## PROFESSOR TAKEMATU OKADA

# 寺田寅彦

青空文庫

t-graduate in physics. ce in this country, a development reserved for future accomplishment by the hand of this young pos cared little for meteorology and perhaps no one dreamed of the development of this branch of scien Director of Zinsen Observatory in Korea. At that time the great majority of the students of physics ention Prof. Kiyoo Nakamura, former Director of the Observatory, and Prof. (Yu^ji Wada), later ountry was still in its infant stage under the care of its foster-fathers, among whom we especially m his special course. After graduating in July 1899, he was appointed as an Assistant Meteorologist in ending the Imperial University of Tokyo as a student of the College of Science he chose physics as aceful riverside town of the (Great Tone'), within forty kilometres of the Pacific coast. When att the Central Meteorological Observatory of Tokyo. This was at the time when meteorology in our c Prof. Takematu Okada was born on August 17, 1874, In Husa of Tiba Prefecture, a sunny and pe

ily weather forecasting and storm-warnings. A physicist confined in his laboratory or lecture room can scarcely imagine the difficulties met with by those who are in charge of this kind of work, whic The tasks which were entrusted to him were the most difficult ones, --no less than those of the da

iction as well as the organization of the net-work system of observation. For example, the recepti e most unsympathetic criticisms by journalists and even by some scientists. He has, however, stood h is in immediate connection with the daily life of people who have little or no understanding of thi and accessories necessary for regular oceanographical investigation. The results of research work c Breeze) was constructed for the exclusive use of the observatory equipped with all the instruments ng the necessary fund from among the chief shipping companies and ship-owners. The institute was orological Observatory for a further development of the system of prediction and succeeded in raisi acilitate warnings of coming cyclones. In the meantime, he felt the need of founding a Marine Mete bservatories were also founded at Sionomisaki in 1912, at Muroto Zaki and at Shanghai in 1919 to f ng data from the neighbouring seas, in view of the peculiar geographical location of this country. O ous to any other country, as his insight promptly perceived the urgent need of this means of obtaini on of observation data from ships at sea was first put into practice upon his initiative in 1910, previ ngs scientific. He has had, indeed, to endure not only ill-humoured complaints of people but also th manfully in this difficult situation by gradually improving the scientific basis of the method of pred founded in 1919 of which he was appointed the first Director. M. S. " (Syunpu^-maru) " (Spring-

se in Tokyo and (Ko^be), by which the first forecasting of approaching typhoons was observed on was effected by the installation of the sending stations at Okinawa, Naze and Isigaki, besides tho e Observatory, for the first time in this country. Further development of this system of communicati s in different departments of physical and mathematical sciences. Among the list of the teachers we tion of the younger meteorologists who were destined to become the staff members of the central as and speedily reported to the central station. tion of the wireless system for meteorological communication was completed in the Imperial Marin Central Meteorological Observatory in which the students were to attend a system of regular course r hand Professor Okada was keenly alive to the necessity of a school devoted to the thorough educa arried out on board this ship have been published in a number of Reports and Memoirs. On the othe find the names of a number of the most eminent meteorologists of this country. In 1919 the installa well as of the local observatories. He therefore planned and founded an institution attached to the

perial Marine Observatory. Observatory was filled by Prof. Okada while at the same time he retained the directorship of the Im In 1923 Prof. K. Nakamura resigned and the chair of the Director of the Central Meteorological

om the number of the important papers already published f selected local observatories. The activity of the seismologists under his guidance may be judged fr  $to^\wedge$  Earthquake of 1923) , by improving and amplifying the instrumental equipments in a number o hed on an entirely new status under his supervision, after the bitter experience of the Seismological observations which were being regularly made from the earlier dates were establis (Great Kwan

ar routes of aerial communication. mber of branch observatories in the vicinities of the chief aerodromes and also along the main regul f aeronautical meteorology in the Central Meteorological Observatory and, connected with it, a nu To provide for the rapid development of aeronautical practices he founded a special department o

from now on as undaunted sentinels in the face of raging typhoons or the frequent damage incurred by exceptional severity of cyclonic storms on account of their frail wooden structures were rebuilt into massive reinforced concrete buildings, so that they could stand Those local observatories which are situated on islands or promontories and had been notorious f

o been reconstructed and considerably amplified in its instrumental equipment. The Magnetic Observatory at Kakioka which was founded by the late Prof. K. Nakamura, has als sion n Observatories on Huzi, Tukuba, and Ibuki were either founded or reconstructed under his supervi s were installed respectively for printing, metal and wood working. On the other hand, the Mountai ology, terrestrial magnetism, clocks, tides radiations, library and cartography. Moreover, workshop k, such as precipitations, thunderstorms, wireless communications, aeronautics, agricultural meteor increase in the number of the chairs of experts in charge of their respective special branches of wor servatory were conspicuously enlarged since the day of his directorship, as may be judged from the The extent and variety of the routine work officially carried out in the Central Meteorological Ob

ic in this field. His work regarding the typhoon of the Far East comprises the fruits of his long pract ork which his official duty necessitates he manages somehow to find leisure to be devoted to his fa winds etc. His exhaustive investigations on the origin of the rainy season, "Baiu," is a genuine class ground temperature, the conductivity of snow, the evaporation in the Inland Sea districts, the foehnvourite research work. Among his earlier works, we may mention his papers dealing with the under h is, as it seems, rather rarely the case at least in this country. While busily engaged in his bureau w In Prof. Okada we find a happy combination of administrative ability with scientific talent, whic

ical experience of prediction service. It is interesting to remark that the most important law of moti on of cyclones and anticyclones under mutual influences, which he discovered and later was named after him by Prof. Fujiwhara, was described not in any of his papers, but in his elementary text-boo

e younger generation of meteorologists under his unwearying guidance and cordial encouragement. the mathematical school of meteorology, a pleiades of able mathematicians have risen up among th al construction for finding the centre and track of cyclone. Thanks to his natural sympathy towards There are also some of his papers of a mathematical nature such as those regarding the geometric

n, especially in connection with the agricultural problem of the rice crop, a matter of most importan rediction of rice crops ollaborators on the correlation of different meteorological elements in the Far East and also on the p t national concern in this country. A series of papers have been published by him as well as by his c At the same time he is deeply interested in the practical problem of long period weather predictio

med as an inexhaustible source for reference of useful data of which the reliability is insured by his The recent compilation of "Climate of Japan" by Prof. Okada's own hand will be universally welco

ual for meteorological instruments. These are not only undisputedly the best of the kind ever writte on an elementary textbook for beginners, a treatise for advanced students, a book on rain and a man s also written a number of excellent books on meteorology, among which we may especially menti ely anything in this world which is entirely free form the influence of meteorological factors. He ha own name, by all those who are engaged in any kind of scientific or practical work, as there is scarc ed authors and, besides, they abound with materials typical of the Far East. n in our language, but they may well compete with those written in occidental languages by renown

eing an embodiment of long year's experiences of a veteran scientist a", which afford very interesting reading not only for meteorologists but also for scientist at large, b A series of short episodes and reminiscences by his fluent pen appears frequently in "Umi to Sor

924 he was awarded the Symons's Gold Medal by the Royal Meteorological Society of London and Member of the Imperial Academy of Japan. in 1925 he was elected an Honorary Member of the same Society. Again, in 1931, he was elected a Well deserved recognition of his achievements as a man of science is shown by the fact that in 1

Prof. Okada's deep love of science is perhaps connected with his bibliophilistic inclination which

y one engaged in any kind of original research, has resulted in fostering a fervent atmosphere of sci on the part of the members of the Meteorological Society of Japan. Its Meeting which was formerly cientific research of this country. This latter fact may be recognized also by the remarkable activity well as of its branch observatories, which have now risen to the level of the most active centres of s entific enthusiasm among the younger staff members of the Central Meteorological Observatory as y of his personality which is revealed in his prompt assistance and kind encouragement given to an aling at once for Prof. Okada's assistance whenever puzzled in search of literature concerning some me propensity of the Director. The present writer has involuntarily acquired a wicked habit of appe he library of the Central Meteorological Observatory owes its richness and amplitude to this welco mains of meteorology and geophysics but also in other fields of the natural sciences. It seems that t held once a month is now regularly held twice matters lying outsides of beaten tracks. Again, his own love of science combined with the cordialit is well known among his friends. His private collection abounds with rare books not only in the do

weaving together the more and more elaborate net-work of the weather service of Japan, at the sam At the age of fifty eight he is still in his prime of youthful activities, with his everlasting zeal in If of themselves as well as for the future prosperity of meteorological science in Japan. or, a teacher, a friend and at the same time their most affectionate father. It is merely the humblest e obby, and never neglecting his care for his beloved foster-children, who find in Prof. Okada a direct e time devoting his spare time as ever to his own research work, as it seems, as his most favourite h with their heartfelt desire that Prof. Okada may always continue his activity in good health, on beha te it to the commemoration of his thirty years' service in the Central Meteorological Observatory teorologists that they have here undertaken to compile the present Anniversary Volume and to devo xpression of the profound feeling of gratitude on the part of this younger generation of Japanese me

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