp servants

as to their respective masters,

The Rajah always strongly objected to ladies shooting; he was ever afraid of something happening and there was once a terrible tragedy during one of his semi-official shoots. He never spoke of it. A mahout was killed, one of the guests shot in the ankle, and an elephant subsequently died of a bullet wound. To guests not known to him, not known that is as to nerves and straight shooting, he gave a card of 'Don'ts' and arranged for a reliable and experienced man to be at the back of the howdah. During beats he walked his own elephant backwards and forwards behind the line of howdah elephants and shot at those tigers only which were missed by the guests. I have seen him shoot a number of tigers under these circumstances.

The question whether tiger shooting from elephants is a dangerous sport is often discussed. Many there are who assert that it is not, but much can be said for the opposite view. Shooting tigers by sitting up over a kill at night is often looked down upon by those who bag tigers by beating for them. In the latter case the sportsman is almost always perched in a tree, on a ladder, or other elevation as also in the former. In both instances the sportsman is in almost no danger unless and until he wounds the tiger.

Then, it must be admitted, he more or less takes his life in his hand when he follows up—as he must do; and, it has to be added, his mostly unarmed followers, without whose help he would, in most cases, be unable to locate and bring the wounded beast to action are equally exposed to death or injury.

Tigers are hunted and shot from elephant-back in jungles where to pursue them on foot is mostly impossible owing to the denseness of the cover. To heat them out without elephants is almost hopeless, the only alternative being sitting up, or through some more or less chance encounter.

Is tiger shooting from elephants dangerous? I think I can demonstrate from a number of experiences that, though it is not always so, it can be and may be; not so much on account of the attacks of wounded, surrounded, infuriated tigers as through the uncertainties and vagaries of elephantine tempers and irresponsible actions of people on their backs.

In the same year, the first of my tiger shooting career with elephants, there were, besides the charge of Sibjee against Jung Bahadur, two other instances of the kind. One took place at Bijni, the headquarter station of the Bijni Raj: the other at an estate owned by the zamindar of Rupsi. The Bijni Raj was then in the Court of Wards and the Manager had asked Mr. H. of the A.B. Railway and living at Haflong to a small tiger shoot. Both Mr. and Mrs. H. took part in the shoot and though tigers were seen none were shot owing to the small number of elephants available: one howdah and five beaters. Among the elephants was a notorious brute known to have killed some 15 mahouts and grasscutters. During the beats he behaved himself, but when the party was returning he suddenly charged the elephant in front of him on which was seated Mrs. H. The animals were in single file and H., just behind, shouted to his wife to jump off and she was able to do this before the assault of the charging elephant arrived, falling between the oncoming beast and the one she had left with such presence of mind. I met her not long after at Dhubri and heard from her that she could not remember exactly what happened after leaving her elephant, only that she kept on rolling away. The attacking elephant knocked the other one heels over head, instantly killing the mahout. It was a miraculous escape for Mrs. H.

The other charge took place at a small tiger shoot on the Rupsi Estate when some twelve elephants were out. At the end of the day a male elephant charged sideways at a female, knocking it over. Of the three people aboard one was uninjured, the mahout was killed, and the other man had his jaw broken. Having some knowledge of dentistry I tried to improvise methods to keep the bones together hut had to fall back upon the usual treatment which succeeded absolutely—a perfect result. This man could only remember that he found himself mixed up with elephant legs and then became unconscious. He probably received a kick from a forefoot and was fortunate not to be more scriously injured.

The Zemindar of Rupsi, whom I knew well, met his death

through avoidable circumstances. The Zemindars of Lakipur got up a shoot to which Rupsi contributed his own nine elephants. With him was a Khasia hoy he was supporting and educating. When the Zemindars learned that Rupsi intended to put this Khasia lad into howdah to use a rifle they objected, saying he had no experience and it would be unwise. Rupsi said he was certain the boy could use a rifle as well as any of them and that he would not be frightened if he saw a tiger. After these preliminaries the Zemindars decided to place the lad on the extreme right of the line of waiting guns as they did not expect the tiger to go there, and Rupsi was placed next to him. In Rupsi's howdah was sitting the II years old child of an English lady, the wife of one of the Zemindars. Things will happen, 'Kismet' one can call it. As soon as the line of beating elephants advanced the tiger was seen to be moving in the direction of the Khasia boy so Rupsi, an experienced sportsman, seeing this, moved down to the lad's elephant but was too late to steady the boy and give him confidence. The tiger was seen by the lad, who panicked, brought up his rifle in direction of Rupsi instead of the tiger, and pulled the trigger. Poor Rupsi was killed instantly, the high velocity bullet passing through his arm and on through the chest. In doing this it went very close to the small girl sitting next to him. A terrible experience, for she was drenched in his blood. We were on our way to a shoot with the Rajah of G when I met his Dewan who told me all this, at the same time informing me that three of G's elephants had gone musth, and in addition that a known bad elephant had escaped from the Zemindars' camp some forty miles away and was reported to be making towards G's camp.

Having heard all the news I drove on in my car and got into a bad bit of road where the car became ditched. Some villagers were yelling that the musth elephant was coming across the plain and I found the car could not be re-started. With me were .475 cartridges but the rifle had gone in advance to the camp; so we took suitable cover to see the elephant take no notice of the car and proceed on down the road. Were we relieved I This was a female called Megmala. Had I known that in time I might have

been able to stop her and ride her to the camp.

The car was started without difficulty after it was found that my wife's handbag handle had slightly turned the switch key! When we got to R's camp we found there had been yet another tragedy. The Rajah of G had been out looking for tiger tracks and village 'Khubber' and somewhere about midday his mount Sibjee charged this female elephant Megnala from behind, knocking her heels over head and instantly killing the mahout. I saw the dead man; a good mahout whom I knew well. Megmala made her way across country to Gauripur, swimming the Brahmaputra on the way. For many years she was G's best howdah elephant but having been badly mauled by a wounded tiger could not, after that, be depended on.

That night I took my .475 (in case of accident!) and went to see the three musth animals picketted about a hundred yards from the tents. Had one of these broken loose that dark night there would indeed have been trouble. The shoot was abandoned and being late in starting we did not catch the ferry, so returned to the Fakirganj Inspection Bungalow for the night. Our slumbers were not sound as Sibjee and the musth elephants were tethered in the compound! Glad indeed were we to return safely next day to Dhubri. Can tiger shooting off elephants be dangerous?

There will be more 'incidents' in course of these reminiscences, but at this point a method of shooting tigers off elephants which affords good sport and is not ordinarily dangerous may be suitably mentioned. The requirements are two reliable elephants, one for the sportsman, the other for two shikari attendants and to carry the bag to camp. A 'Charjamah' which is a pad having low rails is better than the more cumbrous howdah, which is not suitable for forest work. The method requires that the sportsman should be thoroughly acquainted with the habits of tigers; should know the language of the countryside; have a good manner in dealing with the people; and be not too niggardly, or the reverse, in payment for services rendered.

Where wild elephants are not uncommon all jungle animals are easily approached, and it is by quietly wandering along in the likely places, especially in the vicinity of any kill the whereabouts of which may be indicated by crows, birds of prey, or vultures, that tigers may be shot out of hand without incident, or may sometimes be moved out of cover by the pad elephant. Should the tiger be wounded there may be plenty of incident, but the sportsman is at any rate not in peril from actions of other elephants or sportsman. Silence on the sportsman's elephant is essential: any instructions to the other elephant being by whistle or signs, or signal horn when really necessary.

In course of Shikar of this description much jungle life may be observed—life of animals, birds, and insects which would other-wise never be seen, for it is a leisurely affair with plenty of oppornity for observation. It is not too much to say that a week of such hunting will furnish more experience of nature in the jungle than many 'shoots'. Elephants can be used with much success for fishing in deep and rapid streams where dug-outs or other boats are not easily obtained, carried, or used. From elephant back many places otherwise quite inaccessible owing to trees and riverside jungle growth can be well fished, and return to camp made without trouble. On such excursions a rifle or gun is usually taken in case of need as, apart from some chance opportunity of bagging a feline, the camp larder needs replenishing both for oneself and one's followers.

Howdahs in use over eighty years ago, as seen by illustrations in shikar books of those and earlier days, were of better design than many in use at the present time. There were, as there should be, places—racks—for several weapons on either side of the occupant of the front seat in the howdah. All sportsmen of experience say that more than one weapon is essential for howdah work, and one of these a shot gun. The Rajah of G always had 4

weapons with him and sometimes as many as six; but as many as that may be thought unnecessary.

A shot gun is advisable as, when a tiger is on the elephant, and perhaps trying to get into the howdah, a charge of shot is sufficient. On one occasion when shooting off Sibjee the Rajah was following a supposedly wounded tiger which was, however, unhurt. The tiger was a bad tempered beast and charged several times, being missed on each occasion owing to Sibjee dancing about. Eventually Sibjee turned and bolted or rather, as G said, the mahout it was who turned tail. The rampaging tiger followed apace—the whole shooting party seeing this wonderful show caught up the elephant, jumped on from behind, and tried to get into the howdah. The Raiah had trouble with the occupant of the rear seat who lost his head and would not keep down, so the first essay with the shot gun was a miss. The noises of it caused the tiger to quit but he followed along and again got on to the elephant. By this time the back-seater was frantic and as G explained when it was all over, only by keeping the man's head down with his hand was it possible to use the gun. To use the weapon with one hand while the elephant was running as fast as it could was almost impossible; however, by pressing his knees against the howdah to steady himself as much as possible, he was at last able, as the tiger's ferocious head came over the howdah rail to place the muzzle against the beast's neck and press the trigger. So all was well.

This has been a long digression from the subject of howdah design but has an important bearing on it. I have seen a number of howdahs which are fitted with doors to admit of easy entry on either side. These doors sometimes fly open. Had that happened in the above encounter there would have been certain tragedy. In earlier days G's howdahs, and those I have seen on elephants of two Maharajah's had side doors, and were also too low front and back. A man sitting or standing in those howdahs was certainly not really safe as it would not take a great deal of movement on part of the elephant to toss him out. An instance was what happened to Captain R, then a Civil Surgeon. He was invited by the Rajah of G to a tiger shoot and while taking aim at an advancing tiger about twenty yards away his elephant suddenly lurched forward, causing him to hit against one of the doors which opened and shot him out somewhere near the tiger! G laughed at it afterwards, as R shinned up a small tree near by with the agility of a monkey; but it was no laughing matter at the time. After that occurrence G had all his howdahs altered to a fool-proof design.

Things may happen which put howdah construction to the most extreme, test imaginable. Even when the elephant is tumbled on to its side it is possible for the sportsman to remain in the howdah, but only if it has high sides and no doors. This was the way of it.

The M brothers are two of the nicest men one could meet, both of them very good shots. They have seen hundreds of tigers

killed. On one occasion a large tiger pressed home his attack, landing on the head of the elephant on whose back was M senior. The elephant sank on one knee, which is their habit in an endeayour to kneel on the tiger and crush it. The tiger jumped on to the ground and with its forearms round the head, before the elephant could stand up, pulled it over on to its side. M's rifles and ammunition fell out of the howdah and it was with difficulty he remained inside, but he managed to do so by holding on to the rails. Three times the tiger pulled the elephant over. M still in the howdah, when finally, for no reason that could be imagined it suddenly abandoned the fight and was shot by other guns on nearby elephants. Things occur so rapidly in cases like this that it is impossible to see in detail what actually takes place. Only a cinema picture could show that, and changes in position take place so rapidly that it was not possible for guns on other elephants to risk shooting. In after years M was often asked what it felt like when the elephant went on its side with the tiger in touching distance. 'Yes', he would say, 'it was very touching, and I hope if it happens to you it will develop your sense of humour'. He himself had sense of humour particularly developed.

In a book 'My Sporting Memories', by Major General Woodvatt, it is said, 'a tiger, though spined, struck a tusker elephant with its paw with such force that 2 claws were actually embedded in the elephant's thigh.' When told of the above the Rajah of G, remarked, 'Quite true. I have seen something similar. I once wounded a tiger at the end of a field, just short of the edge of heavy jungle. He was hit far back and the spine was broken. I pushed my elephant along and as I got close to him he was in a sort of sitting up position. I was preparing to kill the tiger when I saw to my left a number of tame buffaloes, among them an enraged bull pawing the ground and making ready to charge. Wishing to see what would happen I held my fire and to my surprise the bull actually charged the tiger which, in his crippled condition, waited until the bull put his head down. Then the tiger with a smack with one paw and a turn with the other knocked the buffalo over, killing him instantly. I could not believe the bull dead and waited for him to rise. Having killed the tiger we found the vertebrae of the neck had been dislocated'. I have read in shikar books of tigers, when breaking back through beaters, smashing a man's head like an egg-shell with a mere passing tap with a paw and can well imagine it happening: indeed, Mr Hazlitt, I.C.S., who was the Superintendent of the Lushai Hills, told me that he actually saw this happen. A tiger was seen to jump over the spot where an old woman was collecting firewood; when the party got to this place the woman was found dead with a fractured skull. As he jumped over he had just hit the head with his paw.

Most people having acquaintance with elephants know how much they dislike dogs, especially yapping ones of the small terrier variety but there are other animals equally obnoxious to them. In beats for tiger I have seen them show fright of even rats which run squeaking out of the cover, and they have a marked dislike of wild pig, even giving the tiger sign—the metallic rap of the. trunk on the ground with the accompanying low rumble, on their approach. At times they will even turn and run away from these small creatures, even rats!

One speaks of an elephant being perfectly steady but what is meant is that he will stand without movement, his mahout having given him the order by recognized pressure of knee or driving-hook, for the actual shot to be taken, a matter of a few seconds. While waiting for the beating elephants to approach he is constantly moving his ears and tail and shifting his weight from one leg to another, also swishing his legs with tufts of grass etc., to keep off flies: all this ceases for the taking of the shot; that is, it does when the animal is properly trained. A mahout will often be dozing during a beat but is wide awake when the time comes to be alert, and in any case a touch from the sportsman is sufficient warning. Just as a nervous rider will communicate his condition to his mount so will a mahout to his elephant. A good mahout will have a steady elephant as the sagacious beast soon knows he can trust him.

Bees and hornets may at any time be met with so a blanket is always carried. Blankets are also of use to quieten excitable animals, for even elephants becoming musth, if taken in time, can be controlled by a blanket over the eyes, thus averting possible serious consequences. Mahouts like the fun of tiger shooting and will deliberately leave camp on 'musth' elephants. It may be in case of beating elephants that they wish to enjoy the sport, for they all get an allowance whether staying in camp or not; and the drivers of howdah elephants are reluctant to forgo the chance of an extra ten rupees should the tiger be shot from their howdah. It behoves the organizer of the shoot to be always on the watch for an appearance of 'musth', and it is well for sportsmen also to be able to recognize the signs.

I have mentioned in connexion with the shooting of a rogue elephant that the right striker of my .475 H.V. rifle was found to be broken and that of course might have had serious or fatal consequences. Had I tested the rifle before setting out this would have been known. Such a thing should never occur, for it is so easy to make the necessary tests before putting the weapons away after cleaning. Dummy cartridges should always be used in hammerless weapons to guard against strikers being broken or damaged by snapping against no resistance. Before putting away hammerless and ejector weapons the springs should be eased; and it is seldom that the owners of ejectors know how this is done. Ejector springs cannot be expected to work for ever if put away at tension for months on end.

There is no doubt that a double barrelled rifle is better than a single for howdah shooting. The great advantage of the double is fully realized when a second shot has to be immediately taken. The few seconds longer needed to get off the single weapon may be all important; the bagging of the tiger or not. Shots at the head should be avoided. From elephant-back the plunging shot

between the shoulders is always fatal, that is if the bullet is what it should be. One of the secrets of successful tiger shooting, whether with elephant or with men, is never to hurry the animal, which ought to be brought to the waiting gun as unalarmed as possible so that a quiet unhurried shot may be taken, the angle being judged so that the bullet will find a vital place. Further dissertation as to shots to take and weapons to use or not to use must be held over to another time.

This rather rambling writing may be closed with some tales which occur to me as being perhaps of interest to the reader. Mr de C. was an Assam Police Officer who stood no nonsense, a man of action, if sometimes a little eccentric in some things. I can vouch for the following. He and a Sub-Inspector were in a hole in the ground waiting for the return of a tiger to his kill. The tiger was dragging the kill away in the darkness when de C got out of the pit, ran towards the kill and as soon as he was able to get his torchlight to bear killed the beast with a shot in the chest. This detail was given by the Inspector. On another occasion de C. was asked to witness the enclosure of a tiger in netting, a method practised in other parts of India also. He went with the Inspector of Police to see the fun. This was in the Dibrugarh District. He and the Inspector were standing very near the netting when the tiger suddenly charged and though it did not break through it tore the Inspector's coat and inflicted some scratches. This was too much for de C. He took an old D.B. 12 gauge shot gun from one of the villagers, put some shot cartridges in his coat pocket, loaded the gun with 'Lethal' bullets, raised the lower edge of the net and walked in. He had not gone far in the direction to which the tigress-for it was a female-had retreated when she charged at him belly flat to the ground, as he described it and as I have several times seen-no bounds or jumps. Before she reached him he shot her dead. Good work. He was making sure the tigress was dead when he was charged by a wild boar. He had just time to jump to one side and fire as the pig passed. The boar turned and again charged, but waiting until there could be no miss or ineffectual shot he killed the animal almost at the muzzle. Again good work. By this time the fore-end of the old weapon had dropped off and, without noticing this he reloaded with shot cartridges and leant the gun against the pig's body. How it happened he cannot say but both barrels went off and peppered some thirty coolies. Not such good work! Fortunately the distance was such that the pellets only penetrated skin deep. It was always a great joke: de C. bagging on one day a tigress, a boar and thirty coolies. But it was no joke at the time and the affair eventually cost de C. about a month's salary one way and another.

(To be continued.)