

Research on Schistosomiasis Epidemic & Schistosomiasis- related Population Decrease

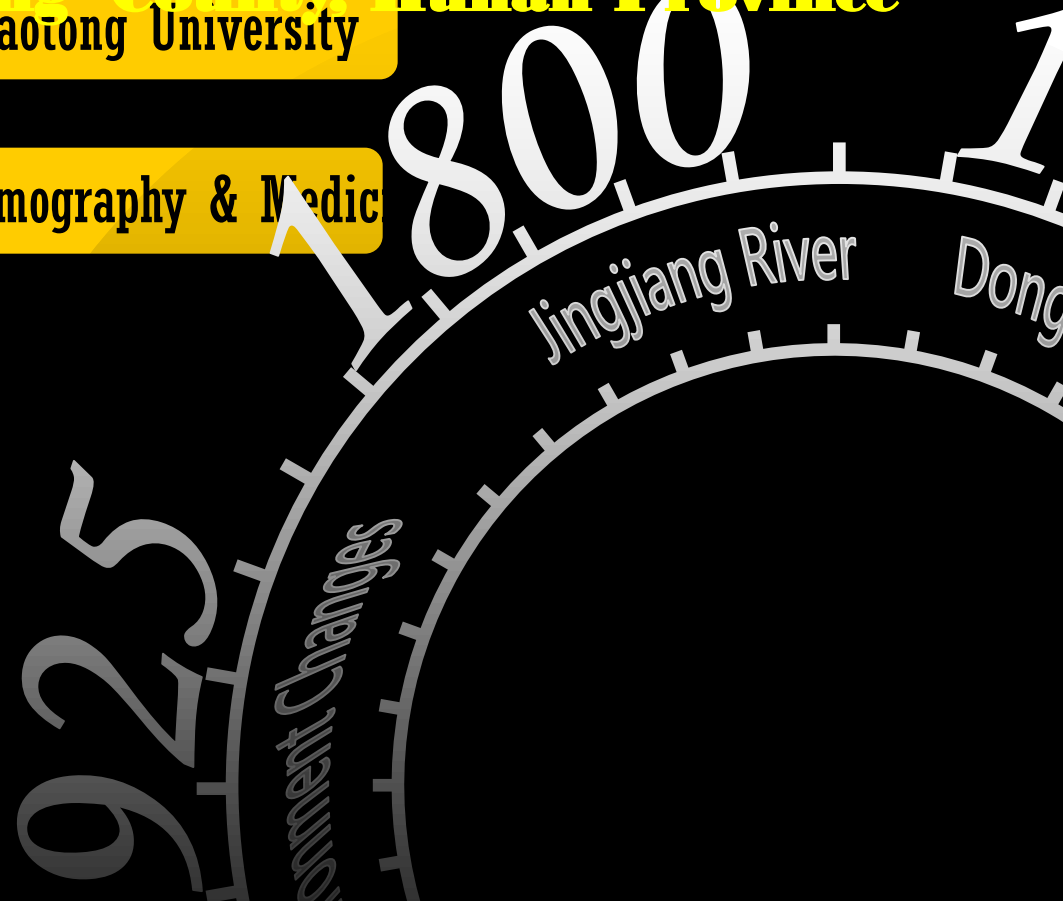
History Department

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Shanghai Jiaotong University

History of Demography & Medicine

—A Case Study of





Introduction

**Population
Decrease &
Schistosomiasis
Epidemic**

**Environment
Changes**

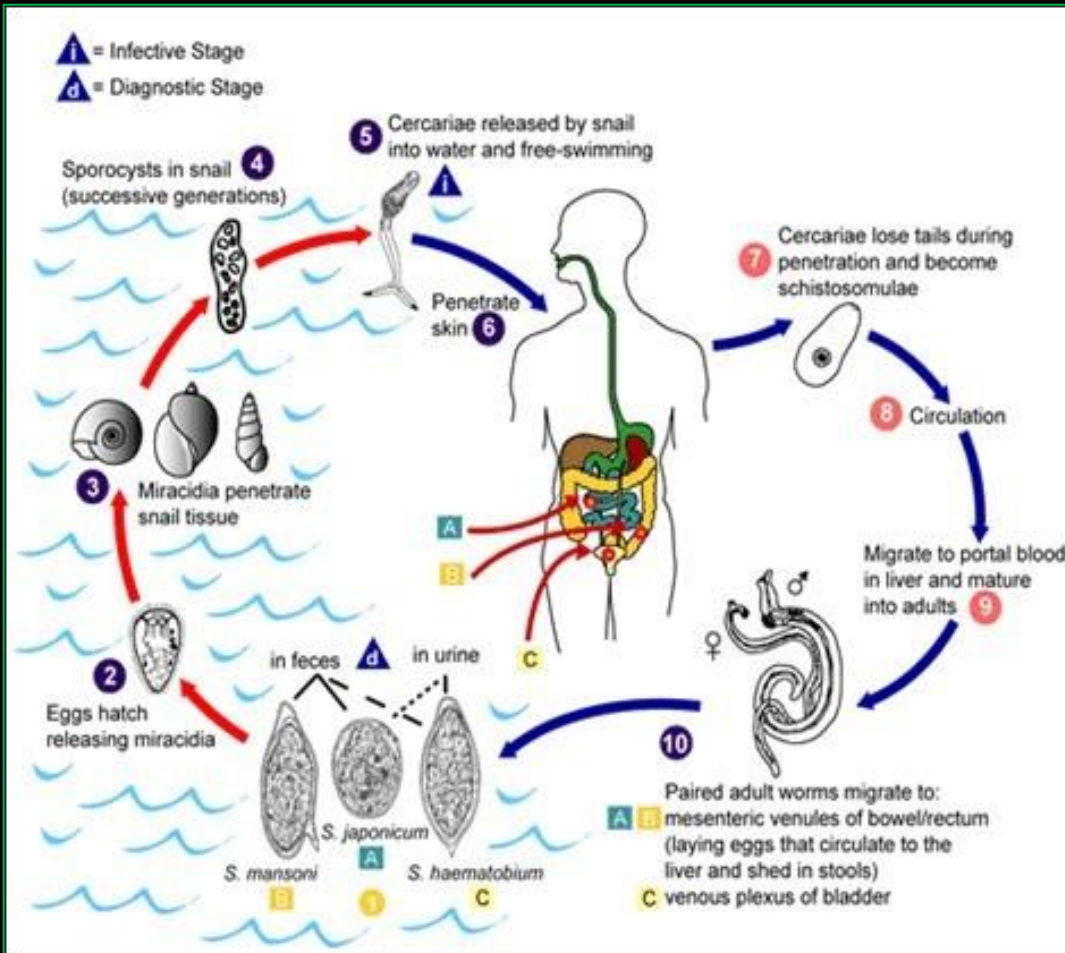
Introduction-- *Schistosomiasis*

Left:

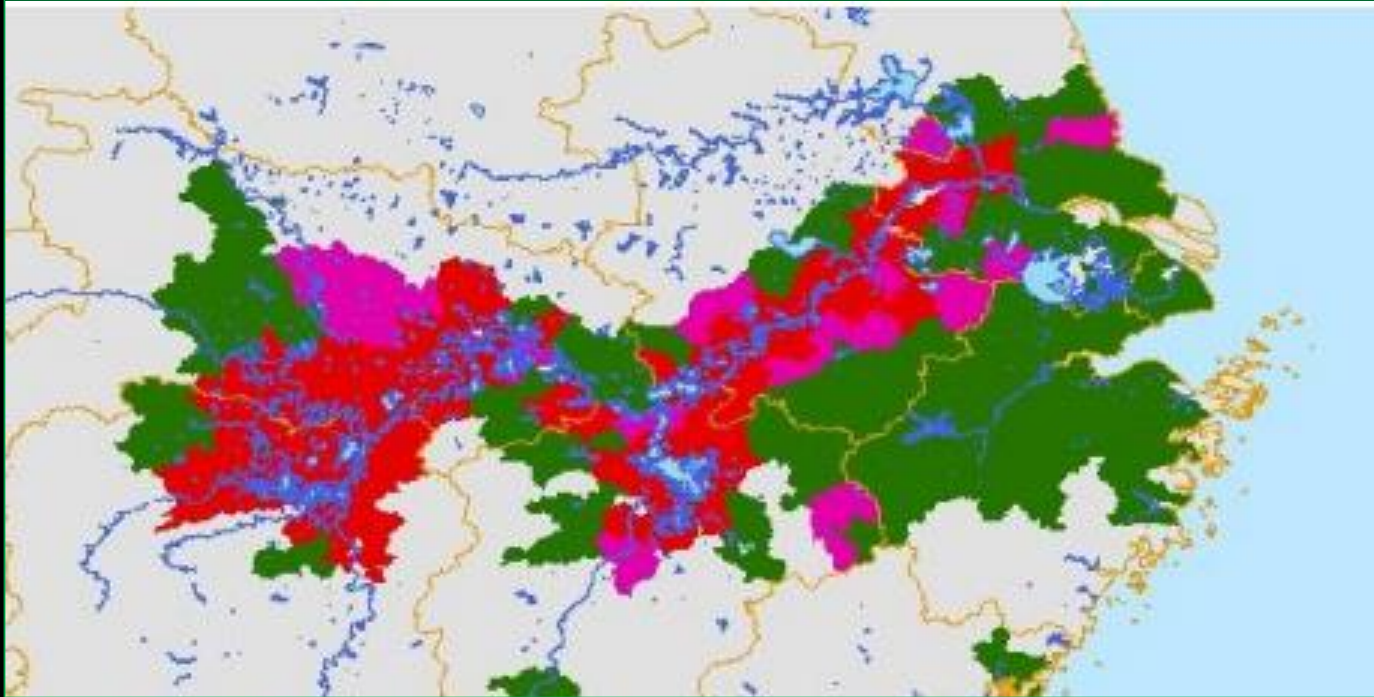
Life History of Schistosomiasis

Below:

Four Brothers of Zhang
in Nanxian County, taken in 1950s

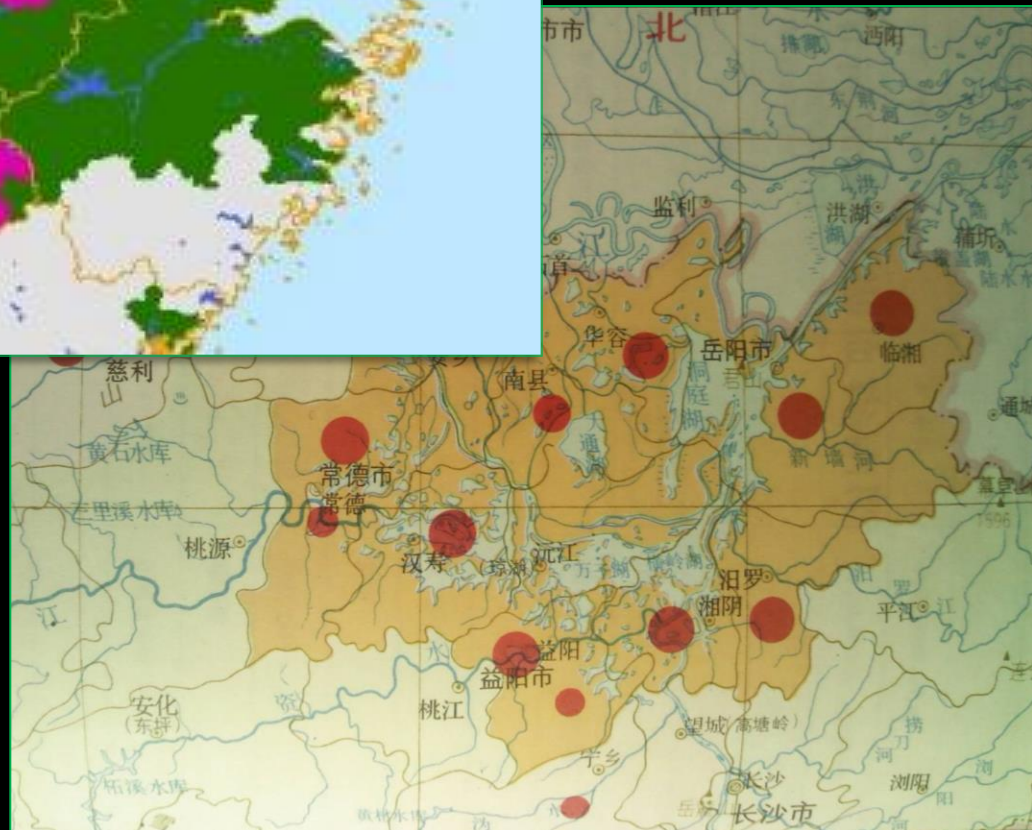


Introduction-- *Schistosomiasis*



Above: Schistosomiasis Distribution changes around Yangtze River

Right: Schistosomiasis Distribution around Dongting Lake Region





Introduction

**Population
Decrease &
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Epidemic**

**Environment
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Population Decrease- *Materials & Methodology*

```

Sub SUN_RECORDED ()
Dim i As Integer, j As Integer, sn As String, length As Integer, l As Integer, f As Integer
For i = 2 To 12000 Step 1
    sn = Worksheets("Sheet1").Range("A" & i)
    f = 0
    For j = i + 1 To 12000 Step 1
        If Worksheets("Sheet1").Range("A" & j) <> "" Then
            length = Len(Worksheets("Sheet1").Range("A" & j))
            l = length - 2
            If Left$(Worksheets("Sheet1").Range("A" & j), l) = sn Then
                f = f + 1
            End If
        Else
            End If
    Next j
    Worksheets("Sheet1").Range("AB" & i) = f
Next i
End Sub
    
```

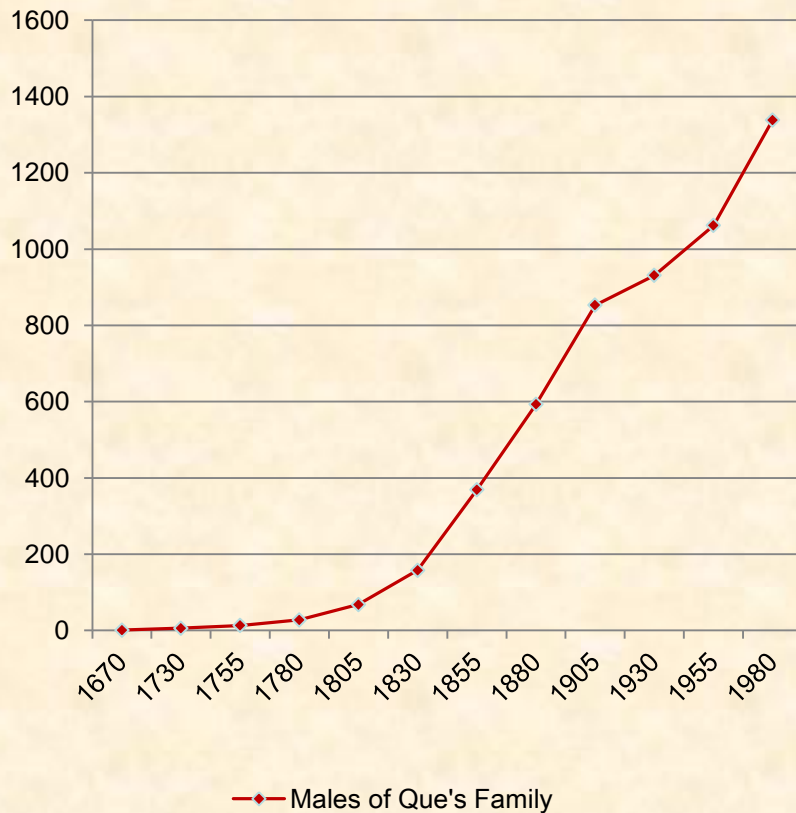


CODE	NAME	BIR		BM	DEA		DM	WIFE	BIR		BM	DEA		DM	SUN	DAU	Adopted Son	Early Death	Location	PN
1	謙訓	1474		2	1550		10	鄒氏	1468		3	1564		9	4	0			公 明宏治年間徙湖南長沙府益邑廂外里羊角城旋徙沅邑龍保青草港厥後子孫蕃衍遂奉為 始祖焉。謙訓歿葬永丰垸柘樹山。	
								牛氏							3	0				
1-1	宣俊	1492		8	1572		2	徐氏	1495		10	1574		10	2	0			歿葬永丰垸柘樹山	
1-1-1	尚璽	1519		2	1594		9	盧氏	1520		4	1598		10	2	0			歿葬十一嘴虎形山	
1-1-1-1	世潭	1543		8	1618		9	劉氏	1542		5	1614		9	1	0			歿葬十一咀虎形山	
1-1-1-1-1	日鏜	1565		11	1612		9	張氏	1565		6	1615		1	1	0			歿葬十一咀虎形山	
1-1-1-1-1-1	文璋	1594		2	1654		11	張氏	1602		3	1651		5	3	0			歿葬下资口磐仑山	

Population Decrease- *Results*

Average

Life
Expectancy
at Age 20



46.2

37.3

38.6

40.1

37.8

30.7

29.2

31.6

33.5

31.1

37.5

33.3

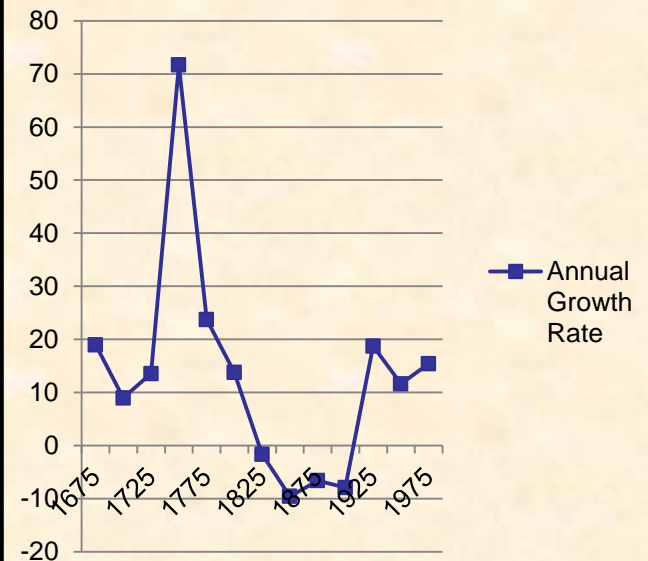
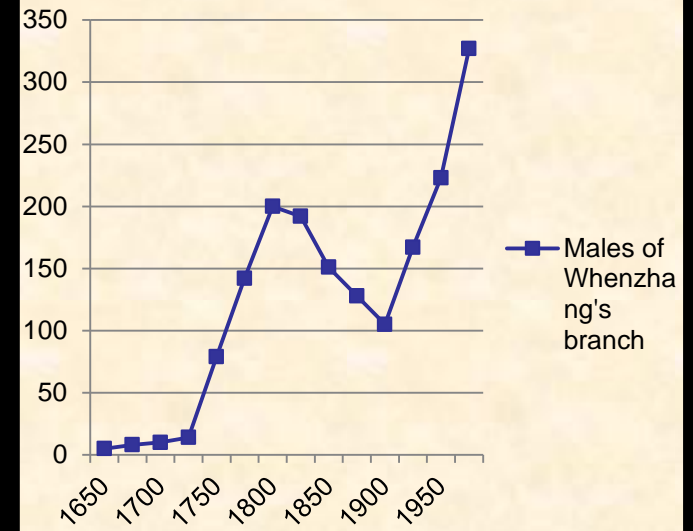
1925-1949

691

1081

1.56

100



Population Decrease—*Results*

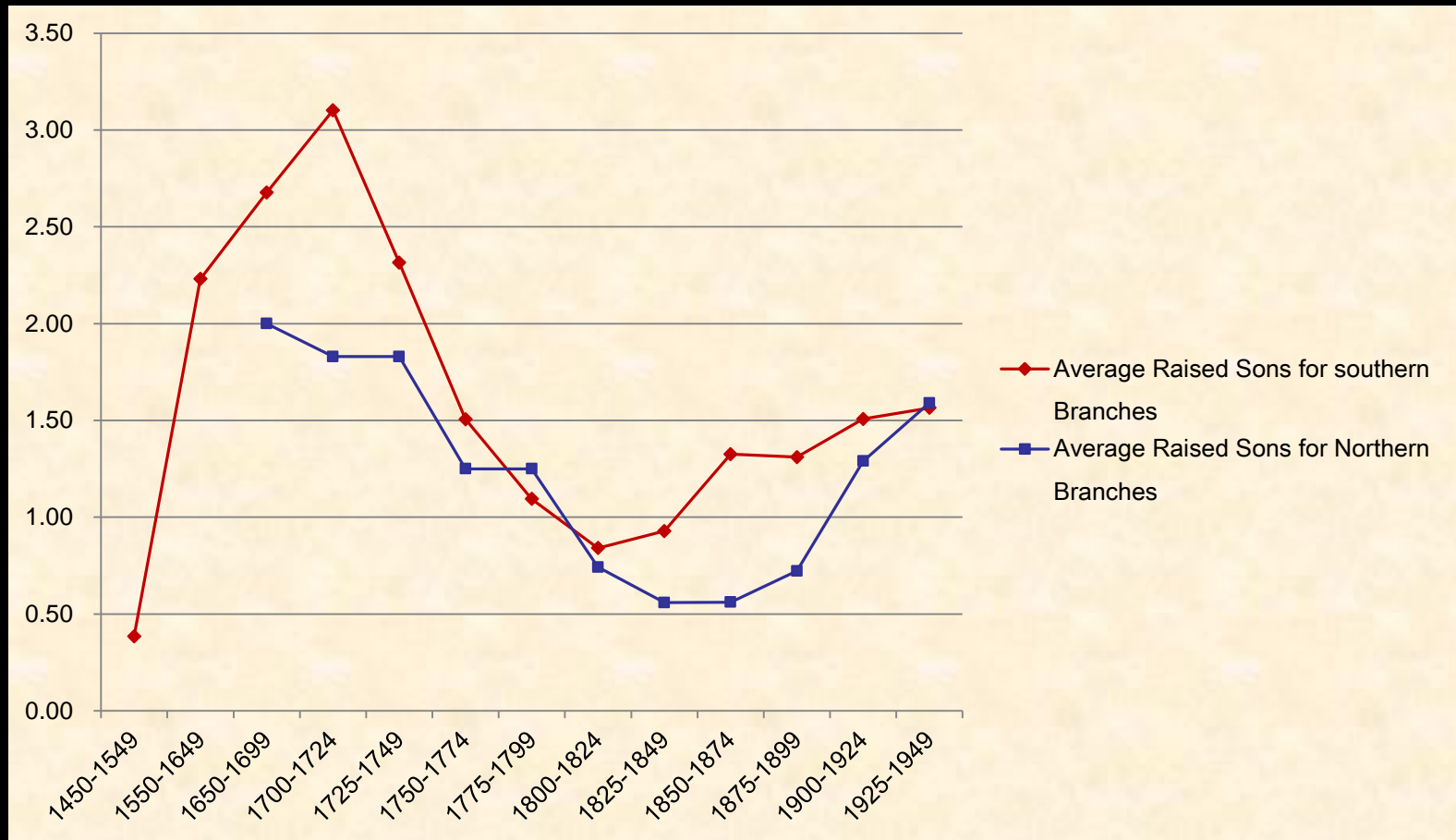


FIG. Average Raised Sons for Southern and Northern Branches

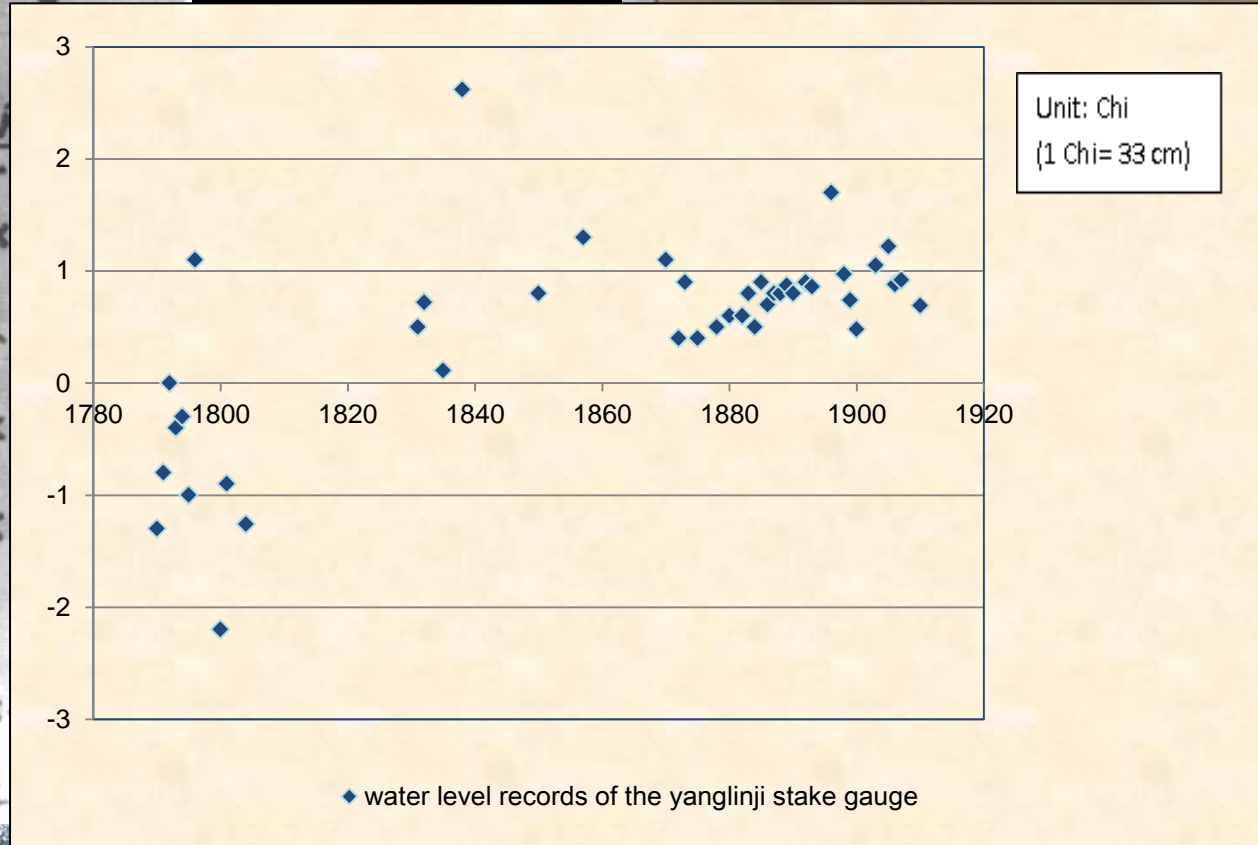


Introduction

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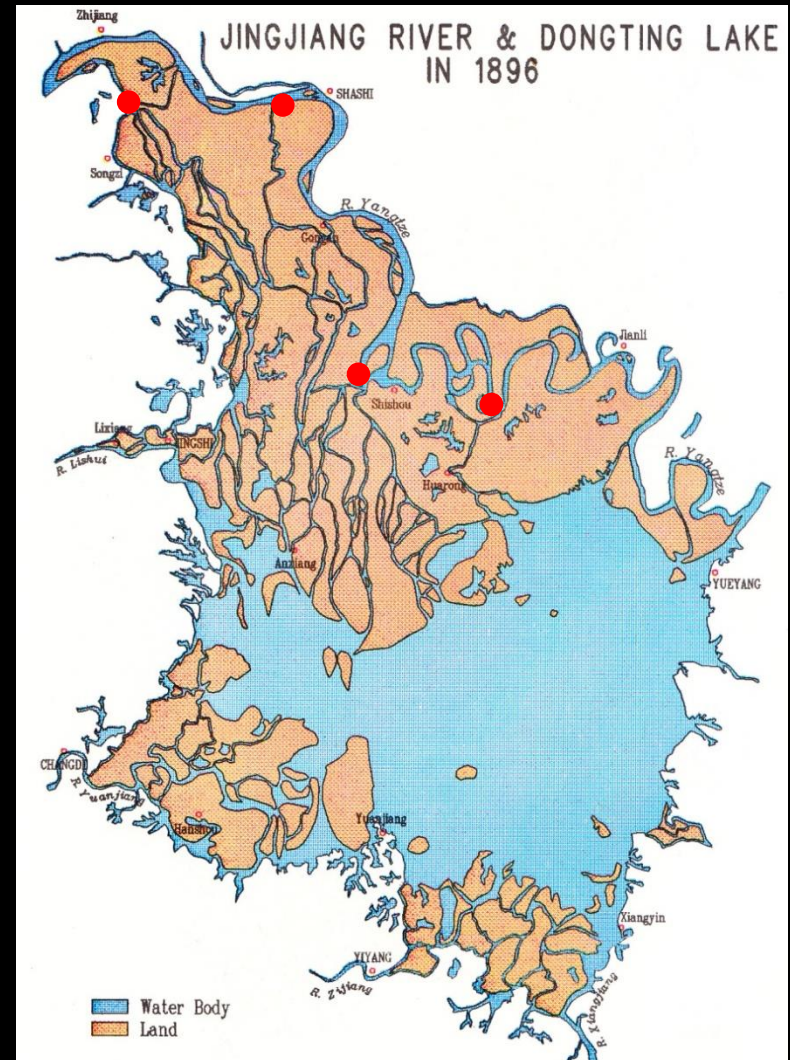
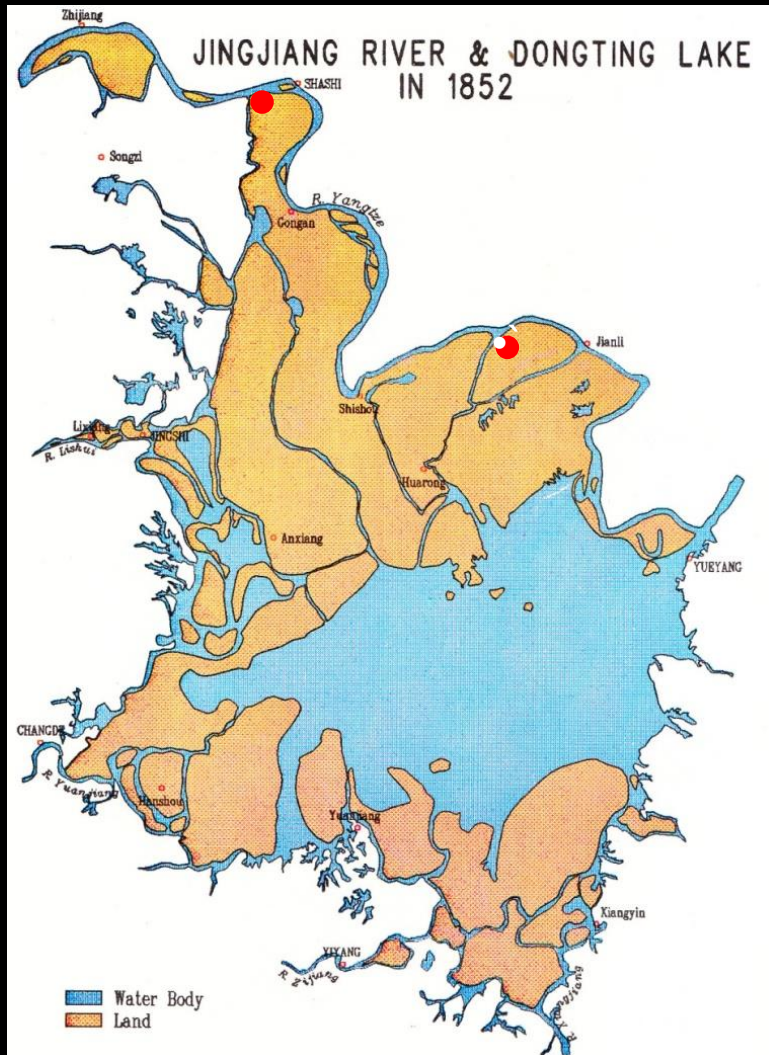
**Environment
Changes**

Environment Changes— *Why this time?*



奏為荆江伏汛安瀾及堤磯各工穩固情形仰祈
聖鑒事竊臣在鳳凰廳督辦堤工以來
湖廣總督臣畢沅跪

Environment Changes— *Why this time?*

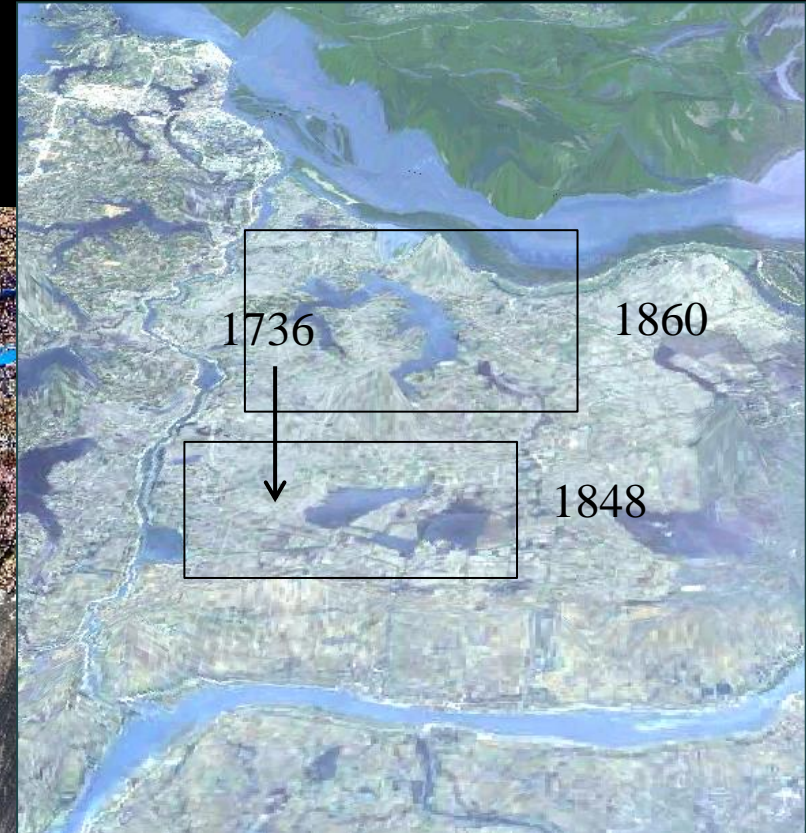
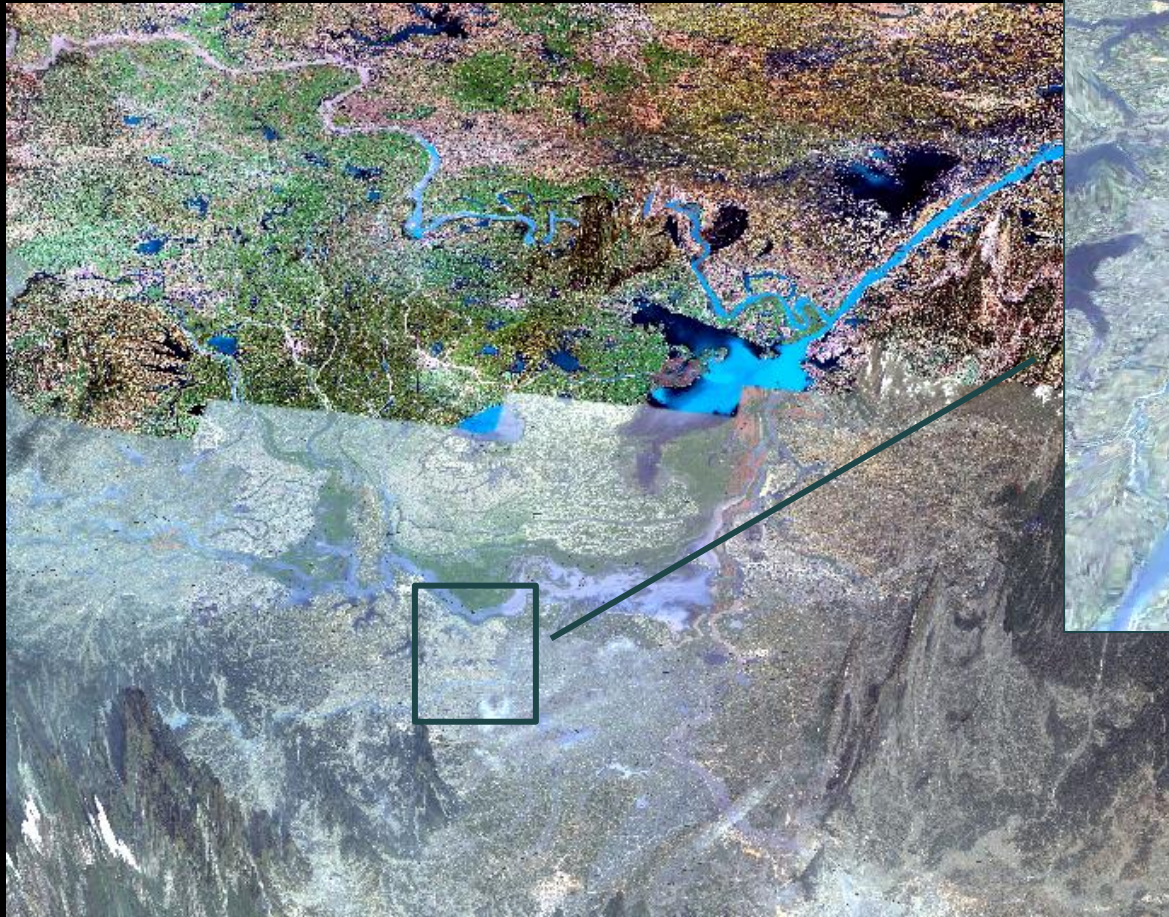


Source: Resources and Environment Information System in Dongting Lake Region

Environment Changes— *Why this time?*

1736, River Qianxi dammed.

1848, River Qingcao dammed.



In **1860s**, dyke-enclosed places built in northern county.

Conclusion

- **Schistosomiasis outbreak in this southern and northern Yuanjiang County occurred around year 1800, 1830 respectively, when water environment began to silt up. Then the disease weakened around 1900 in southern county when water surrounding formed field, while prevalence persisted in northern regions for its frequent .**
- **Reasons why Schistosomiasis boomed up were diverse and complex, which are closely related with water level changes of Jingjiang, the sedimentation of Dongting Lake, even water conservancy project as well.**

**Thank You Very Much
For Your Attention!**