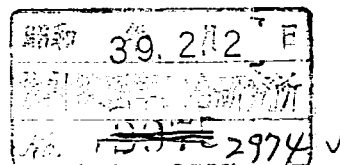


**REPORT OF THE
UNITED NATIONS
SCIENTIFIC COMMITTEE
ON THE
EFFECTS OF ATOMIC RADIATION**

GENERAL ASSEMBLY
OFFICIAL RECORDS : SEVENTEENTH SESSION
SUPPLEMENT No. 16 (A/5216)



UNITED NATIONS
New York, 1962

NOTE

Throughout the present report and the annexes thereto, references to the annexes are indicated by a letter followed by a number : the letter denotes the relevant annex and the number the paragraph therein. Within each annex, references to its scientific bibliography are indicated by numbers.

Symbols of United Nations documents are composed of capital letters combined with figures. Mention of such a symbol indicates a reference to a United Nations document.

ANNEX J

LIST OF REPORTS SUBMITTED TO THE COMMITTEE

1. This annex lists reports received by the Committee from Governments, specialized agencies, the International Commission on Radiological Protection and the International Commission on Radiological Units and Measurements.

2. All those reports are included of which a sufficient number of copies for distribution in the A/AC.82/G/R. and A/AC.82/G/L. document series were received before 10 March 1962.

3. The first 213 reports received by the Committee are listed in annex I of its first comprehensive report.*

* *Official Records of the General Assembly, Thirteenth Session, Supplement No. 17 (A/3838).*

<i>Document No.</i>	<i>Country and title</i>	<i>Document No.</i>	<i>Country and title</i>
A/AC.82/G/R.		A/AC.82/G/R.	
214	ARGENTINA Descontaminación y potabilización de las aguas del Río de la Plata luego de una explosión nuclear.	228	BRAZIL Radio-active products in the soil and in the atmosphere.
215	UNITED STATES Detection of radiation effects on hair roots of the human scalp.	229	CZECHOSLOVAKIA Measurements of radio-active fall-out on the territory of the Czechoslovak Republic.
216	Fission product radio-activity in the air along the 80th meridian January-June 1957.	230	The role of deoxiribonucleotides in irradiation sickness.
217	The biological effects of atomic radiation. The effects of radiation on oceanography and fisheries.	231	Damage of the liver cell produced by a small dose of radiation.
218	CANADA Consanguineous matings as a means of evaluating the effect of deleterious recessive genes on fertility in humans.	232	UNITED STATES Common strontium content of the human skeleton.
219	DENMARK Gonad-dose-measurements in Denmark.	233	Current strontium-90 level in diet in United States.
220	Risk of parenthood and risk of subsequent parenthood. Denmark, 1955 and 1956.	234	Long-term fall-out, a summary of measurements made through June 1957 by the gummed-film network of the AEC.
221	Genetically significant radiation doses from diagnostic radiology in Denmark.	235	Environmental contamination from weapons tests.
222	ARGENTINA Distribución geográfica del calcio y potasio solubles del suelo en la República Argentina.	236	The shorter-term biological hazards of a fall-out field.
223	UNITED STATES Tabulated results of radio-strontium analyses.	237	GERMANY Tables of radiological data.
224	Strontium-90 in man, II.	238	ITALY Data on radio-active fall-out, collected in Italy (January-June 1958).
225	Manual of standard procedures.	239	POLAND Measurements of radio-active fall-out and airborne radio-activity in Warsaw and Cracow during the year 1957.
225/ Add.1	Addendum to above document.	240	UNITED STATES Some measurements of the radio-activity of the air during 1957.
225/ Add.2	Addendum to above document.	A/AC.82/G/L.	
225/ Add.2/ Corr.1	Corrigendum to above document.	241	UNITED KINGDOM The deposition of long-lived fission products from nuclear test explosions.
225/ Add.3	Addendum to above document.	242	UNITED STATES Critique of the linear theory of carcinogenesis.
225/ Add.4	Addendum to above document.	243	Geochemical scavenging of strontium.
225/ Add.5	Addendum to above document.	244	Uptake of waste Sr ⁹⁰ and Cs ¹³⁷ by soil and vegetation.
225/ Add.6	Addendum to above document.	245	Beneficiation of soils contaminated with strontium-90: beneficial effects of potassium.
225/ Add.7	Addendum to above document.	246	The distribution of radio-activity from rain.
226	Leukemia in Hiroshima City atomic bomb survivors.		
227	UNITED KINGDOM Radio-active and natural strontium in human bone. UK results for 1957.		

Document No.	Country and title	Document No.	Country and title
A/AC.82/G/L.		A/AC.82/G/L.	
	UNITED STATES (<i>continued</i>)		UNITED STATES
247	Radiation dose rate and mutation frequency.	268	Atmospheric aspects of strontium-90 fall-out.
248	Retention of radio-active bone-seekers.	269	Accidental radiation excursion at the Y-12 Plant.
249	Hazard to man of carbon-14.	270	The acute radiation syndrome.
	UNITED KINGDOM	271	Strontium program quarterly summary report.
250	A preliminary survey of radiostrontium and radiocaesium in drinking water in the United Kingdom.		BELGIUM
	UNITED STATES	272	Mesures des doses aux gonades reçues lors d'examens radiologiques.
251	Radiation exposures from nuclear tests at the Nevada test site.		UNITED KINGDOM
252	Genetic and somatic effects of carbon-14.	273	Radio-active and natural strontium in human bone—UK results for early 1958.
253	Radiochemical analyses of air-filter samples collected during 1957.	274	Radio-active and natural strontium in human bone—UK results for mid- and late 1958.
254	Cs ¹³⁷ biospheric contamination from nuclear weapons tests.		UNITED STATES
255	Determination of tungsten-185, strontium-90, barium-140, and cesium-137 in fall-out samples.	275	Quarterly statement on fall-out by the US Atomic Energy Commission—September 1959.
256	Entry of radio-active fall-out into the biosphere and man.		ILO
257	Radiocarbon from nuclear tests.	276	The protection of workers against ionising radiations.
258	Analysis of stratospheric strontium-90 measurements.		UNITED STATES
259	Nuclear-critical accident at the Los Alamos Scientific Laboratory on December 30, 1958.	277	Quarterly statement on fall-out by the US Atomic Energy Commission, October 1959.
260	Atmospheric radio-activity studies at the US Naval Research Laboratory.	278	Strontium program quarterly summary report.
261	Gamma radio-activity of people and milk.		GERMANY
	ITALY	279	The recent increase in the C ¹⁴ content of the atmosphere, the biosphere and the ocean.
262	Data on radio-active fall-out, collected in Italy (July–December 1958).		UNITED STATES
	FRANCE	280	Stratospheric carbon-14, carbon dioxide, and tritium.
263	Quelques données récentes sur la conversion roentgen-rad dans l'os et le muscle.		CANADA
	BELGIUM	281	Contamination of the NRU reactor in May 1958.
264	Comparative sensitivity to radiation of seeds from a wild plant grown on uraniferous and non-uraniferous soils.		ITALY
	CANADA	282	Data on environmental radio-activity, collected in Italy (January–June 1959).
265	Levels of strontium-90 in Canadian milk powder samples up to the end of December 1958.		NORWAY
	UNITED KINGDOM	283	Cesium-137 in milk.
266	Strontium-90 in human diet in the United Kingdom, 1958.		CANADA
	DENMARK	284	The analysis of the strontium-90 levels in Canadian milk up to 1958.
267	Therapeutic abortion on account of X-ray examination during pregnancy.		INDIA
		285	Strontium-90 in milk and human bone in India.

<i>Document No.</i>	<i>Country and title</i>
A/AC.82/G/L.	
	UNITED KINGDOM
286	The deposition of fission products from distant nuclear test explosions: results to mid-1959.
	UNITED STATES
287	Industrial radio-active waste disposal.
287/ Add.1	Addendum to above document.
	FAO
288	Radio-active materials in food and agriculture.
288/ Corr.1	Corrigendum to above document.
	FRANCE
289	Activité de l'atmosphère due au krypton-85.
290	Radioactivité artificielle dans la stratosphère.
291	Modifications de la radioactivité naturelle due au carbone-14.
292	Polution de l'air et irradiation au sol dues au panache d'un réacteur en fonctionnement normal.
293	Mesure du rayonnement γ du corps humain.
	INDIA
294	Measurements on the ground deposition of fission products from nuclear test explosions.
295	Airborne fall-out measurements in India.
296	Measurements of cesium-137 in Indian and foreign milk.
	CANADA
297	Automatic linkage of vital records.
	SWEDEN
298	Gamma radio-activity of Swedish people measured during May and June 1959.
299	Fractionation phenomena in nuclear weapons debris.
300	Cs ¹³⁷ in Swedish milk and soil.
301	Determination of Sr ⁹⁰ in dried milk, milk and soil.
301/ Add.1	Addendum to above document.
302	Cs ¹³⁷ in Swedish milk—results up to June 1959.
303	The fission products Zr ⁹⁵ and Nb ⁹⁵ in Swedish milk.
304	Recent fall-out measurements in Sweden.
305	Gamma radiation from nuclear weapons fall-out.

<i>Document No.</i>	<i>Country and title</i>
A/AC.82/G/L.	
	SWEDEN (<i>continued</i>)
306	Dosage implications based on microscopic distribution.
307	A method for determination of the strontium distribution in human bone.
308	A method for photographic identification of microscopical radio-active particles.
	NORWAY
309	Wet and dry deposition of fall-out materials at Kjeller.
	ARGENTINA
310	Fall-out en la República Argentina durante 1959.
311	Estudio de la contaminación del Prochilodus platensis (Sábalo) con productos de fisión.
312	La precipitación radiactiva atmosférica en la República Argentina en el período Enero 1957-Julio 1958.
	UNITED STATES
313	Measurements of the air concentration of gross fission product radio-activity during the IGY—July 1957-December 1958.
	NEW ZEALAND
314	Environmental contamination.
315	Notes on measurements of alpha-particle activity of soils, fertilizers, plants and animals.
	AUSTRALIA
316	Strontium-90 in the Australian environment.
	UNITED STATES
317	Radiochemical analyses of air-filter samples collected during 1958.
318	Effect of soil nutrients on plant uptake of fall-out.
319	Symposium on occupational health experience and practices in the uranium industry.
320	Press release HEW-L6. US Dept. of Health, Education and Welfare, regarding radio-activity in milk, dated 20 August/59.
321	Press release HEW-L44. US Dept. of Health, Education and Welfare, regarding radio-activity in milk, dated 3 October/59.
322	Fall-out from nuclear weapons tests, volume 1.
322/ Add.1	Addendum to above document.
322/ Add.2	Addendum to above document.

<i>Document No.</i>	<i>Country and title</i>
A/AC.82/G/L.	
	USSR
323	Определение загрязнений биосферы продуктами ядерных испытаний (сборник статей).
324	О чувствительности нервной системы к слабым радиационным воздействиям.
325	Опухоли у крыс, возникшие после внутрибрюшинного введения азотоносного плутония (Pu-239).
326	Некоторые данные о влиянии ионизирующих излучений на нуклеиновые вещества в живом организме.
327	О биологическом действии ионизирующей радиации в малых дозах.
328	О некоторых закономерностях возникновения остеогенных сарком, индуцированных радиоизотопами.
329	О нейрогуморальной регуляции клеточного деления.
330	Выпадение стронция-90 на поверхность территории СССР.
331	Задачи экспериментальной техники лучевых воздействий и некоторые радиобиологические данные.
332	Действие ионизирующей радиации на бактериальные вирусы.
	FRANCE
333	Radioactivité de l'air et des précipitations au niveau du sol dans la région parisienne.
334	Etude autoradiographique du métabolisme du 131 iode chez le rat.
	UNITED STATES
335	Health and Safety Laboratory strontium program quarterly summary report HASL-77, dated 1 January 1960.
	NORWAY
336	Radio-active fall-out in Norway, 1959.
	GERMANY
337	Sonderausschuss Radioaktivität—Radioaktive Partikel.
	UNITED STATES
338	Radio-activity of surface waters of the United States.
339	Press release HEW-M9. US Department of Health, Education and Welfare, dated December 31, 1959.
340	Quarterly statement on fall-out, by the US Atomic Energy Commission.
	FRANCE
341	Rapport sur le problème des doses aux gonades résultant de l'utilisation médicale des radiations ionisantes en France.

<i>Document No.</i>	<i>Country and title</i>
A/AC.82/G/L.	
	UNITED KINGDOM
342	Radio-strontium and radio-caesium in drinking water in the United Kingdom.
	SWEDEN
343	Physical aspects of the radio-active fall-out over Scandinavia, especially during the period October 1958—October 1959.
344	The increase of γ -radiation from the ground in Sweden (1950—1959) caused by fall-out from nuclear weapon tests.
345	A method for the automatic recording of ionizing radiation.
346	The radio-active fall-out in Sweden 1957—1958.
	UNITED STATES
347	An investigation of the late clinical findings following thorotrast (thorium dioxide) administration.
	GERMANY
348	Estimate of future Sr ⁹⁰ —deposition.
	FINLAND
349	Measurements of the amount of radio-active fall-out in Finland.
	UNITED STATES
350	Natural aerosols and nuclear debris studies. Progress Report II.
	SWEDEN
351	The transfer of strontium-90 from mother to fetus in mice.
	UNITED STATES
352	Press release HEW-M46, dated 4 February 1960.
	SWITZERLAND
353	Bericht der eidgenössischen Kommission zur Überwachung der Radioaktivität zuhanden des Bundesrates.
	UNITED KINGDOM
354	Strontium-90 in milk and agricultural materials in the United Kingdom, 1958—1959.
354/ Add.1	Addendum to above document.
	WHO
355	Methods of radio-chemical analysis.
356	Effect of radiation on human heredity: investigations of areas of high natural radiation.
	CANADA
357	Gonadal exposure dose to adults in diagnostic radiography.

<i>Document No.</i>	<i>Country and title</i>
A/AC.82/G/L.	
	UNITED STATES
358	The biological effects of atomic radiation. (Summary reports 1960.)
358/ Add.1	Addendum to above document.
359	Critical analysis of measurements of the gross fission product activity in the air at ground level.
360	Health and Safety Laboratory fall-out program quarterly summary report.
	FRANCE
361	Evolution de la teneur du lait et des végétaux en radioéléments artificiels dans l'est de la France (période du 1er janvier 1958 au 1er octobre 1959).
	UNITED KINGDOM
362	Strontium-90 in human bone in the United Kingdom (1956-1958).
	UNITED STATES
363	Leukemia in Hiroshima atomic bomb survivors.
	SWEDEN
364	The genetic background to the reactions of various mouse strains to X-rays.
365	Distribution of S ³⁵ in mice after injection of S ³⁵ -cysteamine.
	DENMARK
366	Environmental radio-activity at Risö, April 1, 1957-March 31, 1958.
367	Environmental radio-activity at Risö, April 1, 1958-March 31, 1959.
368	Environmental radio-activity at Risö, Report No. 14, 1959.
	ITALY
369	Data on environmental radio-activity, collected in Italy (July-December 1959).
	INDIA
370	Evaluation of future levels of radio-active fall-out.
	NORWAY
371	On the transportation and deposition of fall-out materials.
372	Fall-out over Norway from high-yield nuclear explosions.
	BELGIUM
373	Programme "Evolution du Sr ⁹⁰ dans les sols et les végétaux".
	UNITED KINGDOM
374	Training in radiological health and safety.

<i>Document No.</i>	<i>Country and title</i>
A/AC.82/G/L.	
	UNITED KINGDOM (<i>continued</i>)
375	The radio-activity of the atmosphere near ground level due to distant nuclear test explosions.
	UNITED STATES
376	Fall-out program quarterly summary report (March 1, 1960 through June 1, 1960).
	UNITED KINGDOM
377	Radio-active and natural strontium in human bone. UK results for 1959. Part I.
378	Bibliography of papers published in the United Kingdom from January 1959 to May 1960 on radio-biological and allied subjects—MRC.60/735.
	JAPAN
379	Radio-active contamination in the upper atmosphere.
380	On the radio-activity and particle analysis of airborne dust in the troposphere.
380/ Corr.1	Corrigendum to the above document.
381	Behavior of radio-active fall-out and air-masses around Japan.
382	The residence time in the atmosphere of the debris from atomic test explosions.
383	Radio-activity of airborne dusts and atmospheric pressure patterns.
384	Sr ⁹⁰ deposition and meteorological factors.
385	Deposition of radio-active dust and atmospheric conditions.
386	Radio-active fall-out in Japan and its bearings on meteorological conditions.
387	Strontium-90 in Western North Pacific surface waters.
388	Cesium-137 and strontium-90 in fall-out deposits.
389	Local changes in Sr ⁹⁰ deposition in the soil as observed in Hokkaido Island, Japan.
390	Neptunium-239 content in the radio-active rain water collected in Japan during the period 1954-1958.
391	Recent variation in the atmospheric radio-carbon and the problem of transfer of radio-carbon into hydrosphere.
392	Research on radio-activity in stock rain water of lighthouses in Japan.
393	Radio-active contamination of milk and milk products in Japan.
394	Radio-active contamination of marine products in Japan.

Document No.	Country and title	Document No.	Country and title
A/AC.82/G/L.		A/AC.82/G/L.	
	JAPAN (continued)		USSR (continued)
395	The rapid radio-chemical determination of caesium-137.	416	Генетическая радиочувствительность клеток разных видов млекопитающих.
396	The concentration of cesium-137 in human tissues and organs.	417	Эффект малых доз радиации на хромосомные перестройки при облучении клеток в культурах эмбриональных тканей человека.
397	Measurements of radiation doses due to background gamma rays by plastic scintillators.	418	Влияние генотипа организма на чувствительность ядерного аппарата к малым дозам ионизирующей радиации.
398	Cytological effect of hot rain.	419	Роль наследственных особенностей в радиочувствительности животных.
399	Effects of radiations on mitoses studied by <i>Tradescantia</i> test <i>in vivo</i> . I. X-ray irradiations by small doses.	420	Об экспериментальной обратимости ядерных повреждений в облученных клетках млекопитающих.
400	Statistical observations on leukemias in Hiroshima during the past fourteen years (1946-1959).	421	Сравнительное изучение эффективности однократного и фракционированного рентгеновского облучения семенников мыши.
401	Optimum mutation rate and degree of dominance as determined by the principle of minimum genetic load.	422	Сравнительная радиочувствительность яичников обезьян <i>Macaca mulatta</i> и мышей при облучении рентгеновыми лучами.
402	Relative applicability of the classical and the balance hypotheses to man, especially with respect to quantitative characters.	423	Эффективность биологического действия C^{14} при его включении в живые структуры.
403	Human genetic study in Japan.	424	Цитогенетическая радиочувствительность половых клеток обезьян и мышей на уровне малых и других доз.
	USSR	425	Цитологические доказательства физиологической защищенности аутотетраплоидов гречихи (<i>Fagopyrum esculentum</i> Moench) от действия ионизирующей радиации.
404	Отдаленные последствия поражений, вызванных воздействием ионизирующей радиации.	426	Радиационное поражение рыб.
405	Влияние ионизирующих излучений на плодовитость самок некоторых видов грызунов.	427	Особенности индуцированного мутационного процесса у микроорганизмов.
406	Генетическая опасность малых доз радиации для человека и их эффект на наследственность обезьян и грызунов.		SWEDEN
407	Контролирование естественного мутационного процесса.	428	The concentration of some fission product nuclides in ground-level air during the period September 1957-December 1959.
408	Влияние малых доз ионизирующей радиации на частоту возникновения сцепленных с полом рецессивных летальных мутаций у дрозофилы.		UNITED STATES
409	Радиочувствительность разных стадий сперматогенеза у <i>Drosophila melanogaster</i> .	429	Secretion of dietary strontium-90 and calcium in human milk.
410	Защитный эффект цистеаминна (β -меркаптоэтиламина) на хромосомные перестройки в тканях обезьян и мышей.	430	X-ray induced chromosome aberrations in mammalian cells <i>in vivo</i> and <i>in vitro</i> .
411	Генетический эффект радиации у микроорганизмов при различных перестройках ядерных структур.	431	Sex-linked recessive lethals in <i>Drosophila</i> whose expression is suppressed by the Y-chromosome.
412	Обратимость цитогенетических повреждений, вызванных радиацией.	432	X-ray sensitivity of primary spermatocytes of the mouse.
413	Биологическая опасность от повышения концентрации C^{14} в результате взрывов ядерных бомб.	433	Summary of available data on the strontium-90 content of foods and of total diets in the United States.
414	Причины радиустойчивости растений.	434	Mutation frequency at low radiation intensity.
415	Относительная генетическая радиочувствительность различных видов млекопитающих и дрозофилы.		

Document No.	Country and title
A/AC.82/G/L.	
	UNITED STATES (<i>continued</i>)
435	Factors causing a high frequency of mice having the XO sex-chromosome constitution.
436	Genetic control of physiological processes: The genetics of radiation toxicity in animals.
437	Radio-activity of invertebrates and other organisms at Eniwetok Atoll during 1954-1955.
438	Ratio of cesium-137 and strontium-90 radio-activity in soil.
439	The error hypothesis of mutation.
440	Strontium-90 in North Atlantic surface water.
441	Leukemia in Nagasaki atomic bomb survivors.
442	Neoplasms among atomic bomb survivors in Hiroshima City.
443	Special report on high altitude sampling program.
444	Evaluation of radiological conditions in the vicinity of Hanford for 1959.
	AUSTRIA
445	Data compiled by the Bundesstaatliche Bakteriologisch-Serologische Untersuchungsanstalt in Linz, the Bundesanstalt fuer Wasserbiologie und Abwasserforschung at Wien-Kaisermuehlem and the Zentralanstalt fuer Meteorologie und Geodynamik in Vienna as to the degree of radio-activity in air and water.
445/ Add.1	Addendum to previous document.
445/ Add.2	Addendum to previous document.
445/ Add.3	Addendum to previous document.
445/ Add.4	Addendum to previous document.
445/ Add.5	Addendum to previous document.
445/ Add.6	Addendum to previous document.
445/ Add.7	Addendum to previous document.
445/ Add.8	Addendum to previous document.
445/ Add.9	Addendum to previous document.
	IAEA
446	Radiation damage in bone.
	DENMARK
447	Excerpt from draft-report on the activities of the Danish AEC for the period from 1 April 1959 to 31 March 1960.

Document No.	Country and title
A/AC.82/G/L.	
	DENMARK (<i>continued</i>)
448	Strontium-90 in human bone.
449	Information regarding levels of Sr ⁹⁰ and Cs ¹³⁷ in rainfall up to the end of 1959.
	UNITED STATES
450	Consanguineous marriages in the Chicago region.
451	Radiation dose rate and mutation frequency.
452	Influence of dose rate on radiation effect on fertility of female mice.
453	Acute radiation response of mice from a cross between radio-sensitive and radio-resistant strains.
454	Effects of incorporated radio-carbon, C ¹⁴ , on somatic flower-color variations and morphological changes in the snapdragon, <i>Antirrhinum majus</i> .
455	Annual report for 1959 on the radio-active fall-out study program.
456	Quarterly report of the radio-active fall-out study program—January-March 1960.
	GERMANY
457	The 90-strontium content of the diet of children and juveniles in 1959.
	NORWAY
458	Meteorological fractionation of nuclear bomb debris.
459	Determination of fall-out radio-activity in the atmosphere by means of an airborne filter.
	INDIA
460	Fall-out observations in India after the first French atomic test in Sahara.
	ARGENTINA
461	Radioestroncio en la Leche.
	UNITED STATES
462	Dependence of mutation rate on radiation intensity.
463	Some prompt and delayed effects of X-rays on growth of human amnion cells (strain FL) in tissue culture.
464	Damage and recovery of mouse testis after 1,000 r acute localized X-irradiation with reference to restitution cells, sertoli cell increase, and type A spermatogonial recovery.
	JAPAN
465	Delayed radiation effects in survivors of the atomic bombings.
466	Further studies in radiation conditioned behavior.

Document No.	Country and title	Document No.	Country and title
A/AC.82/G/L.		A/AC.82/G/L.	
	JAPAN (<i>continued</i>)		ROMANIA (<i>continued</i>)
467	The use of ionizing radiation as a motivating stimulus.	484	Atmospheric radio-activity in Bucharest from January to June 1960.
468	Accumulation of radio-active materials by fishery organisms.		UNITED STATES
	UNITED STATES	485	Fall-out program quarterly summary report, HASL-95.
469	Research in radio-biology.	486	Summary of gummed film results through December 1959, HASL-93.
	ARGENTINA		UNITED KINGDOM
470	Informe sobre mediciones radioquímicas de la precipitación radioactiva.	487	Strontium-90 in human diet in the United Kingdom, 1959.
	CZECHOSLOVAKIA		SWEDEN
471	Action of chloramphenicol on the change in capacity of <i>Escherichia coli</i> B cells irradiated with X-rays for phage T3.	488	The content of Cs ¹³⁷ and (Z r N b) ⁹⁵ in Swedish soils.
472	The significance of the intensity of metabolic processes and of weight for the radio-sensitivity of the organism.	489	The Cs ¹³⁷ and Sr ⁹⁰ content in dried milk samples from 1958 and 1959, FOA 4, Rapport A 4141-456, June 1960.
	JAPAN		AUSTRALIA
473	The summary of researches in Japan particularly related to document A/AC.82/R.87.	490	Results of strontium-ninety determinations on samples from Lucas Heights and Richmond, N.S.W., 1959-1960.
	UNITED STATES		SWEDEN
474	Measurement of bone marrow and gonadal dose from the chest X-ray examination as a function of field size, field alignment, tube kilovoltage and added filtration.	491	Autoradiographic and microscopic examination of nuclear-weapon debris particles.
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	JAPAN	494	Radio-active fall-out in Sweden through May 1960.
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477	Annual and geographical change of Sr ⁹⁰ dietary intake of Japanese.	495	A selected list of references on marine and aquatic radiobiology.
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479	The environmental increase of cesium-137 since 1957 to 1960.	497	Radiological Health Data, Pb 161371-7, quarterly report, October 1960.
	UNITED STATES	498	Radiological Health Data, Pb 161371-6, monthly report, September 1960.
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481	The determination of internally deposited radio-active isotopes.	500	Radiation and the sex ratio in man.
	DENMARK	501	The ORINS human radiation counters, Orins-38.
482	Caesium-137 in spray-dried Danish milk.		CZECHOSLOVAKIA
	ROMANIA	502	The role of cellular cytoplasm in the development of primary effect of radiation.
483	Atmospheric radio-activity in Bucharest and Jassy in the Romanian People's Republic.	503	Strontium-90 in milk, 1957 to 1960, and its relation to radio-active fall-out in Central Europe.

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	CZECHOSLOVAKIA (<i>continued</i>)		MEXICO (<i>continued</i>)
504	Changes in O ₂ consumption by rats during irradiation.	523	Cuarto informe sobre estudios de la precipitación radioactiva.
505	The time dependence of the man-made radio-activity of atmospheric precipitation.	524	Contador 4 π con circuito de anticoincidencia doble.
506	Polyvalent immunological tolerance in homologous radiation chimaeras.	525	Análisis químico empleando protones con energías de 1.5 mev.
507	A brief survey of results of measurement of fall-out and rainfall strontium-90 in fall-out and milk.	526	Yodación de la seroalbúmina con yodo-131.
508	Report on measurements of man-made airborne radio-activity in IGY and IGC, 1957-1959.		DENMARK
509	Changes in the catalase activity of the liver in mice after X-irradiation.	527	Report to the Danish National Health Board on the irradiation studies in progress at the Copenhagen University Institute for Human Genetics.
510	Effect of radiation on bone marrow cells at various temperatures <i>in vitro</i> .		MEXICO
	UNITED STATES	528	Fuerzas de Wigner y el modelo de capas del núcleo.
511	Radio-active iodine concentration in the fetal human thyroid gland from fall-out.	529	Fuerzas nucleares con centro repulsivo y el modelo de capas del núcleo. Efectos de segundo orden.
	UNITED KINGDOM	530	El efecto del reflector en los reactores heterogéneos.
512	The deposition of fission products from distant nuclear test explosions—results to the middle of 1960.	531	Sobre la generación de funciones transferentes por medio de distribuciones.
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514	The uptake of radio-active strontium by crops under field conditions in the United Kingdom.	535	Energy levels of Sc ⁴⁵ and Ca ⁴² .
	INDIA	536	Geomagnetic coordinates and cosmic radiation.
515	Cesium-137 in milk.	537	The simple cones of albedo of cosmic rays.
	UNITED KINGDOM	538	Short range forces and nuclear shell theory.
516	Radio-active fall-out in air and rain.	538/	Addendum to above document.
	NORWAY	Add.1	
517	Radio-active fall-out in Norway—July 1959 to July 1960.	539	Velocity-dependent forces and nuclear structure. II. Spin-dependent forces.
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520	Métodos de cálculo de la precipitación radioactiva.	541	Radio-active fall-out in Ghana.
521	Resonancia del F ¹⁸ por bombardeo de O ¹⁶ con deuterones.		BELGIUM
522	Métodos de determinación del estroncio-90.	542	La retombée radioactive à Mol et au Congo.

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542/ Add.1	Addendum to above document.
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543	Содержание Sr ⁹⁰ в почве и растительном покрове московской области.
544	Содержание Sr ⁹⁰ в молоке разных районов СССР в 1959 году.
545	Исследование содержания Sr ⁹⁰ в зерновых культурах (урожай 1958 года).
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547	К вопросу об увеличении содержания C ¹⁴ в атмосфере.
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549	Радиохимические методы анализа искусственных радионуклидов в различных природных объектах.
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	SWEDEN (<i>continued</i>)		UNITED STATES
580	Studies on plant accumulation of fission products under Swedish conditions. II. Influence of lime and phosphate fertilizer on the accumulation of Sr ⁸⁹ in red clover grown in 29 different Swedish soils.	595	Radiological Health Data. Volume II, Number 4, April 1961, quarterly report—US Department of Health, Education and Welfare.
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584	Dietary levels of strontium-90 and cesium-137.	600	Résultats d'une première enquête sur les effets somatiques de l'irradiation foeto-embryonnaire in utero.
	ARGENTINA	601	La technique d'autoradiographie anatomique à la température de l'azote liquide.
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	NORWAY	602	Survey of radio-activity in food consumed in Austria. Report on first sampling period (June–December 1960).
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	UNITED KINGDOM	603	Bibliography of papers published by United Kingdom sources from November 1960 to April 1961 on radiobiological and allied subjects.
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	FRANCE	605	Relationship between the deposition of strontium-90 and the contamination of milk in Britain during 1958–1960.
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	INDIA	606	The genetically significant dose in medical uses of X-rays and radio-active materials.
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	UNITED STATES	609	Radiological Health Data, Volume II, Number 6, June 1961, monthly report, US Department of Health, Education and Welfare.
591	Genetics research program of the Division of Biology and Medicine—TID-4041.	610	Atmospheric transport of artificial radio-activity.
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592	Delayed changes in children following irradiation with small X-ray doses.		
593	An investigation of gonad dose exposure in radiotherapy of non-malignant conditions.		
	ITALY		
594	Data on environmental radio-activity, collected in Italy (July–December 1960).		

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	UNITED KINGDOM		USSR (continued)
611	Dominant lethal effects of high intensity X-irradiation of mouse spermatogonia.		при воздействии на организм малых доз ионизирующей радиации в условиях внутреннего облучения.
612	Sex chromosome loss in mice following irradiation of the fertilised egg.	629	Флуоресцентные исследования изменений нуклеопротеидов и их дериватов в облученных клетках.
	INDIA	630	О действии рентгеновского облучения на окислительное фосфорилирование в митохондриях растений.
613	Radiochemical procedures for the assay of low levels of strontium-90 activity in milk, human bone and water.	631	Действие многократного рентгеновского облучения в малых дозах на деятельность высших отделов центральной нервной системы животных.
	USSR	632	Значение регенерационных процессов в реакции тканей на облучение.
614	Уровень загрязнения приземного слоя атмосферы продуктами испытаний ядерного оружия по измерениям в Подмоскowie с 1955 по 1959 год.	633	Изменения условнорефлекторной деятельности собак, вызванные хроническим общим облучением предельно допустимой дозой рентгеновых лучей.
615	Глобальное распространение в атмосфере и выпадение на землю радиоактивных продуктов ядерных взрывов.	634	Белковый обмен и иммунологические особенности клеточных органоидов при острой лучевой болезни.
616	Состав и концентрация радиоактивных загрязнений воздуха в Индийском и Тихом океанах в 1959-1960 годах по материалам экспедиции на Э/С «Витязь».	635	О подавлении регенерационных процессов в кости при различных условиях облучения животных.
617	Воздействие ионизирующей радиации на нуклеиновый обмен половых клеток самоцв-производителей в связи с развитием мужских и женских особей в их потомстве.	636	Экспериментальное изучение первичного механизма действия радиации на ядро клетки.
618	Количественная характеристика чувствительности центральной нервной системы к ионизирующему излучению.	637	Некоторые вопросы экспериментального обоснования максимально-допустимых количеств радиоактивных изотопов при попадании их в организм.
619	О роли радиационного повреждения внутриклеточных поверхностей раздела в биологическом действии ионизирующих излучений.	638	Спектрофотометрическое и радиометрическое исследование препаратов дезоксирибонуклеиновой кислоты, выделенных из печени крыс после поражения стронцием-90.
620	Ритмика окислительных процессов и ее нарушение при действии радиации.	639	О начальных механизмах биологического действия ионизирующих излучений.
621	Переход Sr ⁹⁰ от матери к потомству и изменения нервной и сердечно-сосудистой системы у последних.	640	О некоторых механизмах влияния малых доз хронического общего рентгеновского облучения на высшую нервную деятельность и некоторые вегетативные функции белых крыс.
622	Природа первичных цитогенетических лучевых повреждений и каталитическая активность хромосом.	641	Особенности хронического поражения, вызванного стронцием-90.
623	О «кислородном эффекте», наблюдаемом при лучевом повреждении растительных и животных клеток.	642	О характере изменения полимерного спектра ДНК при γ-облучении ее раст-воров.
624	К вопросу об обратимости различных форм радиационного поражения у диплоидных дрожжевых клеток.	643	О двух видах радиационного послед-ствия, выявляемых у семян ячменя.
625	О некоторых проблемах современной радиобиологии.	644	О передаче стронция-90 самками крыс детенышам.
626	Реакция коркового слоя надпочечников при воздействии на организм малых доз ионизирующей радиации в условиях внутреннего облучения.	645	К вопросу о характеристике синтеза белков в органоидах клеток тканей нормальных и облученных белых крыс.
627	Анализ действия основных физических факторов, изменяющих радиочувствительность.		
628	Реакции мозгового слоя надпочечников		

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646	La incorporación del Sr ⁹⁰ -Y ⁹⁰ en vegetales: estudio radioautográfico de dicha incorporación en <i>Vicia faba</i> .	661	Gonadal and bone marrow dose in medical diagnostic radiology.
	GERMANY	662	Annex to paper of estimation of gonad dose in radiotherapy of benign conditions.
647	Research on fundamental radiobiology and somatic effects of radiation of Germany, 1954-1960.	663	Report on exposure of workers of Atomic Energy Establishment of United Arab Republic.
648	Major radiogenetical studies carried out in the Federal Republic of Germany during 1953 to 1960.	664	Fall-out over United Arab Republic from the fourth French nuclear test over Algerian Sahara.
	SWEDEN	665	Strontium-90, stable strontium and stable calcium in soil, food items, water and human bone in Egypt (UAR).
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651	Radiocesium and potassium in Norwegians.	667	Assay of strontium-90 in human bone in the United Kingdom. Results for 1960, Part I with some further results for 1958 and 1959. Medical Research Council Monitoring Report, Series No. 2.
652	Cs ¹³⁷ burdens in Swedish Laplanders and reindeer.	668	Human bone metabolism deduced from strontium assays.
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653	Strontium-90 in fall-out and in man in Australia, January 1959-June 1960.	669	Fall-out in Norwegian milk in 1960. Norwegian Defence Research Establishment, Intern Rapport S-0006.
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654	Chronic occupational exposure to Sr ⁹⁰ and Ra ²²⁶ .	670	The protective effect of cysteamine against genetic damages by X-rays in spermatozoa from mice.
655	Results of systematic measurement of fall-out in Hradec Králové and Plzen, Czechoslovakia.	671	Sex-ratio—an unreliable method for estimations of radiation hazards.
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656	Bericht der eidgenössischen Kommission zur Überwachung der Radioaktivität zuhanden des Bundesrates.	672	Radiological Health Data, Vol. II, No. 7, July 1961, quarterly report. US Department of Health, Education and Welfare.
	FRANCE	673	Radiological Health Data, Vol. 22, No. 8, August 1961, monthly report.
657	Détermination du rapport rad/r dans l'os et le muscle par la méthode des gaz équivalents.	674	Assessment on the radiation dose due to fall-out.
658	Deux ans de contrôle de la radio-activité du Rhône et de la nappe phréatique.	675	The dose-response relation in radiation-induced cancer.
	CANADA		UNITED KINGDOM
659	Strontium-90 and cesium-137 in Canadian wheat (1957-1959).	676	Radiostrontium and radiocaesium in drinking water in the United Kingdom. Results to December 1960.
	UNITED STATES		UNITED STATES
660	Applications of radio-isotopes and radiation in the life sciences. Summary-analysis of hearings held on March 27, 28, 29 and 30, 1961 before the Sub-committee on Research, Development and Radiation of the Joint Committee on Atomic Energy Congress of the US, June 1961.	677	Offsite ecological research of the Division of Biology and Medicine—terrestrial and freshwater.
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678	Radiological Health Data, Vol. II, No. 9, September 1961, monthly report.	699	The organization of surveys for radio-nuclides in food and agriculture.
679	US Atomic Energy Commission Health and Safety Laboratory fall-out program quarterly summary report for October 1, 1961. HASL-115.		UNITED KINGDOM
680	Bioenvironmental features of the Ogotoruk Creek area, Cape Thompson, Alaska. A first summary by the Committee on Environmental Studies for Project Chariot. December 1960, TID-12439.	700	Medical X-ray exposure history of the parents of children with Down's syndrome (mongolism).
681	Atmospheric radio-activity at Kodiak and Wales, Alaska, NRL Report 5658.	701	Surveys of radio-activity in human diet and experimental studies.
682	Evaluation of the ground-water contamination hazard from underground nuclear explosion. UCRL-5538, April 8, 1959.		USSR
683	Distribution of radio-activity from a nuclear excavation. UCRL-6249-T, October 26, 1960.	702	Интенсивное радиоактивное выпадение в Симеизе (Крым) в результате ядерного взрыва в Сахаре 13 февраля 1960 года.
684	Proceedings of the Second Plowshare Symposium May 13-15, 1959, San Francisco, Calif. Part I. Phenomenology of underground nuclear explosions. UCRL-5675, May 15, 1959.	703	Исследование радиоактивных загрязнений в районе Черного моря в 1959 году.
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685	Strontium-90 and cesium-137 in fall-out deposits and implications of their ratio.	705	Содержание Sr ⁹⁰ в костной ткани людей, проживающих на территории Советского Союза.
686	Cesium-131 and strontium-90 in sea water.	706	Выпадения долгоживущих продуктов деления на территории СССР в 1959-1960 годах.
687	A new method of measurement of absorption dose rate from terrestrial background radiation.	707	Содержание Sr ⁹⁰ и Cs ¹³⁷ в пробах молока, взятых в разных районах СССР в 1960 году.
688	Deposition of Cs ¹³⁷ and Sr ⁹⁰ in Tokyo.		FRANCE
689	Measurement of the carbon-14 concentration in essential oil using the liquid scintillation spectrometer.	708	Etude de la vocation des sols en place à la rétention du radiostrontium.
690	The concentrations of Sr ⁹⁰ and Cs ¹³⁷ in land waters in Japan.	709	Méthode d'étude de la contamination radioactive des sols en place.
691	Cesium-137 levels in human body, August 1958-August 1960.		DENMARK
692	Measurements with a whole body counter.	710	Environmental radio-activity in Denmark 1960.
693	Natural concentration of krypton-85, carbon-14 and tritium in recent years.		BELGIUM
694	Physical aspect of fall-out in the troposphere.	711	La retombée radioactive à Mol—Rapport d'avancement 1 ^{er} semestre 1960.
695	Influence of radio-activity of the atomic explosion in Sahara desert.		UNITED KINGDOM
696	The peak in radio-active fall-out in the temperate zone of the northern hemisphere.	712	Radio-active fall-out in air and rain; results to the middle of 1961.
697	Penetration of artificial radio-activity in deep waters of the Pacific and vertical diffusion rate of sea water.		UNITED STATES
698	Seasonal variation of radio-active fall-out.	713	Radiological Health Data, Volume II, Number 10, October 1961, quarterly report.
		714	Radiological Health Data, Volume II, Number 11, November 1961.
		715	Fall-out from 1957 and 1958 nuclear test series.
		716	The latent period, incidence, and growth of Sr ⁹⁰ -induced osteosarcomas in CFI and CBA mice.
			CANADA
		717	The effect of radiation dose rate upon the

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	production of eye colour mutations in the <i>Chalcid dahlbominus</i> .	733	The distribution of active marrow in the bones of normal adult.
	UNITED KINGDOM	734	Mutation rates at low level irradiation in <i>Drosophila melanogaster</i> .
718	Strontium-90 in bones of infants in Hong Kong.	735	The genetically significant dose by the X-ray diagnostic examinations in Japan.
719	Bibliography of papers published by the United Kingdom sources from May to October 1961, on radiobiological and allied subjects.		UNITED STATES
720	Assay of strontium-90 in human bone in the United Kingdom—Part II.	736	Fission product radio-activity in the air along the 80th meridian (West) during 1960.
	BELGIUM	737	Health and Safety Laboratory, fall-out program, quarterly summary report, September 1, 1961 through December 1, 1961, HASL-117.
721	La retombée radioactive à Mol—Rapport d'avancement 2ème semestre 1960.	738	Sr ⁹⁰ in man and his environment, Volume III: Publications.
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722	Radio-activity in milk in the United Kingdom 1961: preliminary report.	740	Radiological Health Data, Volume II, No. 12, December 1961.
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