THE DISTRIBUTION OF RICH CLUSTERS OF GALAXIES

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Abstract

A catalogue is prepared of 2712 rich clusters of galaxies found on the National Geographic Society--Palomar Observatory Sky Survey. From the catalogue, 1682 clusters are selected which meet specific criteria for inclusion in a homogeneous statistical sample.

An investigation of the sample leads to the following conclusions: (i) The distribution function of clusters according to richness, N(n) increases rapidly as n decreases. (ii) The data allow no significant decision that the spatial density of cluster centers varies with distance. (iii) Galactic obscuration of the order of a few tenths of a magnitude (photored) exists at high northern galactic latitudes around galactic longitude 300°. (iv) There is a highly significant nonrandom distribution of clusters in direction, both when clusters at all distances and when clusters at various distances are considered. An analysis of the distribution yields strong evidence for the existence of secondorder clusters, that is clusters of clusters of galaxies. A statistical test shows the observed distribution to be compatible with the assumption of complete second-order clustering of galaxies.

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Introduction

The observational approach to cosmology requires the determination of the distribution and of the kinematical properties of matter in the universe. For remote objects, only the radial components of the space motions are observable, and only two of the spatial coordinates are readily available (say right ascension and declination). Comparison of theory and observation depends in a critical way upon at least a third spatial coordinate, say distance.

Distances to nearby galaxies are determined from the apparent luminosities of their brightest stars. In the nearest galaxies, cepheid variables are particularly important as such distance indicators. However, distances to more remote galaxies (beyond a few million parsecs) must be found from their integrated magnitudes.*

Unfortunately, absolute luminosities are known for comparatively few galaxies, and for those only approximately. The galaxies in even this small sample display a large range of absolute luminosities. It is thus not possible to learn the distance of an isolated galaxy from its apparent magnitude alone. However, clusters of galaxies provide a possible method of determining cosmic distances if some suitable characteristic of the luminosity function for a given cluster, for

^{*}In the measurement of the total magnitude of a galaxy, because of the difficulty encountered in including the contributions of light from its outermost regions, it is common practice to consider the magnitude included within a given projected radial distance of the center of the galaxy, or within a given isophotal countour (1).

example the magnitude of its nth brightest member, is assumed known. At the present time even the bright end of the luminosity function for clusters in not accurately known, nor is it known how the function might depend upon the richness, distance, or compactness of a cluster. However, there is some observational evidence (1) that the dispersion among the absolute magnitudes of the third, fifth, and tenth brightest galaxies of rich clusters is not over 0.35 magnitudes. The relative distances of clusters may thus be determined approximately.

It might seem that the velocity--distance relation (2,1) would make it possible to determine the distance of a galaxy from its redshift. However, the slope of the velocity--distance relation (Hubble constant) and the nature of any nonlinearities which may exist are known only tentatively. Furthermore, the calibration of the far end of the velocity--distance relation itself has been made with clusters of galaxies for which distance estimates are possible.

Counts of individual galaxies are useful in the investigation of the large scale distribution of cosmic matter (3,4,5,6,7,8,9). The apparent magnitudes of galaxies are, of course, statistically correlated with their distances, but the usefulness of the correlation is limited by the uncertainty of the luminosity function for all galaxies. Clusters of galaxies, on the other hand, provide an independent approach to the problem of the over-all distribution of matter. Since there is a possibility of determining at least relative distances to individual clusters, their spatial distribution is directly obtainable. Zwicky (10,11,12,13) has been investigating the cluster distribution; his published results pertain to a relatively small

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fraction of the total sky.

The principal statistical limitation of clusters of galaxies for distribution studies has been their small numbers. Prior to 1949, only a few dozen clusters were known. Twenty-five of these had been listed by Shapley in 1933 (14). In recent years, however, two independent photographic programs have indicated that clusters of galaxies are far more numerous than was formerly thought, and that indeed they may be fundamental condensations of matter in the universe. These are the proper motion survey made with the 20-inch astrographic camera of the Lick Observatory and the National Geographic Society--Palomar Observatory Sky Survey.

On the Palomar survey, which is by far the more extensive of the two, tens of thousands of aggregates of galaxies can be identified. Nearly two thousand of these clusters are sufficiently rich as to provide a homogeneous sample large enough to be useful for a provisional statistical investigation. Such an investigation is the purpose of the present program.

The study is in two parts. The first part consists of the compilation of a catalogue of 2712 rich clusters of galaxies discovered on the Sky Survey. The catalogue is intended as a finding list which is expected to be useful for the investigation of problems related to clusters.

In the second part, a homogeneous sample of 1682 clusters is selected from the catalogue for statistical study. The three problems considered are the uniformity of the distribution of clusters with depth in space, the isotropy of the distribution of clusters, and

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the evidence available for second-order clustering, that is, for the existence of clusters of clusters of galaxies.

PART I

A Catalogue of Rich Clusters of Galaxies

A. Observational Material

The observational material used for this study is the National Geographic Society--Palomar Observatory Sky Survey. The survey covers the sky from the north celestial pole down to declination -27° on photographs taken with the h8-inch Schmidt telescope of the Palomar Observatory. Observations for the Sky Survey were carried out by Dr. Albert G. Wilson (now director of the Lowell Observatory), Mr. Robert G. Harrington of the California Institute of Technology, and the writer. The National Geographic Society provided financial backing for the project, and the Palomar Observatory furnished administration and observing time at the h8-inch telescope.

The telescope is of the standard Schmidt type. The spherical mirror is 72 inches in diameter and has a radius of curvature of 241 inches. The correcting plate is made from 3/8-inch plate glass which transmits half intensity at about 3500 angstroms and actually has a clear aperture not of 48 inches but of 49.5 inches. The effective focal length of the system is 121 inches, giving a focal ratio of f/2.44.

The photographic plates employed are 14 inches square and are one millimeter thick, so that they can be curved in the plate holder to a 121-inch radius along the focal surface which is concentric with the spherical mirror. The image scale is 67.1 seconds of arc per millimeter. The smallest stellar images have a diameter of about 0.03 millimeters, about the average limit of resolution of the photographic emulsions used. The nonvignetted field of the telescope, determined by the respective sizes of the mirror and correcting plate, is 5.4 degrees in diameter. The computed loss in limiting magnitude because of vignetting at the extreme corners of a 14×14 -inch plate is less than 0.2 magnitudes.

The total field covered by one plate is 6.6 degrees square. A total of 879 different fields were required to cover the portion of the sky surveyed. Allowance was made for an overlap of at least 0.6 degrees along all edges of adjacent fields.

Each field was photographed with the Schmidt telescope on both blue- and red-sensitive photographic emulsions. The two exposures were taken in immediate succession. The order of the exposures was, however, arbitrary, being generally dictated by convenience or efficiency in arranging the observing schedule.

All exposures were made on photometrically clear nights in the absence of moonlight, and when the seeing disc of a stellar image was not more than three seconds of arc in diameter. Further, all exposures were made as near to the meridian as practicable (with very few exceptions, within two hours) to minimize extinction, differential refraction, and instrumental distortions.

For the blue exposures, the Eastman 103a-0 emulsion was used. For the red exposures, the Eastman 103a-E emulsion in combination with a red Plexiglass filter, number 2444 which has transmission characteristics similar to those of the Wratten Number 29 filter, was used. The exposure times were chosen to reach the faintest stars which can be recorded by the instrument under average observing conditions. They were separately determined by test exposures for each shipment of plates and ranged from 10 to 15 minutes for the blue exposures and from 40 to 60 minutes for the red. All plates were developed in standard formula D-19 developer for five minutes, while being agitated by an electrically operated mechanical rocking device designed to insure uniform development. The contrasts (ratio of density to the logarithm of the exposure for the approximately linear part of the characteristic curves for the emulsions) are between gamma 1.5 and 2.0.

Magnitudes of stellar images on the blue and red plates are approximately on the same color system as that of international photographic magnitudes and red magnitudes of Kron and Smith (15). The differences between blue and red magnitudes of stars on the survey plates are approximately 1.6 times their international color indices. A star with an international color index of 0.7 appears about equally bright on the blue and red plates. The red and blue limiting magnitudes were determined by the writer from six pairs of red and blue plates which contained Selected Area 57. The standards used were the photoelectric measures of stars in SA 57 by W. Baum which were communicated to the writer prior to publication. The limiting photographic magnitude for the blue plates is 21.1, and the limiting photored magnitude for the red plates is 20.0. Here, by limiting magnitude is meant the faintest magnitude for which every star produces an image.

These observations for the Sky Survey were carried out as part of a project sponsored jointly by the National Geographic Society and

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the Palomar Observatory, and are not properly part of this thesis. A description of the observations has been included here, however, because they are pertinent to the quality of the material used for the study of clusters of galaxies.

The intrinsic international color indices of nearby elliptical and early spiral galaxies cluster between 0.8 and 0.9, while the later spirals are somewhat bluer (16). Owing to the redshift of distant galaxies, the maximum of their spectral energy curves are shifted to the red. The largest red shifts so far measured (1) are about $d\lambda/\lambda=0.2$. A galaxy with an intrinsic effective wavelength of λ 5000 would thus appear to have an effective wavelength of λ 6000. Therefore, all but the nearest galaxies are more conspicuous on the red survey plates than on the blue. A cluster of galaxies with a redshift of $d\lambda/\lambda=0.2$ although plainly visible on the red plate is so inconspicuous on the blue plate as to be scarcely recognizable as a cluster.

Because of the advantages of the red plates for revealing distant clusters of galaxies, only the red survey photographs were used in the present study. The red plate-filter combination has a wavelength range of from $\lambda 6200$ (filter cut off) to $\lambda 6700$, with an effective wavelength near $\lambda 6500$. The sensitivity curve for the combination is given in figure 1.

B. Definition of a Cluster

In a recent series of papers, Neyman, Scott, Shane, and Swanson developed a theory of galaxian distribution in which it is assumed that all galaxies belong to clusters. In the first paper of the series (4)

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FIGURE I. RED SENSITIVITY RANGE

a probability generating function is derived from which can be predicted on the basis of the theory the probability of an observed distribution of galaxy images on a photographic plate. Their formula includes the effects of the projected distribution along the line of sight of images of galaxies at various distances, of galaxies belonging to clusters centered outside the photograph, and of galaxies contributed to the field by clusters most of whose members lie beyond the magnitude range of the telescope. The formula involves unspecified functions regarding the spatial distribution of galaxies within clusters, the distribution of the number of galaxies per cluster (the possibility of clusters containing only one galaxy is allowed), the limiting magnitude in various portions of the plate, and the luminosity function of galaxies. The only specific assumption is that the distribution of cluster centers is quasi-uniform, that is, according to a Poisson law.

In the second paper of the series (5) certain of these functions are specified, and some of the parameters of the functions are provisionally evaluated from counts of galaxies made at the Lick Observatory. In the third paper (6) the probability generating function with the assumed functions and derived parameters is employed to manufacture a "synthetic plate" which displays a possible distribution of galaxy images in accord with the theory. The distribution of galaxies on the synthetic plate is then compared with the distributions on several actual plates obtained with the 20-inch astrographic camera. The comparisons indicate that the actual distributions of galaxies are clustered. Indeed, the actual plates show slightly greater clustering tendency than does the synthetic plate.

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The synthetic plate showed considerable "clumpiness" in the distribution of galaxies. At first thought, it would seem that these clumps would indicate galaxies belonging to a particular cluster center. However, when it was checked back to determine which cluster centers the various galaxies in such an association actually came from, it was invariably found that the galaxies included in the "apparent" cluster really were contributed from two or more different cluster centers (7). Thus even though the distributions of galaxies on the 20-inch plates are compatible with the assumption that all galaxies are in clusters, it is not possible (at least on those plates) to identify the clusters to which individual galaxies belong.

The results of the Lick investigation imply that one must exercise considerable caution in deciding what a cluster is. It would appear that many apparent clusters are only projection effects, not physical associations of galaxies. Furthermore, the many clusters projected on top of each other on a photograph create the impression of a general field of galaxies, individual clusters often being "washed out" and indistinguishable from the field. Whereas no attempt has as yet been made to determine whether the distribution of galaxy images on the h8-inch plates is also compatible with the theory of complete clustering, the possibility must be considered that the same difficulties in the identification of clusters on the Falomar survey plates may be encountered as in the case of the Lick survey.

On the other hand, there are some well known rich clusters of galaxies which are unquestionably real physical associations. Consider, as examples, the famous clusters in Virgo and Coma Berenices,

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both of which have been well studied (11,12,17,18,19,20,21). The following arguments can be advanced in support of their reality as clusters: Firstly, the areal numerical densities of galaxies in these clusters substantially exceed the densities of the surrounding fields. Secondly, the dispersion in magnitudes among the members of these clusters is in reasonable agreement with our estimates of the dispersion of magnitudes of the brighter galaxies in our neighborhood. In particular, in each cluster large numbers of galaxies have nearly the same magnitudes, and also similar angular sizes. Thirdly, the spatial distributions of galaxies within the clusters are reasonable considering the numbers of galaxies within the clusters. Specifically, the Coma Cluster has approximately the (isothermal) distribution of a relaxed system, while the less rich Virgo Cluster has not (11). Fourthly, the galaxies within the clusters are observed to have about the same radial velocities; assuming the velocity--distance relation, their similar velocities imply similar distances. Fifthly, the internal dispersion of velocities in the clusters can be applied, with basic mechanics, to compute the average masses of their brighter members (11,18,22,23). The masses so obtained $(1 - 2x10^{11} \text{ solar masses})$ are in satisfactory agreement with the masses of bright galaxies obtained by other methods (24,25,26).

For the purpose of the present study, we shall consider the following picture of the distribution of galaxies: There is a general field of galaxies, the areal numerical density of which varies from point to point in the sky. Whether this field is composed of isolated individual galaxies, of clusters of galaxies overlapping in projection, or both is considered immaterial. In any case, superposed upon the

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general field there are occasional very rich clusters of galaxies which stand out conspicuously and which we shall assume to be physical associations. There will generally be a few galaxies belonging to the general field which will be indistinguishable from the bona fide cluster members. However, their number will be relatively small if we consider only the very richest aggregates. In the present investigation, criteria have been set up which are intended to exclude those associations which have a nonnegligible chance of being optical only, or which are insufficiently rich to insure identification.

To be useful for statistical analysis, it is essential that those clusters which meet the adopted criteria be identified completely. As each Sky Survey plate was taken, it was carefully inspected, either by Dr. A. G. Wilson or by the writer. A card file was kept of interesting objects, including clusters of galaxies, noted on the photographs. Since nearly half of the survey fields had to be photographed more than once to obtain plates which met the standards set for the Sky Survey, duplicate inspections were made of a large part of the sky. As the data were collected for the catalogue of clusters, the acceptable red plate of each survey field was again carefully inspected by the writer. The list of clusters found on each plate was then compared with the earlier records of the original inspections of that plate and all duplicate plates of the same field. The criteria for the definition of a cluster of galaxies were so set that no more than about two per cent of the clusters identified on one of the original inspections, and which meet the criteria, were missed on the final inspection. The adopted criteria are described in the following paragraphs.

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Richness criterion: A cluster must contain at least fifty members that are not more than two magnitudes fainter than the third brightest member. The third rather than first brightest member was chosen as the reference point to reduce possible errors in the counts caused by confusion of the brightest members of clusters with field galaxies.

Compactness criterion: A cluster must be sufficiently compact that its fifty or more members are within a given radial distance r of its center. The actual length of r is arbitrary so long as it is the same for all clusters. In determining whether a cluster meets this criterion, it was assumed that the redshift of a cluster is proportional to its distance. An estimate of the redshift was made by a technique described in section E. Then the counts of galaxies in the cluster were extended to a distance on the plate $\frac{1}{6} \frac{1}{\sqrt{cd\lambda/\lambda}}$ millimeters from the center of the cluster (c in kilometers per second). For an assumed value of the Hubble constant of H = $180 \text{ km/sec} \cdot 10^6 \text{ pc}$ (1), this corresponds to a distance in space of 8.2×10^5 pc. It should be pointed out that the counts are not particularly sensitive to the estimate of the redshift, nor to the linearity of the redshift law. In practice, it was found that the circle on the plate to which the counts were made was always considerably larger than the main concentration of the cluster, and counting to a radius fifty per cent larger or smaller would not substantially affect the counts (after correction for the general field).

Distance criterion: A cluster must be sufficiently distant so that counts of its members do not extend over more than one plate, or at

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most part of an adjacent plate. The Virgo Cluster, for example, spreads over several survey fields and would be very difficult to catalogue in a manner comparable to the more distant clusters. The adopted lower limit of distance is the distance corresponding to a redshift of 6000 km/sec. The Coma Cluster ($cd\lambda/\lambda = 6600$ km/sec) would thus be among the nearest clusters included in the catalogue.^{*}

The upper limit on distance is set by the requirement that two magnitude intervals beyond the third brightest member of a cluster be visible. Since it is not desirable to extend counts to within less than half a magnitude of the plate limit (20.0) it was decided to set as an upper limit on distance clusters whose third brightest members average about magnitude 17.5. The corresponding redshift for such clusters is 60,000 km/sec. The range of depth in space included within these distance limits (corresponding to H = 180 km/sec $\cdot 10^6$ pc) is 3.3x10⁷ to 33x10⁷ pc.

Galactic latitude criterion: In fields at moderately low galactic latitudes the density of stars is high enough so that clusters may not be completely identified. As each plate was inspected, it was noted whether or not it was thought that visible clusters were being completely identified. Those areas of the sky in the neighborhood of the Milky Way, where the star fields are moderately dense, were excluded for the purpose of statistical analysis. Interstellar obscuration, of course, also prevents complete identification of clusters. The magnitudes of partially obscured clusters, and

*It is number 1656 in the catalogue (Table 6).

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consequently their distances, are overestimated. Distant clusters are reduced in brightness so as to either be invisible or to appear beyond the range of distances considered in the study. However, at the latitudes down to which the catalogue is actually extended, the effect of a moderately rich star field in camouflaging visible clusters is more important than is the effect of interstellar obscuration in actually hiding clusters. How galactic absorption actually affects the results of the investigation will be discussed in section M.

The precise galactic latitudes at which the catalogue is considered incomplete vary with longtitude and are based on the judgements made of the star densities at the times when the various plates were inspected. In Table 1 are tabulated the galactic latitudes above which (in the northern galactic hemisphere) or below which (in the southern galactic hemisphere) the identification of clusters is considered complete for the purposes of the statistical investigation of Part II.

Table 1

Galactic Latitudes Above Which (in the Northern Hemisphere) or Below Which (in the Southern Hemisphere) Identification of Visible Clusters is Considered Complete

North Galactic	Hemisphere	South Galactic	Hemisphere
Longitude	Latitude	Longitude	Latitude
0° to 10° 10 60 60 150 150 210 210 360	+140° +35 +25 +30 +140	0° to 80° 80 160 160 200 200 340 340 360	-35° -30 -25 * -35

*Area of the celestial sphere not covered by the Palomar Sky Survey.

In the preparation of the catalogue, all survey fields, including those in the Milky Way, were inspected. All clusters which looked as if they might satisfy the completeness criteria were examined. Many clusters which for one reason or another did not fulfill the various requirements to be included in the statistical study were nevertheless included in the catalogue to enhance its value as a finding list. All such entries, which are not suitable for the statistical sample, are so noted in the catalogue. In particular, the catalogue contains many clusters which do not meet the richness or the galactic latitude requirements.

C. Magnitude Estimates

Magnitudes of galaxies in clusters were estimated by comparing them with calibrated galaxy images on 4x5-inch sheets of cut film. The films are negative reproductions of arbitrary galaxy fields on survey plates. The film copies were made with a very low density sky background, and with the same scale as the originals. The procedure was to superpose the appropriate film on a survey plate, and looking through both the film and plate, match up the image of the unknown galaxy on the plate with one of the calibrated images on the film. A six to ten power magnifying lens was used for optical aid.

The galaxy images on the films were calibrated by the similar technique of superposing the films on survey plates containing images of galaxies of known magnitude. A total of sixty galaxy images on three sheets of film were so calibrated. The images on the films thus served as "step scales" to compare images of galaxies of unknown with

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those of known magnitudes. The tacit assumption in this procedure is that all survey plates are identical to each other (as regards image quality) and to the plates from which the calibration was made. Fortunately, the acceptable survey plates were taken under fairly well standardized conditions, and only in a very few cases does the quality of plates vary sufficiently to affect the magnitudes so determined by more than a few tenths. Quantitative estimates of the consistency of the magnitudes can be made, and are described in section G.

Unfortunately, there were not available photored magnitudes of standard galaxies covering a sufficient luminosity range. Magnitudes of a number of galaxies therefore had to be determined before calibration of the images on the films was possible. For this purpose, fortyseven galaxies of various apparent luminosities were arbitrarily chosen in the field near SA 57.

It was not important for this program whether or not the standard magnitudes had a zero point error. There were two purposes for which magnitude estimates were required. First, an estimate of the magnitude of, say, the tenth brightest member of each cluster was to be used as a distance criterion. The procedure assumes a certain constancy of the bright end of the luminosity function in clusters, as discussed in the introduction. No attempt was actually made to interpret distances directly from magnitudes. Rather, since the catalogue includes most of the clusters for which measured redshifts are available, it was possible to scale the magnitudes of the tenth brightest cluster members to approximate redshifts (see section E). Thus, if the pertinent part of the luminosity function of clusters is constant, and if the magnitude determinations are self consistent, there will exist a one to one relation between the magnitudes of the tenth brightest members of clusters and their redshifts (as well as distance if a specific redshift--distance relation is assumed). This will hold regardless of any zero point error in the magnitude standards, or even of any scale error.

The second purpose for which magnitudes were needed was to determine in each cluster a two magnitude interval beyond the third brightest member for the purpose of making a count of the population of the cluster which is independent of its distance. For this purpose also a zero point error is immaterial, although a scale error would obviously introduce a systematic bias in the counts between near and distant clusters.

The determination of galaxian magnitudes by photographic techniques is difficult and involved. The aperture effect introduced by the contribution of light from the outer unobserved parts of a galaxy (1) is particularly troublesome. However, since the aperture effect appears largely as a shift in the zero point, and since high precision was not required, the following photographic technique was employed to find magnitudes for the standard galaxies:

Four red plates of the field containing SA 57 and the 47 standard galaxies were taken with the 48-inch telescope. The plate-filter combinations, sky transparency, exposure times, and development were all matched to those of the red survey plates. One of the four plates was taken in focus, and the other three were respectively 0.75 mm, 1.75 mm, and 5.0 mm out of focus. The faintest galaxies appear so

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nearly stellar on the Schmidt plates that they could be compared directly with standard stars in SA 57 on the in-focus plate. On the extrafocal Schmidt plates images of brighter and nearer galaxies appear indistinguishable from the stellar images provided the plates are far enough out of focus. Of course the farther out of focus a plate is, the lower its limiting magnitude is. Therefore, on the plates with the largest extrafocal images the brightest galaxies were compared with standard stars in SA 57, and on the plates with intermediate sized extrafocal images the galaxies of intermediate magnitudes were similarly compared with stars. To facilitate comparison of densities of extrafocal images, film strips with varying density spots were used; on the in-focus plate, a flyspanker was used.

The principal source of error in this technique is that the outer extremities of the galaxies will not be included in the extrafocal images. The effect is minimized if the extrafocal images are large compared with the angular extent of the galaxies. Measures for most of the galaxies could be made on two or three of the plates. Especially for the nearer and brighter galaxies, the measured magnitudes were systematically larger for smaller extrafocal image sizes. However, in the case of most of the galaxies, magnitude determinations on at least two of the plates would be in fair agreement. The plan adopted was to average the two results obtained from the in-focus plate and the plate 0.75 mm out of focus for galaxies fainter than 16th magnitude, from the plates 0.75 mm and 1.75 mm out of focus for galaxies between 15th and 16th magnitudes, and from the plates 1.75 mm and 5.0 mm out of focus for galaxies brighter than 15.0 magnitudes. The results are considered least reliable for galaxies brighter than about 114th

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magnitude; the images of these galaxies were so large that it was felt that the magnitudes obtained were too large.

The results are given in Table 2. The second and third columns, headed x and y, are the plate coordinates of the galaxy images, measured respectively horizontally and vertically in centimeters from the northeast corner of the exposed part of the plate. The field has the same center as Sky Survey plate Number 1393 (1855: $\alpha = 13^{h} 0^{m}$, $\delta = +30^{\circ}$). The center of SA 57 on this field is x = 15.3 and y = 16.3. The next four columns list the magnitudes which were used in the final averages as determined from the plates respectively 5.0 mm, 1.75 mm, and 0.75 mm out of focus, and in focus. The last column gives the adopted magnitudes for the standard galaxies.

Table 2

Magnitudes of 47 Standard Galaxies Near Selected Area 57

WeBurnages of the second a condition user served and a									
	Number	_ <u>x</u> _	_ <u>y</u> _	<u>5.0mm</u>	Out of Focus: <u>1.75mm</u>	0.75mm	In Focus	Adopted	
	1 2 3 4 5	25.2 25.8 19.5 20.8 28.4	23.8 23.8 17.6 22.7 26.2	12.0 12.8 12.8 13.0 13.1	12.4 12.7 12.7 12.8 13.2			12.2 12.8 12.8 12.9 13.2	
	6 7 8 9 10	25.0 24.2 23.0 23.6 13.8	22.5 24.7 23.6 24.3 18.7	13.5 13.5 13.7 13.5 13.5	13.2 13.5 13.6 13.7 13.7			13.4 13.5 13.6 13.6 13.6	
	11 12 13 14 15	27.6 25.7 17.2 18.3 24.5	22.2 18.6 20.7 16.8 18.1	13.9 13.6 13.7 13.8 14.0	13.7 13.9 13.9 14.3 14.1			13.8 13.8 13.8 14.0 14.0	

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Table 2 (Continued)

Number	_ <u></u>	<u>y</u>	<u>5.0mm</u> 0 [.]	ut of Focus: <u>1.75mm</u>	0.75mm	In Focus	Adopted
16 17 18 19 20	27.9 27.9 24.6 12.7 26.7	24.2 24.4 23.3 14.4 23.1	14.0 14.4	14.7 14.9 14.9 14.9 14.7 15.1	15.0 15.3 15.4		14.4 14.6 15.0 15.0 15.2
21 22 23 24 25	28.0 12.1 9.5 10.0 14.9	24.8 13.9 12.6 14.6 18.0		15.1 15.2 15.4	15.6 15.5 15.3 15.5 15.5		15.4 15.4 15.4 15.5 15.5
26 27 28 29 30	25.7 12.8 25.7 8.9 22.4	23.8 20.2 17.6 16.0 17.1		15.4 15.4 15.8	15.6 15.7 16.0 16.1 16.7	16.1	15.5 15.6 15.9 16.1 16.4
31 32 33 34 35	27.2 18.4 13.6 7.9 14.8	22.8 15.0 19.2 19.6 25.7			16.7 16.7 16.6 16.9 16.9	16.0 16.9 16.8 16.9	16.4 16.7 16.8 16.8 16.9
36 37 38 39 40	15.2 25.5 14.4 13.6 14.6	23.6 17.6 22.5 15.7 26.8			17.3 17.6 17.5 17.2 17.7	16.9 17.8 18.0 18.3 18.4	17.1 17.7 17.8 17.8 18.0
41 42 43 44 45	17.5 12.0 18.2 18.7 17.6	24.5 16.2 22.9 26.9 25.4			18.0 17.8 17.9 18.0	18.0 18.1 18.4 18.6 18.4	18.0 18.0 18.2 18.3 18.4
46 47	18.0 14.8	23.1 26.4				18.6 18.6	18.6 18.6

The standard error of the adopted magnitudes, computed from those cases where two values were averaged, is 0.21 magnitudes. This describes the internal consistency of the results, but not, of course, the real error of the magnitudes. Photographic magnitudes and colors for three of the measured galaxies, numbers 1, 2, and 7, are given by Pettit (27). While Pettit does not give photographic minus photored colors, these can be estimated by assuming the color equation given in section A, namely,

$$(P - R) = 1.6(P - V).$$
 (1)

The red magnitudes so determined from Pettit's measures of the three galaxies in common average about 1.0 magnitudes brighter than the values given in Table 2. This was an expected result for such bright galaxies because of the comparatively large aperture effect. In section G it will be described how the entire range of magnitudes was roughly checked against magnitude measures by Sandage. The systematic error noted for bright galaxies is much smaller or absent for galaxies fainter than 15th magnitude. Consequently, counts of galaxies in the nearest clusters may have been extended over a range of less than two magnitudes beyond the 3rd brightest member. This source of error, which is discussed in section G, applies to very few clusters and does not affect the results of the investigation of Fart II in a significant way. Other than at the bright end, the sequence of magnitude standards is considered satisfactory.

At the time the calibration of the step scale images on the films was made, it happened that four pairs of survey plates of this same field containing the 47 standard galaxies were available. These were plates which had not met the standards set for the Sky Survey and had thus been rejected for the final survey collection. In none of the four cases, however, was the cause for rejection one which affected the quality of images on the red plates. Therefore, the images of the standard galaxies on each of the four plates were used for the calibration. Furthermore, each of the sixty step scale images on the films was calibrated by interpolation between three pairs of standard galaxies on each of the four survey plates. The final calibration of each step scale image is thus the average of twelve independent estimates, and is considered accurate (except for a zero point error) to within 0.1 magnitudes. Actual estimates of magnitudes made from the calibrated images may, of course, have considerably greater errors; indeed the survey plates are not all homogeneous to within 0.1 magnitudes.

D. The Luminosity Function of Clusters

In two respects the results of the investigation depend upon the bright end of the luminosity function of clusters of galaxies. (i) The magnitude of the tenth brightest member of a cluster is used as a distance criterion for the cluster. (ii) The number of galaxies not more than two magnitudes fainter then the third brightest member of the cluster is used as a richness criterion for the cluster.

The validity of (i) requires that the tenth brightest members of all rich clusters have the same absolute magnitude. The requirement will be fulfilled if there exists an intrinsic upper limit to the luminosities of galaxies, and if all of the clusters considered contain

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galaxies sufficiently luminous to reach this limit. The low dispersion observed by Humason, Mayall, and Sandage in the luminosities of the third, fifth, and tenth brightest members of clusters of measured redshifts is the only observational evidence that such an upper limit to galaxian luminosities does exist. Unfortunately, the redshift list does not include clusters as rich as the richest ones entered in the present catalogue. The validity of (i), therefore, can not be completely verified until more comprehensive data are available on the luminosity function of clusters.

The validity of (ii) depends on the form of the bright end of the cluster luminosity function. If, for example, the numbers of galaxies of various magnitudes in each cluster increase linearly with increasing magnitude, clusters of all richnesses would have the same number of members in the magnitude interval counted. If, on the other hand, there is an upper limit to luminosities of galaxies, as discussed in the last paragraph, differences in populations of different clusters can be expected to be reflected in the counts through the interval of the brightest two magnitudes.

Fortunately, it was possible to check whether the counts of the brightest galaxies in clusters do indeed indicate the total richnesses of the clusters. Five clusters were selected for which counts of members not more than two magnitudes fainter than their third brightest members range from 34 to 140. The bright ends of the apparent luminosity functions for these clusters were determined approximately with the step scale of calibrated galaxy images. The results are shown in figure 2. The ordinates are the integrated luminosity functions, that

- 25 -



- 26 -

is the numbers of galaxies brighter than m, and the abscissas are the magnitudes all adjusted to the same scale by subtracting the magnitude of the third brightest member for each cluster. The interval through which counts were made for the catalogue is that indicated by the vertical line.

It is seen in figure 2 that the curves for richer clusters have steeper slopes both in and beyond the magnitude range to be counted. It can therefore be concluded that counts of galaxies in the twomagnitude interval beyond the third brightest member do actually indicate differences between clusters of different richnesses. However, it must not be assumed that there exists a proportionality between the counts in the adopted magnitude range and the true total population of the cluster. The relation between the bright end of the luminosity function and the total population of a cluster is not known at present.

It must further be remembered that the curves in figure 2 have been arbitrarily shifted to the same magnitude for the third brightest members of the clusters. This in no way assures that the third brightest members of clusters all have the same absolute magnitudes. Figure 2 indicates only that richer clusters will yield larger counts in their brighter magnitude intervals.

Finally, it should be noted from figure 2 that it is not possible that the third brightest and tenth brightest galaxies both have exactly the same absolute magnitudes in different clusters. However, it is seen that when the third brightest members of clusters are matched, their tenth brightest members show a fairly small dispersion of magnitudes. Thus these approximate data on the luminosity functions

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for five clusters do not invalidate the use of the tenth brightest members as approximate distance indicators.

E. Relation Between Magnitudes and Redshifts

The magnitude of the tenth brightest member of a cluster, as described in an earlier section, is used here as a distance criterion. The results of the investigation do not depend in any critical way upon a knowledge of the actual distance to a cluster. It is sufficient that clusters can be ordered in distance with the assumption that an approximate one to one relation exists between the distance of a cluster and the magnitude of its tenth brightest member.

As it happens, however, it is possible to use a redshift-magnitude relation, determined for the clusters for which Humason and Sandage have measured redshifts, to estimate the redshifts of the catalogued clusters from the magnitudes of their tenth brightest members. When the Hubble constant is finally determined, or if one assumes the provisional value of the Hubble constant that was determined by Humason and Sandage (1), the redshifts can be translated into distances.

In the preparation of the catalogue it was necessary that relative distances be approximately known for clusters, so that counts of their memberships could be extended to the same radius in space. For this purpose, a provisional redshift estimate was made for each cluster at the time the inspection of the plate for the cluster catalogue was made, and the counts of that cluster were extended to a distance on the plate $4.6 \times 10^5/cd\lambda/\lambda$ mm from the cluster center (section B). As explained earlier, an accurate knowledge of the redshift for this purpose is not necessary.

Eighteen rich clusters with measured redshifts were available. On the Schmidt plates the tenth brightest members of these clusters were measured with the calibrated step scales. The velocity-magnitude relation for these data was plotted (figure 3) and was used to estimate redshifts for the other clusters. The point at log $cd\lambda/\lambda = 4.365$ and m = 16.6 was apparently a bad magnitude estimate and is rediscussed in section G.

The curvature of the log $cd\lambda/\lambda$ -magnitude relation of figure 3 is not significant but reflects the systematic errors in the magnitude scale determined by the photographic extrafocal technique (section C).

F. Inspection of Plates

The red plate for each Sky Survey field was inspected and searched for clusters of galaxies, using a 3.5X magnifying lens. All rich clusters which were recognized and which appeared as possible candidates for inclusion in the statistical sample were marked in ink on the cover glass of the plate. Next the records were consulted of earlier routine inspections of the same plate or of other plates of the same field made by either the writer or A. G. Wilson. All but one or two per cent of those clusters which finally met the criteria for the statistical sample and which were found on one of the earlier inspections were also found in the final cluster search. If, as very occasionally happened, a cluster noted in the older records was missed in the final inspection, that cluster was also marked on the cover glass of the plate.



After its identification the center of each cluster was estimated by eye and noted with an ink dot on the cover glass. No attempt was made to locate a cluster center quantitatively; the centroid of the collection of galaxies was determined purely by judgement.

As various data were gathered from the plate, they were entered on 3x5-inch filing cards, one card for each cluster. The number of clusters identified and catalogued on each plate ranged from none to over thirty, and averaged around five or six for fields far from the Milky Way. The following information was noted on the card for each cluster:

(i) The plate number of the red Sky Survey plate inspected.

(ii) The rectangular plate coordinates of the cluster center, measured in inches from the northeast corner of the plate.

(iii) The 1855 epoch right ascension and declination, entered to a tenth of a minute of time (for right ascension) and one minute of arc (for declination). The position was determined by locating the cluster center on the appropriate BD chart with a pencil mark and then measuring the position of the mark on the chart with a ruler. (For the clusters south of $\delta = -23^{\circ}$, the CD charts were used and the epochs of the positions were 1875 rather than 1855.) The writer's previous experience with this method of determining positions indicates that positions so obtained are usually accurate to within a minute of arc. A larger source of error arises in locating the center of the cluster. A check is available on the positions obtained in this way, and is discussed in section G.

(iv) The photored magnitude of the tenth brightest member,

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estimated with the step scale technique described in section C.

(v) The number of members in the cluster which are not more than two magnitudes fainter than the third brightest member. Using the step scale, a galaxy was identified which was, as nearly as could be estimated, exactly two magnitudes fainter than the third brightest galaxy in the cluster. From the magnitude of the tenth brightest member the redshift of the cluster was estimated (section E) and then the galaxies in the cluster were counted which were as bright as or brighter than the one identified as two magnitudes beyond the third brightest, and which were within $4.6 \times 10^5 / \text{cd} \lambda / \lambda$ mm from the cluster center on the plate. A sheet of transparent celluloid upon which concentric circles of various sizes were scratched was superposed over the cluster center to facilitate extending the counts over the proper area of the plate. In each case, galaxies in a region of the plate apparently "free" of clusters were counted in a comparable area down to the same limiting magnitude. The "field" count was then subtracted from the direct count over the cluster to obtain the corrected "true" population of the cluster. The corrections for the "field" galaxies ranged up to about thirty per cent of the total uncorrected counts, the larger corrections occurring for the more distant clusters in which the counts are extended to fainter magnitudes.

(vi) A judgement as to whether or not interstellar absorption is apparent on the plate, and whether the star density in that field is so dense that complete identification of visible clusters is in question. These judgements were later used to determine the limits of galactic latitude at which the sample is considered complete, as set down in section B.
(vii) The date of the inspection.

G. Accuracy

In the course of the inspection, nearly 3,000 clusters were catalogued. However, since adjacent plates overlap by 0.6 degrees on all edges, a number of clusters occurring in the overlap regions of the plates were catalogued separtely during the inspection on two different plates. These duplications are of great value in determining the internal consistency of the measuring and counting techniques.

The filing cards containing the cluster data were first sorted in order of right ascension so that the duplications could be located and removed. 120 pairs of duplicate cards for clusters were found, including one case where a cluster occurring near the corner of a field was measured on three different plates. The number of duplicates is smaller than might be expected from the relative areas of the overlapping and nonoverlapping parts of the plates because many clusters whose centers lie in the plate overlaps were not measured on two plates. The reason is that while the <u>center</u> of a cluster might be on two different plates, a large fraction of its members might lie outside of the overlapping region.

For each pair of overlap duplicates the corresponding determinations of positions, magnitudes, and counts were averaged and the results entered on new cards, one for each cluster. The values obtained in the two inspections of each cluster were then used to estimate the accuracy of the positions, magnitudes, and counts of the general catalogue clusters. The accuracy estimates made are conservative ones, for the largest measuring and counting uncertainties occur for clusters near the edges of plates.

Accuracy of positions: As stated in the last section, the writer has found from experience that the position of an object can be located on the BD charts to an accuracy of about a minute of arc. In the case of a cluster of galaxies, however, a considerable uncertainty arises in locating the center of a cluster, and positions of a cluster determined on two different plates can be expected to differ from each other appreciably owing to varying judgements of the location of the centroid of the cluster on the two plates. The effect is particularly important near the edge of a plate where part of a cluster may be out of the field. For the 120 "overlap" clusters the standard deviation of the individual positions from the mean positions was computed to be 1.9 minutes of arc. Thus a position determined from the BD charts with the technique described will, in general, be within a few minutes of arc of the center of the cluster, and always somewhere within the main concentration of the cluster. The greatest deviations occur for the comparatively nearby clusters which occupy a larger area in the sky, but for these clusters the positions are less critical.

Accuracy of magnitudes: The internal consistency of magnitude estimates can also be checked from the overlap duplicates. Again, a conservative check on the estimates is obtained. Not only were the plates of the two adjacent fields often taken years apart under varying observing conditions and with different emulsion shipments, but the quality of photographic images is generally poorest near the edge of a

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plate. For the 120 pairs of magnitude estimates in overlap clusters the standard deviation of an individual estimate from the mean was computed to be 0.19 magnitudes.

Accuracy of counts: Counts of clusters in the overlap regions are subject to the same uncertainties as are the magnitude estimates, in addition to the handicap that some of the members of an overlap cluster may lie off the field of the plate. For the 120 pairs of counts of overlap clusters, the standard deviation of an individual count from the mean is 16.9 per cent.

Before the plate inspection began, those clusters for which measured redshifts were available were separately inspected (section E). Later, during the routine inspection, these clusters were treated on the same basis as all of the new clusters. Thus positions, magnitudes, and counts were obtained for the Humason-Sandage clusters along with all other catalogue clusters. The magnitude estimates obtained the second time could then be compared with those made before the main cataloguing began. Thus another check is available on the magnitude estimates, as well as on the redshift-magnitude relation described in section E.

Sandage (1) has also measured the magnitudes of the tenth brightest members of the redshift clusters. Sandage gives photographic and photovisual magnitudes which are not directly comparable to photored magnitudes. However, approximate photored magnitudes can be obtained from Sandage's values with the color equation given in section C (equation 1). The use of a linear color equation may not be accurate for galaxies, especially ones of large redshift, owing to

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the unknown ultraviolet emission. Nevertheless, photored magnitudes so obtained are sufficiently good for a rough check between magnitudes estimated here with a step scale technique, and measured by Sandage on plates taken with a jiggle-camera at the 200-inch telescope.

Table 3 gives for each of the Humason-Sandage clusters the original magnitude estimate (Abell Est. 1), the final magnitude estimate (Abell Est. 2), and the approximate photored magnitudes obtained from Sandage's measures with equation 1. The catalogue number, the Humason-Sandage designation, log $(cd\lambda/\lambda)$, and the richness designation (see next section) are also given. Figure 4 is a plot of log $(cd\lambda/\lambda)$ vs magnitude from the final (Abell Est. 2) data. The corresponding curve in figure 3 is shown as a dashed line in figure 4. Magnitudes derived from the measures of Sandage are shown as open circles.

Comparison of the second and third to last columns of Table 3 indicates that the magnitude estimates are fairly consistent with each other except for the two clusters, catalogue numbers 1020 and 568. In each case, one of the estimates was apparently a poor one, and the other one satisfactory, judging from the scatter of the respective points in figures 3 and 4.

Comparison of the last three columns of Table 3 indicates that whereas the magnitude estimates made with the step scale scatter about those derived from measures by Sandage (or perhaps are systematically slightly fainter) there is no gross inconsistency, and for magnitudes fainter than about 15.0, no significant systematic difference. Perfect agreement is not to be expected for the reasons given above. The approximate agreement with the Sandage magnitudes,

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Table 3

Catalogue Number	Sandage-Humason Designation	$\log c \frac{d\lambda}{\lambda}$	Richness	Abell Est.l	Abell Est.2	Sandage
1656 151 1020 2065 568	1257+2812 0106-1536 1024+1039 1520+2754 0705+3506	3.826 4.196 4.290 4.333 4.365	2 1 2 0	13.6 15.0 15.0 15.7 16.6	13.5 15.0 16.0 15.6 15.4	13.0 15.6
465 2048 1930 1132 1413	0348+0613 1513+0433 1431+3146 1055+5702 2253+2341	4.410 4.450 4.594 4.608 4.632	1 1 1 3	17.5 15.7 16.8 16.6 16.9	17.7 16.0 17.0 17.0 17.1	17.1 17.1
2100 31 234 1689 1677	1534+3749 0025+2223 0138+1840 1309-0105 1304+3110	4.662 4.680 4.714 4.720 4.740	3 2 1 4 2	16.9 17.5 17.8 17.2 17.8	17.0 17.7 17.9 17.6 17.7	17.0 17.5
801 1643 732	0925+2044 1253+4422 0855+0321	4.761 4.764 4.785	2 1 1	17.8 17.5 17.8	17.7 17.7 17.7	17.3 17.6

Magnitudes of Tenth Brightest Cluster Members

and the fairly good internal consistency of the step scale estimates furnish confidence that magnitudes obtained for the catalogue are satisfactory for the purpose for which they are used.

Investigation of the scatter about the smooth curve in figure 3 indicates the standard error in redshift obtained from the redshiftmagnitude relation to be 26 per cent. The standard error would be much lower except for one point (catalogue cluster number 465). Magnitude estimates for this cluster are consistently too high for the observed redshift. However, Humason (1) has measured only one galaxy in the cluster, and he states that its cluster membership is in doubt. The smooth curves in figures 3 and 4 were therefore drawn without regard to that one point.

The effect of a scale error among the bright magnitudes (13.0 to 15.0) must finally be considered. As was discussed in section C, magnitudes determined by Pettit indicate a zero point error at magnitude 13.0 of about one magnitude. Although it is not definitely established that the zero point error is less for fainter magnitudes, it seems very likely that it could be so in view of the general agreement with the Sandage magnitudes. If a zero point error decreasing with increasing magnitude is present, it is equivalent to a scale error and will result in the counts of nearby clusters being extended over too small a magnitude range. There is a possibility, therefore, that some nearby clusters sufficiently rich to meet the requirements for inclusion in a statistical sample may be omitted. However, the number of clusters whose tenth brightest members are brighter than 15.0 is very small compared with the more distant ones; increasing their number by a factor of two would not in any substantial way affect the results of Part II of this study.

H. Reduction of Data

To facilitate the reduction and processing of the material, the data for each cluster were entered from the 3x5-inch filing card to an IBM punch card. The calculations and miscellaneous processing involved in the reduction work were carried out by the writer with the IBM Model 604 Digital Calculating Funch and IBM card sorting and duplicating equipment of the Department of Engineering of the California

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Institute of Technology, with the exception of the computation of galactic coordinates, which was done with the Datatron Digital Computer Model 204 of the ElectroData Corporation of Pasadena.

Epoch of positions: The positions for the clusters were for the epoch 1855, except for the clusters south of $\delta = -23^{\circ}$ which were for the epoch 1875, the epoch of the Cordoba Durchmusterung. To reduce all of the positions to a uniform epoch, positions for the southern clusters were precessed from 1875 back to 1855.

Extinction: The magnitudes of the tenth brightest members of all clusters were corrected for the effect of atmospheric extinction. It is important that extinction be taken into account because the south galactic pole lies near the southern limit of the Sky Survey, while the north galactic pole passes nearly through the Palomar zenith. The adopted procedure was to reduce all magnitudes to their value at the Palomar zenith, at the bottom of the atmosphere. The extinction, in magnitudes, is given by

$$\Delta m = -2.5 \log T(\lambda, z) = k \sec z, \qquad (2)$$

where $T(\lambda,z)$ is the transmission of the atmosphere at wavelength λ and zenith distance z, and k is a constant. For z = 0,

$$-2.5\log T(\lambda_0) = k.$$
(3)

The atmospheric transmission at the Palomar zenith was assumed to be the same as that at the Mount Wilson zenith, for which (28)

$$T(\lambda = 6500A_{,0}) = 0.925.$$
 (4)

It follows that

$$k = 2.5(0.034) = 0.085, \tag{5}$$

and

$$\Delta m = 0.085 \text{secz}.$$
 (6)

Because practically all red survey plates, especially those taken far to the south, were centered within an hour of the meridian, it was assumed that the hour angle for all exposures was $\pm 30^{\text{minutes}}$. This simplification introduces little error, for the magnitudes were to be corrected only to the nearest tenth and the corrections were at most -0.1 magnitude for clusters north of $+84^{\circ}$ or south of -18° declination.

Galactic coordinates: Galactic coordinates were computed for each cluster referred to the galactic pole (1900) $\alpha = 12^{h} \ 44.0$, $\delta = +27^{\circ} \ 30'$ or (1855) $\alpha = 12^{h} \ 41.8$, $\delta = +27^{\circ} \ 45'$. The transformation equations, analogous to those used by Ohlsson (29) for a slightly different pole, are

$$\tan l = \cos i \tan \alpha' + \sin i \sec \alpha'$$
(7)
 $\sin b = -\sin i \cos \delta \sin \alpha' + \cos i \sin \delta$,

where i is the inclination of the galactic equator to the celestial
equator (62° 15') and a' is the right ascension reduced by the right
ascension of the ascending node of the galactic plane on the equator.
Galactic obscuration: Corrections to magnitudes for the effect
of general galactic obscuration were made, following Hubble (3), on

the assumption of a plane parallel distribution of the absorbing material. In particular, it was assumed that the absorption, in magnitudes, is a linear function of the cosecant of the galactic latitude, that is,

$$\Delta m(b) = constant(cscb-1).$$
(8)

Hubble, from an analysis of galaxy counts had derived the photographic absorption, $\Delta P(b)$, to be

$$\Delta P(b) = 0.25(cscb-1).$$
 (9)

From the selective absorption data of Whitford (30), it is found that

$$\frac{\Delta P(b)}{(P-R)_{ex}} = 2.20,$$
 (10)

(11)

where $(P-R)_{ex}$ is the photographic minus photored color excess, and where λ 4050 and λ 6440 are assumed for the blue and red effective wavelengths, respectively. Thus, where $\Delta R(b)$ is the photored absorption,

and

 $\Delta P(b) = 2.20(P-R)_{ex}$ $\Delta R(b) = 1.20(P-R)_{ex}$.

From equations 9 and 11,

$$(P-R)_{ex} = 0.1135(cscb-1),$$
 (12)

and

$$\Delta R(b) = 0.136(cscb-1).$$
 (13)

All magnitudes were corrected by subtracting $\Delta R(b)$ as calculated from equation 13.

Precession constants: Ten year precession rates were computed for all of the cluster positions from the standard formulae (31) for the epoch 1900.

Richness classification: As discussed in section G, the counts of the membership of the clusters, intended as richness criteria, are approximate only. It was desirable, therefore, to group the clusters into categories according to their richness in such a manner that a negligible number of clusters would be misclassified by more than one group interval. The standard error of an individual count was estimated (section G) at about 17 per cent. It was decided to extend a group interval about three and a half times this standard error, or about 60 per cent, beyond the lower limit of the group. Then, if the counting errors are normally distributed, even a value at the upper or lower limit of a group interval would have only one chance in five thousand of being in error far enough to belong in a group more than one interval removed.

The richness groups are defined in Table 4. "Counts" refer to the number of galaxies counted in a cluster that are not more than two magnitudes fainter than the third brightest member. The group intervals are not exactly 60 per cent of their lower limits, but are rounded off, for convenience in classifying, to even numbers.

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Table h

Richness Group Intervals

Counts
30-49
50-79
80-129
130-199
200-299
300 or over

Distance classification: As in the richness classification, the clusters were grouped into distance classifications according to the magnitudes of their tenth brightest members. The standard statistical error in magnitude estimates was estimated (section G) at 0.19 magnitudes. Analogously to the case for richness classification, the magnitude interval in a distance group was chosen to be approximately 3.5 times the standard error in magnitude estimate, or about 0.7 magnitudes. Table 5 defines the magnitude intervals corresponding to various distance groups. Magnitudes refer to tenth brightest cluster members.

Table 5

Distance Group Intervals

Distance Group	Magnitude Range
l	13.3-14.0
2	14.1-14.8
3	14.9-15.6
4	15.7-16.4
5	16.5-17.2
6	17.3-18.0
7	18.0 or over

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I. Explanation of Catalogue

Table 6 contains the completed catalogue of 2712 rich clusters of galaxies. The clusters are listed in order of right ascension. Table 6 was printed directly from the IBM cards with an IBM Model 407 Accounting Machine. Plus signs are not available on IBM tabulators; thus in Table 6 a positive quantity is indicated by the absence of a minus sign.

The first column contains the catalogue number for each cluster, running consecutively from 1 to 2712. An asterisk (*) following the number indicates that the cluster does not meet the requirements stated in section B for inclusion in the statistical sample investigated in Part II. These nonsample clusters are included in Table 6 to enhance the value of the catalogue as a finding list.

The second and third columns give the right ascension and declination. The equatorial coordinates are given for the epoch 1855, the epoch of the Bonner Durchmusterung. It was decided to list 1855 positions because then clusters can be immediately located on the BD charts from which, in turn, they can be easily identified on the National Geographic Society--Palomar Observatory Sky Survey prints, or on other photographic sky atlases. It should be pointed out, however, that clusters south of $\delta = -23^{\circ}$ must be located on the Cordoba Durchmusterung charts, which are in the epoch 1875. It was not feasible to tabulate positions in two epochs; therefore, before the southern clusters can be located on the CD charts, they must be precessed from 1855 to 1875.

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Columns four and five contain ten year precession rates computed for the epoch 1900. The precessions in right ascension and declination are respectively given in minutes of time and minutes of arc, and to sufficient accuracy so that one hundred year precessions can be rounded off accurately to a tenth of a minute of time and one minute of arc.

Columns six and seven give the galactic coordinates computed for the galactic pole (1900) $\alpha = 12^{h} 44.0^{m}$, and $\delta = +27^{\circ} 30^{\circ}$.

The eighth column gives the magnitude of the tenth brightest cluster member, estimated by the step scale technique described in section C and corrected for the effects of atmospheric extinction, and general galactic obscuration, as described in section H. Some numbers in the last place occur more frequently than others owing to step scale "rounding off" errors.

The last two columns list respectively for each cluster the distance and richness classifications, both of which are defined in section H.

Table 6

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32	00.19*	6 -09	5	0.509	3 + 33	7205	-71.4	18.0	6	1		
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34	00.19.	9 ~09	37	0,509	3.33	7301	-71.1	18.0	6	2		
35	00.204	\$ - m 22	29	0.504	3:33	45.8	-82+8	17.1	E,	7		
35	00 20.	E Los E	36	0.507	3.33	69=4	- 75×0	17.4	in the second se	3		
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A Catalogue of Rich Clusters of Galaxies

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	41	00	2243	37	0.3		0.515	3.33	81.1	-54.9	17.6	£	. 3
	43	0.0	81*3	se 24	5		0.503	3633	34.45	~84.83	1701	5	3
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	47	00	23\$3	me S da	Sß		04902	3032	32+8	-85.0	2745	- 65	2
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103	00	47.48	w. Or	39	0.507	3628	90.00	一個語言的	17+2	. kg	10
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121	00	50.82	•• () *)	四层	0.508	3.26	9661	-69.9	1520	- Sğ.	
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131	00	38+0		34	0.497	3623	10468	- 77 .4	17.2	\$	27
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6.6.6	15	这些意义	and the state	1. W		08492	3012	1.3倍4号	-13+3	"学人参信"	1. Ale	N.X.	
2104	Q1	录影 #4	and the first	dq.80-		0#473	3013	176*5		1243	Ġ	Ċ.	
211	03	25.5	en lijs die	动袋		0.805	8=11	22603	~64.8	1702	1	2	
212*	61	2688	03	$\mathbb{Z}_{p} \lesssim$		0.517	5+10	110.8	-96.7	1702	2	0	
23.3	01	2785	29	53		04842	3*20	20443	~41.41	17.7	×.	3	
214	01	27.6	-2E	53		0.470	3610	17746	-79.8	17.8	6	1	
215	01	2865	and The	32		03674	3*09	V. Cake in Co	-T8.0	37.8	ile.	4	
216	01	29.4		1.0		0.501	3.09	120.9	+66+5	17.2	- 6	9	
217	01	2904	0008	48		0.4499	3609	122.49	~68+0	37.0	S's	1	
23.8	01	2944	se 3 3	30		0.495	3.09	126.88	- 20.1	17.8	- Es	3'	
219 .	01	29.87	08	23		0.525	8648	109.5		17.9	- Kg	19	
220	01	2867	07	8.2		0.523	3.00	110.1	~ 53.2	1748	6	58	
						to the first first star		We so the de 211		an e marte	89	-524	
221	01	30:03	27	200		0*539	3009	10440	-4343	2707	4	5.47	
222	01	30,3	-13	45. Eq.		() # 4學3	3:09	13103	-7240	3766		2	
223	01	30.08	sia 🐒 🕅	32		04491	3608	131.2	-71.88	17.6	6	· 3	
224	01	31.80	6× () 7	\$62		0.500	3 . 00	32204	~6648	17.0	5	2	
225	01	3202	36	09		0.54.0	3008	206+0	~42+6	15.9	43	2	
225	01	3248		00		0:495	3.08	127.5	-69.6	17.6	ł.	1	
227	01	32.60	17	27		0.339	3408	106+5	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1767	is	*	
228*	01	3240	way ()	4.3		06496	3408	22702	-69.4	1706	25	Ö	
229	01	3243	one 🗍 Is.	23		0.303	3#07	129a4	-69.47	3605	5	4	
230	01	8268	- 2 Z	07		0.493	3.07	129+6	-7044	2706	6		
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238	91	2440	100 C 2	41		V\$973	3000	18403		1783	. 6		
239	12.3.	2002	~ J. &	34		08492	3406	王国王的称	~ 70 . 5	2706	13	2.	
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290*	02	94 g L	20	20	0.551	2 * 94	111.09	~\$868	16#5	5	Q
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312	02	1202	04	11	0.520	2 . 38	12404	~52.57	17.5	6	•
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	329	02	0764	-05 19	0.501	2084	136+0	-39.46	1702	ġ	4
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	334	02	0940	*04 53	0.0502	2+83	13602	~59#1	1705		Saus -
	335	92	0701	≈12 5G	0.0483	2082.	24802	(64) y 7	1766	. 6	100
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	2292	0.2	3 101 - 3		10.201	3 78	24.8.9		3. 2	•,	25
	·公司承代 1993年3月	84 aq 19 19	- 赤な夢ム - できょう		「「日本のない」	6.912. 1.197	109.0	「空谷事母」	13.0	10	19 1
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	2.强点、	02	23.83	03 47	0.515	2.73	134.0	2224	1944	ner Eis	10
	3594	02	21.2	-22 35	0.483	2.75	151.8	-62.3	18.0	152	01 (1)
	356		21.05	03 50.	0.521	2.872	233.02	-50.3	1708	6	2
	357*	02	23.06	12 36	0.541	2.473	12402	-63.00	26.0	5	1
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3614	02	2440	02	王扬	0.537	2070	23345	~51.eZ	2700	6	0
362	20	24.64	and (2 f)	31	0.499	2.470	上帝是要是	-5740	1747	10	
363	12.5	2009	0.8	4.3	0.8333	2489	1.2840	. 你的想象了	1301		ł.
384	10 de	11.11.11.11	0.8	03	0,331	6487	22964	~40.40	1.441	3	Re-
382*	02	2343	** () A	124	98397	2463	13944	~~936E	医子宫的	8	0
366	26	2843	0 () ee	03	04498	2465	1.33.45.44.45		1 Tarda	10	Je.
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369	U.S.	21.8%	4-Q2 10-10	3.12	U6302	6000	14341	*******	法名誉符 6 m - 11	10	la da
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371	内力	24.5		41	0.683	3.41	2. St. Beck	5. 6. O . C	22.15	the states	24
2723	03	20.84	to B	24	- B - A 2 A	5 9 665 D 4 6 7	223.7		4.499	ěs.	145. 19 ³ 9
3722	133	ALL A	54	32	- 白、瓜香鱼		99949 9994	and	1994 1994	die.	
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2746	17	30.80	2.7	13	「「「「「「「「「」」」である。	ションク	120.00	~28 a.k.	17.7	dia .	34
372	0.2	39.7	- (3 R	23	0.403	7.53	33442	and the Char La	23.66	ile.	6 6
290	0.7	3860	0.2	民族	0.919	2.489	13741	magada	17.6	S.	4 24
380	02	38.0	4025	$\delta^{c}_{\frac{N}{2}} \xi^{c}_{\frac{N}{2}} \xi^{c}_{\frac{N}{2}}$	0.0440	2.58	18449	-66.2	1649	1	1
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381	02	3006	··• () 3	16	0,6509	2037	141.44	-51.05	17.6	tio-	3-3 6-
382	02	3945	G3	49 8	00521	2036	136.7		3702	\$2 all .	1
383	02	病众要祭	an G Ag	07	0.502	2053	20.0005	~9341	2700	Š.	es.
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医检察性	02	4131		26	0.453	2023	17546	~82.45	1749	. Ó	- 0
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018*	00	24.69	19.2	30	1.021	-2.60	204.4	37.0	26.5	G.	G
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1001 20 1800 -05 93 . 0,502 -3.00. 218.1 4203 17:7 2.8.6 6 1002 10 16.0 50 36 04631 00 g C ** 230.2 5043 Sand. 1746 新四 10030 10 1601 48 32 35.1 6#822 ~3*00 133345 2645 0 51 40 0.636 1004 10 1604 王武将西部 \$3+8 17+2 1 Short? 1065 68 98 ~3,001 107*1 10 16+6 Q. 764. -4367 1745 6 Sur 1006 10 17.0 67 47 . 0.749 103401 10803 44.05 2707 6 Print . 1007 20 1701 33 40 日本当学会 -3+01 - 160+1 58+5 17+5 Stad Es. 04504 10004 20 1784 404.38 42.8 -3-01 22742 2707 19 100 1009 10 17.00 105 04 . 0.504 42.42 1747 See. m3601 70755 振 2010 10 17.7 39 48 04592 ~2001 "盖路南西历" . 56.00 17.2 100 NAM 1011* 10 17#7 13 00 00534 -3601 1.9649 5363 1708 静 10124 10 1769 0.572 3.2 01 *3401 26303 5807 1768 小 10 1866 · 05 30 -如望有了 2707 1013 04503 -3052 228844 11-16 -66 11 1014 10 1047 0%728 8000 209+8 每個家門 Tor. Harry . 1019 10 1986 33 17 0.4379 43.02 157.0 5649 37x5 22 195 10104 10 1904 11 43 0.832 -3+02 198.5 53.0 23.44 13 35 65 52 04723 1709 1017# 10 1948 -3003 120.0 物态:40 150 18 18 1016 20 2002 ○·★ 资格法 1. 高粱市内 ~3+03 ·汤高水2 1700 . 0 1019 10 2002 0,870 ~3&0% 2部分女2 59+1 2703 and and 11 09 1020 10 2002 0+531 多之*穷. *3403 19965 2000 4 19-1 38 24 58.7 1021 10 2063 0.586 ~3+03 250+9 1606 e sou 1022+ 10 2047 04929 S. 48. 2762 10 25 -2403 20040 13 13 10234 10 2047 0.502 21944 1.7.1 24 -06 02 ~ 3 × 10 3 42.00 1 04 30 0.529 #3#03 10 20.8 20843 100 1.024 4962 1760 Source 1025 10 2106 63.36 0.699 -900A 11243 4707 了如今的 100 1026 10 23.06 40 50 0,592 34603 95.05 17.22 100 如温泉白谷 (married · 54 09 1. 众事授者的 53.3 1027 10 2168 四百日前后 122402 1742 The sh 小王 . 43 53 1020 10 22.1 06595 5803 2700 33 24488 1701 1029 10 22.82 78 05 0.0000 98.5 8743 the second -2005 Ser. 10304 10 22.4 31. 48 0.569 270月 0 +3000 10 10910 10 2246 39 29 0.5888 0. -3404 1.4867 59.0 1742 100 0.4 46 1032~ 10 3244 1507. 64,520 -3003 202+4. 的命命意 to. 1033 10 2342 35 50 0.578 -3405 1.3568 1748 they . 营习力意. 2034 10 23.44 2.9 2.8 On Barty -3305 20763 1974年 1705 恋 2033 10 2346 40 58 01591 14548 19.04 恶意 4 8 13 1036* 10 23.9 32 37 .04870 -3.03 15201 5969 17.83 0 Es. 0.752 1037* 10 25.1 69 32 1707 ··· 3 = 06 105+5 43+8 6 Ó 1038 10 2545 03 00 0.517. -3+00 21102 49.02 1700 ÷. Brech 1039* 10 25.3 -04 03 44.3 0.506 ~3006 218+7 37.45 1 1040* 10 25.7 46 24 0.605 -3006 57.5 12.3 13641 1742 53

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	1065	3.0	2000		27	0.8866	-3.07	16645	60.5	17.2	43		
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表示于你 (个个你的题:	混 点 字 注	「なな事業」	5 F. 5 A	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	98934 	14 3 8 C 3 	10307	10 (& P 2 10 (E	3.730 4.2.0		1. 1.
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at a se se	36 BF		19 A	- Fact	A. C. Martin	- W W -	a w 1 w 4	17 46 AN 181	6.1.89.57	* ¹	
1181*	2.2	0263		00	0.493	3 + 84	23909	3704	1706	ŝ	1.
1182	2.2	63:04	教皇	34	00547	-3.424	16102	6600	17:5	4	alati Ne
1183	Bala Bala	03*6	15		0+525	#3#3#	20740	82 #4	1742	144	3
11844	8.3	02+6	51	05	0.4530	~3\$24	121.09	6001	1748	ŝ.	Q
1.183	1	0340	29	38.	0*543	1+3+24	16946	48.83	1683	2	2
1180	14	0386	7.6	·龙虎。 - 水石	V#733		9789	40.01	3642	3	Z
- 1 @ &	18. A.	1000 1000	4 Q	the English	000000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1914	- 1980年前 - 人内 - 1	北部市物	38 ()	tin i
2.3.92 位 1.5.5 位成点	品质	- U.2巻ゆ - 作作しる	8. C. 12 \$	- 2. V . K. 15	199734 19.334	- 1928 G.H - 20 - 325 -	- たいの様の 	59-1-8-3 	4190 419.0	0 8	1.
3.597 H	8.2 2.7	03	1999 (A. 1977) (A. 1977)	20	NA919 0.540	- ******** 	6.4.202. 1.9.2.6	2203	· 北京市(1) - 王武王成	27 55	() 1
the start of	95 B.	799 vis 199 €	74 Q.	19 S. S. S.	~~# # # W V	4 V 4 4 7	9 N C 6 8	194 AP 19 1	A. 197 静 (6)	47	Ees-
2191	and Said	03+7	01	33	0,834	** 🕄 🏟 🖉 🍕	22369	5408	17.5	Ś	
这是警察外	100	0349	` \$Q	03	04695	-3424	110+4	53.7	17.6	é,	Ó
1193	1	0442	商勇	7 44	0.963	*********	复杂货币格	65.00	2202	5	
主义学校		0443	1.1	30	0,543	-3424	16400	68.69	1708	8	×.
3.890	10 Sec.	104条件		09	46908	-3e24	22248	900 e 4	1706	6	- 1
1140	1.1	0940	34	40	0.8587		310+5	5748	1748	Ó	1
1106	1.1	- 1996年1 - 0人 - 0	- 31	10.	Uep35 Aleaz	~3024 _30.00	140.00	6462	5472		0
1100	14 A. 17 A.	07820	24	211	N # 3999	-2022	102-0	1210 A 1 A.L. 10	1743	0	h
1266	14 14 14 14 14 14 14 14 14 14 14 14 14 1	05.0		22	0.410	- 28 K.F.	27284 22824	99997. 61.0	17.0	2	i.
A 100 40 100	19 10	াপ এন পরা গরা	and Sec	no er	*****	HE BE AN IN	an the fill Warran	an de Brit.	9 1 9 4	el	10

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		1.1									
1201	4-14	0844	复物	3.3	0 . 525	-3#25	206+2	63.0	17.0	\$2	14
1202	200	- 0多点多	. 48	18.	0.571.	*3625	12847	82.03	27.0	2j. /	1 4
1203	33	05.09	<i>6</i> ; }.	05	0+967	#3425	12946	6663	1666	5	See
1204	22	05.9	18.	23	0.020	-3025	197.9	6601	1708	\$ ·	N. Ala
1205	22	0949	. 03.	28	0.315	-3025	22207	36.5	1809	E.	1
1206	11	06.02	an () (y	50	0.508	+2+25	231.00	50.11	17+6	6	1
1207		06+6	高器	2.0	0+642	-2025 :	102+5	4649.	1703		di de
1208	14	0.606	05	09	0:517	-3#28	22005	58.00	170.6	E.	1995. 2015
1209.	19	0609	13	2,2	0.825	-3+25	20747	63.8	17.02	E.	4
1810	4	6703	27	23.	0.528	-3:03	200+2	66.0	1743	62	J.
a				N					a	1	
1448	法法	0.74%	***	2.67	04204		93000	44.68	1100	10	- America
12134	1.4	0807	38	100	Q#294	*3#26	23100	3340	1142	100	1
1813	11	98e7	30	公母	0.834%		10103	\$\$ * D	"是我要算…	Č,	4
3534	13	0946		が見	0.568	~~3¢36	83243	50.00	12703	6	Ţ
1215	10	3025	(34	3.7	0.0.036		22208	5801	1647		1.00
1216	the second	10+4	6000	杨复	0.6509	-3456	231.04	51+6	1600	63	2.
123.2.3	trug.	7644	nn Z die	R. A.	0****0	~3#26	34500	3344	17+4	8	ālea
15184	3.8	1000	28	31	0*874	-2030	118.1	6040	16.0	Sig	Q
1278		10.08	17	30	04527	-3024	20145	4607	27.05	-	-
1550	12	1148	36	38	0.4349	-3426	14541	68.3	17+3-	-	de
1221		11.0	A 2	20	13. A.C.K.		8 13 14 4 18	6116	27.6	-	7
1222	83	- 309 a.	1.7	5.12.	6.543	10 10 10 1	176.45	to a laste	16ak	1917	
10004	4.4	12.7	En fra	· Sala	0.540	a 8 - 73	822.7	Section 7	17.3	中一時	49. 7 10
1092	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	22.49	13.17	3 8	Na RAG		147.44	8.023	N THE	ar. A.	
3000M	24	4497	10 A	2.6	0.426		134.30	·马克·克·克·	35.26	12	in the second
20223	10.00	13.5	er or Tida	23	0.4563	11 X 1 7 Y	194.38	40.0 . C .	. 17.7	14	an a
1397	10,198 2, 2	3495. 33.4	Ac. 22	80	Q & KAR		199.0	10-10	Store Sta	er Ek	. 19 23
1000	·水水. 了了	2.2 m	2.50	A.M.	0.50.2 0.50.2		122.0	AG.O	1246	4	1
5 2 C C	4.9	4887 4646	te be	12 94 12 94	0.440		332.45	ab 2	17.8	E.	1
(金融)など 注意音力	26 A. 7 B	3.464.0		18 8 19 19 1	0.881		1940.9	AC.T.	17.7	N.	in an
A. (5. 17 4)	a in	- 学业者和	84 - A	W 50	Ul De al de Sa	1. 1. 1 . 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	31.399 N. 198.394	North Mark	en a de su		
12315	11	1402	. 50	33	0.566	-3027	12001	61.0	17.0	25	0
1232	2.2	34.85	1.6	62	0.6927	-3628	19946	6861	17.04	6	9
12334	11	1400	+++ 2.8	09	0.498	-3028	24268	39.5	1705	6	1
1234	13	2448	22	1 15	0.530	43×28	190.0	6906	17.3	· 6.	2
1289	11	1563	20	26	0.528	-3028	195.6	6960	17.0	R	2
1.236.4	21	15.8	01	1.6	0.513	-3028	228-3	36 .4	1702	Th.	0
2237	17	15.5	43	39	0.553	-3428	131.8	65.5	17.3	és :	2
1238	1	15.5	01	\$4	0.513	-3028 ·	22767	36.9	16+0	<i>k</i> ,	1
1230+	11	15+6	60	S. May	0.589	-3028	107.06	53.8	1745	6	0
1240	11	1906	. 43	55	0.353	~3.28 ·	131.02	66.03	17.2	5	2

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8344	1 1 1 1 1 1 1	32.2	3.63	A.8		ASESS	101.94	1.192 4	andrina	- 19 - 19 - 10 - 1		4
1242	10 m	15289 1546	17	财富		0.526		202.5	· 子名傳留 病学业品	1720	10	
1243	4	Adal	19	00		0.527	~3.428	19944	. 60.45	1743	6	3
1.244.0	11	1642	46	23		0.556	-3028	12667	65+0	1700	6	0
12490	5.4	1602	. 23	06		0.540	-3028	19863	70.8	1702	13	0
1246	Spect.	16.2	2.2	34		0.529	-3.028	19101	69.9	27.6	6	2
1247	22	1444	20	49		0.528	-8428	19449	6904	17.2	- 5	1
1.248+	22	3.5 # 4	E (2 444	10 10 10 10 10 10 10 10 10 10 10 10 10 1		0.510	-2873	29342	\$2.7	17.0	5	0
1,249	1	法命业合	命命	30		0\$620 '	~8028	201*1	每763	1742		1
1230	12	1740		27		0.530	~3958	133*9	6704	2708	E.	1
1983	3 4	27.3	- 1.2	1.0		6.4.24	8008	361.42	A. R h	19.6	4	4
1242	19 1 .	2744	中44 病①煎,	4 40 - 63 63		DARDA	19-19-19-19 19-19-19-19-19-19-19-19-19-19-19-19-19-1	20.721	ANR AR	4190 - 1720	140 151	19 19
12584	10.00	17.3	63	1.0		Ga 581	10 2 a 2 B	19241	the had	· · · · · · · · · · · · · · · · · · ·	ar Bir	
1284	11	1729	71	明白		0.636	+Ba28.	09.0	lata seta	15.5	3	2
1355	21	18#1	. 76	1.7		0.678	-3.29	9604	60.46	18.7	3	1
1286	11	16.1	- 401 7 5	31		0.501	-3.20	242.3	42.22	17.7	6	1
1237*	11	2843	136	08		0.541	453.8.29	14944	70.5	15.0	3	0
1298	2.2	1804	·26	34		06532		17909	71.84	2782	No.	. 2
12.59	12	1847	(16)	04		06526	-3429	223.9	60 # 7	1800	6	Z
1500	22	18*9	0.2	85		0.514	~3#29	22769	56.2	1705	ξ,	
8-92.9		7 12 . 12	4.0	ne		6.63.9		1 00 0	1. 18 . 2	4 10 10	The second s	4
11 3 6 9	1.4.4.	1.2.4	2 N 22	学校		0.030	17.2843 4.12.294	したい ゆフィー 	13.28 4 6.4.4.7	成于要求。 2.19公交		· 春 · · · · ·
点之经治 生产病毒	4 2	1.00-6	4 % 20 0 mi	04		OWRON.	10 8 6 7 0 	5 2 2 2 4 5 3 2 2 2 4 5	Hame & F - Zelle a D	5199.7	W.	1
1744	11	2026	19	15.19		·····································	100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20%*0	HAR WY	19.1	100 · ·	*
1265	2.5	20.3	. 4.2	69		0.567	St g Sun	12.82.7	6 B all	2.7 . 8	ê.	4
12686	14	20.43	37	23	1	0.541	-3.20	145.5	70.46	17.2	5	ő
12674	11	20.3	27	48		0.532	~2629	17945	72.0	2886	9	5.1
1268	11	2008	24	40		04629	-3029	185+0	72.40	17.82	15	1
2.269	23	2345	34	37		0.0338	~9+29	152+2	72.64	1748	\$	4
1270*	2.2	2364		58		0.085	~3\$28	11207	59.42	138+4	\$\$	Ø
1271	1.0	21.4	40 Q.Q.	品牌		0.306	-2-20	288.2	a to a to	17.7	de .	1 2
1000 00 00 00 00 00 00 00 00 00 00 00 00	·水风. 夏夏	22.0	tio ser Se ser	A. G.		0.830	· · · · · · · · · · · · · · · · · · ·	1.45.26	123 . C	2494 2011	nge Sig	
大学学会	33	22.0	A Cherry .	生物		0.808	"这要没有!	24264	12.00 10.00	5. C. B. G.	1	87. 19
1376	11	22.1	20	to D		0.426	and a state	1. 中国的	70.8.	12.2	1 M.	Julie .
2225*	Provide Street	2242	37	29		0.540		10407	7067	1547	il.	ő
1276 .	11	22.03	33	5.0	-	0.537	-3630	185=4	71.9	1706	ia.	1
1277	-	22.03	13	43		0.521	-3230	213.2	66.8.	17.8	6	2
1278	11	22.68	21	27		0.526	-3.30	195.04	70.09	17.3	.6	
1373*	1	22.07	\$8	-0.2		00002	~3.30	100.9	体影响日	16.05	5	Ø
1280	55	22.47	. 35	-29		0.538	-2030	150+3	72.45	17.5	6	*
								1	1. 2.1.4			

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								Sec. 2.			
1281	-	2247	84	13	02537	~3430	154.3	71.9	1706	6	10
1282	22	22.09	40	48	0.943	-3+30	136+0	69.2	1700	榆	
1283	2.00	2360	61	34	04578	~3+30	10547	5207	17.2	1.3 .	1
1284	12	23+1	35	53	0.538	3 30	149+2	71.5	1705	8	-
1285	21	23+1	an []]	4.69	0.503	-3-30	242.68	tels a 3	17.0	5	1
1286	1946	23.2	23	10	0.527	-3.30	190.1	72.7	17.66	6	1 .
1287*	1.1	2363	67	35	0.578		10101	· 68.64	17.0	5	0
3288	19	2303	08	, la m	0.516	-3:30	22448	62.0	1746	6	2
1288*	11	2364	61	34	0.578	-3.30	106.7	. 53.7	17.0	234	0
1290	12	2385	26	24	0.536	~3.30	153.5	72.0	17.5	à	1
		-									10.43
1291	11	2000	56	60	0.8863	~3630	110.0	57.8	1944	3	1
1292 .	11	2440	26	38	0.538	-3,30	14607	72.03	27.5	ła .	2
1293	12	2442	.39	52	0*541	-3030	137+9	69.09	1708	6	1
1294*	12	24+2	33	03	0.562	-3430	111.09	59.3	18.0	5	0
1295	11	24.43	. and Silly	Sep Ele	04508	-3.30	23848	50.8	1701	13	1
12964	23	2404	16 (j. 6)	22	0,509	-3.30	236.8	9.58	17.0	5	0
12974	2.2	2405	77	2.6	0.661	43830.	9866	3969	1601	. St	0
1293	11	24.65	63	37	0,947	-9.030	12564	66.45	17.5	5	1
1299	23	2404	- 34	47	0.836	-3.430	192.1	7201	17.5	6	1
1900#	22	2447	48 J. Q.	06	04500	-3030	24661	32.66	17=6	5	1
				1							
18014	22	2488	75	52	03667	-3.30	95.02	. 41.60	26.5	14	0
1302	11	2409	67	13.3	0.593	-3630	10102	48.00	16.7	3	2
1303	11	25.0	37	26	06838	-3680	14307	71+1	1800	6	1
1304	1.2	23.00	36	16	0 + 937	-3630	147.5	71.7	\$7.44	G.	2 .
1393*	11	2502	.35	35	0:536	-3030	24905	72.0	1702	14	0
13064	11	2543	47	25	0.549	-3+30	12201	65.3	17.6	6	0
1307	11	2363	15	20	·0.4521.	-3:30	211.1	6804	2608	調査	1
13085	2.2	25.05	6 () m	11	0.510	~3#30	236.43	5400	1507	de la	0
1309	2.3	2547	ale I I	03	0.306	43 8 3 9	242.0	67.0	17+0	5	2
1310	23.	24.00	4Q	39	. 04940	~3430	125.5	6948	1748	6	1
23214	22	26.00	uns 2 3	19	04498	4333Q	249.04	35.08	17.44	6	1
2922	Acres .	2643	50	52	0.552	-3031	116.6	62.68	1705	6	1
1213	11	2646	17	. 53	0.523	+3032	205.7	70-11	17.2	5	-
11234件	2.3.	2669	A. 3	91	0.550	-3:31	117.8	6307	2309	1	9
13358	No Se	2705	72	la Sa	6 . 613	~3431	97.5	48.49	2603	100	0
1336*	1.1	27.8	38	12	0.937	-3:31	14102	71.03	17.6	6	0
1317	22	27.00	- 24 J. J.	la la	0.905	-3.31	24367	· 45 # 7	16+3	3	2
1318	11	2404	9. B	46	0.557	+3+33	11001	59.00	15.0	3	1
1319	Series .	28.05	40	53	0.538	-3431	134#1	70.0	1708	Ő.	2
1320*	22	2845	`***(`) §	01	0.509	-3032	238.8	52+8	1706	6.	0

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22234	4 8	20.7	6.92	战战	13.847	19.2.2.2.3	180.7	Enter a h	12.0	the let	8
12228	2 2	· 分配量程	Balla.	82	N & 474		102.4	87.0	179.3	R.	12 K
2.最穿浪	1	2828	w 6 7	14	0.408	19 2 4 10 2 4 3 3	OLO .A	(1) · · · · · · · · · · · · · · · · · · ·	1729	10	4
1970	國際	199997 1966,97	1. 周节	Se La	1. 640 1. 640	·····································	107000	·····································	4190 . 17.8	100	19 4. 19 4.
1295	1.1	20.3	ुम र होत्य	ma	N. R. S. W. W.		595.12	· · · · · · · · · · · · · · · · · · ·	水子粮留 · 多間。当	1	4
12962	· · · · · · · · · · · · · · · · · · ·	20.2	160	5.0	5.9 8 6 6 6 A . 8 6 6		1.3 2 . L	140 4 10 17 1 - 1	- 水型水。 - 中型、日	2	200
水田田田 (1月月1日)	6.9	5.79 F	12.44	30 1	1982 A.A.W A. 2019	1 2 Q 2 2 2 -	成於於舉辦 文的時 (1)	1965	318-00 9-72 -01	1. S.	4
2-256 1 V 02-4-0	· · · · · · · · · · · · · · · · · · ·	· 新学教物。 内心上的	12. 1	6.81	100024.1 10.1002	17 2 18 2 A	たると親国	1 499 (Kr.1.) 199 (Kr.1.)	高重量》: 1919 - 19	1979 - Ale	. ते म
3.769	4.4	00 B	12 (A) • • • • • •	2.4	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-*** 2 & 2 &	1. 第三日前	1201	3.70 G	22	4
2.2.2.2.2 中国内的2	10 m 10	279 & 3	16.	29	「「後部協議」	*******	「「「「「「」」」であって、「」」であって、「」」であって、「」」であって、「」」では、「」」」では、「」」」では、「」」」では、「」」」では、「」」、」」では、「」」、」」では、」」、」」、」」、」」、」、」、」、」、」、」、」、」、」、」、		「「「日本」」	100	-
7.2.3.6.4	-A &	29.4 X	30	645	- 台灣自然	"你是要了了"	27047	03ei	3.843	韓信	Q
5 01-06 A	4.4	3A. C	A.	3h	0.070		180.0	8 4 x	9 99 6	2	-
4.272	4.4	· · · · · · · · · · · · · · · · · · ·	() () () ()	1. 19 · 19 19	194246 - 0 0 0 0	· · · · · · · · · · · · · · · · · · ·	2000 B	》《春诗	主要的	0	the second
13364	100	2374 A	NAR (J. C.)	23 .	N 620	******	· 化化化 加入	· · · · · · · · · · · · · · · · · · ·	1月間後初 1月間後初	day .	53
1.300 B.W.	3 2	「日本市村	24	19.2	94299 0 0 0 0	19 2 1 3 L	1.1.1.2.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	19.2 B 3	· 二百百一日	0	
人员急导冲。 《达尔中	and the	· 新良養設 	1996 (A)	and the second	10433V	******	无法的事物		1001	- 639	1
1233	2.2	1.2.2.40	66	31	24242	** 2 W 2 2	998a.	4743	2106	13	1
1330*	22	2140	23	121	00030	*******	155.08	7440	1000	14	0
1.23.3 1	3.3	27.14月	見線	2.33	46211	**2433	ZEGOZ	• 哈奇省等于	11.444	1.15	d,
1338*	1	22.49	19	03	0.4.524	~3#32 .	20245	72.40	16+9	1. A.	13
13394	1. 1.	3343	73	23	504.40	~3#35	96.44	· · · · · · · · · · · · · · · · · · ·	3744	6	0
1340*	1	33+1	4.5	42	0.539	~3432	15500	67.48	1742	3	Ċ.
1341	17	33.1	3.3	12	0.817	-3.32	22266	66.9	1700	ing.	1
1342	11	33.2	10	63	0.517	~3432	223.00	Edic 7	1742	3	
13424	1	93.3	63	28	0.560		10640	State	1762	13	ñ
子常盛品	31	SSAS.	an (3 14)	Sa fr	0.508	-3.22	243.49	68.8	TAAS	193	a.
1865	3.5	23.7	2.5	30	0.917	-2497	22222	47.2	17.2	-	1
1246	3.5	33.7	66	30 '	0.515	-3.32	229.6	EARA	16ak	64	4
19574	10 2	"我我们学	10 2 kg	直接	0. 500		263.1	35.0	27.48	-	7
196.6	3.3	33.3	419 2 3	3.4	0.507	-3432	24540	128 8 5 to	3740	s. G	2
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1:252*	LZ.	3445	Q S an	40.	0,503	-3+32	24987	3869	17.8	8	1
1893	32	34. 7	25	46	0.524	-3+32	18307	7409	17.6	Sp.	1
1334	12	34.57	10	58	0.517	-3632	22309	67.0	17.2	5	1
1335	2. 2	3500	42	43	0.585	-3632	12768	69.48	17.6	.6	2
1356	11	35.0	11	15	0.917	-3032	22302	67.2	2762	5	1
13574	1	35.1	6.2	06	0:557	a. 3 # 3.2	103.2	53.9	16.9	5	0
1350	2.2	3503	09	02	0.516	-3:32	226.9	.65.6	17+0	5	
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3957	24	37.0	31	90	0.425	-2.59	2604	64.87	27+8	6	76	-
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2.97%	2.4 小人	Owb.	26	03	04435	e2.056	7.8	63.5	2706	6	3	
1979	16-63	1.47	73	53 . 19 - 64		-2452	感觉多的	40.00	1743	. 6	214	
主教资务 .	3.4 43	9万字:	69	39	00119	+2+52	7507	4446	是常#1	100	1	
1976	14 43	3 4 8	27	勇振	00454	-2452	354+2	01.7	1609	1/2	1	
19770	复数 御子	148	· 23	药毒	0.577	~2×58	802.6	30.00	1760		Z	
3.978	36 43	* 9	16	24	00472	-2:52	342.05	39.1	16+8	5	1	
1979	うわ 400	9.60	13 L	53	0.0021	-2.53	1004	63.42	1762	5	12	
1980	14 43	0.0	23	16	0:449.	~2,031	357-0	61.09	2942	1014	2	
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法贸易基础	「「「「「「「」」」	6.	10 S 400	新子	24255	-2452	20300	30.00	法资格证	2	1) 	
7.585.4	这种 带的	101	123	20	合教命定法	北京省部市	1343	43.40	2.000	57	hà	
1983	3.40 AS	140	21	22	日本命令命令		资料的承引	四日 日本	· · · · · ·	3-	J.	
1984	3.44 440	"我了。"	2.15		90032	~2000	12 A]	\$82×7	1742	3	i. K	
【学習》	1号 94	3 0 0	10	24	行业特别性	*****	39940	33 # F .	2446	12	- A	
7840.	Juday day h	- 6 行	de.	32	Carlory.	*2*20	350.57	命派专员	7642	- they	4	
1987*	上部 杨长	49	2.2	为得.	Qa430		14.47	62.00	3746	.6	G	
7.8004	1.4 . et s	143	· L. S.	15 3	04404	一是黄伟将	33463	80 e 9	1748		-0	
1988	14 41	l m Z	9.6	18	0.4496	*2649	33000	22.44	2502	1	1	
· 2090 -	24 4	02	2.87	#1.	00481	~2049	945	62.44	3. Ted		fir.a	
1001	2.6. 16"	x.c.	10	2.40	RULARD	na Friendle	28016	an.n	18.4	2.	4	-
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20414	3.5	03.7	69	26	0.082	~2630	7365	杨子四年	17.0	13	0
2042	3.5	0547	37	06	0.4390		2605	- 当日本心	1708	3	
2043	\$. K)	0640	2.6	5	04483	-2430	34848	5861	1242	9	3.
2 Q losts	10 10 10 10 10 10 10 10 10 10 10 10 10 1	0640	14	\$2	00469	-2630	34645	\$442	1745	to .	3
2045	14	06.87	S 8 20		0.6338	-2+29	32503	4441	\$7.03	6	2.
2046	13	06.89	33	24	0.397	+2829	23.2'	警察力学	1.5+9	5	S. A.
2047	15	07#3	17 N.)	41		-2429	83.07	3648	1700	Ø	1
2048	10	0801	04	36	0.0499	+2+20	23346	杨熙安秋	10 a Q	de.	
20494	1.5	0898	38.	20	0.6409	-2.27	1. Tek	\$840	1740	15. 19	0
2050	13	08.49	00	39	04310	+2#2T	328+2	- 杨芳安药	1701		aller a
		۸.									
2051	支持	69.2	ser (Sel)	23	.0.833	-2025	327.77	梅梅雨易	17.4	100	
2652*	15	6966	07	33	04490	-2.26	337.00	4967	13.0	3	0
2023	25	0980		08	0.512	-2.26	328+1	16408	17.0	1.6	1.49
2094	15	30.66	3 U.	20	0.274	-2625	3604	31.44	17+6	54	1
20554	2.5%	3106	86	4. 6	00492	45654	336+8	6848	1640	4	0
2056	19	1301	28	动图	02421	-2-22	11.0	56.8	1609	il.	. 2
2037*	25	2342	ins J. E.	09	0,0542	\$282	31904	3763	17.1	23	10
2683	15	13.89	72	2%	-0.016	+2421	73.7	40.09	1708	Sec.	*
学的名称	1.15	14.2	20	27	0.418	-7.27Y	12.0	646	17.0	3	10
20464	1.6	3424	40 7 9	3.0	0.367	-2621	SIGRA	. 9640	17.7	16	1
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2.96.1	13	1543	32	12	0.411	-2.420	15.44	5608	13.07	the .	1
2862	13	10.88	32	37	0:409	~2.280	28.03	3600	1606	9	1
2068	15	1640	09	10	04485	-2619	340.05	62.2	15.1	3	4
2044	3.54	16 alto	4.9	30	0.827	-7,829	66.66	68.5	2606	\$ <u>5</u> .	0
2043	18	26.46	2.8	15	Oat+22.	~2419	10.2	36.00	1506	1	2
3065	16	16.6	01	34	0.508	-2.19	331.5	delle in 7	1702	· 16	- 2
2047	3 15	27.43	31	20	0,000	-2.18	35.9	55.02	15#7	. 1. j	3
204.8	375	17.8	70	01	*0.s309	- 2 m 1 7	78.1	40.9	17.7	ć.	2
2050	16	1840	30	25	0.4413	-2817	14.1	85.9	1600	43	12
5070	14	1.A.A	雷高	あん	0.390	-2496	23.6	86.0	17.8	商	1
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2071	to the	10.0	39	20	6 × 287	and in the	2668	48.7	\$7.2	- Fi	14
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一定财产的	2. 3 7. 5%	の時間が	an 193 De la	1.08		and the second	10040 15 7	6.87	1922	in the second	e. A
	4.10	3.287	10 m. 17 R.	44			47.2.	20.1	- 3 - 1 - 1	18	194 194
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2001*	1.9	25.00	1 Ø	30	1. 日本教育中心	-2432	321+2	1 厚藤黄舟	1707	\$	and a
20824	13	2304	03	57	0.00	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	395+6	44.08	17.0	1.	0
2083	15	23.05	2 L	1995 - 1905 - 19	GeAQ7	-2e11.	1567	5408	16.9	10	* 2012
2084	の	资序典型		40	04387	-2.10	2946	3468	2743		
2085	3.5	2400	07	32	04488	-2.10	340+5	46.48	3707	to i	1
2086	15	24#7	72	53	-0.051	2.09	75.5	40.00	1707	5	67 25
2087	15	2540	72	06	····00026	-2409	74#7	40-45	27.6	. És	10 10
2080		2507	39	2.2	0 4 36 9	~2*08	2947	一 日本 4 日	17.5	Ś	3
2089	2.3	2668	28	(R) \$	0.417	-2.07	1102	·8*8	15.8	a Rig.	2
2090*	2.5	27.13	\$2	(Xé)	0+182	+2+07	63.4	· 48+31	1742	13	and NS
							and the state				
20.91	19.美	27.3	10	the sign	04479	~2607	34446	47.7	17.5	to:	14
2092	3.9	27.55	31	34	OchOA	-2006	16+9	2400	1947	Ú.	2. 13:
2093	1.51	26 . 3	37	32	06377	- 2.08	2645	53+8	17.2	· R	2
2094	2.5	29a1	and $\left(\prod_{i=1}^{n} \prod_{j=1}^{n} \right)$	33	0#817	#2054	330.9	40.03	1607	3	1
23994	2.43	29.8%	· · · ·	01	0.339	-2404	3204	\$3.03	2708	Car.	Q
2096	15	2909	.37	50	0.375	-2034	27.0	5346	17.0	an i	10
20974	15	30+1	40	05	0.363	~2403	3048	1. 急急日告	8.71	Ę.	0
2098	3.6	30.66	70	10	0.025	-2:03	72.42	\$2.04	17.2	8	1
2099	1.5	30.7	to be	1.34	04340	-2.09	37.6	62.6	17.8	6	1
2200	13	3280	38	68	0.373	-2:02	27.05	.53.44	1700	B	3
				4						1	
2101*	3.64	51+2	22	te to	0.4472	-2.02	346.00	87.48	17.2	3	13
2102	15	32.2	70	40	0.005	10450	72.47	40.9	1767	6	
21034	15	3.2 4 4	eon (3-3)	42	0.517	4 3 & O.1	33364	39.6	1701	in the second se	0
21064	15	32.5	44 (7 2	50	0.621	-2400	.330.3	38+8	1704	Ć9	2
2105	13	32.8	74	33	·=0+135	-2.00	76.7	建绿白梅	27.2	-	3
2106	2.15	3303	芳椒	09.	0.391	~2.00	20.8	52.9	17.2.		1
2107	15	3304	22	19	0.439	~1.99	1 w B	30.49	18.07	64	1
21084	2.5	3348	18	22	0.4653	-1.099	356.0	4906	15.2	4	0
21044	15	3345	05	36	04492	-1.99	34016	alson 2	1784	5	0
2110.	15	3369	19 B.	1	0.4404	-1.00	16.40	52.6	1740	5	2
2111	2.5	3460	19.44	53	01367	@@a.E.m.	. 22.41	\$2.8	1768	de la	1
33124	1. 50	P. tar B	36	E.S.	0.278	-1-08	25.2	63.7	17.8	1251	E.
222284	1 3	RALLA	04	0.4	01496	m T K Q Q	2943.9	49.49	THE T	ST ₄	1
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2116	15	3723	6.3	1.8	0.342		- 28. 7	51.6		-les	1
	14	27.4	40.62	2.45	C. SAL	-1-296	37.2	41-44	17.8	6	1
214.64	19	37.6	6.3	17	0.347	-1205	34.1	51.7	17.1		0
21100	1	38.0	00	马母	ORARO	-1. Qá	34516	65a0	17.20	- the	0
2120	7.4	38.4	24	5.9	0.325	and a state	77.7	52.0	17.8	A AND	1
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			N. C.								
2121	15	38.0	70	16	0.005	-1.09	71.09	40.7	3746	6	2
2122	1.5	39.0	36	36	0.377	-1693	2409	51.40	1586	5	1
2323#	No.	39#3	~ Q 7	$\mathcal{L}_{Y}\mathcal{L}_{0}$	0.537	-2092	327+1	34+3	1705	Ó	0
2324 -	15	3905	3.5	32	0.377	-1492	2448	5107	15-6	2	1
2225	15	3906	64	無罪	00087	-1092	68.0	命名曲命	1706	6	· 14
23264	2,5	4045	26	26	0.421		8.8	50.04	1706	6	0
21274	12	4743	7%	续都	-0e285	~1.490	了放心外	36+7	1749	- 69	ett.
46555	12	的是要的	and a la	47	0.6520	-1090	332.3	37.2	1600	1	0
2123	1. 1.	4240	20	311	白眼的部分	~1+09	*6	48,5	1748	.6	-
4.4.50	29	9263	21	0.1	0.8374	~1089	2002	29997	3100	- 42	1
化建物性	3.22	42.5	19 L	2.5	0.092	1.41.00	24.0	28.15	19.8	4	
53336	14	「ないなん」	20	2 3. 3. 17	V#2/19		27.40	2149	してゆけ、	ED A	17
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2134	12	4460	73.	28	04040	-1286	1.2.4	40.4	17.6	6	2
2135*	13	48.49	51	01	0.281	-1.81	46+8	48.40	1746	6	0
2335	15	4943	51	33	0.276	-1.80	47.5	47.48	1700	6	1
2137*	14	50.45	62	之前	0:151	~2.679	62.0	43.1	17#1	-	0
21344	1948 1948	51.11	34	12	0+384	-1.78	21.62	49.03	17:5	6	0
2299	2.5	5200.	63	49	590.0	~1+77	66.00	4200	17.4	6	1
之主病自任	1.5	5263	.49	Ø.	04294	-1077	4307	47,9	17.5	Ś	<i>Q</i>
										1.1.1	
13. 13. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19	100	「日本書語」	60	12.2	0.6373	10 A A A A A A A A A A A A A A A A A A A	6368	4902	2100	30) 67	1
1. 2. 2. 4. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	3. dr - 10 At	වර්ෂුව යන ඉ	£ 1 0 %	28	124433 0 0 0 0 0	"四方意义了"	· 是主要的 历人 - 61	· · · · · · · · · · · · · · · · · · ·	二の単位	A(-	4
6143M	12	2691	22	50 m				4744 20.0	1040	2	Q
·正義所御 (注意於御	主要	司司 · 司 · 司 · 司 - 和人二、"学	11日 小田	21	1094299 1094299		1600	二方で登場	2180 36.0	0	n bo
- 54 - 64 - 75 - 75 - 75 - 75 - 75 - 75 - 75 - 7	· 出河 [2]武	3984 我长,你	in the	to the		1.23	5.940 4.6.50	108.3	19.7	die.	\$01 *
(注意)性的。 - 教育成 性	· 14 14 下前	- 司令權令 - 武佑。等	A P	19 63 19 63	940997 0.486	- 77 6 8 4 6 	25.2.2 25.2.2	19494 A8.0	12.5	1	4 7
73487 73487	4.8	2702	2.0	47	0.419	小田二の学生		taken a T	1Sala	3	6
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2150	13	5.8 a 3	73	49	-0.073	-7.69	72.4	38.45	17.7	6	1
and get an one											
2252	2.3	50.* 7	10	99	00009	-1489	35869	4400	1308	T. M.	2
2152		58#8	1. AL	多法	白麻梅影响	-1.659	357.03	43.5	1348-	1	1
21534	業務	00.01	3.49	29	0.0462	一次资源了	354+5	4242	16.9	19	0
2354	3.6	01.42	65	30	· · · Q.088	~1.+65	65 e C	41.03	1.7.6	- 6	1
2159	3.6	0102	25	24	0.420	~1.466	200	45 . 7	1705	1	.1
5368		02.00	72	34	-0e147	~1.454	74+#2	37+3	1705	ţ,	2
2157	16	2040	4.13	1.23	0.29%	-1063	每是典目	46.43	1747	6	1
2.3.图题外	1.67	03.65	64 J.	Ser.	0,328	如王帝自己	30+0/		1.800	1	6
49985	2.00	0000	11	he he	Q6431		0986 (14845 ····	LUOV	44	- Q
1100	大学	2301	30	1.2	0#398	~ 2450	1041	4241	1.147	0	~

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	4.		1. A.			and the first						
	2181	3.6	06*6	172	多致	-00083	"是我想到	7242	37.09	1745	袋	20
	27954	10	06#7	29	33	0.399	一言身等空	法教育部	容易力的	1347	See.A	
	皇皇帝多世	2.67	07.4.8	er (7 f)	14	00532	2057	334×2	30+1	3745	6	il.
	名主教会会		0約点2	<i>6</i> , 0	\$7	-00161	-1887	9948	42.64	2705	5	0
	51984	S. A.	0802	13 MM	03	00412	四急痛怒掌	法意命? :	小林 # 2	37+4	6	0
	2366	15	0900	多金	21	0*316	~1.4.96	5300	4347	1701	1	3
	汉法合学者	青彩	·你没有了.	汤鼎 .	48	0#393	~~急奋伤药	2863 .	4549	2706	6	G.
	23.每篇	10	09#7	読め	32	0.235			4461	1649.	10	1
	23494	7.6	王帝等的	新学	30	Qa201 /	-1+54	· 4346	· 你是我们,	111日本学	de	0
	8370+	14	10%7	2.0	33	04426		7 # 2	4341	15.9	A .	0
	2171	1.8	11.48	72	02	-0.100	-1+52	7200	37.5	1749	6	1
	2172 -	35	12.00	42	14.5	.0.829	~1.652	3400	45.03	1701	5	1
	21784	26	1343	69	19	00480	-1450	350.3	3740	17+1	55	1
	2374	16	1661	62	27	04146	~1449	5983	4105	17.01	14	1
	2178	3.45	14.6	. 30	16	0.396	-1468	16+5	43.8	16.2	lis.	3
	2176	36.	2468	· 71	$d\varphi (G)$	-04095	-1.448	7206	37.64	1701	4	2
	21734	26	15+0	- 2 &	06	04414	-2048	1100	4208	17.5	à	0
	2178	法备	自行业的	25	00	06429		2.943	4264	1741	-	and a
	2170	医肠	10.65	43	动物	0.327	~1.447	3440 .	6407	1761	5	-
	2100		1569	令急	03	0.4290	2047	4303	6403	17#1	6	
	1810	3.6	1.K.a.A	77	6.2	LA. 1600	un Friedersch	74.9	3 A 2.	17.7	1	4
•	21824	1.5	1.6at	4 de	la la	Qx459	- Timbelle	357.0	2.00 m m	TTAL	-	
	RAFE	であ	14.48	43	an.	0,195		3. and	the the	1741	15	
	21848	16	3742	60	33	0.268	w Ladell	Web & B	63.T	15.0	ia.	ñ
	2 1 3 9	1.6	1767	70	57	-0.070	- m ton data	70.65	-37.66	17.44	6	4
	21864	3 65	20.2	28	53	0.401	-2002	1409	62.66	17.1	e,	0
	23.872	36	1904	6.3	3.6	0.993	-1.4A2	92.3	64.0	27.1	19	0
	21884	1.6	1987	R. Cop	03	0.376.	-1 + + 2 ·	22.0	·····································	1702	-	3
	2389	3.6	20.68	58	6.7	-0.140	-2660	72.45	36.6	.17.1	10	1
	2390	1.6	21.04	dy to	02	0.316	-3639	35.7	43.06	17.07	6	2.
	91014	2.6	92.9	15 S.	3.5	01480	.1.20	11.5	i.	47.7		A
	· 你在不多?" "你怎么你	3.50 9.50	2120	15 102 6. 12	20	146123A Augusta	11 2 8 2 7 	「「「「「「「「」」」では、「「」」」では、「」」では、「」」では、「」」では、「」」では、「」」で、「」」で	大学工会で	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	- 462 Ma	
	4. A. R. S.	3. 89 3. db	21.0	10 g	A.M.	9976.A. 1. 497	174 B 372 -		- 10 3 0 2 2 10 2 10	3193 31933		2
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	2100	16	22.6	A la	6143	0.015	4821 4842	2.5.1.2.	13.3.2	17.7	. A.	1
	2100	大学 しん	29.26	. 20	63	1 1 1 2 2 2 2		30.0	100 0 11 10 10 11	19.6	- 19 - 19	27
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2201 16 2349 65 47 64213 . 52:45 1000 -2.436 42.08 17.1 15% 22228 16 2503 150 .49 09 0.276 他皇后强命 心灵 通信 梅菜香薇 To Mark 78+3 1 25 2203 16 25+4 73 41 一句言主题为 四直面选择 3549 17+1 12 2204+ 16 25.6 09.54 04491 ~ 2 * 34. 因而自由的 32.47 1703 - 8 22054 16 25.8 13 12 0.064 ~ 2033 5 39684 16.33 Jong. 2208 16 26.4 43 39 0.317 3707 17.4 -2033 3342 · 後記#罪 3 0.0000 2207 26 2608 高与 心马 -1032 6440 17.4倍 10th state 2203 26 27+0 58 .80 0.174 ** 2032 5964 每1007 17.1 3 2005 22000 16 27.1 73.54 -00207 -1032 73.05 3347 17.9 5 2210+ 16 27.6 03.48 0:401 501.0 -2432 马称品家的 8243. 1741 53 2222 16 2942 43 35 · C. 332 如意而言發 2339 4282 1704 200 24 2212 16 2945 4.争 急强 04273 ~ 2429 411 11 11 2649 4301 ため 2213 0.4329 18 3140 41 35 -1.25 27.47 43.47 愈 00349 22144 16 32.7 原稿 急速 27.9 1ª *1424 母亲自己 2743 2 2213 25 3420 48 21 0.279 ~1422 的道道的 4202 1701 13 Burd 2216 16 3445 67 58 0.000 in 1422 当7.44 1704 South. 6604 \$2 2237 16 34*9 20 12 5 2-14 00401 四直日意言 28.43 3901 1743 2218 16 3864 66 31 04034 12021 海道安徽 37.7 AT & T -Sec. 0.289 2219 16 36+2 46 59 -2619 3946 63.49 3704 67 3 22200 18 3684 勝劫 23 03225 17.5 ~3.412 今日69 1 40.03 No. 3663 43 33 06334 42419 35.0 17.1 3221 15 40 69. 杨 Said. 43 05 04317 1707 うん 2822 18 9845 ~1+19 34.84 . 4049 题 2223* 36 3647 87:43 0.403 四月四月隙 26+6. 高禄而命 2505 . 5 13 38 2224+ 16 0667 04462 100 m 1 18 1. 19 36842 3348 ST all 10 ·5144 . 2223 38 3600 56.02 00203 ~1.19 40.00 名字 8 影 200 雨 0.012 65+5 2226* 16 3802 : 67 21 -1017 3742 1746 E. 138 3964 51 33 0.249 每日 # 2 2323 +1a15 4346 17.4 1 2228 16 42%3 30 12 0.390 ******* 王将家主 3840 36*9 家 杨慧 影林 0,003 -1116 S. M. 37.2 \$7.7 13 22294 38 42.02 6935 杨 04271 X 2200 120 0302 海島 外意 ~3430 本次60 3皇后? 3608 14.1 2281 38 4367 白白 本品 0.191 -2609 5242 23月世景! 2709 A.S. 22324 15 4447 63 59 06116 -1408 58.17 3749 -2 1841 22334 3.6 4769 林岛 急致 04332 -1403 35.00 38.48 意望無弊 in. 100 2234 16 4800 - 56 A1 0.190 -2003 热学家的 雪花山峰 2744 deng. Ex. 40 26 2235 16 3063 0*332 ··· 1. # 00. 3240 2362 1761 2236 14 52.2 72 43 37 ~0a133 -0.097 7002 3407 89 1702 37.9 16 52.44 55 29 0#202 -0:97 2237 50.4 1707 14/0 0.349 2238 26 9206 37 27 27:5 37.03 12 -0.97 2764 5 0.155 2239+ 16 52.9 89.09 -0.096 55.0 37.44 1101 50 0 The start 節 2240 18 5309 66 59 0.009 -0+95 有效必要 38.48 1704

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		1					a the second					
22614	16	5449	32	is la	0.375	~0.49A	.0124	26.1	18.A	- 13	0	
226.24	1.6	54.5	184	8.6	0.211	-94 9A	4.9 a 3	87.7	Then	i g	1	
226.3	2.6	S. Sec. As	· 2 22	27	0.361	-0-01	28.71	26.22	37.3	15		
2244	26	6746	李施	2.64	0.886	- mGallo	2360	35.7	1628	6	27	
2265	16	5744	53	65	0.369		28.3	REAL	16.45		4	٠.
2266	16	99.8	ten ha	28	6.80.60	-0.887	61.63	36.8	1746	S.	12	
224.74	3 12	01.1	81	16.81	-0.983	-0.485	81.44	51.0	15.3	3	0	
22438	17	00.40	19.99	13	O # 440	-0.81	76.42	32.44	15.5	19	0	
22400	27	136 8 3	34	39	0.363	-0080	2447	34.04	15:4	13	0	•
2250	37	06+0	39	23	0+331	-0078	31.42	3500	16.5		1	
22524	17	0546	25	00	06411	-0.77	13+0	31+4	17.6	6	2	
2252	2.7	10.42	64.9	34	04257	· 0672	42.49	35.3	17.5	6	9.	
22334	3.7	10.2	3.8	50	98337	-9+72	30.0	34+1	10.5	5	Ö	
2234年	17	13.04 .	19	53	0.433	-0.70	8.07	28.6	17.7	Ér	2	
2253	17	3.1.46	彩 湖。	1.15	0.000	-0770	60.9	3465	15+3	2	- 25	
2236	1.7	32.42	78	Sto	-Qa598	-0.469	78.0	32.05	1903	3	2	
22578	27	1246	32	43	0.372	-0.688	83.40	32.43	17.1	N.	à	
23588	27	1364	33	.53.	0.376	-0467	22.43	3209	17.7	ti.	and a	
22894	17	1484	27	49	0.397	-0866	1706	34.44	1701	Sec.	1.	
2260	17	1989	72	2.0	-0+173	-0.64	70.3	32.00	17+1	S	2	
2261*	10	1741	32	1.8	6.374	-0.62	22.48	31.3	27.44	É.	2	
2262*	17	17:3	23	当你	命事物主任	**©*&\$2	1345	28.7	1704	\$	Z,	
22634	1.00	意节:#谷	27	$Q_{i}^{\mathbb{Z}}$	0.400	-0=62	37.0	29.7	26+9	S.	0	
名复数命令	27	2.8003	29	20	0.389		19.8	30+2	17.47	6	0	
2265+	3.7	20+2	27	36	~0.465H	~0+61	7604	21.+5-	17.04	·@.	Q.	
2366*	17	1903	32	12	0.374	-QaS9	55.65	30.8	17.5	6	2	
22474	4.4	2143	\$1	3.0	· () # \$ \$ 3		57+0	38+7	1749	6	3	
2次海豚带	1	2460	53	22	0.193		50+2	33*4	1707	- En		
5.2694	5, 309 4 4	2492	希望	2.7	6.857	-0*62	· · · · · · · · · · · · · · · · · · ·	2349	17+3	朴	0	
33.40%	3.7	2403	55	18	0 *1 94	-0+32	50.00	133+3	1747	, Q	Q -	
2272*	3.2	25.40	1988	10	-0.4338	-0.651	76+9	31.0	15.7	Éģ	Ó	
22728	3. A	2802	40	6.2	255*0	~9446	3249	31.00	1645	1997. 1997	See.3	
2273*	23	2943	62	30	0.310	Oa45	35+0	33.42	1704	. Kg	Q	
2274	2.7	36.49	77	33	66440	-Qa42	7662	30.08	17+2	ÿ.,		
22754	1000 CON	32.*?	53		0.216.	-0039	47.07	.32.00	2603	and Alt	Q.	
2276	27	2448	Syda.	80	0:056	Q+38	60#5	3242	37+4	Ğ	1	
2277	3.2	3402	71	QQ	-06133	-0.038	68.05 .	31.65	17.5	. 6	944	
2278*	27	35.5	. 29	\$9	0.327	~0.a36	32+4	29.5	1705	to	$\langle \rangle$	
23194	1	3706	24	$\leqslant i_{j}^{\alpha}$	0\$430	~0e33	1603	24.47	27*2	Ó	7 	
2280	1.7	42.02	63	49	0.061	-0+26	6001	31.02	17.9	6	dave (f	

22814 17 4204 la ta 43 2700 0.042 61.1 33.42 0 -0026 17 4502 73 790 之法总法 52 30.7 17.64 14 B 16 2 167 ··· Q . 22 6969 10 17 45.7 -mail \$Q 43 67.40 2.283 ~0.089 -6021 3007 3.7'04 6 22860 17 6960 54 29 0.202 -0.15 合 四 # 次 29.47 16.9 1 22854 17 49.9 42 52 0.306 ···· (2 # 2 /5 . 3643 2705 17:0 14 52 07 5 22964 17 50.1 0.226 4607 2903 1809 2 ~0.424 22874 17 50.2 29 3.8 -00764 -0614 7844 29.6 1709 着 17 5102 1609 55384 59 44 0.4131 -0013 马易家命 30.40 5 (and 22894 17 51.7 38 Quine 2908 3745 -0+12. 5300 Es-1 30 2290* 17 5308 73 ~0.233 ~0+09 17.1 0 7362 29+9 22824 17 2345. 51 30 0.235 4567 542 ** () & () 9 1700 No. 2000 22924 27 5462 · · · · · 80208 ·*0:08 48.87 2849 1741 药 うろ 2203# 17.59.0 \$7 29 00161 -0692 5342 1 2848 1602 de. 65 57 2294 .10 0140 -2:6333 10002 8863 2864 1707 17/2 雨 22994 28 02*3 13 89 -0+075 0.02 白港市谷 2904 2602 22964 18 01#3 77 42 0 -0+509 0.02 7601 2902 1549 Esp 17*0 2.2号字体 30 0345 42:22 0.309 2002 3644 2304 15 之意动动者。 18 0303 04245 0405 45:0 2649 1704 5 22994 18 0440 43 58 心。文学校 0+07 1703 38+2 23.2 杨 2300 18 1007 76 39 -00425 1 0.16 深端曲带 28.7 1703 TAL. ···· 0 & 0 85 23014 18 1840 0.023 6609 2802 1508 施 想道稳急地 10 2709 87 00 0#349 0.26 5300 26.02 1704 弱 82 52 5 0 18 1900 m10262 0.020 83.49 2012 2007 2304* 18 20+3 68 52 -0.061 . 2700 17.0 E. 0.030 6641 71 17 2763 17:0 18 2449 0636 62.40 de la 0 23064 18 2944 74 38 -0.292 27 0:43 7206 27.5 1700 1708 23074 18 32.44 61 04 0 # 1133 自由化? 四字#門 2842 10 70 55 38 3504 -0.124 \$451 2448 这事目后有 杨蓉黄杨 是药业化 1 23公众办 注册 病学者主 - 0667A 0.472 2500 旗 76.0 26 .7. 73 69 2310 18.50.5 -0.205 0.73 28.82 25+8 - 17+0 they a 11-2 23114 18 5101" -01038 0074 68.43 25 .2 [comp] 1600 he. 23324 18 5441 68 34 ~0.039 0%78 6569 名传由等. 2508 彩 233.3 38 5800 -0.521 0434 28.3 . 17.4 10 A 10 7869 the state 26.03 2314 39 0003 了这一病学 -0.636 0487 7765 ない 1742 1 2402 23150 10 0169 色带 马马 -0.070 0.085 6768 Sent. 16+3 de Sug. 79 50 1704 2316 19 05.5 -0.6679 0 + 94 78.07 2002 Part 23170 19 08.9 6700 and a 68 59 ~0.037 0,099 2304 1706 No. 24 14.15 2310 19 12.44 77.55 2505 -0.477 2.004 7867 3700 1000 1301 Same in 23194 19 1642 43 42 0.311 42.4段 2504 13 2920* 19 17.9 70.44 ~0.0008 1.023 59+2 2302 2609

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| | 1. S. | | | | | | | | | |
|---------|---|------------|---------|--------------|-----------------|-----------------|--------------|------------|--|---|
| 宗法宗主体 | 59 3368 | 73 06 | -04140 | 3 . 33 | 72.11 | 22.2 | 19.44 | A. | 14 | |
| 23228 | 20 02.1 | 72 40 | -0.108 | 1.70 | 12.1 | 20.48 | 1.7 4 1 | in the | 44
19 - 19 | |
| 23234 | 28 0503 | 79 47 | -0.563 | 1476 | 7966 | 23.7 | 17.3 | Ang | 10
10 | |
| 2.3.26% | 20 1549 | 470 47 | . 0.582 | 1487 | 35847 | -29.7 | 3. An a D | - | 1 | |
| 23250 | 20 21.65 | #25 2s | 04598 | 1408 | 346433 | 1022 a.M. | 1648 | | - A - | |
| 2326# | 20 29.4 | 69 23 | 0.042 | 2.03 | 70.8 | 17.1 | 17.4 | - 85 | 10 | |
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1. Martine
1. Marti | |
| 23298 | 20 47.0 | M 10 33 | 0.649 | 2.4.23 | Sall. | 47227 | | · Sa | 169 g. | |
| 2390 | 20 49-44 | -22 36 | 0.480 | 2424 | 251.48 | - 27 . h | 17.4 | 6. | 2 | |
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| 23314 | 20 5044 | -03 29 | 0.836 | 2.26 | 8 4 6 | | 3.603 | 14 | 0 | |
| 82828 | 20 9184 | ~17 30. | 04564 | 2.427 | 358.0 | -36+3 | 1705 | 6. | 0 | |
| 2983 | 20 52.6 | | 0.571 | 2029 | 355.44 | | 1848 | | 7 | |
| 2334 | 20 5547 | -28 50 | 0.390 | 2632 | 34804 | -60.00 | 1744 | Es. | 1 | |
| 2335 | 20 57.7 | -22 22 | 08977- | 2.34 | 352.49 | -39 als | 37.6 | ŝ | ing . | |
| 2336 | 20 59.0 | -21 43 | 0.575 | 2.35 | 353.7 | -39.5 | 17.44 | .6 | 3 | |
| 2837 | 21 0901 | +22 87 | 0.576 | a with | 353.49 | -4241 | 17.44 | alle a | 3 | |
| 2338 | 21. 12.5 | -26 B. | 0.387 | 2.44.9 | 345.5 | -43.8 | 17.6 | ě. | 20 | |
| 2330 | 21 12.9 | 40 \$5 4 | 0.572 | 2000 | 3 8 da # 9 | -ASAA | 17.0 | | 1 | |
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| 23 da 3 | 23 33.3 | -23 65 | 0.577 | 2,050 | 352.5 | -43.62 | 1700 | 8 | 2 | 1 |
| 2342 | .21 14+0 | -13 17 | 0.547 | 2 * 50 | 807 | ~39.6 | 17.5 | 6 | 2 | |
| 2843 | 21 14+8 | ~06.01 | 0.6927 | 2431 | 1349 | ~ 38 ak | 17.1 | 5 | 4 | |
| 2 Block | 21 1704 | -21 25 | 0.569 | 2.53 | 336.0 | and the Strandy | 1746 | la . | 1 | |
| 2245 | 21 1982 | -12 46 | 0.845 | 2:35 | 760 | ******* | 1649- | 55 | 2 | |
| 23464 | 21 20.0 | -13 40 | 0.547 | 2.456 | 000 | -41.01 | 16.5 | 5 | 0 | |
| 2347 | 8018 15 | -22 52 | 94572 | 2857 | 35445 | - in lots in ? | 1604 | - Ale | 1 | |
| 23484 | 21 21.09 | -11 61 | 0:541 | 12:58 | 8.46 - | -40+71 | 1741 | the second | â | |
| 2849* | 21 24#1 | . 03 19 | 0.8504 | 2060 | 25+0 | -33.2 | 17.1 | 13 | 2 | |
| 238.0* | 23 2444 | m06 32 | 0 + 528 | 2460 | 1409 | -38.7 | 1701 | - 5 | 0 | |
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| 2351. | 21.2643 | -14 03 | 0.6547 | 2062 | 645 | -42.07 | 1701 | 5 | 1 | |
| 2332* | 21 2643 | -16 29 | 0.553 | 2462 | 304 | -43+7 | 17.5 | 6 - | 0 | |
| 22933 | 21 2689 | -02 15 | 0.217 | 2 . 62 | 19.09 | -93.0 | 16.8 | 5 | 1 | |
| 2354 | 21 21.9 | ··· 3.5 34 | 0.850 | 2:63 | 487 | -43.66 | 1763. | . Kg | 2 | |
| 2393 | 21 28.0 | 00 45 | 0.510 | 2463 | 23.02 | -35.5 | 1707 | 6 | 2 | |
| 2356 | 21 28.03 | -00 32 | 0,513 | 2064 | 21.9. | - 36 a 3 | 1701 | 1 | 2 | |
| 2387 | 21.28.04 | -23 54 | 0.573 | 2064 | 35347 | martin to | 27.0 | 3 | . 1 | |
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2821	22 5	408	~22	46	0.453.8	3.21	305	-65.5	16.9	S.	1
2522	22 5	4.47	13	17	0.497	3822	. 5442	-41.5	1747	43	tick 3
2823	22 3	549	. 42.2	57	048332	3.21	10.3	-63+8	1700	3	56
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25254	22 3	640	un 11	22	0.524	3.223	38+2	~60+3	16.0	· da.	1
2526	22 3	603	10 m	69	0.640	2+22	1.00	-66.02	17.04	6	A.A
2527	22 5	700	-36	08	05541	3422	35849		1707	香	Hand -
2228*	22 5	709	ar 2, 2	2.2	0,536	-3×22	785	~55.9	1000	<u>(</u>)	
2529	22 3	2.47	J. 64	02	0#527	2622	2405	四方2.6台。	2702	5	1
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239.3	23 0	4.0	62	0 é	0.805	3.24	82.2	~ 6729	17+5	K	1.50
2332	23 1	4.01	0.2	80	0.509	2. 24	4849	~ 13 3 e ls	18.0	-	3
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2356	28 0	5.3	42.7.7	25	0.934	3025	8.3	-6765	1609	5	and the second
2557	23 0	50%	~17	34.62	0.529	3025	19.1	~ 65 . 7	17.2	5	7
25534	23 0	503	09	32	6,503	3.425	5446	-46.00	1701	. N.	e.
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2563*	23	0643	·m 1 3	04	0.526	2625	2549	-54.66	1342.	15	3.
296余米	23	0769	23	29	0.500	3623	57.8		1761	3	0
2805+	23	0842	19 A. S.		04,93,8	3026	10+2	~60.40	3.各省管	5	0
2366	23	08#3	-21 	and burg	02531	3025	12+0	~67#8	3649	3	1
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236.6+	23	0943	- #23	00	Da533	3*36	7.40	-88.06	1609		.0
2969	6.2	1043	44 2 3 10 1	· · · ·	0.024	3836	2698	**杨华有学	1000		ner .
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2671	23	11.41	-03	04	0.815	3+27	白白白祭	-97.2	1726		. 1
26724	23	11.2	主学	福言	0.497	8427	61.7	~3843	1543	1	3
2973	23.	11:0	NG () 3	1.5	0.818	3427	6448	499.64	17.6	1	1
2874	23	1.3.4.9.	01	病学	04511	3827	50.41	-5346	2768	alla.	2
2373	20	1282	- 27	5.8	0.592	3.427	8.6.5		1789	\$	2
2976	23	12.03	~23	19	0.592 .	3 . 27	7.44	~ 89.64	1745	6	2
2077	100	1342	£ \$ #	de la	588.0	3+27	5.3	一些资源等	2745	1	3 494
2578	25	13.3	403	20	0.816	3427	4248	·**\$\$**\$	2746	No.	e A
2379	23	1345	50 m	22	08532	3#37	10+1	~6903	1701	S	24
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2807	23	1549	w23	2.2	0.630	3328	843	-76-23	2762	14g	1
2988	23	2686	0.0	22	0.506	3.28	57#1	****	17.8	-	1
2889分	22	1687	16	02	0.500	3828	6282	-4106	13.3	199	0
2895	23	1509	01	20	0.512	3428	- 53.84	2462	17+5	1	e. A
2552	25	2.会业分	49 () ()	30	00512	F#28	4847	** 贫豪豪受	27 etc.	\$	5. p.t
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23学级外	23	7143	A	54	06-502	3.6.2.2	6141	m dr B og B	1.5 # 1	5.5	0
2594	23	17#2	97	17	0.507	3428	3646	一些信息资格	37+0	6	and a
25954	23	1743	And A al	30	04538	3428	1 2340		1742	1	6
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25974		1100	and the file	17 A. 7 A.	15600	2048	3689		2646	19 ×	0
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2601	23	1941	dia di Us	14	0.531	3429	3+6	~71+3	1707	- Ø	1
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2606	23	2240	~22	01	0#327	3 . 30	13+2	~71.00	1741	15.4	1
24074	24	2.2 微传	2.0	3.0	0.309	3030	6006	~ 4702	1140	Ø	Q
2408	14	2249.	~22	28	0.527	3:30	1201	一节是安格	17#3	5	2
2609	23	2209	25	营菇.	0.530	2430	358+2	~72,49	27日4	4	1
2410	23	2341	1.6	29	0,002	3630	6433	-41.00	17+6	- As	No.
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2632	23	2342	1.39	50	0.499	3439	66.1	-38,8	3742	5% 1	1
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2613	23	2367	5 [m	65	15630	3630	3346	-5702	2762		17
2614	23	29.43	as 2 2	1. 19	0.824	3 * 30	13.0	+72.00	17.3	64	
2815	23	2844	na 2 44	32	0.527	3630	6 + 8	~72.43	1707	15	14
2616	23	23.09	04	49	0.509	3480	5747	-52.46	1762	51	21
2617	2.2	2640	58	42	0.507	3430	6046	~9.842	17=0	2	2
26186	21.22	2 the Se	22	24	0.499	3431	6843	~ 86 c 8	1509	12	1
2月1日4	23	26.27	24	13	0,000	2432	67.7	+37.3	26.05	S.	0
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2638	23	33*0	se 2.2	100	0.4.5.1.6	3+32	40.40	·*****	1.02	1	hi
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2681	23	49.9	+25	09	0.917	3.34	. 9.7	-78.1	17.9	6	1
2682	23	50 .0	~21	22	GaBIN	3434	2586	-Teas	17.5	6	1
2603*	23	50.1.	with	22	4.587	3634	3.09	78 64	18.9	3	ů.
2684	23	5047	44 2.2	20	Caller	3.34	51.44	~69.7	3705	16	2
2625	23	52.00	1) and 10 100	19	06826	3.434	· · · · · · · · · · · · · · · · · · ·	-70.4	17.9	1	1
2536	23	51.49	~ 22	37	0.515	3.34	25.1	-77.1	16.9	5	4
26874	23	52.7	j.	22	0.908	3434	79:0	-29.7	26+7.	5	1
2600	23	52.07	15	02	.0.610	3 + 34	72.44	-4306	17.5	6	3
2689	23	52.7	-416	33	0.514	3.34	4201	-74-02-	18.0	6	-
~2690*	3.22	52.09	*2\$	57	0.815	3.34	606	~79+0	17.2	3	0.
2691#	23	5369	~03	影响	0.313	3+34	62.43	~6386	16+6	5	0
2692	22	5446	11	1. 15	0.311	. 3.34	7202	~49.44	17.8	6	1
2493	23	5447	- 20	22	0.924	3.434	3200	-77.0	17.5	6	3
2594	1992	55 m 1	07	38	0.831	3.334	7000	-52.9	17:0	5	3
2695	22	55+3	17	37	04911	3.34	7443	-42.09	1707	6	2
2696#	2.2	55.9	00	04	0.512	3 . 34	66+5	-60.1	16.9	2	0
2697	23	5509		55	0.513	3.34	60.3	···· 66 + 5	1742	5	arts .
26.98	23	50.00-	0.3	\$	04512	3034	68.09	-5425	1700	\$	2
之态学习	23	5643	m 2.6	05	0.8518	3634	45.6	-7403	1706	5	12-
2700	23	5644	01	16	0.512	3634	6705	-59.40	.16:0	\vec{e}_{F_i}	2
2701	23	56+0	3 O	24	0.513	3.34	5648	~69.7	17=6	6	1
2702#	.23	5704	30	36	0.611	医血影体	78.49	-30.7	17.1	3	0
2703%	23	5709	. 15		0.911	3+34	74.48	-45.47	1701	5	0
2704	23	58.1	No 7 2	als)	0.8513	3#34	59.47	-72.08	17.7	6	en de
270%	23	5日本等。	13	00	0.6512	3.34	7449	-46+0	17.1		1
2706	23	58.66	10	20	0.512	3 * 34	73+2	~50.5	1702 .	5	1
2707	23	5809	And 9 3	13	0.512	. 3 a 34	36+8	-70.7	17.6	61	19 20
2708	29	59+1	T. L. m	diplig.	0.4512	3634	43*3	-76.00	1704	la	la .
2709	23	\$\$\$\$?		47	0.312	3.34	5704	-70+3	1742	12.2	1
2730	23	5942	uu J (j	22	0.4915	. 3 . 34	物学业的	~ 74 + 8	1742	Ĵ,	1
2731	23	5945	1 24	1.8	0.512	3 . 34	77.0	-37.0.	17.5	-	1
2732	23	5945	ha 🗎 🕄	万章	0.512	3+34	40+2	-76.9	2709	æ.`	1
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PART II

The Distribution of Rich Clusters of Galaxies

J. Selection of Statistical Sample

From the catalogue of rich clusters (Table 6) those clusters were selected which meet the criteria for inclusion in a statistical sample as outlined in detail in section B. To summarize, these criteria are:

(i) The cluster must contain at least fifty members not more than two magnitudes fainter than the third brightest member.

(ii) These fifty members must be included with a radius on the plate of $4.6 \times 10^5 / cd\lambda / \lambda$ mm from the center of the cluster (c in km/sec).

(iii) The cluster must have a redshift (as estimated from the magnitude of its tenth brightest member) in the range from 6000 to 60,000 km/sec.

(iv) The cluster must not be near the galactic equator; specifically, its galactic latitude must be in the range indicated in Table 1.

A total of 1682 clusters were found in Table 6 which meet the above criteria, and these clusters were used in the statistical analysis described in the following sections.

K. Distribution of Clusters According to Richness

The distribution of the 1682 clusters according to their richness classifications is tabulated in Table 7, and illustrated by the

histograms in figures 5 and 6. (Figure 6 is on a logarithmic scale.) The data indicate that the number N(n) of clusters of n members each (not more than two magnitudes fainter than the third brightest member) increases rapidly as n decreases, logN(n) being approximately inversely proportional to n. Furthermore, during the course of the plate inspections, many thousands of clusters and groups of galaxies were recognized which were not catalogued because they obviously were not sufficiently rich to insure their essentially complete identification. Thus neither the statistical sample of clusters nor a subjective impression indicates a maximum in the N(n)-n relation.

Table 7

According to	Richness Classif	ication
Richness Group No.	Number of Clusters N(n)	Logarithm of Number, Log N(n)
1 2 3 4 5	1224 383 68 6 1	3.088 2.583 1.832 0.778 0.000
Total	1682	3.226

Distribution of Rich Clusters of Galaxies

L. Distribution of Clusters According to Distance

The distribution of clusters in depth is assumed here to be equivalent to the distribution of clusters according to the magnitudes of their tenth brightest members, N(m). Since, because of step scale errors, magnitude estimates are not significant to a tenth, the





magnitudes are classified for the purposes of this investigation. Thus N(m) is meant to indicate the number of clusters whose tenth brightest members lie in a magnitude class m. In Table 8 the distribution of clusters with magnitude class is given, if the magnitude classes are taken as the distance groups defined in Table 5, section H. The distribution is also illustrated in the histogram in figure 7. To obtain the distribution with a somewhat finer division of magnitudes the clusters were also grouped into intervals of 0.3 magnitudes for their tenth brightest members, and the corresponding distribution is displayed in the histogram in figure 8.

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Distribution of Clusters with Distance Group

Distance Group	Number Clusters N(m)	Log N(m)
1 2 3 4 5 6	9 2 33 60 657 921	0.954 0.301 1.518 1.778 2.818 2.964

The dashed lines in figures 7 and 8 have the slope 0.6 which would be the slope of log N(m) vs m if the cluster distribution were uniform in depth and if the tenth brightest members of all clusters were of the same absolute magnitude, and if there were no redshift (32). The crosses superimposed on the histogram in figure 7 indicate the computed mean magnitude of the clusters within each distance group. For future reference, those mean magnitudes are listed in Table 9. The values of $cd\lambda/\lambda$ corresponding to those mean magnitudes, as read off the curve in figure 4, are also given in Table 9.



FIGURE 7. LOG N(M) VS N



Table 9

Distance Group	Magnitude	$\frac{d\lambda}{\lambda} \times 10^{-3}$
1	13.76	8.1
2	14.40	11.4
3	15.36	20.0
Ĩ,	15.96	27
5	17.02	42
6	17.64	54
l to L	15.54	21.6

Mean Magnitudes of Clusters Within Each Distance Group

In figures 7 and 8 it is seen that there is some departure of the observed distribution from that of perfect uniformity. It is of interest to determine whether the apparent departure from uniformity persists for all richness groups. Table 10 shows the cluster distribution among distance groups for the various richness groups. These distributions are illustrated graphically in figure 9.

Table 10

Distribution of Clusters by Distance Group and Richness Group

Distance	Richness Group				
Group	1	_2	3	4	5
l	5	4	0	0	0
2	26	0	0	0	0
4	49	9	2	õ	õ
5	517	122	18	0	0
6	625	241	48	6	l

Inspection of Table 10 or figure 9 reveals that the departures from uniformity, especially for the faint magnitudes, are not



important except for richness group 1. In particular, it appears that there are fewer by about a factor of two than the expected number of clusters belonging to distance group 6 and richness group 1. However, there is not a particular shortage of faint clusters in the other richness groups. Because the distribution function N(m) is, in principle, an important test of various cosmological models (33) it is important to investigate whether or not the observed departure from uniformity is really significant.

There are several possible explanations for the shortage of faint clusters in richness group 1, aside from those of cosmological significance. Firstly, it is possible that the identification of faint clusters of that richness on the Sky Survey plates was incomplete. In view of the precautions taken to avoid such incompleteness, however (see sections B and F), it would seem incredible that half or so of the clusters under consideration would have been missed. A second possibility is that interstellar obscuration dims many faint clusters sufficiently so that less than two magnitudes beyond their third brightest members are visible on the plates. Cne would expect such an effect to reduce the number of faint clusters in other richness groups as well. However, the numbers of clusters in richness groups 2 to 5 are comparatively smaller, and figures concerning these groups have less statistical significance. Furthermore, the form of the distribution function of clusters according to richness, N(n) (figure 5), is such that a relatively larger percentage of the clusters in richness group 1 occurs near the lower boundary of the group interval and would appear, because

of obscuration, to belong to a lower group than is the case for the other richness groups.

Two further possible explanations for the shortage of faint clusters are the possibility of intergalactic obscuration, and the possibility of a large scale nonrandom distribution of cluster centers, in the latter which case one would not expect that a survey to a limited depth in space would reveal a perfect uniformity in cluster distribution.

Irregular galactic obscuration produces an obvious effect on the cluster distribution (next section). Furthermore, in several later sections evidence is presented that the cluster centers are, indeed, not randomly distributed in space. Therefore, it is considered that no particular significance can be placed upon the apparent shortage of distant clusters. Within the accuracy and sensitivity of the present observational data, there is no evidence that the distribution of matter with depth in space departs radically from uniformity.

M. Effect of Galactic Obscuration

The surface distribution of all clusters in the catalogue (Table 6) which belong in distance groups 1 to 6 inclusive and richness groups 1 to 5 inclusive, is displayed in figure 10. A dotted line irregularly outlining the Milky Way indicates the region of the sky in which clusters are not included in the statistical sample. The solid line indicates the circle of declination $\delta = -27^{\circ}$ below which the Palomar Sky Survey does not reach.



FIGURE 10. CLUSTER DISTRIBUTION

Two effects of galactic obscuration are apparent in figure 10. The gradual thinning of clusters as lower galactic latitudes are approached is the expected result from the plane parallel model of galactic obscuration. In addition, the significant shortage of clusters in the north galactic hemisphere around galactic longitude 300[°] indicates the presence of considerable galactic obscuration at high latitudes. In the same region Shane and Wirtanen (34) have obtained low galaxy counts, and various radio surveys (35) have also revealed relatively high radio emission. Both of these observations indicate the presence of interstellar material.

The variation of the areal density of cluster centers with galactic latitude is displayed in Table 11. The logarithms of the numbers of cluster centers per square degree are entered in the table. The effect of galactic obscuration is to hide clusters, especially the more distant ones, and to an increasing degree as the line of sight approaches the galactic equator. In no field north of $b = +40^{\circ}$ or south of $b = -40^{\circ}$ was the obscuration apparent from the appearance of the survey plate.

To investigate quantitatively the variation of the areal density of cluster centers of different groups with galactic longitude, counts were made of the numbers of cluster centers of distance groups 5 and 6 north of b = $\pm 40^{\circ}$ and south of b = $\pm 40^{\circ}$ and in strips of galactic longitude 20° wide. The results are illustrated in figure 11. The obscuration of faint clusters in the region around longitude 300° is very apparent.

To obtain an estimate of the amount of obscuration in the longitude



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Table 11

	Dis	tance Group		
<u>b</u>	1 and 2	3 4	5	6
+80° to +90° +70 +80 +60 +70 +50 +60 +40 +50	-2.50 - -2.67 - -2.88 - - ∞ - -2.71 -	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	-1.38 -1.21 -1.15 -1.27 -1.46	-0.87 -1.15 -1.13 -1.26 -1.28
-40° to -50° -50 -60 -60 -70 -70 -80 -80 -90	-3.11 - - ∞ - - ∞ - - ∞ -	2.80 -2.33 3.01 -2.41 2.40 -2.28 2.67 -2.37 2.20 - ∞	-1.42 -1.50 -1.09 -1.22 -1.24	-1.20 -1.15 -1.17 -0.90 -1.12

Density of Cluster Centers (Logarithm of Number per Square Degree) as a Function of Galactic Latitude and Distance Group

zone around 300° as compared with the less obscured areas of the sky, the distribution function N(m) was determined separately for clusters in the longitude ranges 100° to 180° and 260° to 340° , and in both cases, north of b = $+40^{\circ}$. Log N(m) vs m (m being the mean magnitude of a distance group, given in Table 9) is plotted for both longitude zones in figure 12. The solid lines are the least squares fits of the lines log N(m) = constant + 0.6m to the two sets of plotted points. The two lines are displaced with respect to each other by about 0.6 magnitudes. Although the numbers involved are too small to place much statistical significance to this value, the data do suggest galactic obscuration around longitude 300° and extending well north of latitude $+40^{\circ}$ of the order of a few tenths of a magnitude (in the photored) more than in comparable latitudes halfway around the sky.



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N. Distribution of Clusters in Direction in Space

Figure 10 shows the surface distribution of cluster centers of all groups used in the statistical sample. The plot is in galactic coordinates on an Aitoff Equal Area Projection of the sphere. It is noted that there are certain areas of the sky comparatively sparse in clusters, an effect which can be attributed to galactic obscuration, as discussed in the last section. In addition, however, there appears to be a relatively small scale clumpiness in the distribution of clusters which suggests that the clusters themselves may be clustered.

Shane and Wirtanen (34) have indicated several clouds of clusters of galaxies that appear to be second-order clusters on the Lick plates. On the other hand, Zwicky, who has investigated the distribution of clusters in certain areas in the sky, has also discussed this possibility of second-order clustering of galaxies. His conclusions have been stated (36):

"The statistical investigation of the distribution of cluster centers shows that there is no systematic clustering of clusters. Any apparent superclusters such as those in Corona Borealis and in Perseus-Pisces must be considered accidental in the sense of being expected in the proper frequency in a random distribution of noninteracting objects."

It is appropriate, therefore, to investigate the actual distribution of clusters in the present sample. The procedure adopted was to superpose a rectangular grid over the Aitoff plot (figure 10) and to count the number of cluster centers in square grid cells in order to determine the distribution N(t) of cells containing t clusters each. There is a source of error in this technique which might be of importance. Owing to the nature of the Aitoff projection, the area of the sky included in each grid cell is the same. However, although areas are preserved in the projection, linear dimensions are not. A cell near the center of the chart will cover a more or less square area in the sky, but near the edge of the chart a square cell covers an elongated area of the sky. In the extreme cases, the elongation is approximately a factor of two. If the distribution of cluster centers were strictly random, the shape of the cells would make no difference in the counted distribution. On the other hand, Neyman, Scott, and Shane have investigated the matter with galaxy counts on the 20-inch astrographic plates made at the Lick Observatory, and found that the details of a nonrandom distribution do depend upon the shape of the cells.

For several reasons this source of error is not considered important in the present investigation. The elongation of the cells is appreciable only in a relatively small fraction of the sky, and in the worst cases it reaches only a factor of two. Neyman, Scott, and Shane find that the distribution of galaxies on the Lick plates is not seriously affected by this moderate amount of cell elongation, and furthermore, the distribution is changed in the direction of appearing <u>more random</u> with elongated cells. One can intuitively understand this result for the case where the "clumps" of galaxies appear to have circular symmetry on the plates. Then elongated cells would tend to include galaxies from a larger number of such clumps, and the nonuniformities in the distribution would be slightly smoothed out. In the case under consideration of clusters of galaxies, if the distribution is completely random the cell shapes do not matter; if the distribution is nonrandom, the nonrandomness will be underestimated by the inclusion of some elongated cells. Thus any estimate of the degree of nonrandomness will be a conservative one.

The Aitoff charts used were projected from a sphere 10 cm in radius. The cell size used for the counts on figure 10 was one quarter inch squared, which corresponds to 13.2 square degrees in the sky. The counted distribution is shown in the upper histogram on figure 13. Also shown (dashed histogram) is the Poisson distribution,

$$P(t) = \frac{e^{-m}m^{t}}{t!}, \qquad (11)$$

which would be expected for a random distribution of noninteracting objects. Here the mean number of clusters per cell, m, was computed from the sample. The upper half of figure 13 exhibits the distribution of clusters over the entire part of the sky covered by the statistical sample, that is where the cluster identification was considered complete. However, owing to the obvious presence of obscuration up to at least $b = +60^{\circ}$, the cluster distribution was also determined for the part of the sky north of latitude $+60^{\circ}$ and south of -60° . The corresponding observed and theoretical random distributions are shown in the lower half of figure 13.

It is now necessary to compute the probability that cluster centers are really randomly distributed, that is the probability that the observed frequencies (solid histograms in figure 13) would be



FIGURE 13. NO. CELLS N(T) WITH T CLUSTERS EACH

obtained in a random sampling from a population with the specified theoretical frequencies of a Poisson distribution (dashed histograms in figure 13).

The statistic χ^2 (chi squared) defined by

$$\chi^{2} = \sum_{i=1}^{k} \frac{(o_{i} - e_{i})^{2}}{e_{i}}$$
(15)

is widely used for testing the compatibility of k pairs of observed and theoretical frequencies, where o_i and e_i are the observed and theoretical frequencies, and $\sum_{i} o_i = \sum_{i} e_i = n$ the total population. If the o_i are always obtained from a random sampling from a population with specified theoretical frequencies e_i it can be shown (37,38) that for large samples a close approximation to the distribution function of χ^2 is given by

$$f(\chi^{2}) = \frac{1}{2^{\frac{1}{2}} \left(\chi^{2} \right)^{\frac{1}{2}}} \left(\chi^{2} \right)^{\frac{1}{2}} e^{\frac{\chi^{2}}{2}}, \qquad (16)$$

where \vee is the number of degrees of freedom. \vee is equal to the number of pairs k of frequencies to be compared, diminished by the number of independent linear restrictions placed upon the observed frequencies o_i. In the present problem there are k-2 degrees of freedom.^{*} Theoretical investigations (39) indicate that equation 16 is a satisfactory approximation to the distribution function of χ^2 when k and all of the e, are equal to or greater than 5. If k is less

^{*}The first restriction is that only k-l of the pairs of frequencies are independent. The second is that the mean of the Poisson distribution is estimated from the sample.

than 5, e, should be somewhat larger.

The probability that the observed distribution of clusters is random is approximately the probability that the value of χ^2 computed from equation 15 will be obtained from a random sampling from a population with a Poisson distribution, that is,

$$P(\chi^2) = \int_{\chi^2}^{\infty} f(x) dx . \qquad (17)$$

The results of the test for randomness are summarized in Table 12. They indicate that whether one considers the entire area of the sample or just the galactic polar caps, the observed distribution of cluster centers is highly significantly nonrandom.

Table 12

The Probability that the Observed Clusters of Galaxies Form a Random Sampling from a Population Distributed According to a Poisson Law

Area of Sky	χ^2	Degrees of Freedom	$P(\chi^2)$
Entire Area	295.7	5	10-61
b≥60°	63.2	24	10-12

The nature of the distribution of cluster centers may depend strongly upon the size of the cells in which clusters are counted. For example, if the cells are made sufficiently small (and therefore numerous) the observed distribution can always be made to approach a random one. In the limiting case, there would be just 1682 cells containing one cluster center each, and an infinite number of cells containing no clusters. This would be exactly the Poisson distribution for the case n = 1682 and m approaching zero. On the other hand, as the size of the cells is increased until they are large compared with the scale of the "clumpiness" of the distribution, the irregularities tend to become smoothed out, and again the frequency distribution begins to appear random. If there exists a preferred size of the "clumps" of clusters, one would expect a maximum departure from randomness to occur when the size of the cells in which the counts are made corresponds roughly to the mean size of the clumps.

To determine whether such a mean size for the clumps exists, it was desirable to repeat the counts using various cell sizes. However, in the event that the clumpiness in the observed distribution of clusters is a consequence of a physical parameter in the distribution, such a parameter might be expected to impose a preferred linear dimension on the cluster clumps. In particular, such a linear dimension might be related to the mean diameter of second-order clusters of galaxies, if, indeed, they exist. Therefore, in subsequent investigations of the cluster distribution the clusters were sorted into distance groups, and each distance group was studied separately. Figures 14, 15, and 16 exhibit respectively the distributions of clusters in groups 1 to 4, group 5, and group 6. The original plots are on Aitoff charts similar to figure 10, and counts were made in **re**ctangular grid cells superposed on the charts, as in the previous case.

As before, the probability was computed that each observed distribution could be a random sampling from a population distributed

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FIGURE 15. CLUSTER DISTRIBUTION




with a Poisson law, using the χ^2 distribution function (equation 16). For distance groups 5 and 6 the distribution was investigated over the whole area of the sample, and also over the regions $|b| \ge 60^{\circ}$. The group 1 to 4 combination, however, contained too small a sample to obtain a meaningful distribution function in the galactic polar caps alone. The results are given in Tables 13 and 14, and in figures 17 to 21.

Table 13

Log P(χ^2), the Logarithms of the Probabilities that the Observed Distributions are Random for the Entire Area of the Sample

cell size: cm square deg	0.500	0.635 13.2	1.000 32.8	1.270 52.8	1.500 73.8	1.905 	2.000 <u>131</u>	2.500 205
Group 6 5 1 to 4	-32.0 -17.8	-37.1 -28.3	-38.7 -20.5 -1.15	-34.2 -23.6	-27.8 -27.4 -1.30	-13.6 -11.7	-10.1 -10.4 -0.672	-0.347

Table 14

Log P(χ^2), the Logarithms of the Probabilities that the Observed Distributions are Random for the Areas $|b| \ge 60^{\circ}$

cell size: cm square deg	0.500	0.635 13.2	1.000 32.8	1.270 52.8	1.500 73.8	1.905 	2.000 <u>131</u>
Group 6	- 8.2	-15.0	- 8.7	- 2.4	- 2.4	- 2.2	- 2.1
5	- 4.7	- 6.8	- 6.3	- 8.4	- 4.1	- 0.4	- 2.1

The data in Tables 13 and 14 are plotted in figures 22 and 23. It is seen that the negative logarithms of the probabilities that the cluster distributions are random have a maximum for each distance











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group. The maximum is especially well developed for group 6, and also for the combined groups 1 to 4, although because of the small sample size the nonrandomness in the distribution of the nearer groups is only slightly significant (about at the 5 per cent level). In any case, for each group there seems to be a mean linear dimension which corresponds to the scale of the clumpiness. In Table 15 are listed the cell sizes corresponding to the maxima indicated in figures 22 and 23, and also the redshift corresponding to each distance group (from Table 9). In figure 24 the redshifts are plotted against the reciprocals of the cell sizes of maximum nonrandomness.

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Cell Sizes Corresponding to Maxima of Log $P(\chi^2)$

Group	cdl/l x10-3	Cell <u>(sq.</u> Entire Area	Area deg) b ≥60 ⁰	Cell (d Entire Area	Diam. leg) /b ≥60°	l/Diam. (mean) (deg)
6 5 1 to 4	51 39 20.5	24•3 40 60	20 36	4.93 6.33 7.75	4.47 6.00	0.213 0.162 0.129

In figure 24, except for the point corresponding to groups 1 to 4 which is the least reliable owing to the smaller sample size, it is apparent that the angular sizes of the clumps are approximately inversely proportional to the distances of the groups. The result is the expected one if it is assumed that the clumps of clusters tend to have more of less the same size everywhere in space. The clump size corresponding to H = $180 \text{ km/sec} \cdot 10^6 \text{pc}$ would be about $24 \times 10^6 \text{pc}$. The result strongly suggests the existence of second-



order clusters, that is clusters of clusters of galaxies. A visual inspection of figures 10, 1/4, 15, and 16 leads to the same conclusion, although less objectively.

The observed nonrandom distribution of clusters can not be accounted for by the assumption of either galactic or intergalactic obscuration. If, for example, the apparent second-order clusters of group 5 were really portions of a random distribution of clusters seen through holes in either galactic or intergalactic absorbing material, one would also expect to find clusters of group 6 appearing through those same holes, but certainly not between them. However, inspection of figure 10 shows many apparent groupings of clusters in group 6 in regions comparatively sparse in group 5 clusters, and conversely. If transparent regions in an absorbing medium permitted the observation of distant clusters but nearer clusters were absent, again a clumpy distribution of nearer clusters would be implied.

The above argument is not intended as disproof of the existence of intergalactic obscuration. Such obscuration may well be present, particularly, as Zwicky suggests (13), within certain rich clusters. The possibility was not one of the topics of investigation in the present study, and nothing can be said here regarding it. The conclusion here is simply that the assumption of dark material in intergalactic space is not sufficient to account for the observed nonrandom distribution of cluster centers, and therefore, that the observed clumpiness must indicate a real tendency toward second-order clustering of galaxies.

It is of interest to compare either figure 10 or figure 14 with

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figures 12 to 16 in reference 34, in which Shane and Wirtanen identify six clouds of galaxies which they suspect to be second-order clusters. In three of the cases the Shane-Wirtanen clouds (numbers 4, 5, and 6) correspond to apparent groupings of two or more clusters in the present catalogue. Two of their other examples (numbers 2 and 3) correspond to a single cluster in this catalogue. The other Shane-Wirtanen clusters in the six clouds are apparently not rich enough for inclusion in the statistical sample.

One further test was made, namely whether the mean surface density of cluster centers differs between the northern and southern galactic hemispheres. Clusters in each distance group were counted both over the entire area of the sample and within only 30° of the galactic poles. The assumption that the mean areal density of clusters is the same in both hemispheres was then checked with a χ^2 test. Table 16 gives the computed probability for each case that the assumption is correct. In no case is the probability less than 10 per cent; adopting a 5 per cent significance level, it is concluded that their is no significant difference in the density of clusters in the two galactic hemispheres. Thus there is no reason to assume that there are more clusters on one side of the galactic plane than on the other.

Table 16

Probability that the Mean Areal Density of Cluster Centers is the Same in the Northern and Southern Galactic Hemispheres

Group	<u>1 to 4</u>	5	6	All Groups
Entire Sample	0.2	0.1	0.6	0.1
bl≥60°	ones tanta conte	0.6	0.4	0.9

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0. The Index of Clumpiness

Zwicky (13) has studied the empirical quantity k(z,n) defined by

$$k(z,n) = \frac{S_1}{S_0}$$
, (18)

where S_1^2 is the sample variance of the observed distribution of n galaxies in a given solid angle divided into z equal parts or cells, and S_0^2 is the variance to be expected if the n galaxies are distributed uniformly and independently among the z cells.

Neyman, Scott, and Shane (7) have investigated an analogous quantity which they call the "index of clumpiness", K, defined as

$$K = \frac{\sigma_1}{\sigma_0} , \qquad (19)$$

where O_{1}^{2} is the true variance of a theoretical distribution of n galaxies among z cells, computed on the assumption of no intervening interstellar or intergalactic absorbing clouds, and on the assumption that all galaxies are clustered, and O_{0}^{2} is the variance of the same n galaxies distributed singly, independently from one another, and with statistical uniformity. K differs from Zwicky's k(z,n), as the authors point out, in that n is a random variable and hence k(z,n) is subject to random fluctuations. k(z,n) would be obtained in a random sampling from a population with a true index of clumpiness K. More specifically (7),

"....if S_1^2 and S_0^2 are computed for many different but equal solid angles Ω in randomly selected directions, always with the same substantial number z of parts, then the average

values of the S_0^2 and S_0^2 so obtained will be approximately equal to σ_1^2 and σ_1^2 ."

In an early paper by Neyman and Scott (4), a probability generating function is derived for the assumption that all galaxies are clustered and that the cluster centers are distributed according to a Poisson law (see section B). In the paper under discussion by Neyman, Scott, and Shane (7), the probability generating function is used to derive an expression for K. The the authors derive the following two theorems (numbered from their paper):

"Theorem 3.--If the probability density...governing the internal structure of clusters is continuous, then, whenever the solid angle $\omega \left[=\Omega/z\right]$ in which galaxies are counted tends to zero, the index of clumpiness K converges to unity.

"Theorem 4.--The square of the index of clumpiness, $K^2(s)$, corresponding to a rectangular solid angle $2\alpha_1 \ge 2\alpha_2$ is a nondecreasing function of s..."

The authors also show that if both dimensions of the solid angle are increased, K^2 will also grow.

These theorems, which are quite general imply that if all galaxies are clustered, and if there is no obscuring interstellar or intergalactic matter, then $k^2(z,n)$ will statistically be a nondecreasing function of the area of the cells in which galaxies are counted. Counts of galaxies made both by Shane and Wirtanen (7) at Lick and by Zwicky (13) give values of $k^2(z,n)$ which increase with increasing cell size, compatible with the assumption of complete clustering.^{*}

^{*}Zwicky originally considered the increase of k(z,n) with cell size to be evidence of intergalactic obscuration. Neyman, Scott, and Shane, however, showed that there was no necessity for the hypothesis of absorbing clouds.

The foregoing discussion refers to the distribution of individual galaxies. However, exactly the same theory applies to the analogous distribution of clusters of galaxies. Thus if one considers the hypothesis that all clusters of galaxies are members of second-order clusters, and that the second-order clusters are distributed according to a Poisson law, the square of the index of clumpiness, defined analogously to equation 19, will be a nondecreasing function of the area of the cells in which clusters are counted.

The statistic k(z,n) defined analogously to equation 18, with the variance of the Poisson distribution S_0^2 [equal to the mean of the Poisson distribution (40)] estimated as the mean of the sample, was computed for distance groups 5 and 6, both for the whole area of the sample and for the galactic polar caps, and for the combined groups 1 to 4 for the whole sample area. The resulting values of $k^2(z,n)$ are given in Tables 17 and 18. The plots of $k^2(z,n)$ vs the cell size are in figures 25 and 26.

Table 17

The Square Empirical Index of Clumpiness for Clusters, $k^2({\tt z},n) -- {\tt Entire}$ Sample Area

Cell Size (Sq.deg)	Groups 1-4	Group 5	Group 6
8.2		1.51	1.73
13.2		1.45	1.78
32.8	1.38	2.54	2.64
52.8		2.41	2.10
73.8	1.50	3.08	3.00
119		2.21	2.89
131	1.39	3.87	3.28
205	1.47		





FIGURE 26. SQUARE INDEX OF CLUMPINESS

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Table 18

The Square Empirical Index of Clumpiness for Clusters k²(z,n) |b≱60°

Cell Size (Sq. deg)	Group 5	Group 6
8.2	1.71	1.65
32.8	3.18	2.36
52.8	2.95	2.03
119 131	2.01 3.27	2.27 2.84

Although there is considerable scatter about a smooth curve, which is expected for a sample of this size, there is no evidence of a maximum of $k^2(z,n)$ in any of the cases. Thus on the basis of this test the observed distribution of cluster centers is compatible with the assumption of total clustering of clusters of galaxies.

P. Correlation Coefficient of Counts

An attempt was made to determine the correlation coefficient of counts in different directions for distance groups 5 and 6. Only the region of the sky north of galactic latitude $+40^{\circ}$ was considered. The procedure was to divide the region into zones of galactic latitude five degrees wide. Each zone was then divided into an integral number of cells with centers as nearly as possible five degrees apart. There was a total of 296 cells in the region investigated, all with approximately the same area, 25 square degrees. In the region 462 clusters of group 6 were included and 362 of group 5.

It was desired to find the correlation coefficient, $/(\Theta)$,

between counts in cells Θ degrees apart, defined by

$$\left[\begin{array}{c} (\theta) = \frac{(n_{i} - m)(n_{i} - m)}{\frac{n_{i}^{2}}{n_{i}}} \end{array} \right], \qquad (20)$$

where n_i and $n_{i\Theta}$ are respective counts in two different cells Θ degrees apart, and m is the mean number of clusters per cell for the distance group considered. If no second-order clustering exists, and if there is no interstellar nor intergalactic obscuration, one would expect no correlation between counts in different cells, and

$$[(\Theta) = \delta(\Theta) ,$$
 (21)

where $\delta(\theta)$ is the delta function which is unity when $\theta = 0$, and zero otherwise. However, if second-order clustering does exist $\int (\theta)$ would have the value unity when $\theta = 0$ and would decrease gradually with increasing θ , the rate of decrease being determined by the angular dimensions of the second-order clusters. General large scale obscuration, if present, might introduce some correlation in the counts in cells some distance apart, so that $\int (\theta)$ might not reach zero even for fairly large values of θ .

An estimate of the correlation coefficient was obtained as follows: Values of n_i -m for all of the cells in each latitude zone were obtained and listed on each of two strips of paper. The products $(n_i-m)(n_{i0}-m)$ for $\theta = 5$, 10, 15... degrees were conveniently computed by displacing the two strips of paper for each latitude zone by 1, 2, 3... cells, and multiplying adjacent numbers together. All of the products from all of the latitude zones were then averaged for each value of θ and divided by $\overline{n_i^2}$ to obtain $\int (\theta)$. The procedure is essentially that described by Limber (9), except that no corrections needed to be made for end point effects, for the products could be obtained in a complete circle along a latitude zone, and consequently there were no ends.

The resulting estimates of the correlation coefficient are given in Table 19 and are plotted in figure 27. The correlation coefficient for group 6 seems to approach a lower limit as θ is increased, at least over the range of θ considered. This is probably the result of the general galactic obscuration discussed in section M. Otherwise the correlation coefficients decline more or less gradually, consistently with the assumption of second-order clustering. Unfortunately however, the size of the cells counted was too large to determine the form of $\int (\theta)$ significantly. It appears (see figure 27) that $\bigcap (\Theta)$ declines more gradually for group 5 than for group 6, which is expected since second-order clusters in group 5 would be nearer. However, the conclusion is based on only one or two points, and the expected error of these points (judging from the scatter about a smooth curve) is as great as the observed effect.

Table 19

Correlation Coefficient $\Gamma(\theta)$ of Counts in Cells θ Degrees Apart

θ		<u>5</u> °	_10 ⁰	<u> 15° </u>	20 ⁰	<u>25°</u>	<u> </u>
Group	5	0.278	0.171	-0.010	-0.036		
Group	6	0.246	0.134	0.117	0.133	0.255	0.151





COEFFICIENT

It would be highly desirable to repeat the computation of correlation coefficients with a finer cell division, say 2 degrees square. Unfortunately, the computations involved are too laborious to be completed in the time available for the present investigation; the project will probably be feasible only with an electronic computer.

Q. Summary

The results of the foregoing sections can be summarized briefly as follows:

(1) The distribution function of clusters according to richness, N(n) decreases rapidly as n increases. The present data indicate no maximum in N(n), that is, no mean number of galaxies (not more than two magnitudes fainter than the third brightest member) is indicated for clusters with fifty members or more.

(2) The data allow no significant conclusion that the spatial density of cluster centers varies with distance.

(3) Galactic obscuration certainly plays a role in the observed distribution of clusters of galaxies. In particular, around galactic longitude 300° and extending in the northern galactic hemisphere to at least latitude $+60^{\circ}$ there exists galactic absorption of the order of several tenths of a magnitude (photored) greater than at corresponding latitudes around longitude 100° .

(4) There is a highly significant nonrandom distribution of cluster centers in direction. The scale of the clumpiness of the distribution varies roughly inversely proportionally with distance.

The nonrandomness can not be accounted for by either interstellar or intergalactic obscuration, although the existence of intergalactic obscuration is not specifically disproved. The data suggest strongly the existence of second-order clusters, or clusters of clusters of galaxies.

(5) There is no significant difference in the mean density of cluster centers between the northern and southern galactic hemispheres.

(6) The square of the index of clumpiness, defined as the ratio of the variances of the observed distribution to a purely random one, is approximately a nondecreasing function of the size of the cells in which clusters are counted, a result compatible with, although not confirming, the assumption that all clusters belong to second-order clusters.

(7) Estimates of the correlation coefficients of counts of clusters in cells in different directions give weak support to the assumption of the existence of second-order clusters. Unfortunately the cell division used in computing correlation coefficients was not sufficiently fine to give results of high statistical significance.

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