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Yellow Sea & East China Sea Bibliography

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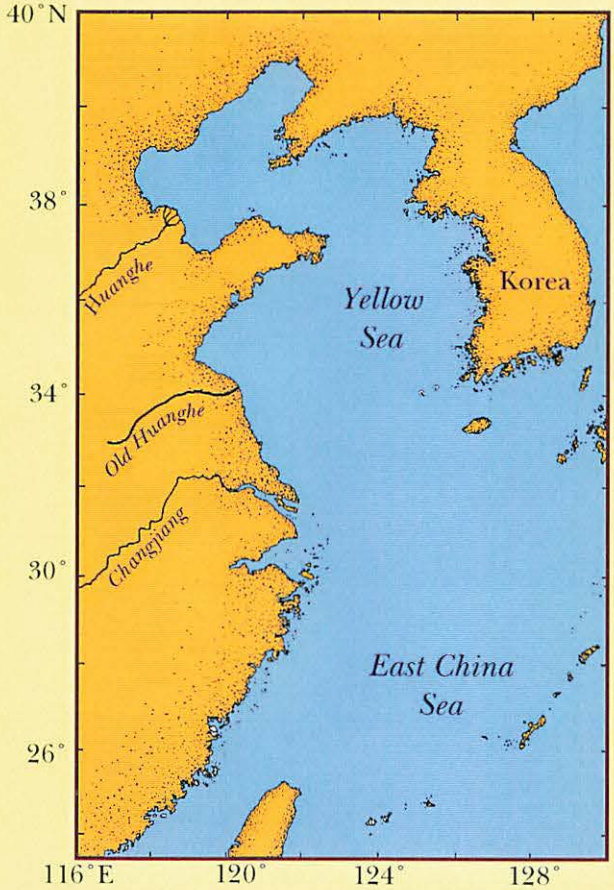

YELLOW SEA & EAST CHINA SEA BIBLIOGRAPHY

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Please Note: This bibliography, prepared for the Naval Oceanographic Office, contains 1581 references on both the Yellow Sea and the East China Sea. References were acquired from published articles, literature searches performed on over 10 different databases, and consultations with members of the international scientific community knowledgeable about the study areas, such as Yoshi Saito at the Geological Survey of Japan. Cited references are primarily presented in the following format:

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are the sediment distribution, water medium environment, hydrodynamic condition and biological process. (3) *226*Ra contributed by the chemical and biological processes is not dominant in shelf sediemnts, whereas that derived from adsorption by clay minerals and iron-manganese hydroxides and from biological processes in the trough is. It is this mechanism that leads to the presence of the "excess" *226*Ra. (4) We have studied 2 sediment cores from the nearshore region. *226*Ra geochronology was used to estimate the rate of sedimentation. The average sedimentation rate is calculated to be 30 cm per 1000 years. It is very similar to that determined by other methods.>
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downstream of the tidal barrier; but after adoption of the measure of agitation dredging the silt concentration of ebb tide becomes greater than that of flood tide. This has rendered the survival of the silted tidal barrier on Douhe River, and the reduction of the cost of agitation dredging by 90% or more as compared with dredger dredging. This paper analyses the behaviour of tidal flow in a short channel downstream of the tidal barrier and presents the approximate equations of tide level, tide velocity and discharge. By these equations the variation of tide velocity and shear velocity along the channel downstream of a tidal barrier is calculated for judging the deposition and erosion characteristics of sediment-laden tidal flow. On the basis of analysing the observed data and the behaviour of sediment-laden tidal flow, this paper shows that with a tidal barrier in closed condition, the existence of a deposition reach in the downstream channel, the deformation of tidal wave due to the construction of a tidal barrier, and the nonequilibrium of sediment transportation during flood and ebb tides are the factors contributing to the deposition of the channel.>

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temperature, water temperature, salinity and pH declined during the El Nino yrs to their lowest levels. These characteristics appear to be somehow related to the earlier coming of the rainy season, the more than usual rainfall, and the obvious increase of runoffs to the sea in 1983, the strong cold air invading the SCS from December 1982 to January-March 1983, and the strong Subtropical High which led to lower temperatures and rainy weather in the northern SCS. The frequent intrusion of cold air was the main reason for the lower atmospheric and sea water temperature in the northern SCS. Lasting rainy weather increased river runoff sharply, resulting in minimum salinity and pH values. Further analysis of the data in the thermoclines, haloclines and pycnoclines: In the El Nino yrs of 1976 and 1982. The average position of the flow axis of the Kuroshio branch in the SCS, and the average position of the flow position in 1982. It is notable that these movements in the strong El Nino yrs of 1982-1983 were similar to the southward movement of the Intertropical Conbergence Zone. It was, therefore, concluded that the strong El Nino in the East Pacific was closely related to these periodic abnormalities.>
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tidal current being the chief factor controlling the development and the change of these sand cays. The regional tide and tidal current are of semidiurnal nature, of which the lunar semi-diurnal tide being the most distinctive and controlling factor for this sand cay group. Sand cays south of Jiangjiasha are directly influenced by the tidal wave of M, component tide in the Pacific. Tidal movement being in the direction of SE-NW, for which the northbound current and the diluent water from Changjiang River (Yangtze River) played a great role. Sand cays north of Jiangjiasha are without the influence of tidal movement, their direction being NE-SW, for which the southbound wind current played a part. These two differently oriented tidal wave and wind current converge in the Jianggang bay, making greater the tidal rariation and the water level, greater the velocity of flooding tide than that of the receding tide, shoreter the duration of flooding and longer the duration of receding. Consequently the sand cays also converge toward the Jianggang bay, forming a group of sand bars parallel to the direction of tidal current. The underwater topography in turn intensified the actions of tidal current and residual current. As a result of this inter-action, the sand cays gradually converge toward the shore and become adjacent to the shore beach.>

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shrinking of the cross-section of the inlet relates mainly to the reducing of tide prism. Suggestions on the harnessing of the Jieshi Lagoon mouth are presented.>
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<On the basis of our study of the present sediments in the northern part of the continental shelf of the South China Sea, this article clarifies our views that "three-zone pattern" is the basic feature of transgression-type sedimentation. The classification of transgression-

type sedimentation of the present continental shelf is based on the close relationships between the formation of the present continental shelf and the position of the low sea level of Wurm galacial stage, the genetic types and enviromnental features of sedimentary zoning, and that between the formation of glauconite with different maturity and the migration of coastline, the speed of transgression, and the overlying speed of sedimentation. We put forward the genetic name of the "three-zone pattern" to denote: 1) The internal zone, river mouth-coastal current sedimentary area; 2) The intermediate zone, coastal current-sea current scouring-sedimentary area; 3) The external zone, sea current scouring area. All this is of significance to the study of fossil marine strata.>
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<The dynamic interaction of bathymetry and hydrography on the continental shelves of Korea Peninsular produces a complex pattern of Holocene sediment distribution and types. Basically, the Korean inner and inner-outer shelves consists of a broad seaward epicontinental shelf sea dominated by macrotidal or mesotidal regime and narrow shelf sea dominated by wave regime. This gives rise to a classification of Korean shelves into; the Yellow Sea and South Sea shelves of Korea-tide dominated and the East Sea shelf-wave dominated. The Korean shelf seas and coastline are the product of the post-Pleistocene Flandrian transgression. During the maximum advance of the Wisconsin glaciers, the entire continental shelf of Korea was exposed. As the glaciers retreated and water was returned to the oceans, the shelf was flooded progressively by the transgressing seas. As far as I am concerned, no other event had as much influence on the present shelf and coastline of the Korea

Peninsula as this transgression. There have been no significant structural movements, and no evidence for either rebound or subsidence was noted. Furthermore, it is also considered that the history or evolution of the present Holocene shelf and coastline of the Korea Peninsula is one of progressive flooding of a stable platform. However, the details of the coastal and/or inner shelf area, such as estuary, bay, delta, and tidal flat, are the results of local conditions, geology of the source areas, and the hydrographic regime. The distribution of grain sizes of recent sediments on the tide-dominated broad continental shelf of the Yellow Sea and South Sea is complex, being dependent upon positions with respect to tidal current paths. Sand bodies, which are Holocene and attributed to tidal circulation are common to wide continental shelf of the Yellow Sea of Korea. As one of these tidal sandbodies, the Odanam-satae located off the southwest coast can be interpreted in terms of Holocene sedimentary processes. The nature of Holocene sedimentary processes and facies developments on the continental shelf off the southeast coasts of Korea has been investigated. The most significant sedimentary facies pattern is that fine-grained sediments (modern sediments) are restricted to nearshore-inner contiental shlef showing a band paralleling with coastal features. On the other hand, the Holocene transgression did little to alter the distribution of relict sands on the outer shelf in the particular area. Probably the most pronounced effect of the Holocene transgression was sorting of the sand, and at least partial winnowing out of the finer fractions.>
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<We investigated twice suspended matter of the sea water of the Bohai Gulf in different seasons from 1958-1962. About 600 water samples were collected using a reversed water bottle (1 l in volume). The samples

were filtered, dried and weighted separately. The content of the suspended matter was calculated by mg/l, and horizontal and vertical distribution figures of concentration were plotted. Parts of the samples were burnes at 500 C and the residues of noncombutible components were weighted again after the burning, and the weights lost would be the weights of organic matters. Other parts of the samples were identified by optical microscope. Inaddition, we analyzed chemical components of the suspended matter by spectrum. / The highest concentration of the suspended matter is this region occurs near the river mouth, and the concentations are comparatively low with an average of 60 mg/l in other areas. Near the mouths of the Huanghe and Liaohe the concentrations exceed 150 mg/l, but they decrease sharply off the mouths. / The comparison of average concentrations of different areas of the Bohai Gulf indicates that the highest occurs in the Bohai Bay, amounting to 45 mg/l; Liaodong and Laizhou Bays come next, amounting to 30 mg/l; central part and the strait of Bohai Gulf rand the third. / The data obtained in April, July and October from 1958-1962 demonstrate that the concentration for April is higher than that for July and for October, because of the influence of storm. / At the mouth of the Huanghe the veritcal distribution gradient of the concentration of suspended matter then was very steep. The bottom concentration was so high that it formed a tongue extending over 20 km towards the northwest. / The components of suspended matters of the Bohai Gulf are different from those of the ocean. Terrigenous and, inorganic sediments are dominant in this area, consisting of mineral fragments, clay and clay floccules; plankton, however, is leaa the 1%. \ In this area, the suspenced matter comes mainly from two sources: Solid runoff of rivers and resuspension of bottom sediments. In addition, there are small amounts of deposit of wind-blown dust and plankton, etc. Solid discharge injected into the Bohai Gulf are estimated at about 1,300 million tons annually, about 1, 200 milliam tons of which come from the Huanghe. Carrying a huge amount of silt and clay into the Bohai Gulf, the discharge of the Huanghe extends in three different directions: One to the northeast flowing to the central part of the Bohai Gulf, another one to the east to outside the Laizhou Bay, still another one turns to the northwest entering to the Bohai Gulf. According to a rough estimate about 79% of discharge of the Huanghe settle down at the mouth of the delta. / In addition, we have also studied the colour and transparency of the sea water, and used experimental formulas to show the relationship between the concentration of suspended matters and transparency of the sea water.>
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ranged in length from 11-20 m.(PP) The geotechnical investigation was part of a general geological study performed by the Institute of Oceanology, Academia Sinica, Qingdao.(PP) Some geotechnical properties of cores were measured and analyzed in laboratory, they are water content, bulk density, natural void radio, plastic index, plastic limit, shearing strength, sensitivity, compressibility and so forth.(PP) Sediment types of the cores can classified into three different groups from top downward the cores, depending on the different geotechnical porperties of the sediment.(PP) 1.Group of soft mud- This group ranged in thickness from 2-4 m. The group may be geotechnically characterized by its high water content, viod radio and high compressibility. Its shearing strength, permeability and bearing capability were lower than other two groups. Therefore, this group is not suitable for engineering construction.(PP) The sediment of the group might have been accumulated by discharges derived from the Huanghe River.(PP) 2.Group of interbedding of subclayey, subsandy and sandy soils- This group appeared below the first group, ranging in thickness from 2-13 m. It was characterized geotechnically by its intermediate form between the first and third groups.(PP) 3. Sand group- Submerged depth of this group was about 5-17 m under the sea floor. Its thickness was not known in detail. (PP)The group mainly consists of fine or very fine sand. The geotechnical properties of the group show low compressibiblity and high bearing capability. Therefore, the group provides a good foundation for engineering construction.>
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sea area; (3) in the central and northern parts, the content of shell fragments in the sediment is high; (4) content of organic matter in the sediments of the estuarine and near-shore areas is high, gradually decreasing toward the sea; (5) most of the sediment in this area is landbased material, primarily coming from the Luahne River, Haihe River and the Yellow River; and (6) the main factor contributing to the distribution pattern of the sediment is the nature of the river.>>
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<In this paper authors represent the geological significance of the shallow seismic reflection surveying and the surveying methods in the South Huanghai Sea shelf ranging from 122degrees26minutesE to 124degrees15minutesE and 32degrees12minutesN to 34degrees56minutesN. Using the EG&G seismic profiler system, from the sea floor to the depth of 60 m, five or six reflection surfaces which have a wide distribution and five or six layers which are divided by the reflection surfaces have been gotten. The reflection surface T1 corresponds to the eroded surface on the Late Pleistocene. The layers A and B overlie the reflection surface T1. They consist of the subaqueous delta deposits which have very clear foreset clinoform bedding, shallow sea facies deposits which have horizontal stratification and tidal sands. All of these formed in the Holocene. The layer C is beneath the reflection surface T1, it is shallow sea facies deposits of the Late Pleistocene. The sedimentary structure of the D layer is very complex. In the layer there are a lot of large trough sedimentary structure of the D layer is very complex. In the layer there are a lot of large trough sedimentary structure. The thicknesses of the E and F layers are quite stable, but they were eroded seriously in the east part of the investigated area. According to the characteristics of the acoustical reflection record profiles, the investigated area is divided into three blocks. The block I is located in the centre and the northwest part of the investigated area, it corresponds to the distribution of the Old Huanghe River Delta. The block II is located in the east part of the investigated area, in the D layer in this block there are a lot of ancient channel configurations. The block III is located in the sough part of the investigated area, it corresponds to the north margin of the Changjiang River Delta. In this block, the surveying depths are much shallow, most of the seismic reflection surface are not regular. According to the analyses of the seismic reflection profiles, the evolutionary process of the Old Huanghe River Delta can be divided into five periods: 1. The large transgression in the Early Holocene caused delta I. The foreset clinoform beds overly the eroding surface of the Late Pleistocene. 2. The delta II is farthermost one from the river mouth, its fore margin was pushed into sea more than 100 km. A large regression occured in that time. 3. The delta III formed on the delta I. The delta IV was superimposed on the front of the delta III and the delta I. The delta III would be caused by another transgression, and the delta IV would be caused by another regression. 4. The delta V are stacked on the delta II, III, and IV. It would be caused by the continuous regression. The

large trough sedimentary structures are well-developed in the blocks of II and III. They must be fluvial facies deposits. Based upon the distribution of the fluvial facies deposits, the distribution of the channel system in that times is given. The ancient channel system is considered to be remains of the ancient Changjiang River. A lot of other geological formations have been discovered in the surveying. The tidal sand ridges, faults, and sliders in the shallow marine deposits, supergene enrichment gas have been discussed in this paper.>
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both. From the salinity conditions existing down the water depth in southern region of modern Bo Hai, an inference can be drawn tht salinity in the second marine bed was slightly higher than that in the first marine bed, but no higher than 31.5%0, while the minimal salinity in the first marine bed was about 25%0. The climate at the deposition time of the second marine bed was of a rather warm nature between two ice ages. The same is true of the first marine bed, equivalent to the highest air temperature in late ice age. The first marine transgression, of a moderate scale, occurred some 8 thousand years ago, and was limited to the northeast part of this region; complete regression occurred about 3.5 thousand years ago. The second marine transgression, of a larger scale, occured about 40 thousand years ago; complete regression about 20 thousand years ago. The then coastlines are shown in Fig. 9.>
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from April to October. Periods of ersion occur from November to March. June has the maximum deposition of 4,759,000 tons. The largest deposits are located between 13 and 16 m above sea level and contain 63.7% of the deposited material. The sediment deposits in Poyang Lake will tend to increase, since the water level of its outlet, the middle and lower Changjiang (Yangtze) River, is gradually rising.>
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Yang,Huairen; Wang,Jian (1990): Quaternary transgression and coastline changes in Huanghe River (Yellow River) Delta. Mar. Geol. Quatern. Geol. 10(3), 1-14.
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Yang,Huai-ren; Xie,Zhi-ren (1984): A perspective on sea-level fluctuations and climatic variations (in Chinese). Acta Geogr. Sin. 39(1, March), 20-32.
<The present paper discusses climatic changes and sea-level fluctuations over past 20 000 years (especially Late and Post Glacial events) in East China.(PP) 1. Based on studies of more than 450 prehistoric sites and more than 400 drill cores, the present paper identifies that, during past 18 000 years, there have been 10 intervals of sea-level oscillation. The

time of sea-level fluctuations has been correlated with the climatic variations of China.(PP) 2. Abrupt climatic variations were accompanied by rapid sea-level fluctuations during the Late Glacial. Evidences furnished by sporo-pollen analysis of the Late Pleistocene and Holocene deposits of the coastal plain of East China indicate that three cold periods interrupted by two warm intervals obviously occurred during the Late Glacial. The temperature range between the cold period and the adjacent warm interval reached 6-7 C. Studies based on the paleoclimatic indicators and rate of deposition strongly suggest that the time interval during which the warm Auerod dropped into the cold Younger Dryas lasted less than 200 years.(PP) From 13 150 BP to 12 400 BP the sea level jumped from -83 to -35m with the highest rising rate of 64mm/year. It was the most rapid phase of sea-level rising experienced during the last 15 000 years. On the contrary, at 11 050 BP-10 900 BP occurred the most rapid phase of sea-level lowering which displayed a remarkable interruption of the tendency sea-level movement during the Late Glacial. As revealed from drill cores in eastern China, the sea level dropped abruptly from -26m to -33m within 150 years at the beginning of Youger Dryas.(PP) 3. It is noticeable that the synchronous relation between climatic and sea-level fluctuatuions not only existed with the time scale for 1000 years but also for 10-100 years. The climatic and sea-level curves of China from 1890-1940 coincide each other very nicely. During the "warm epoch of twentieth century" mean temperature of 1935-1940 was 1 C higher than the 80's of ninteenth century and consequently the sea level during 1935-1940 as recorded by the tidal guage of Wu-song, near Shanghai, was 20 cm higher than that of 1910-1920.(PP) 4. The present paper tries also to predict the future trend of the sea level changes. More recent temperature data indicate that since the 1940's there has been global or at least North Hemispheric cooling. But in spite of the lowering of the mean temperature, the sea level has been rising steadily over the last four decades. The discordance means that as fossil fuel usage has increased rapidly, mankind might have disturbed the natural trend of the global temperature and the sea-level changes.>

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Yang,Huairen; Xie,Zhiren (1984): Sea-level Changes along the East Coast of China over the Last 20,000 Years. Oceanol. Limnol. Sin. 15(1, January), 1-13.

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<There are still considerable different interpretations of the Holocene sea-level curves of different coastal regions of China. After separating the influence of tectonic and hydroisostatic movements we are able to

construct a eustatic sea-level curve showing sea-level changes in the east coast of China over the last 20,000 years, because radiocarbon dates are available to establish a time scale over that period. The present paper tries to discuss the following major problems: 1. Identification of sea-level fluctuations during the last 20,000 years. Based on the studies of more than 450 prehistoric sites, the distribution of radiocarbon dating of the shell middens and the sedimentalogical and micropaleontological studies of more than 400 cores the present paper identified 10 intervals of sea-level oscillations (Fig. 3) during the past 20,000 years. The time of sea-level fluctuations correlated exactly with the climatic variations of China (Fig. 3,4). The radiocarbon dating of a sample taken at -155 meters on the the shelf of the East China Sea indicates that it was deposited at 15,000 years B.P. After deducting the down sinking of the shelf owing to hydroisostasy of the melting water returning to the sea we inferred that lowering of sea-level was 106 m in 15,000 years B.P. 2. Abrupt climatic variations and accompanied rapid sea-level fluctuations during the Late Glacial. Evidences furnished by sporo-pollen analysis of the Late Pleistocene and Holocene deposits of northern and eastern coastal plains of China indicate that three cold periods interrupted by two warm intervals obviously occurred during the Late Glacial (Fig. 4). The temperature range between the cold period and the adjacent warm interval was around 6 degrees C. Studies based on the paleoclimatic indicators and rate of deposition strongly suggest that the time interval when the warm Allerod dropped into the cold Younger Dryas lasted less than 200 years. From 13, 200 B.P. to 12,400 B.P. the temperature rose sharply 7 degrees C while the sea level jumped from -83 to -35 m with the highest rate of 60 mm/a (Tab. 1, Fig. 4). It was the most rapid phase of sea-level rising experienced during the last 15,000 years. On the contrary, in 11,100 B.P.-10,900 B.P. occurred the most rapid phase of sea-level lowering which displayed a remarkable interruption of the tendency of sea-level movement during the Late Glacial. As revealed from drill cores in eastern China the sea-level dropped abruptly from -26 to -33 m within 200 years at the beginning of the Younger Dryas. 3. Climatic and eustatic changes during the Post Glacial period. Evidences from palynological studies in northern and eastern China indicate that since the beginning of the Holocene the climate has experienced four major cold phases, occurring around 8200 B.P., 5800 B.P., 3000 B.P., and 300 B.P. respectively. During each cold period the sea level lowered 2-4 m (Tab. 3, Fig. 4). As shown in table 3 and figure 4, during the warm intervals the sea-level rose again and formed three major Holocene high sea-levels which occurred at 10,000-8300 B.kP., 8000-7000 B.P., and 6000-5500 B.P. 4. Climatic and sea-level changes during the last 2000 years. Making

full use of the long and rich historical records and the tree ring studies as well, we are now able to reconstruct both climatic phases of China with the temperature variations of Europe for the last 2000 years. Eustatic fluctuations as shown in figure 5 indicates that high sea-levels occurred in the fourth, ninth and sixteenth centuries with the maximum oscillation amplitudes of more than 2 meters. It is noticeable that the synchronous relation between climatic and sea-level fluctuatuins not only existed with the time scale for 10(3) years but also for 10(1)-10(2) years. We find that the climatic and eustatic curves of China from 1890-1970 coincide very well. During the "warm epoch of twentienth century" air temperature of 1935-1940 was 1 degree C higher than the 80's of ninteenth century and consequently the sea-level during 1935-1940 as recorded by the tidal gauge of Wu-Sung, near Shanghai, was 20 cm higher than 1910-1920. From the study the paper concludes that major global sea-level fluctuations of the planet earth seem to be synchronous with major tectonic events while sea-level fluctuations in Pleistocene and minor ones taken place in Holocene or even in the twentieth century have been synchronous with climatic changes.>
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Yang,Zigeng et al. (1985): Sedimentology and Environment in South Huanghai Sea Shelf Since Late Pleistocene. Mar. Geol. Quatern. Geol. 5(4, December), 19 p.
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<Aspects on sedimentology and environment are preliminary discussed in the South Huanghai Sea shelf (to the west of 124o15'E and between 32o12'N and 34o56'N.) 1. Several depositional regions can be recognized based on the upper sediments of vertical sequence of the shelf. (1) The Old Huanghe-Huaihe River delta region. It is the main characteristic to be divided into two parts, the upper and the lower, in vertical sequence. The upper consists of a series of complex sediments of subaqueous delta

and the lower--coastal marsh, tidal flat and fluvial sediments. (2) The region of Holocene transgression and the Changjang River delta. The sediments also can be divided into upper part which is marine and lower part which consists of coastal marsh, tidal flat and fluvial sediments. (3) -a, Relict sedimentary subregion. Only the lower part--sediments of marsh, tidal flat and fluvial is preserved, but the upper part is not discovered. (3)-b, The subregion of relict sediments buried by tidal sand ridges. 2. Ancient channel system and ancient delta of the Changjiang River. The Ancient Changjang River drainage which includes parallel channel zones in direction of NNE developed at South Huanghai Sea during 40,000-20,000 years B.P. There are mainly two channel zones, which running direction is controlled by the structure of basement and neotectonics movement. Channels of three stages that appear alternately with deltas in vertical can be recognized. The growth of fluvial deposits is mainly vertical accretion and little lateral accretion. 3. Holocene delta of the Old Huanghe-Huaihe River. this is a complex delta system with a disymmetrical fan shape to be wide in south and narrow in north, and which axis drflects towards south. Subdeltas of six stages can be divided and which axis deflects towards south. Subdeltas of six stages can be divided based on delta front sand bodies in a sequence as follow: transgression->delta I->regression->delta II->transgression->delta III->regression->delta IV, V->transgression->delta VI. The subenvironments in the Old Huanghe River subaqueo-delta include distributary mouth bar, interdistributary bay, distal bar and front sheet sands, and are characterized by well-developed sediments of interdistributary bay. 4. Holocene transgression. The sea level started to rise at present depth of -60 m. at 11,000 years B.P. There was an important change in sea level that once dropped in about 5,000-6,000 years B.P. during the transgression. 5. Tidal ridges. Two types of tidal ridges can be distinguished in the South Huanghai Sea: One was formed by erosion and it became tidal channel and ridge relief after the old sediments were washed, and another by accreting tidal sands on the top of old sediments. The removing course of tidal sand ridge can be determined according to the directions of cross-bedding and foreset limination in tidal ridges. The tidal ridges, which formed mainly in the last 2000 years are composed of palimpsest sediments. These are an erosion-accumulation forms developing actively up to now. From the order of different environment changes according to the age mentioned above an outline on forming and developing inthe South Huanghai Sea shelf is formed.>

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<Suspended organic films of water samples taken from the water column in the Huanghai (Yellow)/ East China Seas were studied by scanning electronic mocroscopy and energy dispersion X-Ray analysis. Their characteristics, distribution, origin and sedimentation showed that the organic films of very thin and transparent or semi-transparent plates consist mainly of elements such as C, H, O, N. The folms are widely destributed throughout the water column from top to bottom, and their concentration is higher in the waters of the Kuroshio Current than that in shelf waters. The films capture or absorb various suspended particles such as skeletal debris, solf parts of organisms, and minerals and rock debris, acting not only as 'sediment-micro-traps' for very small, drifting particulates in the water column, but also as 'deposition-accelerators', especially for small, light organic particles. Thus, the films play an important role in the sedimentation of various suspended particles, including those containing C, which are essential for the

study of ocean fluxes.>
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<In historical period, the Huang He River flowed through North Jiangsu into the Huanghai sea for nearly 700 years. The abundant load that it carried formed a large delta, a coastal plain and offshore banks. It is due to the shifting of the river estuary that the coastal zone in Jiangsu underwent two great changes in hydrodynamical and sedimentological conditions, but the results they brought about are contrary to each other. Through careful analysis of historical literatures and field investigations, this paper attempts to discuss the land-forming process of the Huang He Delta, the coastal plain of North Jiangsu and analyse the great effect of the shifting of the river estuary brought on the coastal development. The chief conclusions obtained are as follows: 1. Before 1128, the coast of North Jiangsu was a barrier island coast. Since the Huang He River captured the lower reach of the Huai He River and flowed into the Huanghai Sea, the coast has gradually taken the form of a mud plain coast. 2. Hereafter, the land-forming history of the coastal zone is divided into two stages. Before the middle Ming Dynasty, the extension of the estuary was 54 m/a and the rate of the growth of the delta was 3.2 km(2)/a on the average. After the middle Ming Dynasty, the rate of progradation of the coast was increased to 223 m/a and 15.5 km (2)/a. 4. Because of the shifting of the outlet of the Huang He River into the Bohai Sea in 1855, the coastal zone of North Jiangsu lost the source of abundant sediment but it had to adjust to this great change. The coastal zone of Jiangsu subjected to (1) serious erosion and most of the eroded material transported southward; (2) The pattern of the offshore banks has been gradually transformed into radiated shape; (3) The length of receding coastline is gradually increased and the rate of progradation of the coast in central Jiangsu decreased.>
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<Starting in 1983, a multidisciplinary comprehensive investigation was conducted in the Bohai Sea. Based on recent data a comprehensive analysis of the type, color and clay minerals of the surface sediments in the area is presented and the area is divided into three sedimentary zones. Through analysis and investigation of the hydrodynamics, suspended matter and peripheral subsistence in the area, a thorough study of the substance, especially the source, diffusion, transpiration and sedimentation of the fine matter was made thus furthering understanding of the sedimentation in the Bohai Sea.>
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Zhao,Songling; Li,Guogang (1991): Origin and shallow-layer structure of the sediments in the Yellow Sea Trough. In: Quaternary coastline changes in China. (Eds: Qin,Yunshan; Zhao,Songling) China Ocean Press, Beijing, 89-99.
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Zhao,Songling; Yang,Guangfu; Cang,Shuxi; Zhang,Hongeai; Huang,Qingfu; Xia,Dongxing; Wang,Yongjie; Liu,Fushou; Liu,Chengfu (1978): On the marine stratigraphy and coastlines of the western coast of the Gulf of Bohai (In Chinese). Oceanol. Limnol. Sin. 9(1, January), 15-25.
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<Three marine formations are recognized from the Quaternary sediments (above 100 meters) off the western coast of the Gulf of Bohai. / The C14 method and paleomagnetic measurements were used to estimate the age for each marine formation. The first marine formation existed between 102,000-70,000 yrs BP belonging to Riss-Wurm interglaciation. The second was between 39,000-23,000 yrs BP corresponding to the interstadial of Wurm glaciation. The third was between 8000-2000 yrs BP correspoding to

the postglacial deposition. / The three marine formations indicated that three transgressive sequences occurred in the western coast of Bohai Gulf. The first transgression reached the vicinity of Xiegongting in the western part of Changzhou City, here termed Changzhou transgression. The second transgression is greater in extent than the first, its boundary could reach Xianxian country, here termed XianXian transgression. The third transgression here termed Huanghua transgression, is less in extent than the first and the second, and is distributed only in the zone of Huanghua, Zhinghai, Tianjin (Tientsin). Therefore, we recognized three paleo-coastline in this area.>
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<Based on paleomagnetic measurements and micropaleontologic analyses of Quaternary sedimentary cores obtained from Yanchen, Jianggang, Qidong and Jiading in the Yangtze River delta region, the authors considered that the Quaternary depositional historys of the southern and the northern bank areas of the Yangtze River are somewhat different. Except the Yancheng hole, the Quaternary deposits in this region can be divided into four main facies, i.e. continental, deep-water lacustrine, shallow-water lacustrine and marine facies. / Continental deposits in the southern and the northern bank areas of the Yangtze River are elder than the Olduvai event and Gauss normal epoch respectively.Deep-water lacustrine facies deposits were formed from the top of Olduvai event to early Brunhes epoch (ca.o.6 m.y.B.P.) and from the Gauss epoch to early Brunhes respectively. / It should be noted that both the southern and the northern bank areas were changed into shallow-water lacustrine depositional environment simulataeously from early Brunhes epoch to the early Holocene. /

Lastly, the Holocene trasgression formed the marine fromation in the Yangtze River delta region.>
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<The most important conclusions of this study are: (1) The contents of Fe, Mn, Ti, and P in the sediments of the Taiwan Bank are lower than those in the East China Sea and South China Sea. This is because the grain size of sediments in the area of study is coarser. "The law of grain-size control" of elements is conspicuous, i.e., the averag contents of elements increase gradually with the decrease in the grain size of sediments. (2) The distribution patterns of these elements are similar in most respects. The regional distributions of elements are belt-shaped and roughly parallel with the coastline. The distribution of elements is related to that of sediments and minerals. (3) We call the ratio of detrital elemental content to total elemental content in sediments "the detrital index." The index of each element during this study is in the same order of magnitude with that in the East China Sea. The detrital index of elements varies inversely as the chemical activity of elements. For example, the chemical activity of Ti is lower, but the detrital index of Ti is higher. (4) Like other continental shelves, in the area studied close correlations exist among these elements. It must be pointed out that sometimes the authigenic process can interfere with these correlations.>
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<This work is chiefly based on the analytical results of the chemical composition of 62 sediment samples from the Huanghai Sea (Yellow Sea) to illustrate the following points: 1. Abundance characteristic of elements in sediments of the study area; 2. Variation regularity of elemental content in the sediments of different types - the law of grai-size control of elements; 3. Geochemical province of the elements; 4. Presence state of the elements; 5. Rate of accumulation of the each element; 6. Primary factor controlling the element distribution.(PP) The 12 chemical elements in the bottom sediments have been studied. quantitative analyses of the elements Fe, Mn, Ti and P were made by colorimetry, those of Cu, Co, Ni, Zn, Cr, and Li by atomic absorption spectophotometry, V by emission spectroscopy and Si by the usual gravimetrical method. The comparisons of the element abundances obtained in this study area with those in other sediments or rocks show that the abundance characteristic of elements in the study area is of the"philo-continental" property, i.e. the abundance pattern of elements is relatively close to that of the continent, but differ from that of the ocean. The grain size of sediments plays a distinct role in controlling the content of elements. The average contents of most elements increase gradually with decrease in grainsize, only Si decreases with decreasing grain size. We call the variation regularity of element content with grain size 'the law of grain-size controlof elements'. According to the elemental distribution, the area of study can be classified into 3 geochemical provinces: The first has high concentration for the most of elements and is covered with fine sdiments. The second is characterized by the low concentration of the elements and covered by coarse sediments. The third province commonly occupies an intermediate position between the other two provinces and has a transition character. The terrigenous fraction and authigenic fraction of the elements have been determined. The terrigenous detrital index of most elements is higher than the authigenic index. The clay minerals act as a reservoir for a majority of elements studied. A clear positive correlation among the elements was found. These facts in particular within those of the clay minerals. Based on the rate of sedimentation, the concentration of the elements and the bulk sediment density, the accuulation rate of each element in the area of study have been calculated. It has been established that the primary factors controlling the element distribution are: (1) material source; (2) grain size; (3) mineral component; (4) hydrodynamic condition; and (5) physical-chemical environment of sedimentary region.>

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[GRAIN SIZE; HUANGHAI SEA; REGRESSION; YELLOW SEA]

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