





BLUE-FACED BOOBY (Sula dactylatra): At-Sea Distribution and Abundance

The following maps represent all At-Sea observations made by personnel of the Pacific Ocean Biological Survey Program from February, 1963, through August, 1965.

Each square represents one days observation from the first through the fifteenth of the month, while each circle represents one days observation from the sixteenth through the thirty-first of each month.

Numbers refer to the actual number of birds observed during the day.

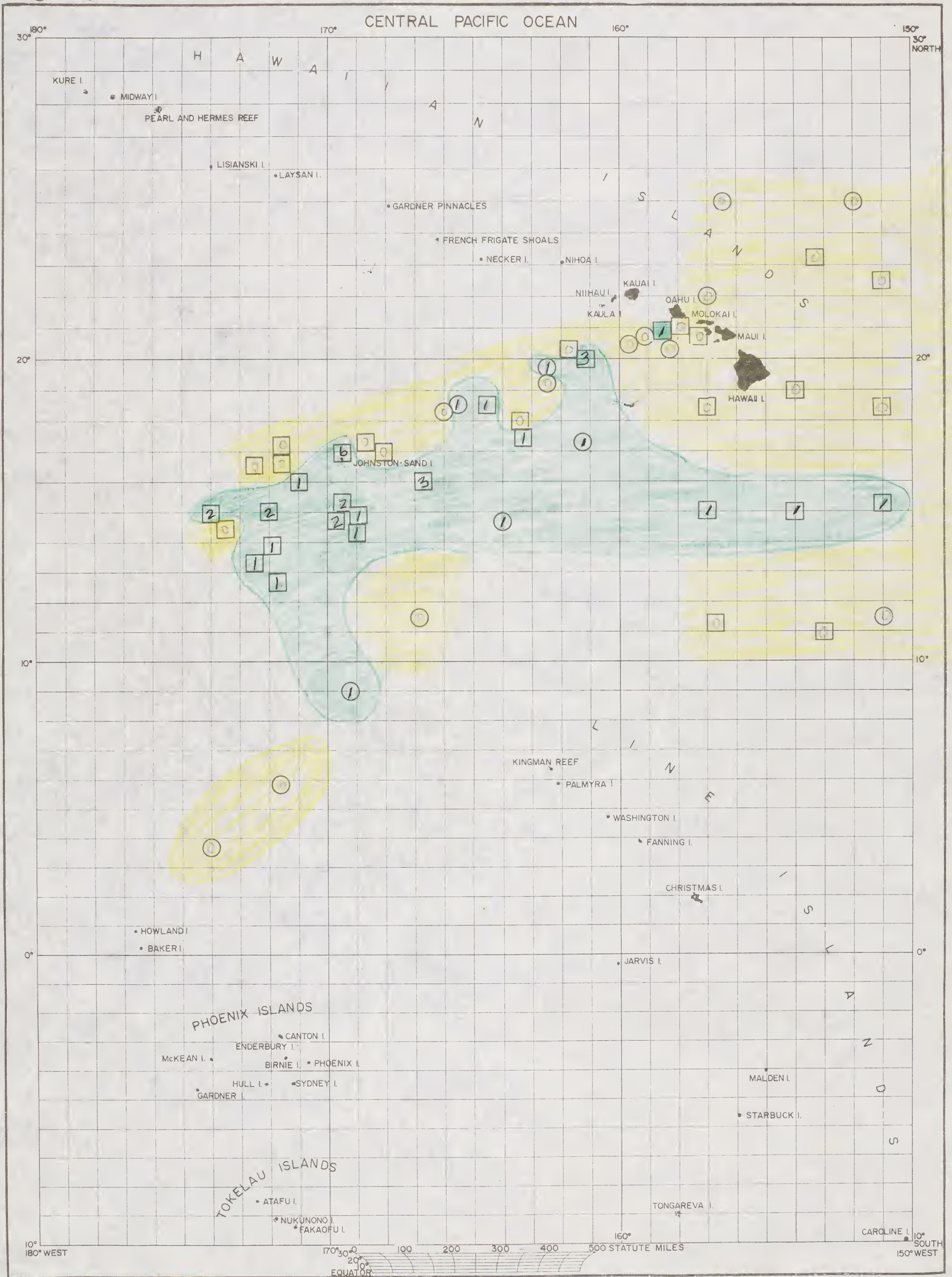
Color code:

	=	0	birds
	=	1-10	"
	=	11-50	"
	=	50 +	"

- ☐ = 1-15 January
- = 16-31 January
- = 0 birds
- ④ = 1-10 "
- (with horizontal lines) = 11-25 "
- (with vertical lines) = 26-50 "
- (with diagonal lines) = 51-100 "
- (with diagonal lines) = 101-500 "
- (solid black) = 500+ "

JANUARY

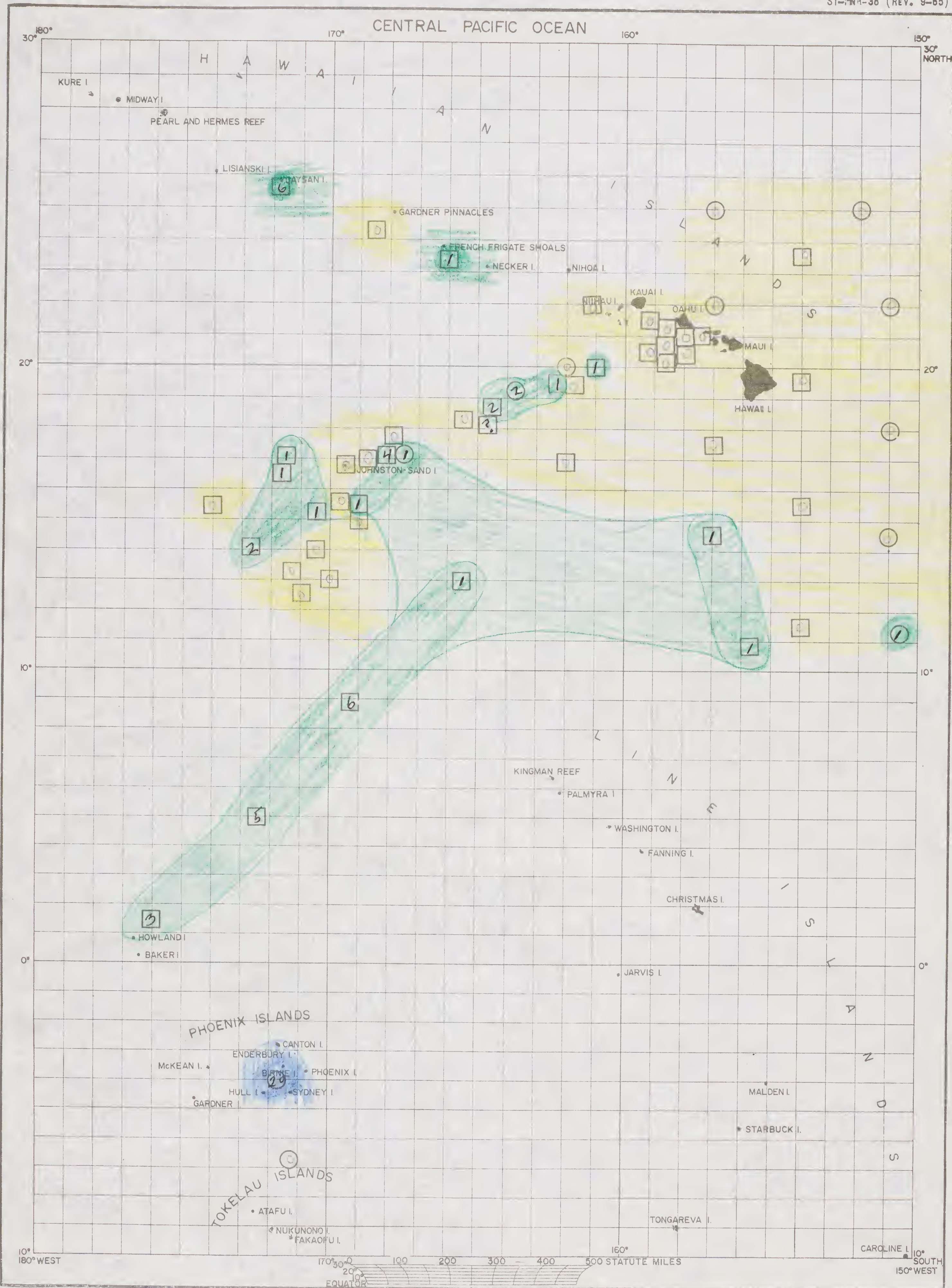
SI-MN-38 (REV. 9-65)



- ☐ = 1-15 February
- = 16-31 February
- ④ = 0 birds
- (small) = 1-10 "
- (medium) = 11-25 "
- (large) = 26-50 "
- (very large) = 51-100 "
- (large) = 101-500 "
- (very large) = 500+ "

FEBRUARY

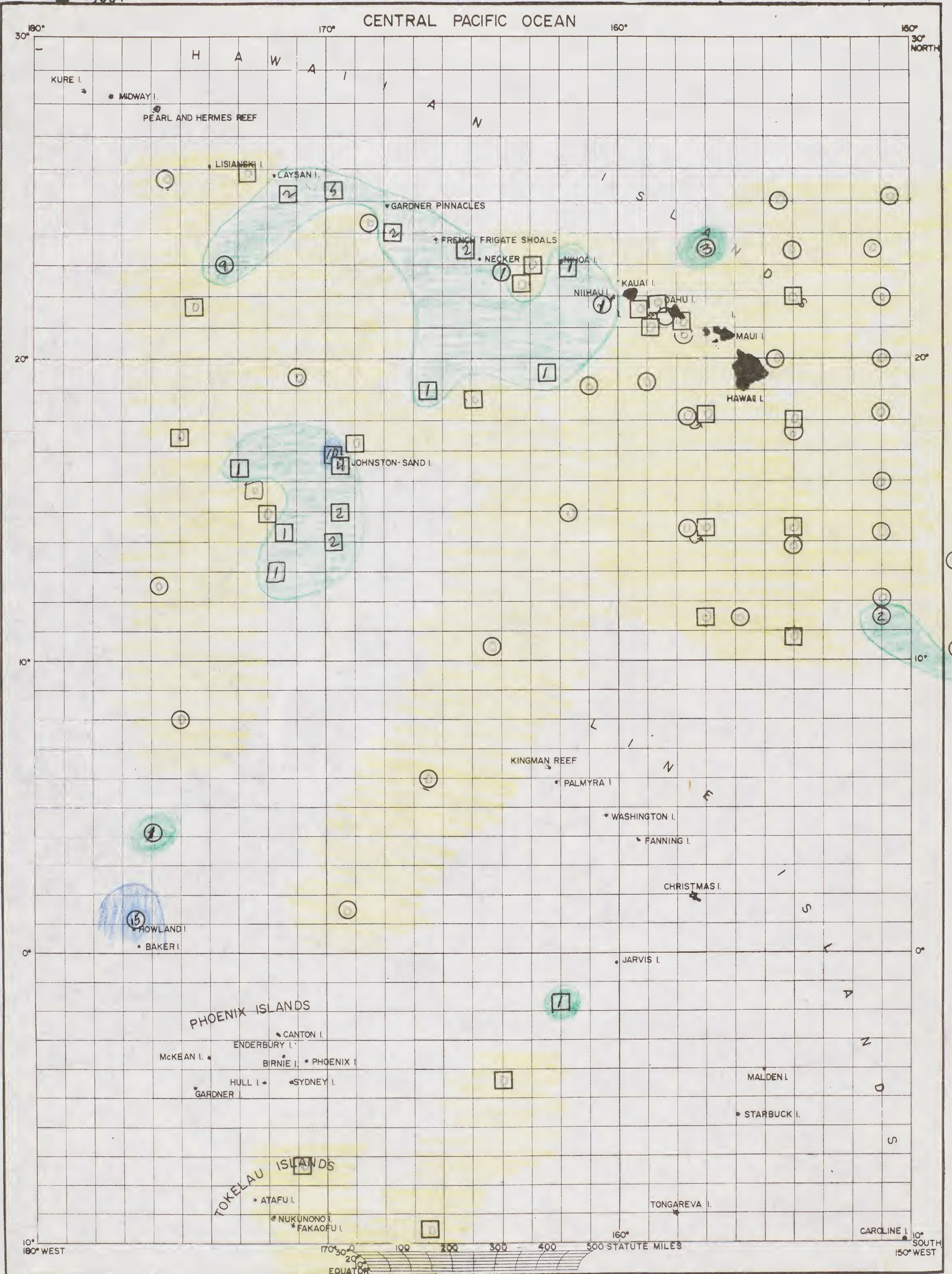
SI-MNH-38 (REV. 9-65)



- ☐ = 1-15 March
- = 16-31 March
- ④ = 0 birds
- = 1-10 "
- = 11-25 "
- = 26-50 "
- = 51-100 "
- = 101-500 "
- = 500+ "

MARCH

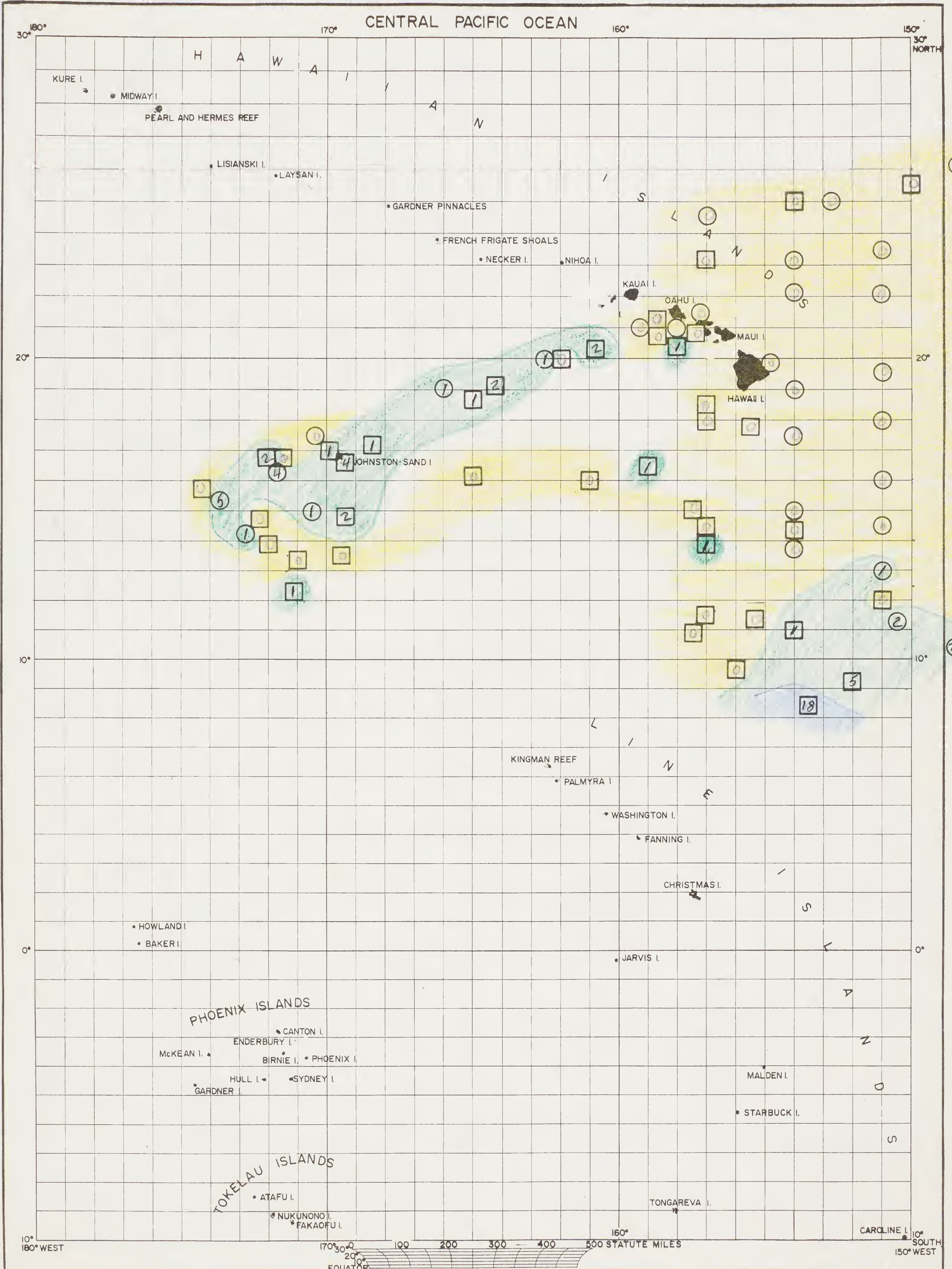
SI-MNH-38 (REV. 9-85)



- ☐ = 1-15 April
- = 16-31 April
- = 0 birds
- ④ = 1-10 "
- (with horizontal lines) = 11-25 "
- (with vertical lines) = 26-50 "
- (with diagonal lines) = 50-100 "
- (with diagonal lines) = 101-500 "
- (solid) = 500+ "

APRIL

SI-MNH-38 (REV. 9-65)

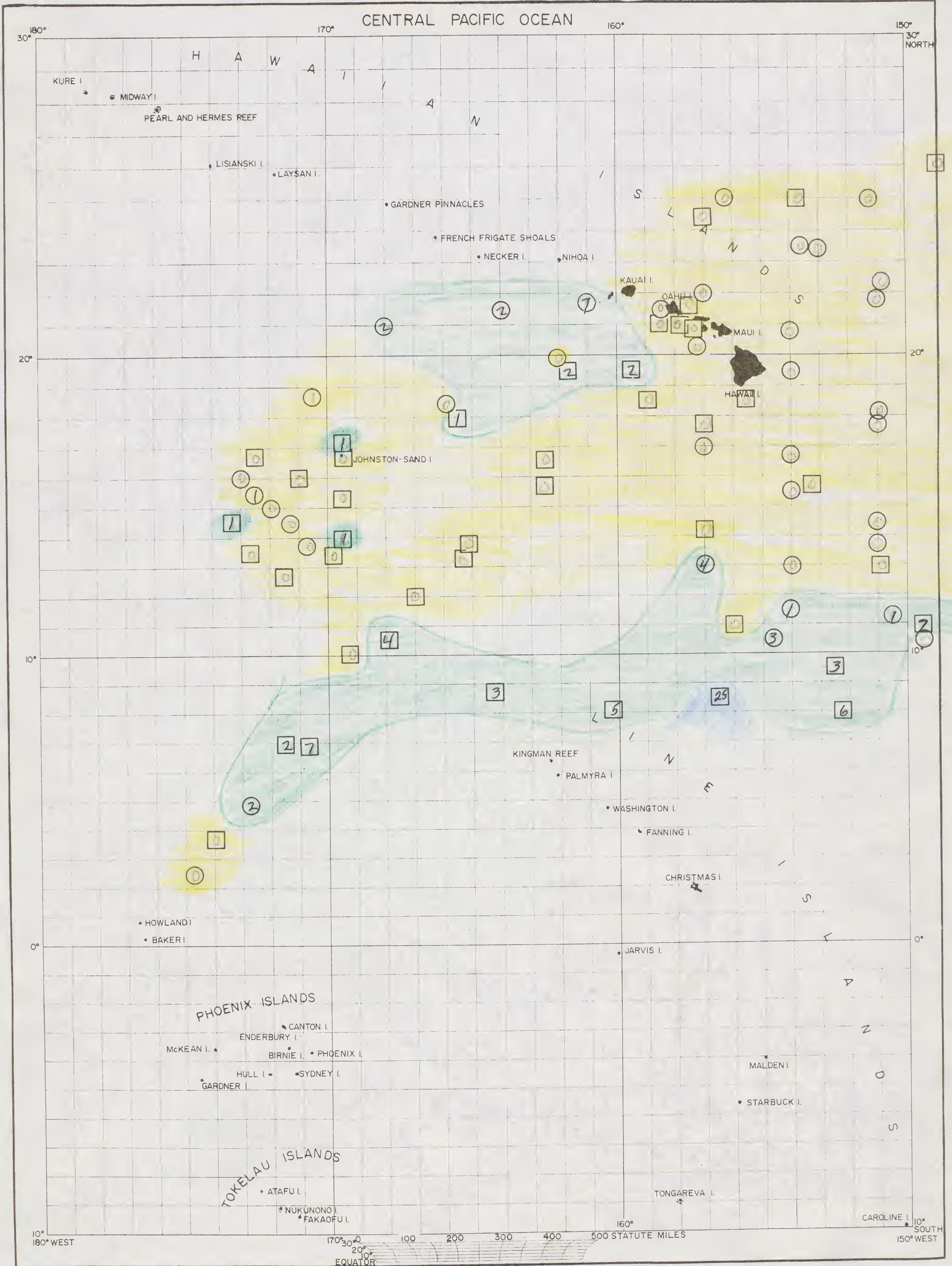


- ☐ 1-15 May
- = 16-31 May
- = 0 birds
- ④ = 1-10 "
- (with horizontal lines) = 11-25 "
- (with vertical lines) = 26-50 "
- (with diagonal lines) = 51-100 "
- = 101-500 "
- (with horizontal lines) = 500+ "

MAY

SI-MNH-38 (8-65)

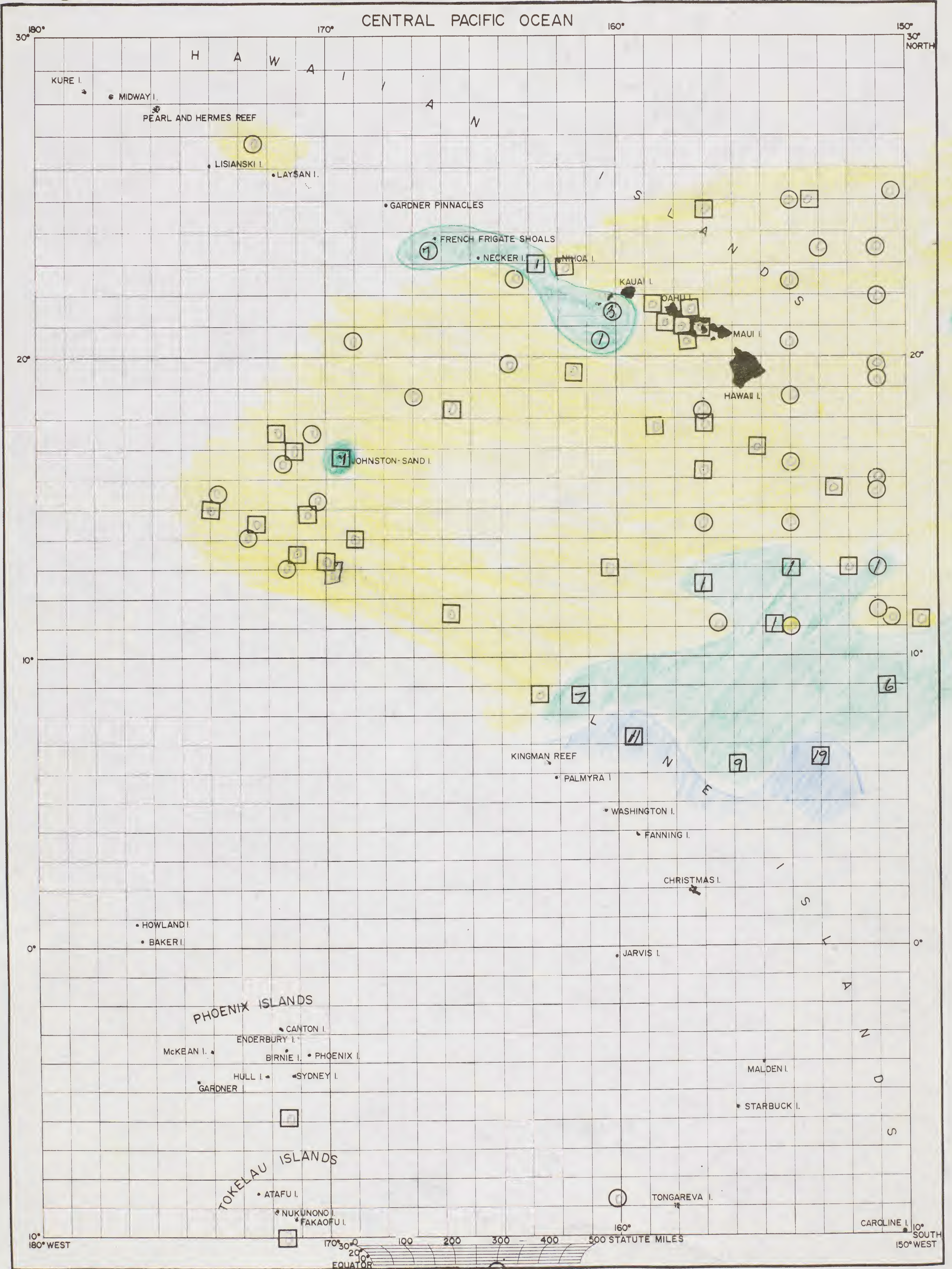
CENTRAL PACIFIC OCEAN



- 1-15 June
- = 16-31 June
- = 0 birds
- ④ = 1-10 "
- (with horizontal lines) = 11-25 "
- (with vertical lines) = 26-50 "
- (with diagonal lines) = 51-100 "
- = 101-500 "
- (with horizontal lines) = 500+ "

JUNE

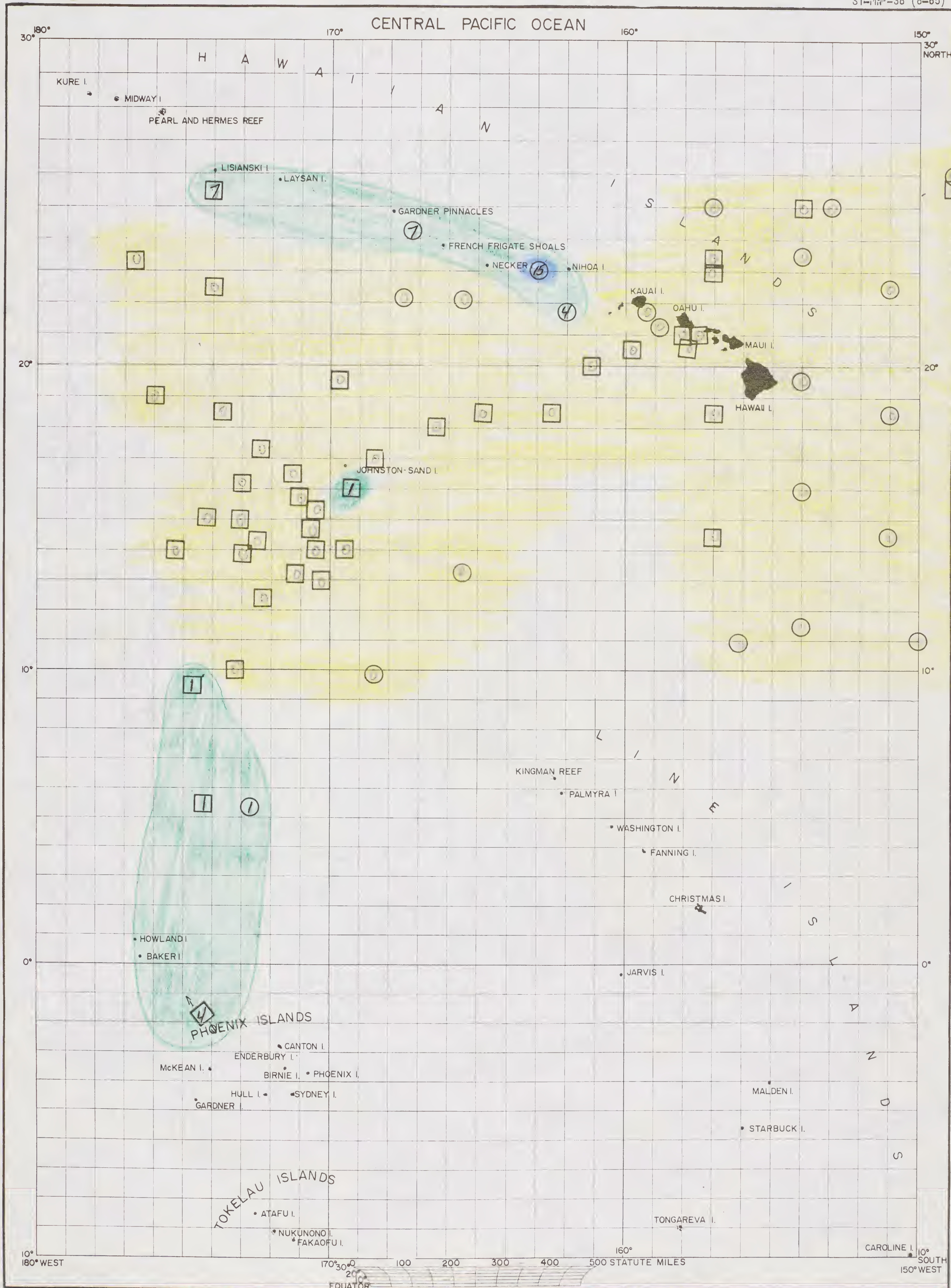
SI-MNH-38 (8-65)



- ☐ 1-15 July
- = 16-31 July
- = 0 birds
- ④ = 1-10 birds
- = 11-25 "
- = 26-50 "
- = 51-100 "
- = 101-500 "
- = 500+ "

JULY

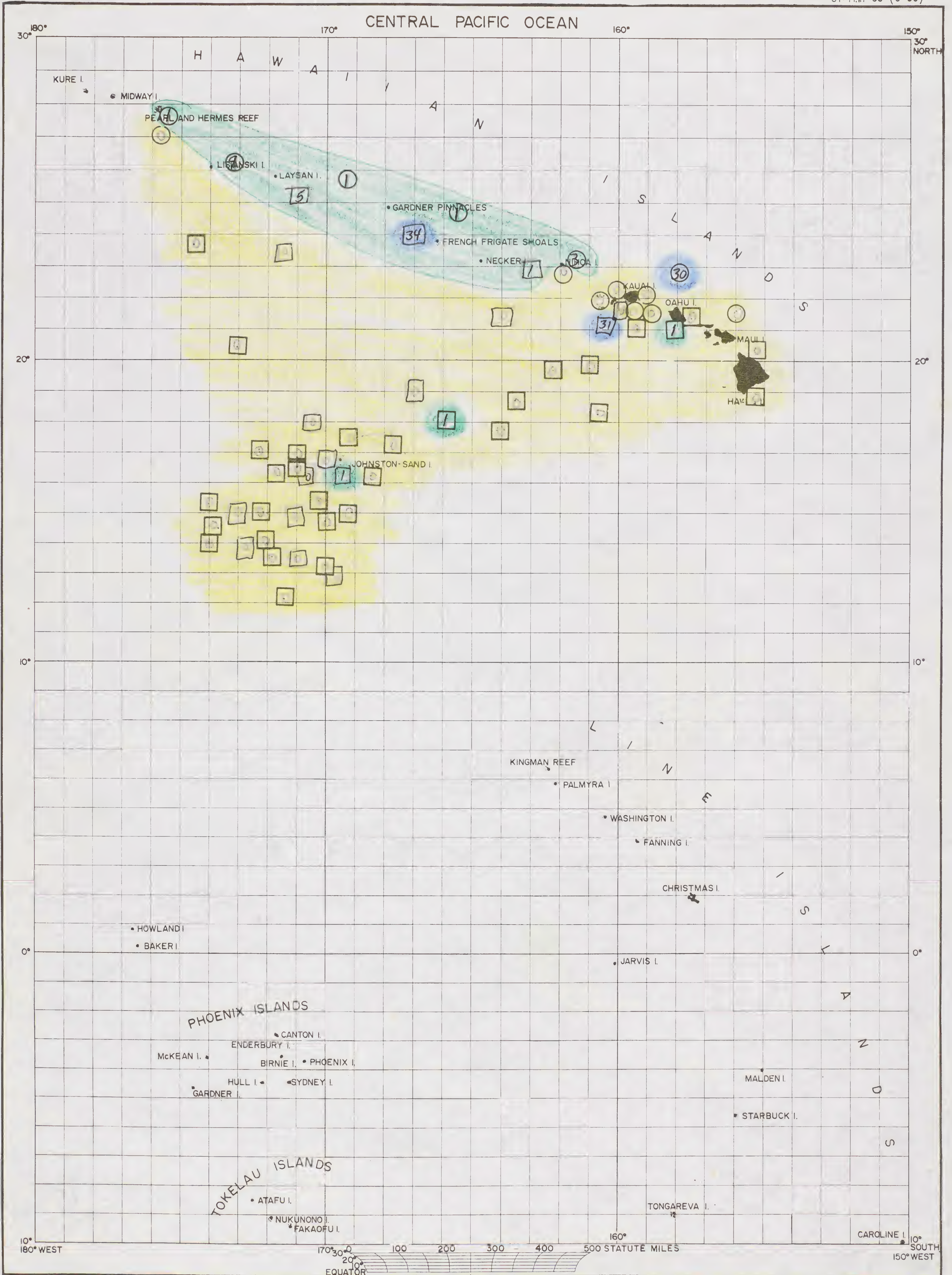
SI-MN-38 (8-65)



- ☐ 1-15 August
- = 16-31 August
- = 0 birds
- ④ = 1-10 "
- (with horizontal lines) = 11-25 "
- (with vertical lines) = 26-50 "
- (with diagonal lines) = 51-100 "
- = 101-500 "
- (with horizontal lines) = 500+ "

AUGUST

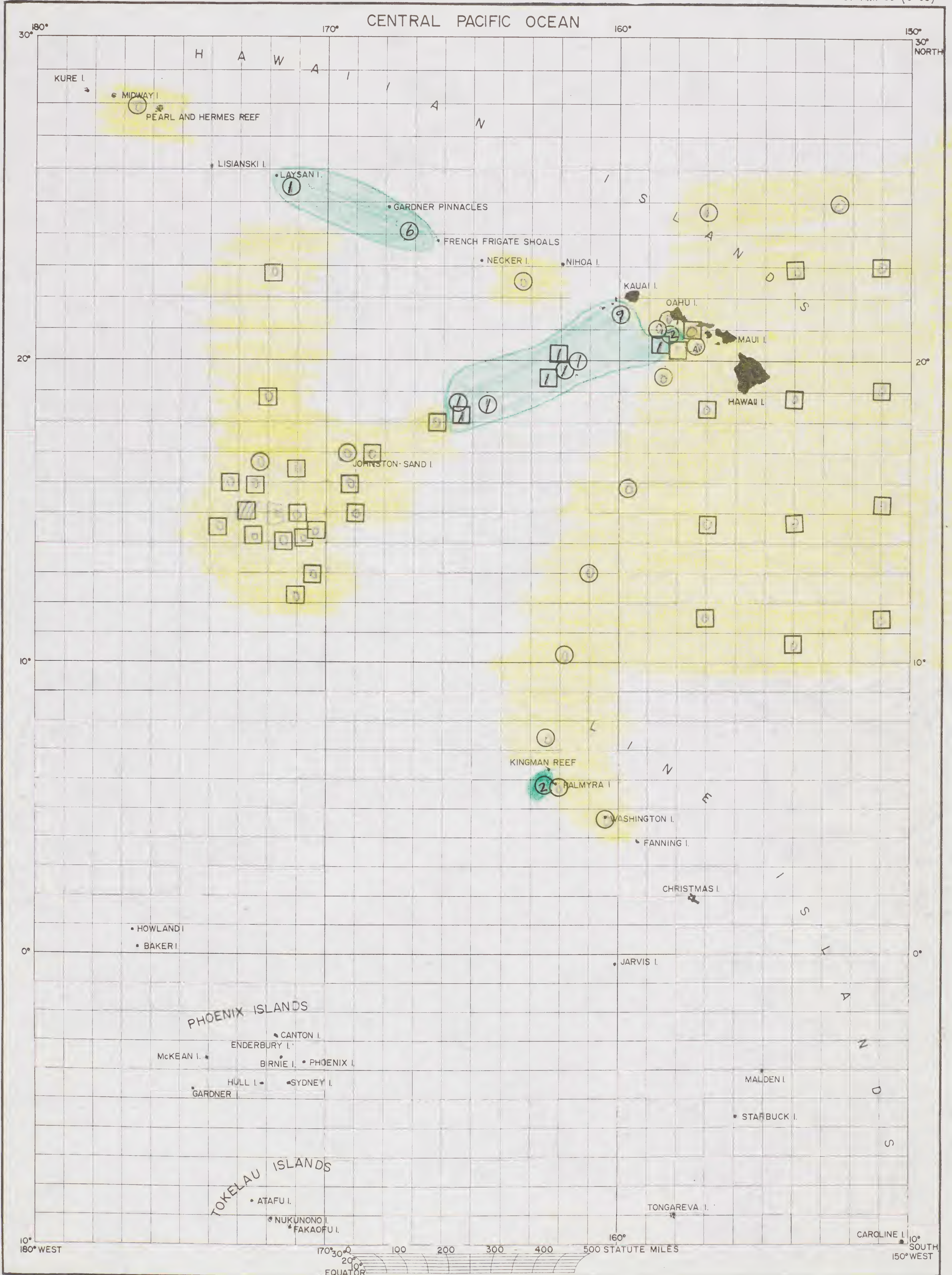
SI-MMM-38 (8-65)



- ☐ 1-15 September
- = 16-31 September
- = 0 birds
- ④ = 1-10 "
- ⊖ = 11-25 "
- ⊕ = 26-50 "
- ⊗ = 51-100 "
- = 101-500 "
- = 500+ "

SEPTEMBER

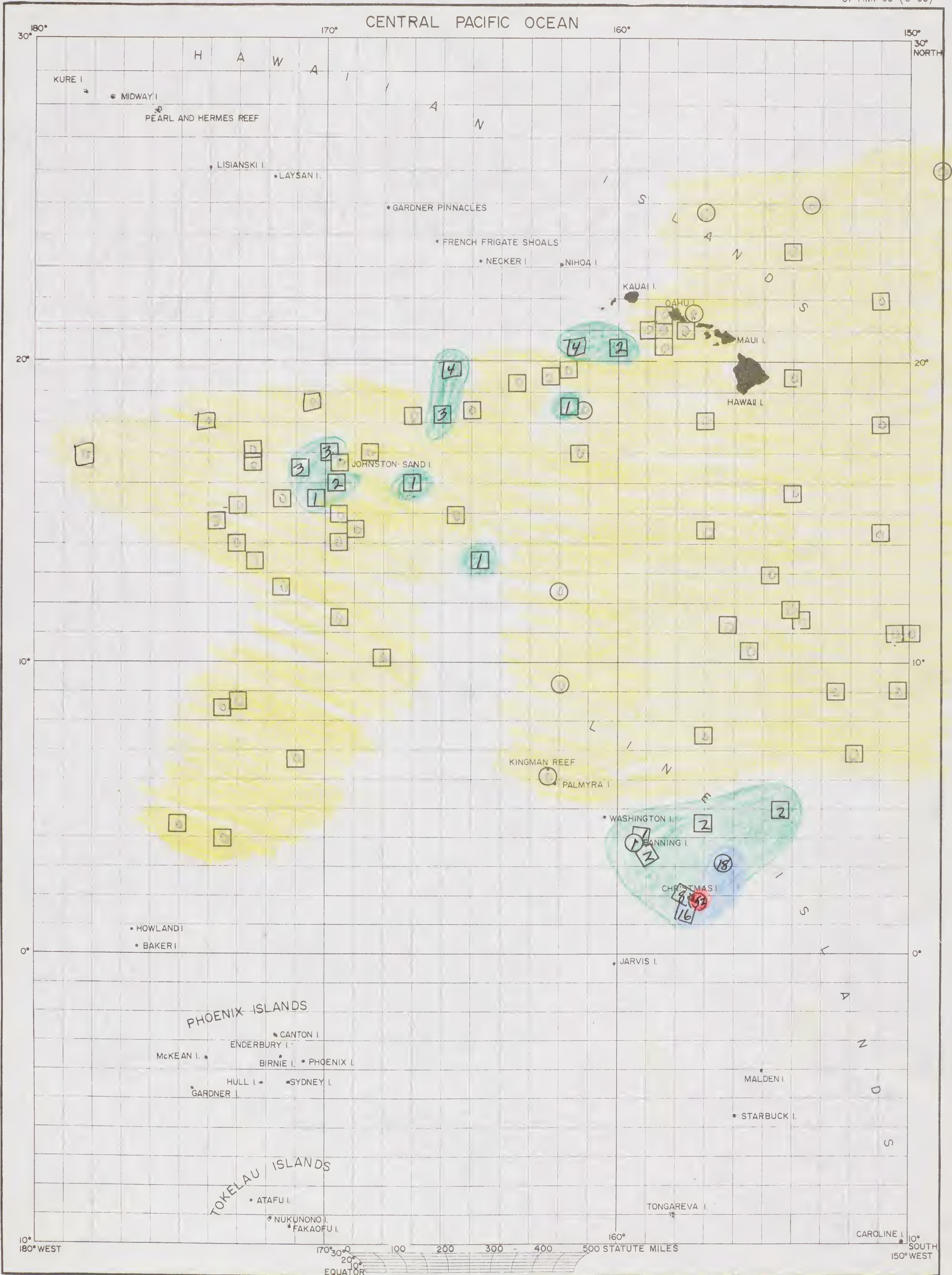
SI-MNH-38 (8-65)



- 1-15 October
- = 16-31 October
- = 0 birds
- ④ = 1-10 "
- (with horizontal lines) = 11-25 "
- (with vertical lines) = 26-50 "
- (with diagonal lines) = 51-100 "
- = 101-500 "
- (with horizontal lines) = 500+ "

OCTOBER

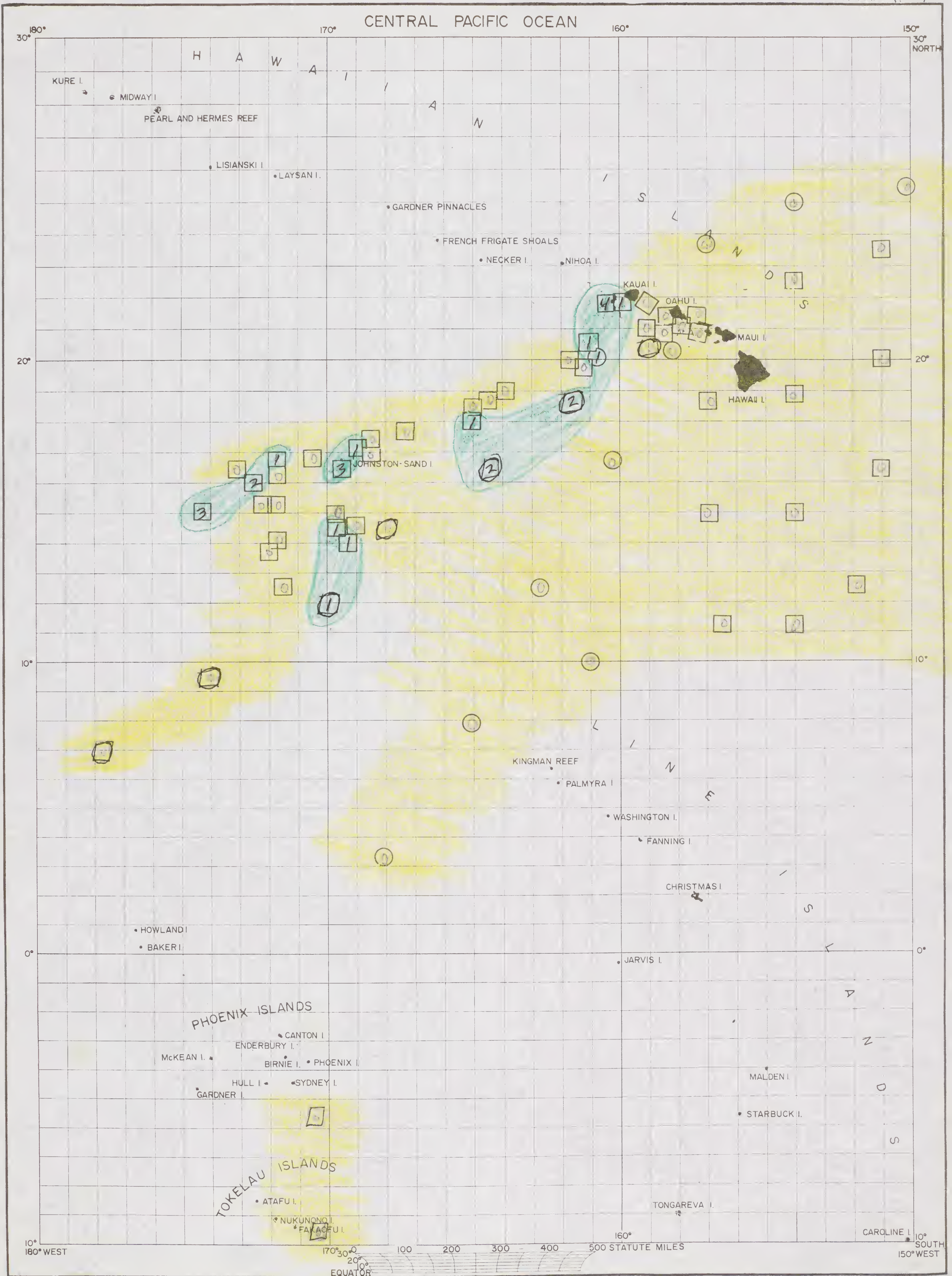
SI-MNH-38 (8-65)



- ☐ 1-15 November
- = 16-31 November
- = 0 birds
- ④ = 1-10 "
- (with horizontal lines) = 11-25 "
- (with vertical lines) = 26-50 "
- (with diagonal lines) = 51-100 "
- (with diagonal lines) = 101-500 "
- (solid black) = 500+ "

NOVEMBER

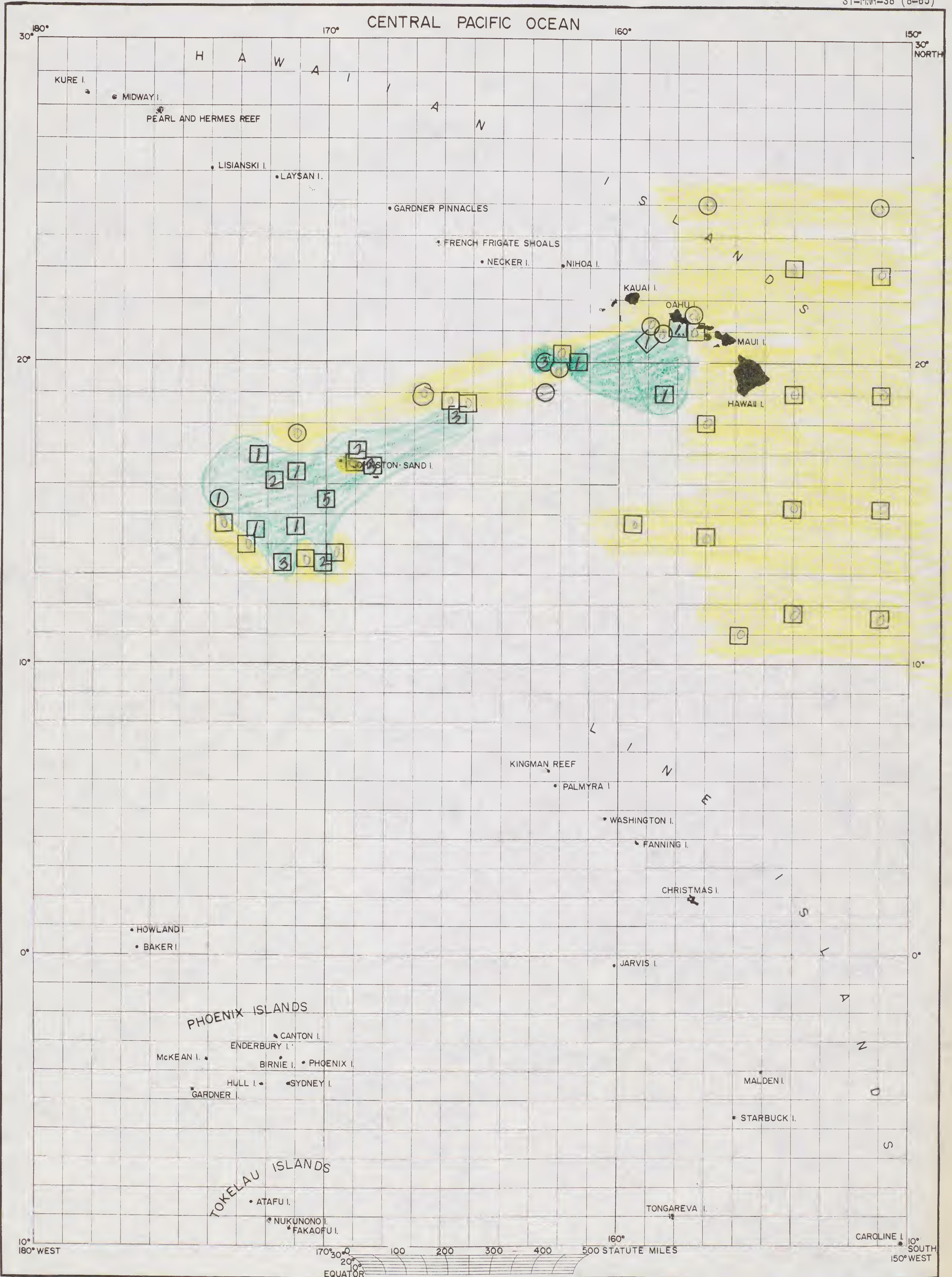
SI-MNH-38(8-55)



- 1-15 December
- = 16-31 December
- = 0 birds
- ④ = 1-10 "
- (with horizontal lines) = 11-25 "
- (with vertical lines) = 26-50 "
- (with diagonal lines) = 51-100 "
- = 101-500 "
- (large) = 500+ "

DECEMBER

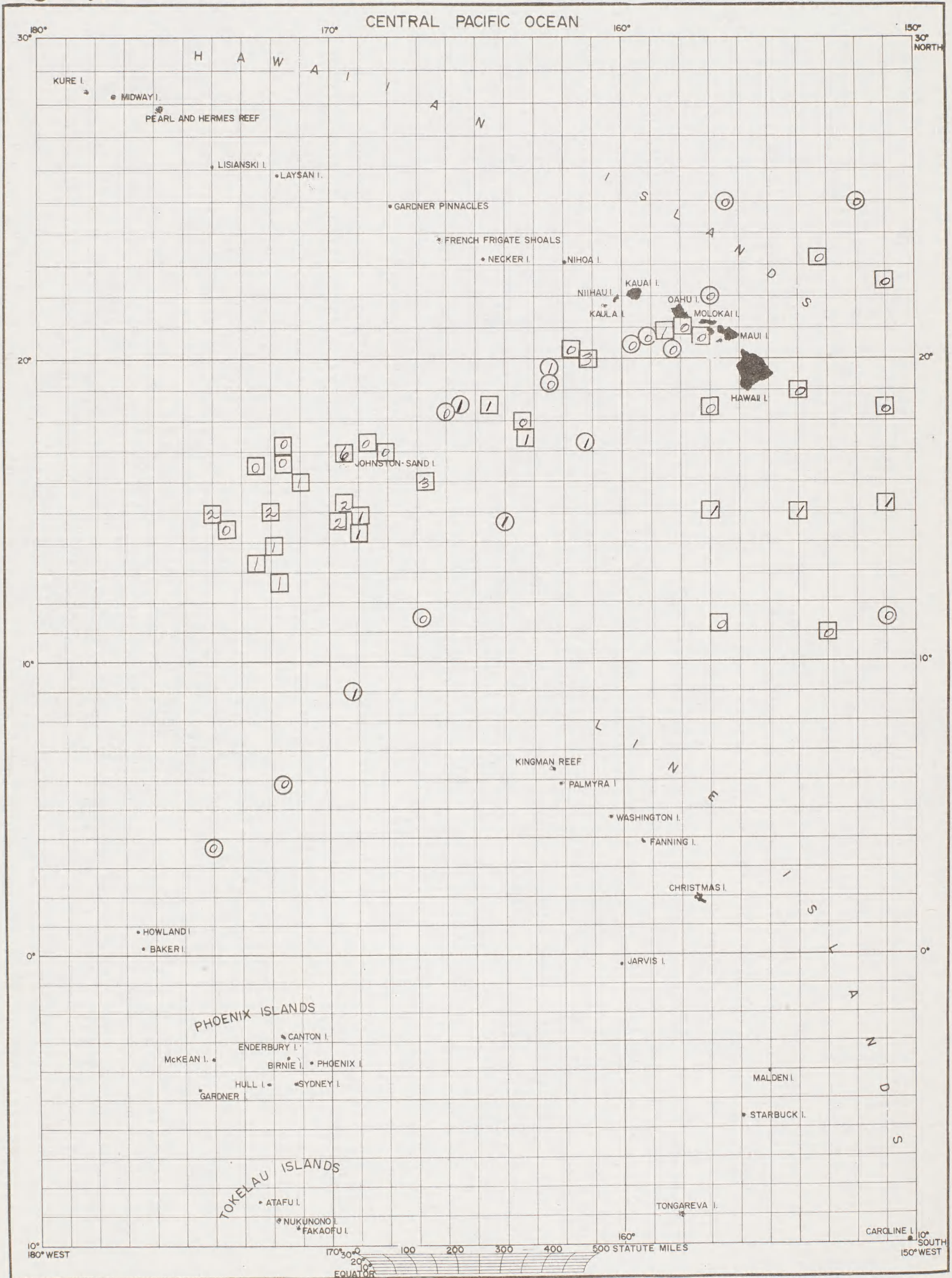
SI-MNH-38 (8-65)



- ☐ = 1-15 January
- = 16-31 January
- = 0 birds
- ④ = 1-10 "
- (with horizontal lines) = 11-25 "
- (with vertical lines) = 26-50 "
- (with diagonal lines) = 51-100 "
- (with diagonal lines) = 101-500 "
- (solid) = 500+ "

JANUARY

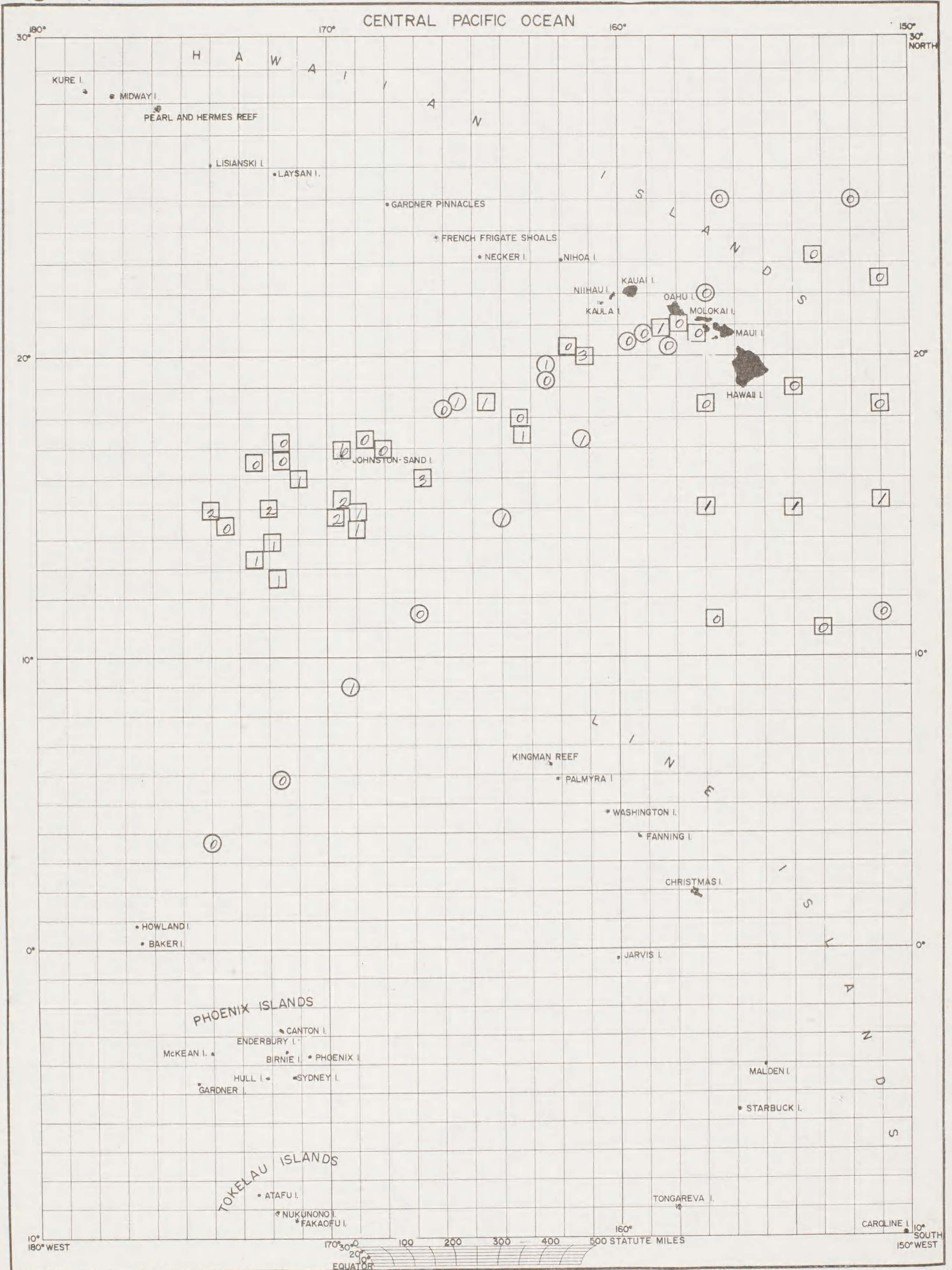
SI-MN-38 (REV. 9-65)



- ☐ = 1-15 January
- = 16-31 January
- = 0 birds
- ④ = 1-10 "
- (with horizontal lines) = 11-25 "
- (with vertical lines) = 26-50 "
- (with diagonal lines) = 51-100 "
- (with diagonal lines) = 101-500 "
- (solid) = 500+ "

JANUARY

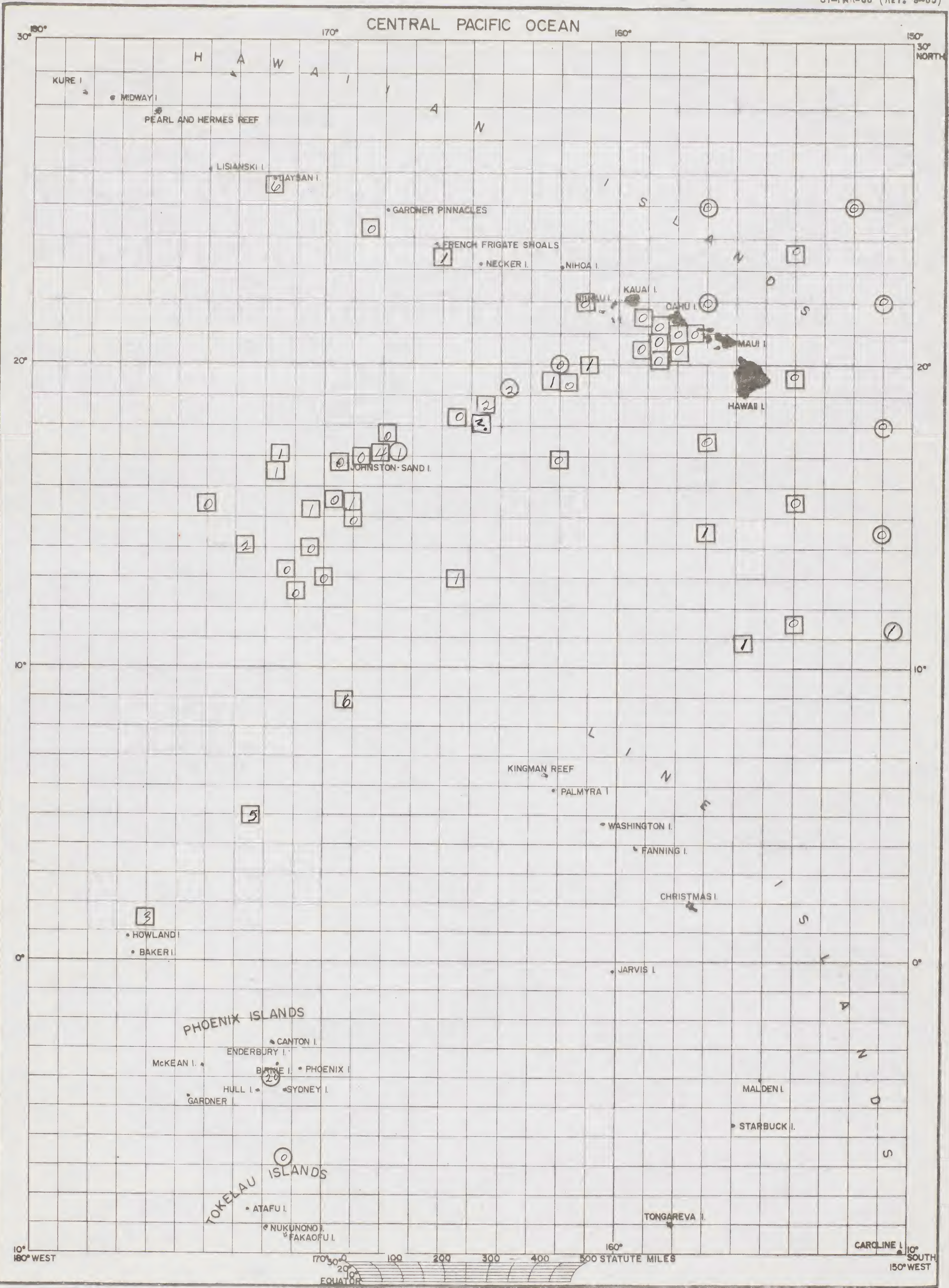
SI-MN-38 (REV. 9-65)



- ☐ = 1-15 February
- = 16-31 February
- ④ = 0 birds
- = 1-10 "
- = 11-25 "
- = 26-50 "
- = 51-100 "
- = 101-500 "
- = 500+ "

FEBRUARY

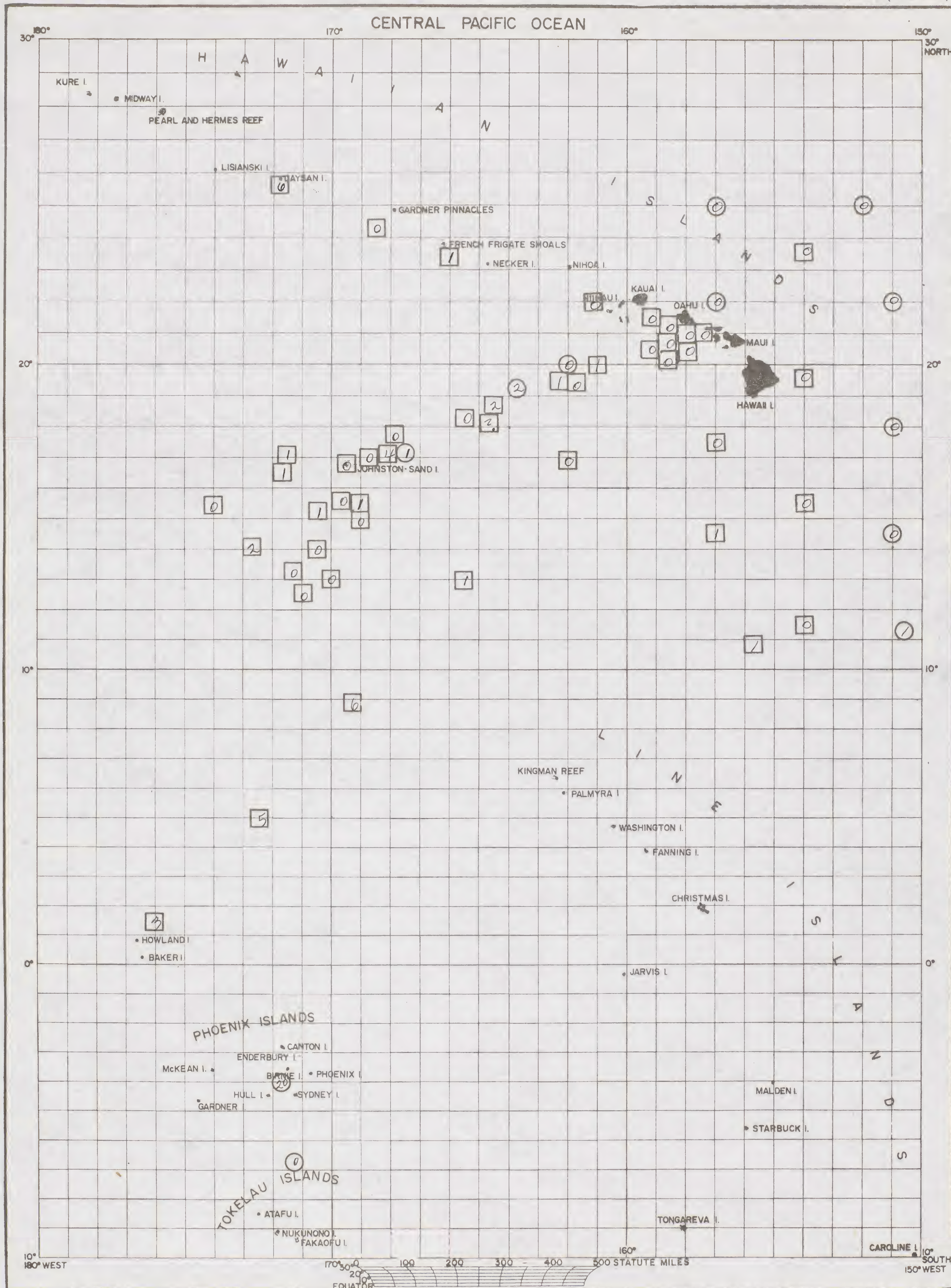
SI-MNH-38 (REV. 9-85)



- ☐ = 1-15 February
- ◯ = 16-31 February
- ④ = 0 birds
- ◯ = 1-10 "
- ◯ = 11-25 "
- ◯ = 26-50 "
- ◯ = 51-100 "
- = 101-500 "
- = 500+ "

FEBRUARY

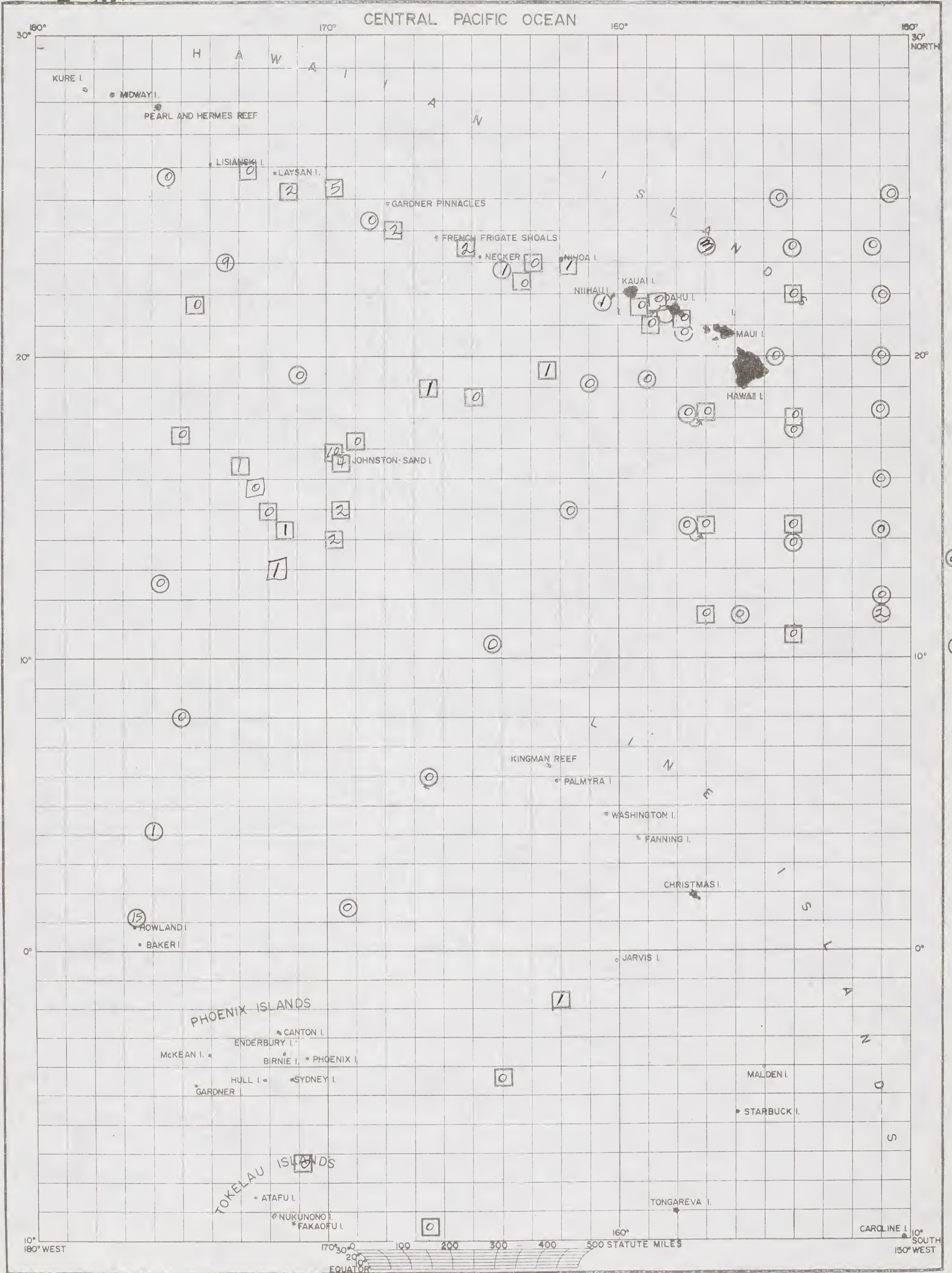
SI-MNH-38 (REV. 9-85)



- ☐ = 1-15 March
- = 16-31 March
- ④ = 0 birds
- = 1-10 "
- = 11-25 "
- = 26-50 "
- = 51-100 "
- = 101-500 "
- = 500+ "

MARCH

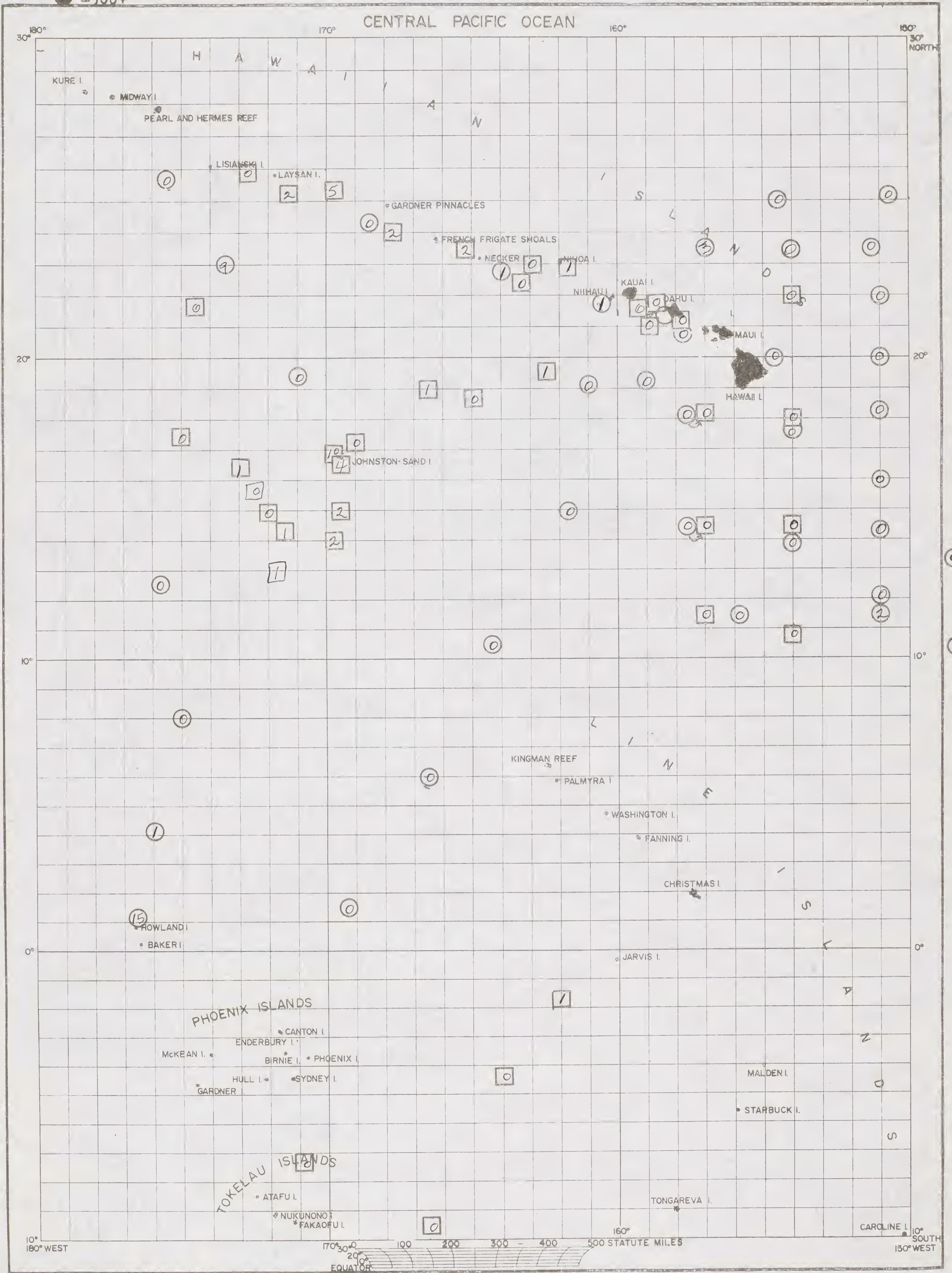
SI-MNH-38 (REV. 9-85)



- ☐ = 1-15 March
- = 16-31 March
- ④ = 0 birds
- (small) = 1-10 "
- (medium) = 11-25 "
- (large) = 26-50 "
- (very large) = 51-100 "
- (small) = 101-500 "
- (large) = 500+ "

MARCH

SI-MNH-38 (REV. 9-85)

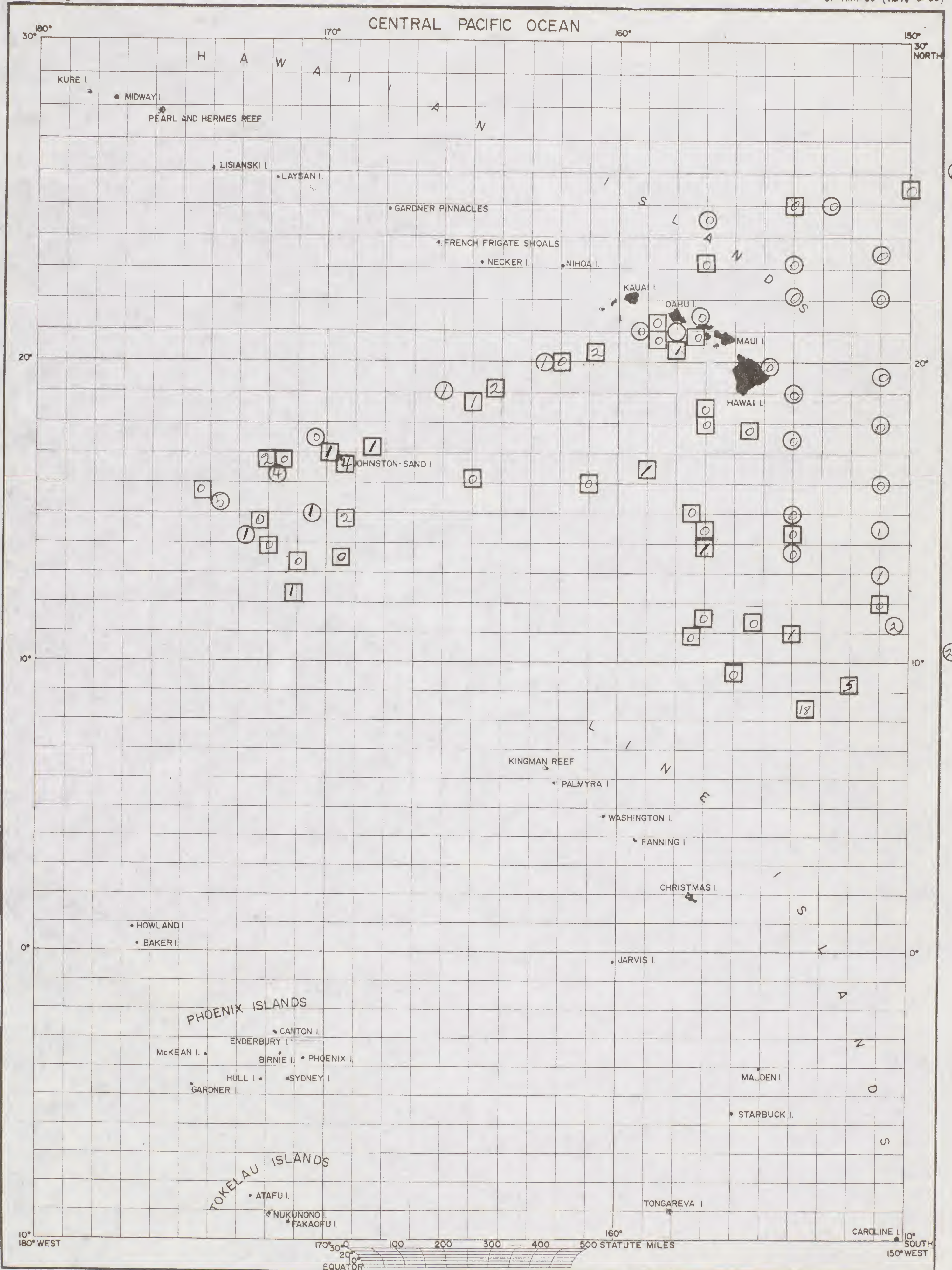


☐

- ☐ = 1-15 April
- = 16-31 April
- = 0 birds
- ④ = 1-10 "
- (with 1-25) = 11-25 "
- (with 26-50) = 26-50 "
- (with 50-100) = 50-100 "
- (with 101-500) = 101-500 "
- (with 500+) = 500+ "

APRIL

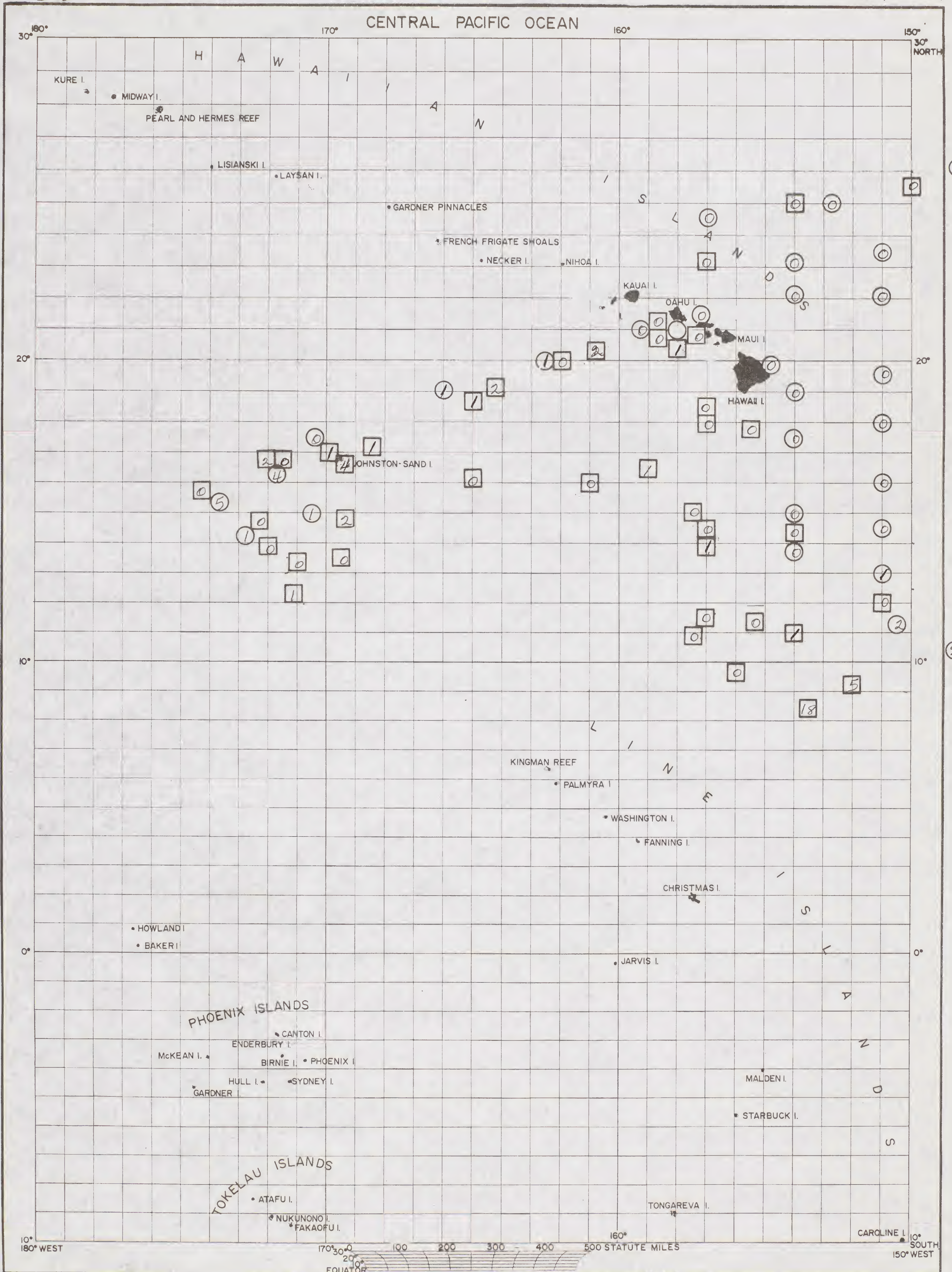
SI-MNH-38 (REV. 9-85)



- ☐ = 1-15 April
- ◯ = 16-31 April
- ◯ = 0 birds
- ④ = 1-10 "
- ◯ (with horizontal lines) = 11-25 "
- ◯ (with vertical lines) = 26-50 "
- ◯ (with diagonal lines) = 50-100 "
- (with diagonal lines) = 101-500 "
- (solid) = 500+ "

APRIL

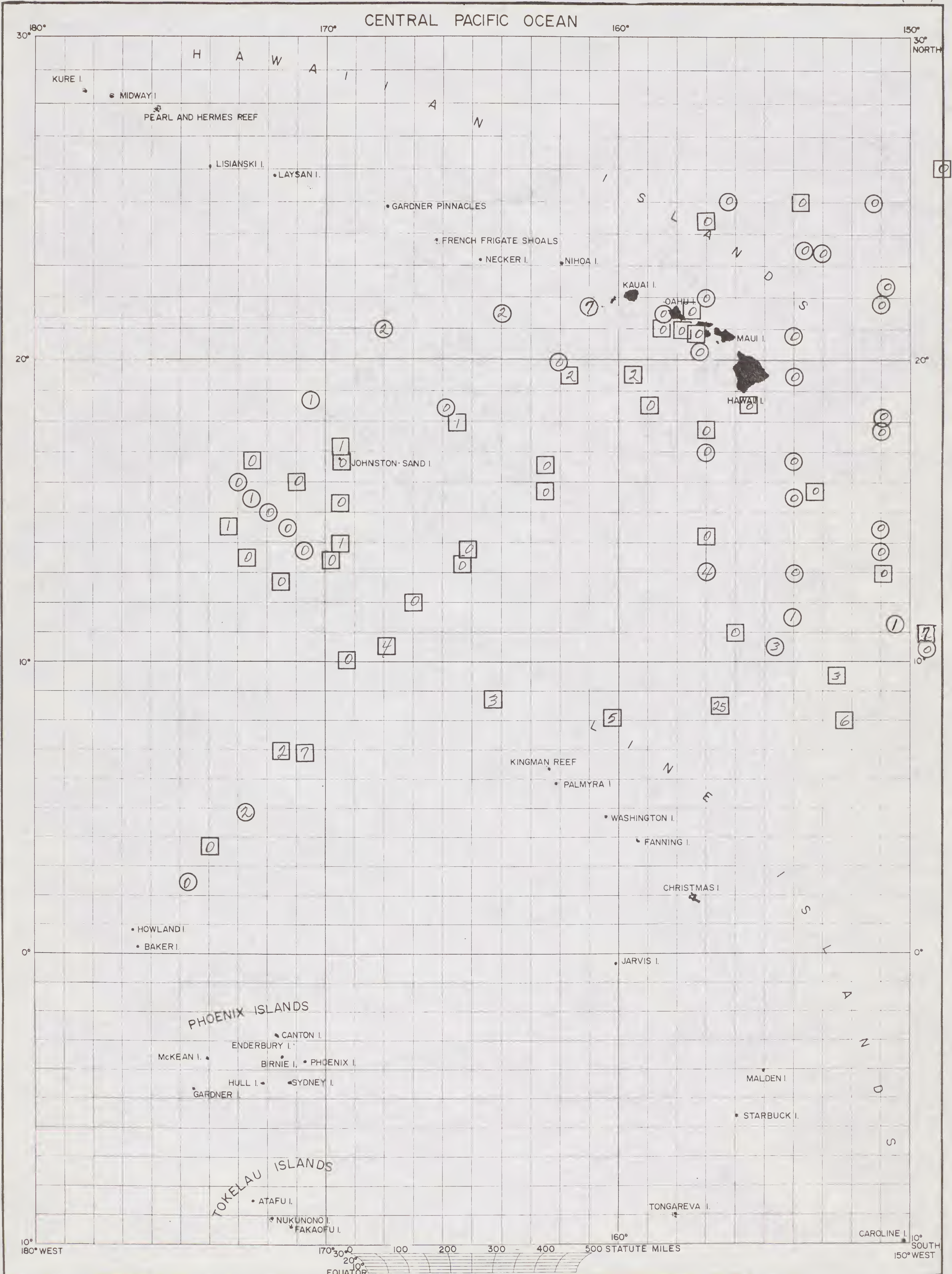
SI-MNH-38 (REV. 9-65)



- ☐ 1-15 May
- = 16-31 May
- = 0 birds
- ④ = 1-10 "
- (with horizontal lines) = 11-25 "
- (with vertical lines) = 26-50 "
- (with diagonal lines) = 51-100 "
- = 101-500 "
- (large) = 500+ "

MAY

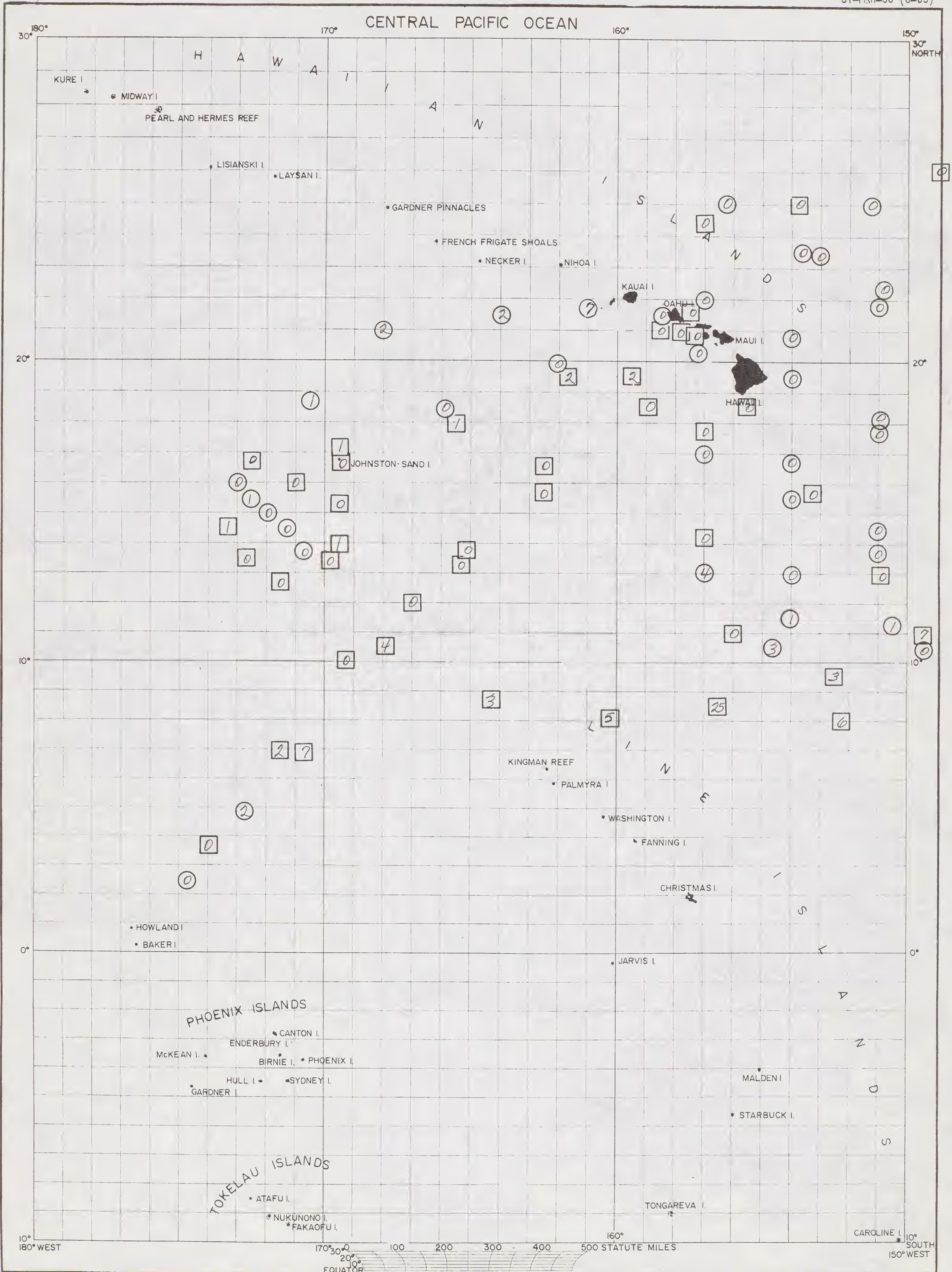
SI-MNH-38 (8-65)



- ☐ 1-15 May
- = 16-31 May
- = 0 birds
- ④ = 1-10 "
- (with horizontal lines) = 11-25 "
- (with vertical lines) = 26-50 "
- (with diagonal lines) = 51-100 "
- = 101-500 "
- (large) = 500+ "

MAY

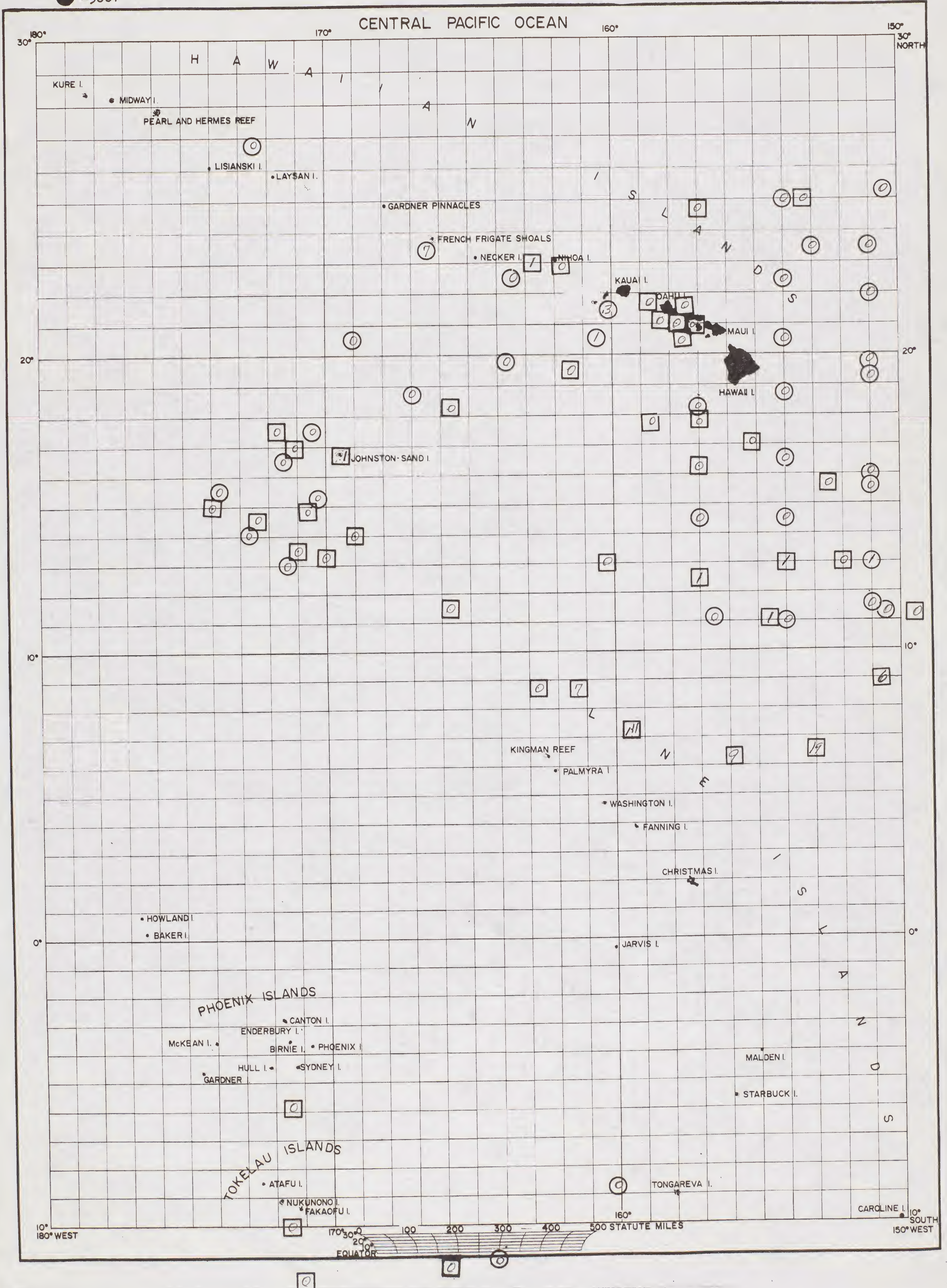
SI-MNH-38 (8-65)



- 1-15 June
- = 16-31 June
- = 0 birds
- ④ = 1-10 "
- (with 1) = 11-25 "
- (with 2) = 26-50 "
- (with 3) = 51-100 "
- (with 1) = 101-500 "
- (with 2) = 500+ "

JUNE

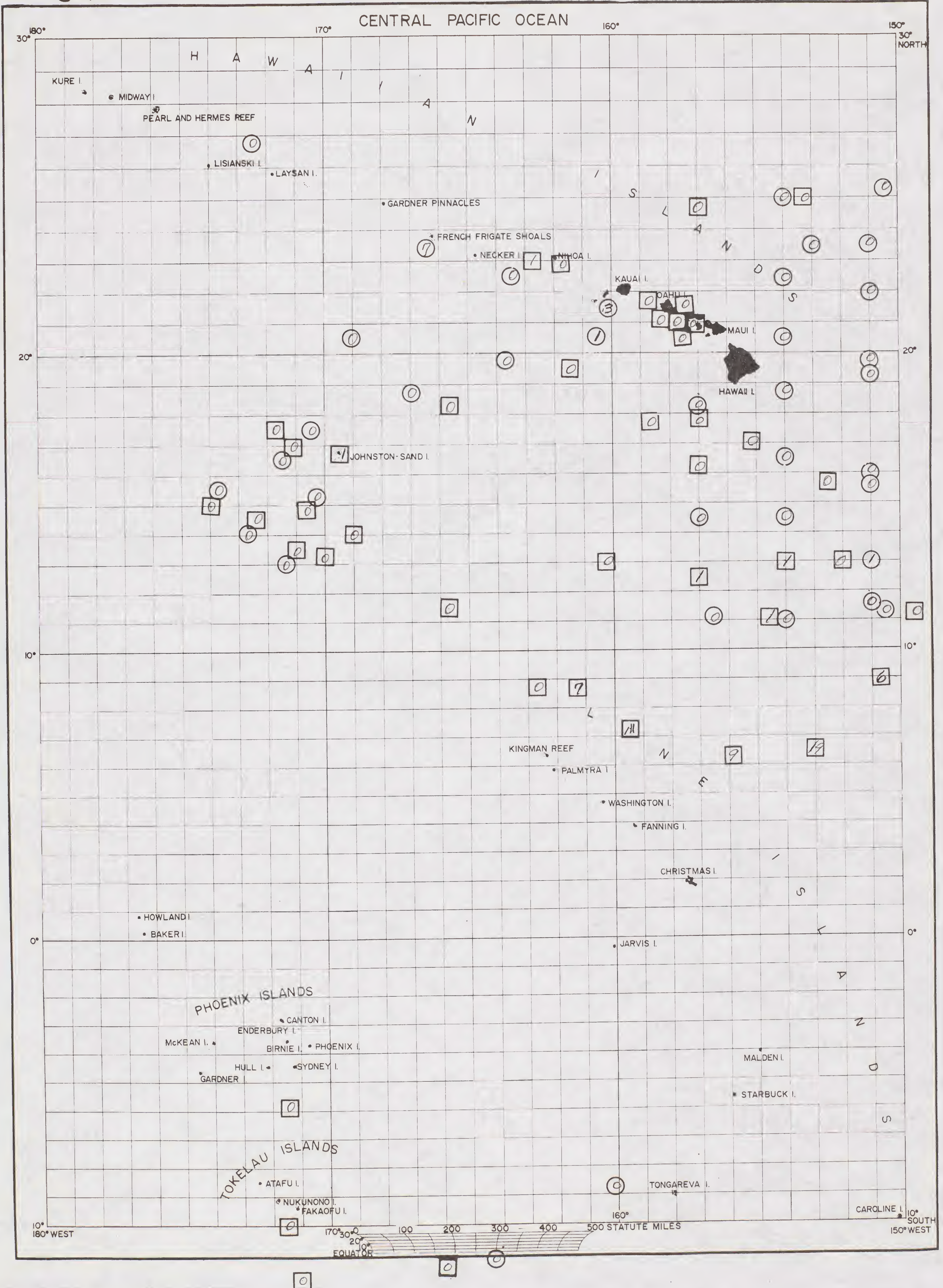
SI-MNH-38 (8-65)



- ☐ 1-15 June
- = 16-31 June
- = 0 birds
- ④ = 1-10 "
- (with horizontal lines) = 11-25 "
- (with vertical lines) = 26-50 "
- (with diagonal lines /) = 51-100 "
- = 101-500 "
- (with horizontal lines) = 500+ "

JUNE

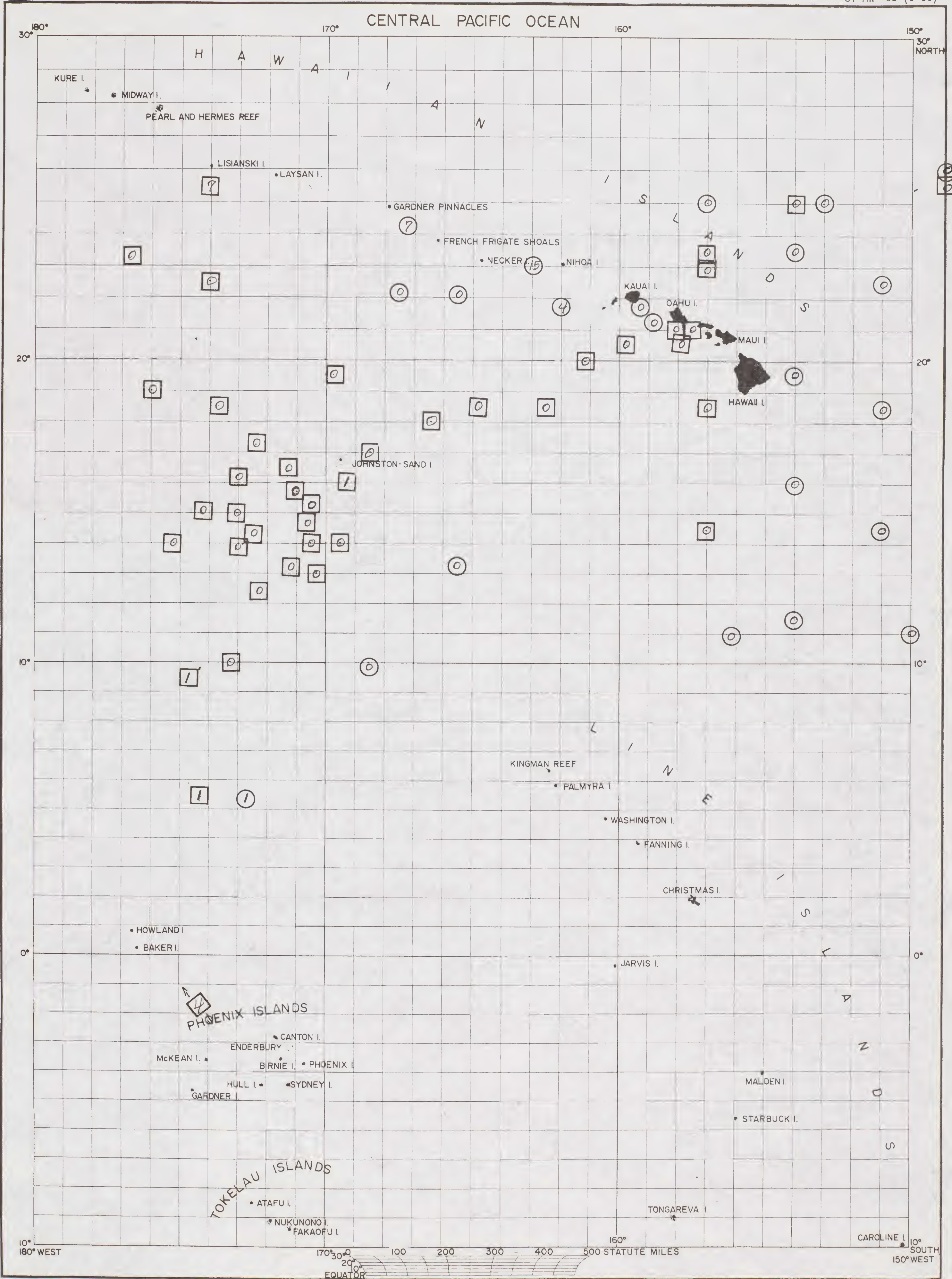
SI-MNH-38 (8-65)



- ☐ 1-15 July
- = 16-31 July
- = 0 birds
- ④ = 1-10 birds
- (with horizontal lines) = 11-25 "
- (with vertical lines) = 26-50 "
- (with diagonal lines) = 51-100 "
- = 101-500 "
- (large) = 500+ "

JULY

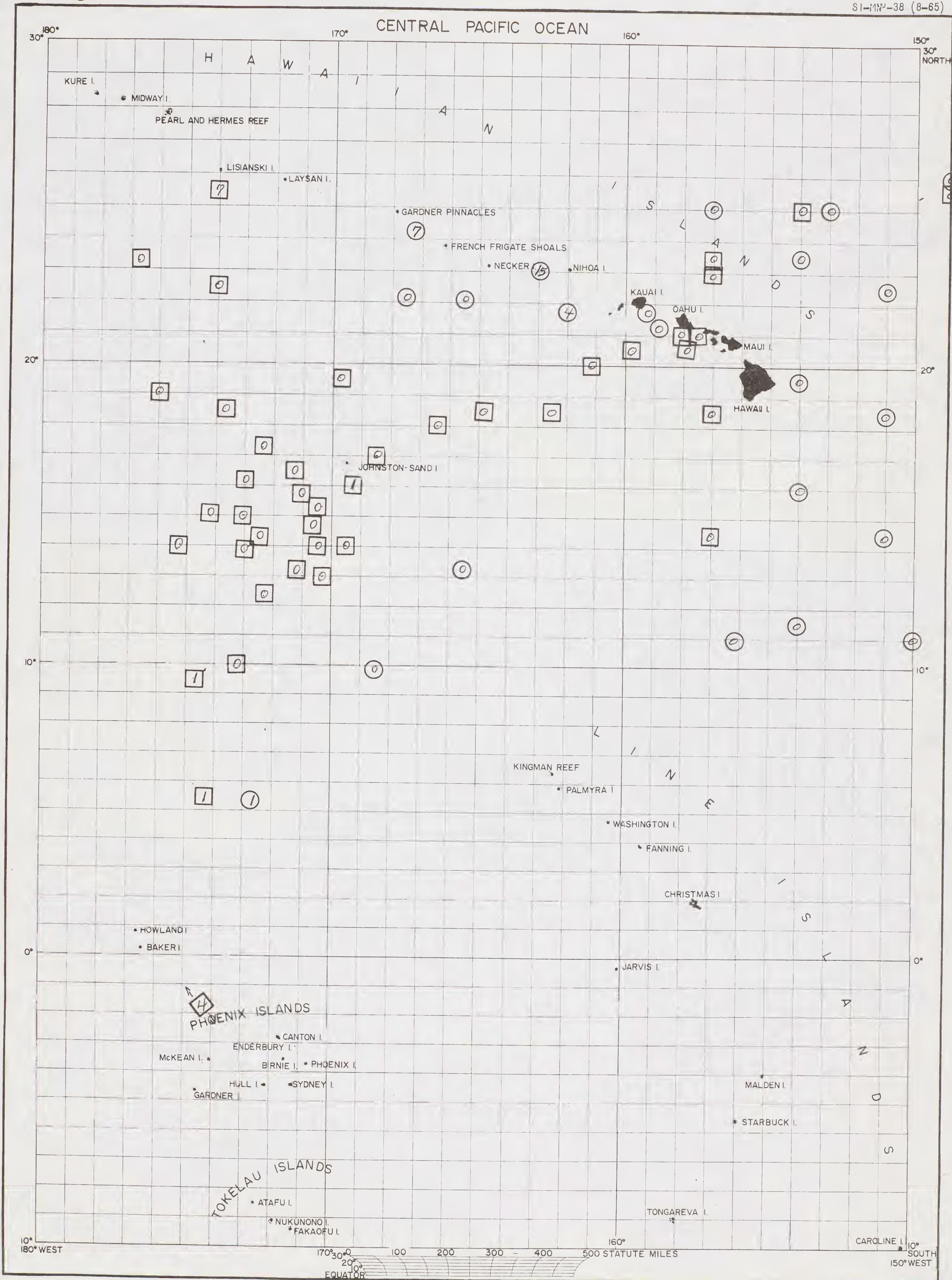
SI-MNH-38 (8-65)



- ☐ 1-15 July
- = 16-31 July
- = 0 birds
- Ⓐ = 1-10 birds
- = 11-25 "
- = 26-50 "
- = 51-100 "
- = 101-500 "
- = 500+ "

JULY

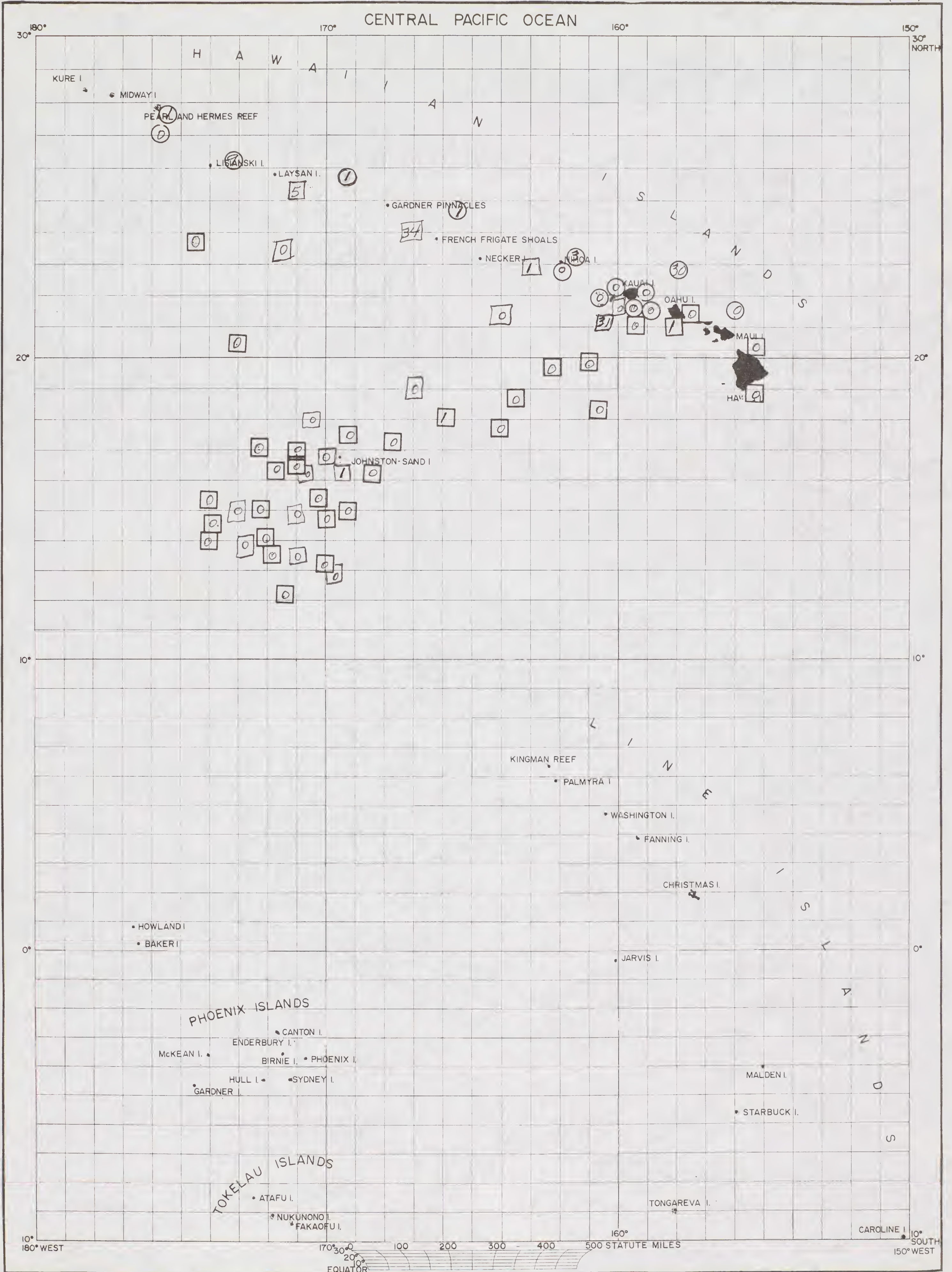
SI-MN-38 (8-65)



- ☐ 1-15 August
- = 16-31 August
- = 0 birds
- ④ = 1-10 "
- (with horizontal lines) = 11-25 "
- (with vertical lines) = 26-50 "
- (with diagonal lines) = 51-100 "
- = 101-500 "
- (large) = 500+ "

AUGUST

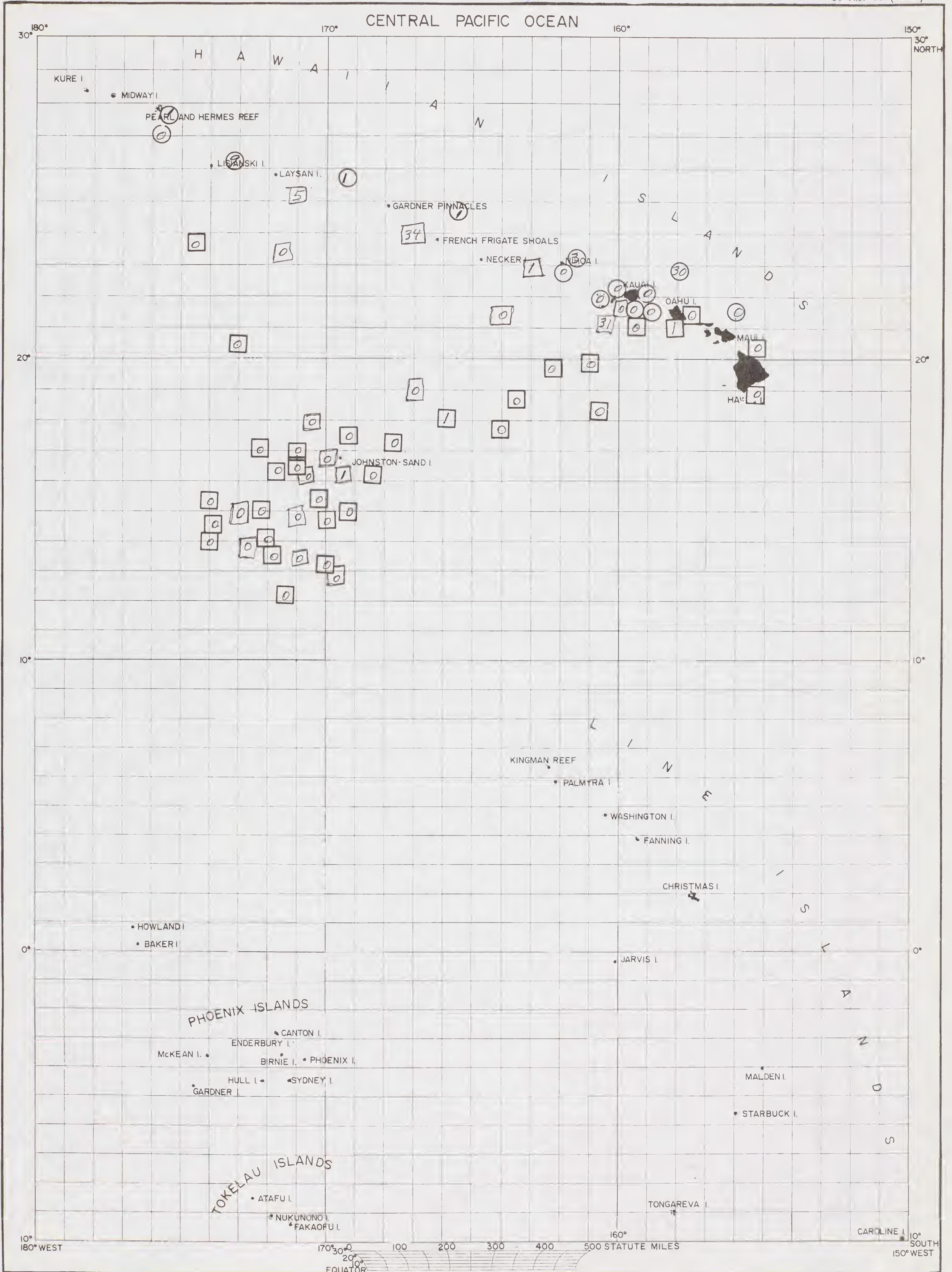
SI-MNH-38 (8-65)



- ☐ 1-15 August
- = 16-31 August
- = 0 birds
- ④ = 1-10 "
- (with horizontal lines) = 11-25 "
- (with vertical lines) = 26-50 "
- (with diagonal lines) = 51-100 "
- (with diagonal lines) = 101-500 "
- (solid black) = 500+ "

AUGUST

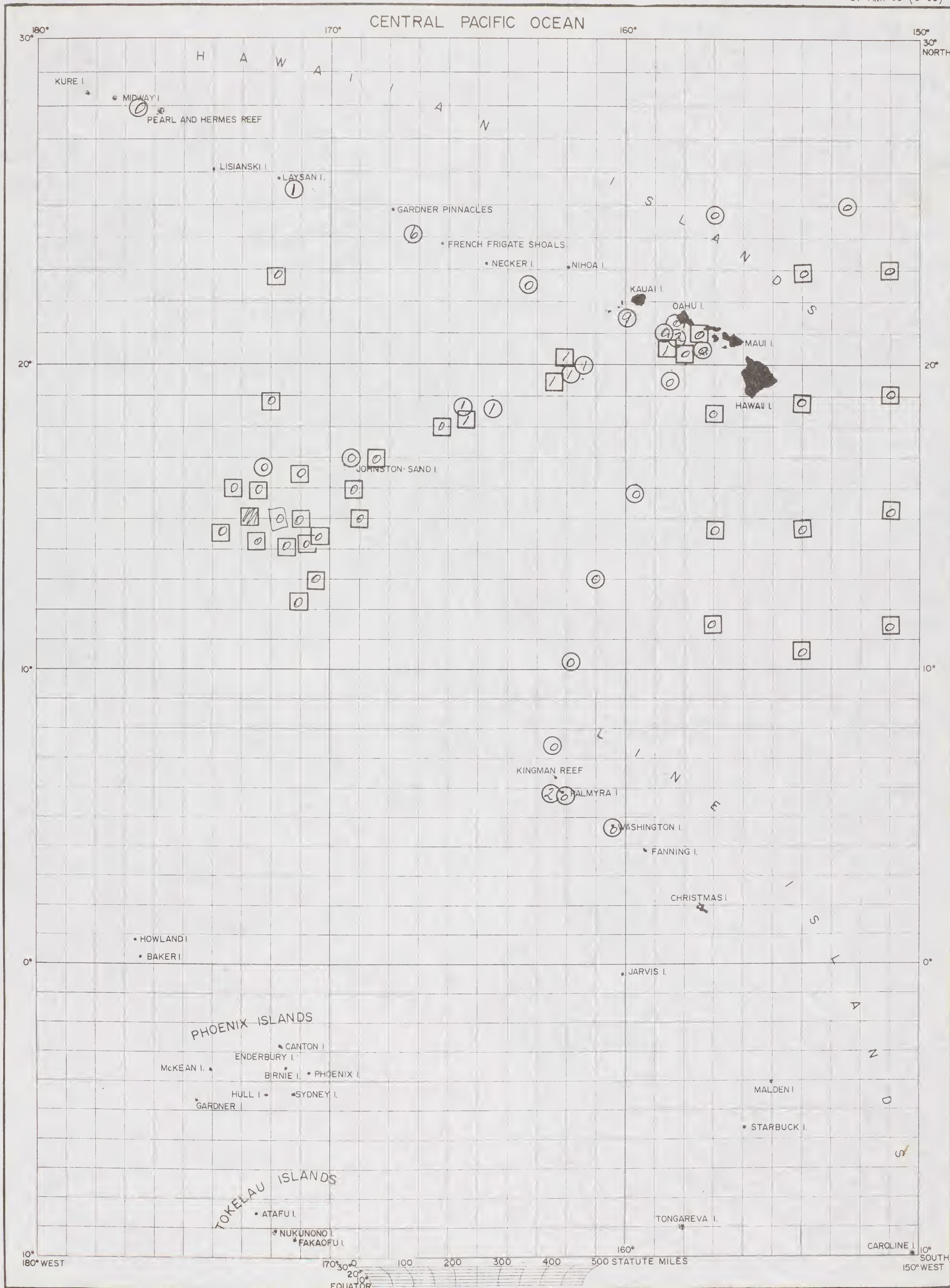
SI-MNH-38 (8-65)



- ☐ 1-15 September
- = 16-31 September
- = 0 birds
- ④ = 1-10 "
- (with horizontal lines) = 11-25 "
- (with vertical lines) = 26-50 "
- (with diagonal lines) = 51-100 "
- (with diagonal lines) = 101-500 "
- (solid black) = 500+ "

SEPTEMBER

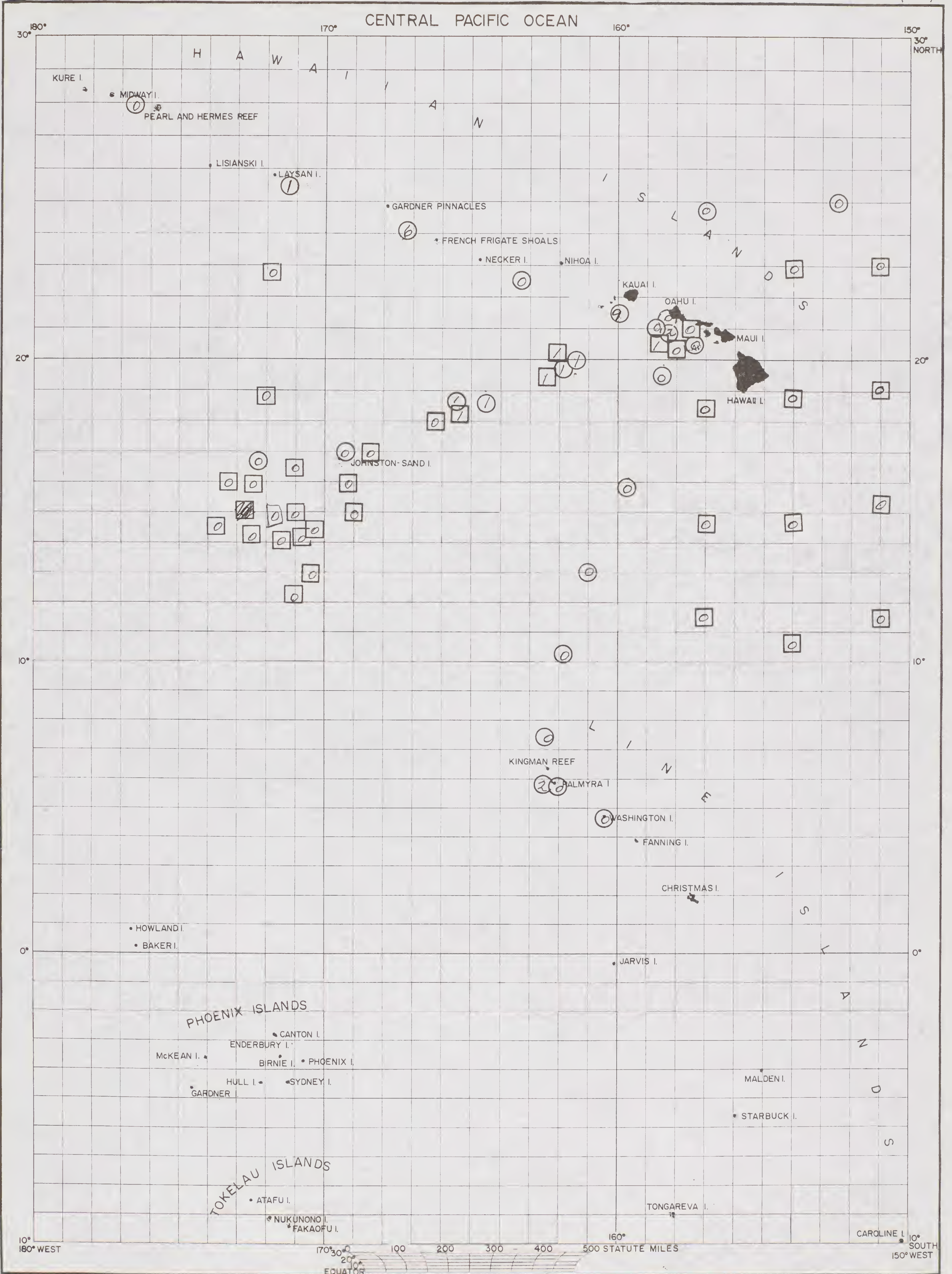
SI-MNH-38 (8-65)



- ☐ 1-15 September
- = 16-31 September
- = 0 birds
- ④ = 1-10 "
- (with horizontal lines) = 11-25 "
- (with vertical lines) = 26-50 "
- (with diagonal lines) = 51-100 "
- = 101-500 "
- (large) = 500+ "

SEPTEMBER

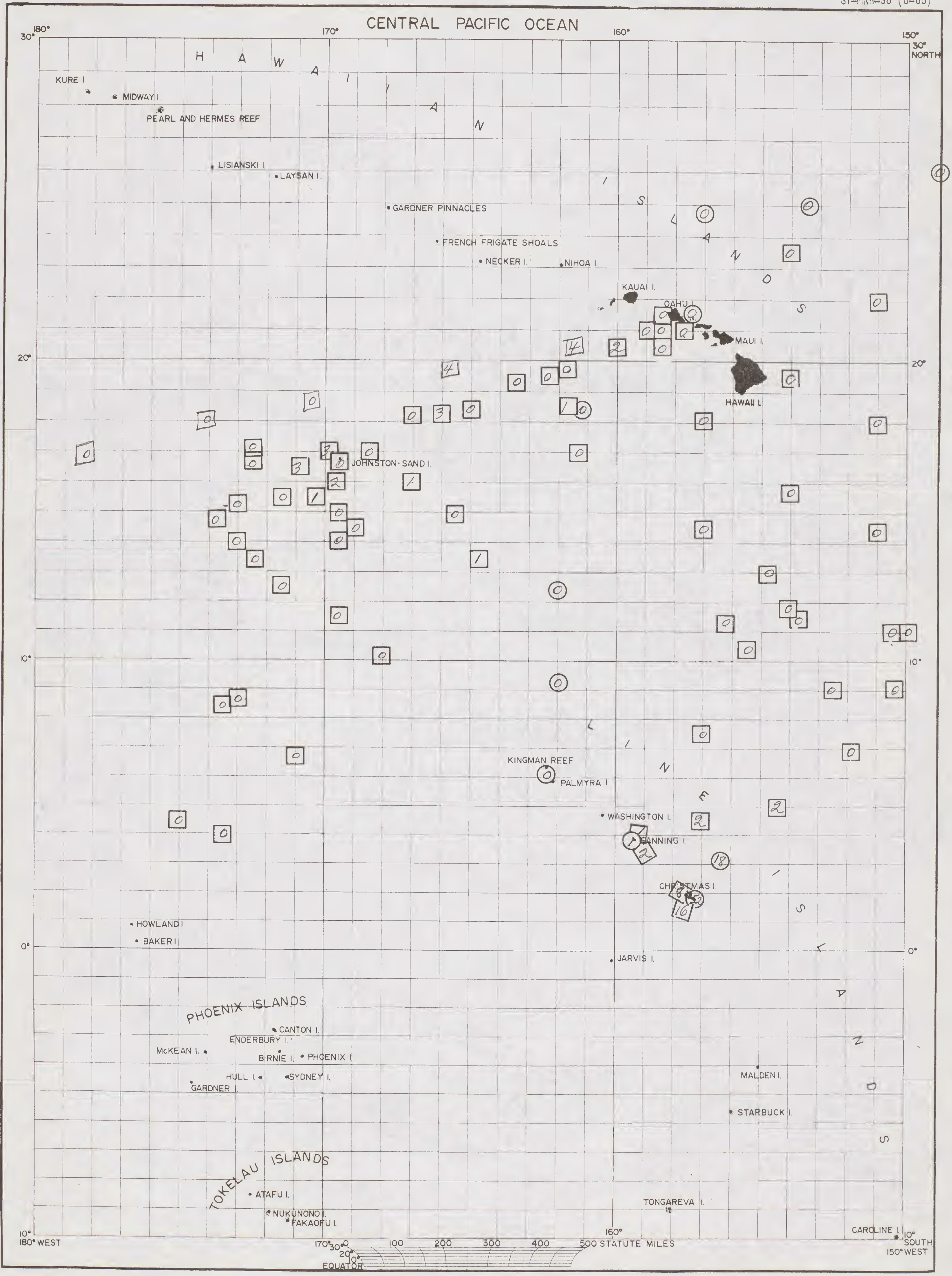
SI-MNH-38 (8-65)



- 1-15 October
- = 16-31 October
- = 0 birds
- ④ = 1-10 "
- (with horizontal lines) = 11-25 "
- (with vertical lines) = 26-50 "
- (with diagonal lines) = 51-100 "
- = 101-500 "
- (large) = 500+ "

OCTOBER

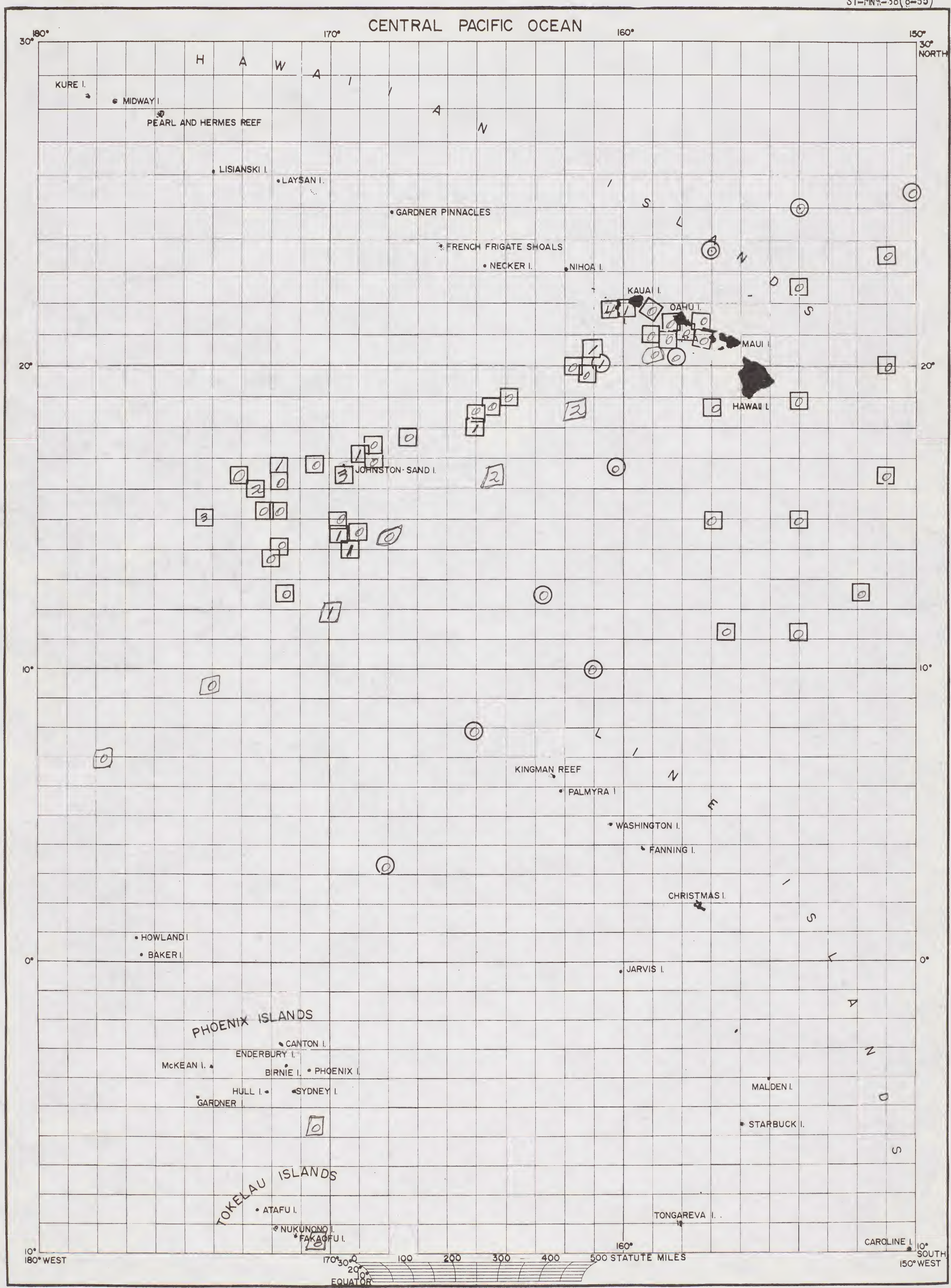
SI-MNH-38 (8-65)



- ☐ 1-15 November
- = 16-31 November
- = 0 birds
- ④ = 1-10 "
- (with 11-25) = 11-25 "
- (with 26-50) = 26-50 "
- (with 51-100) = 51-100 "
- (with 101-500) = 101-500 "
- (with 500+) = 500+ "

NOVEMBER

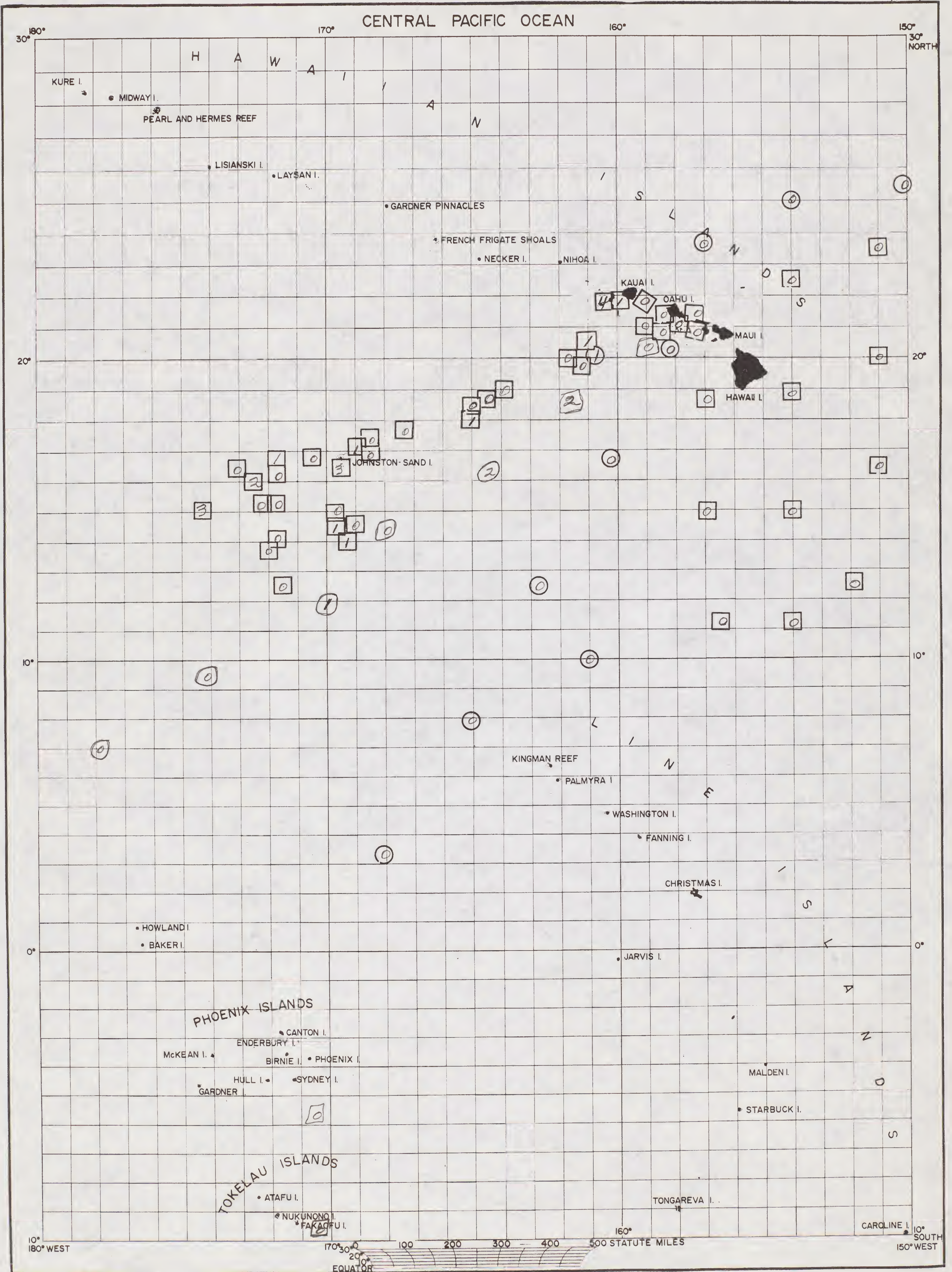
SI-MNH-38(8-85)



- 1-15 November
- = 16-31 November
- = 0 birds
- ④ = 1-10 "
- (with horizontal lines) = 11-25 "
- (with vertical lines) = 26-50 "
- (with diagonal lines) = 51-100 "
- (with diagonal lines) = 101-500 "
- (solid black) = 500+ "

NOVEMBER

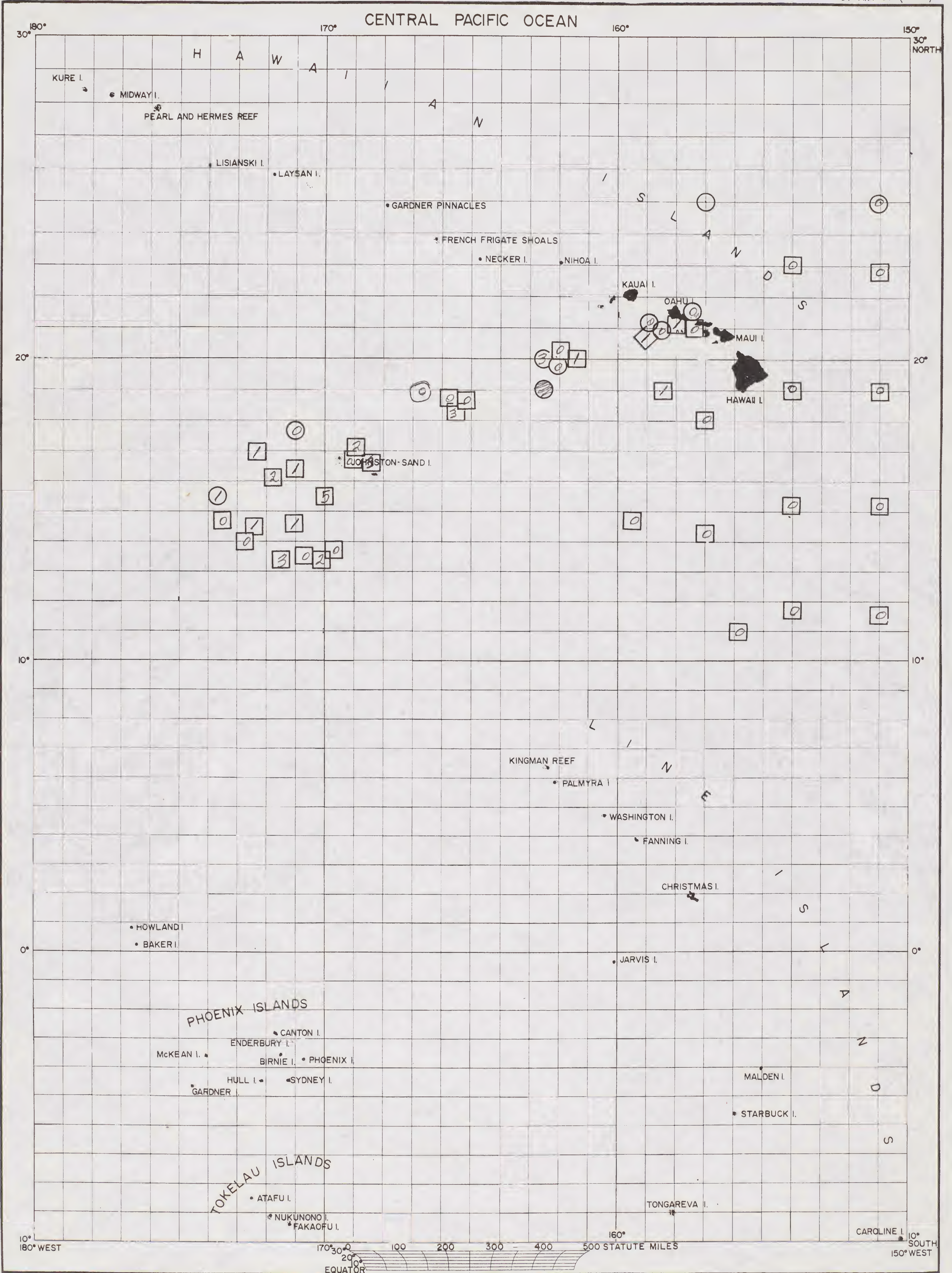
SI-MNH-38(8-55)



- ☐ 1-15 December
- = 16-31 December
- = 0 birds
- ④ = 1-10 "
- (with horizontal lines) = 11-25 "
- (with vertical lines) = 26-50 "
- (with diagonal lines) = 51-100 "
- (with diagonal lines) = 101-500 "
- (solid black) = 500+ "

DECEMBER

SI-MNH-38 (8-65)



- ☐ 1-15 December
- = 16-31 December
- = 0 birds
- ④ = 1-10 "
- (with horizontal lines) = 11-25 "
- (with vertical lines) = 26-50 "
- (with diagonal lines) = 51-100 "
- = 101-500 "
- (with horizontal lines) = 500+ "

DECEMBER

SI-MNH-38 (8-65)

