

Table S7 Agricultural management practices in the rice paddy field experiments wherein ammonia volatilizations were observed. ^a

Site	Crop	Case code	Date	Field operation, method and amount for addition of nitrogen/water, or tillage depth ^b	
CS	Rice	P3, P4	2002/6/22	Rice sowing; P3: Fertilization (surface broadcasting: urea, 40.5 kg N ha ⁻¹ for the low-nitrogen treatment (LN)) P4: Fertilization (surface broadcasting: urea, 81 kg N ha ⁻¹ for the high-nitrogen treatment (HN))	
				P5, P6	2002/7/20
		P7, P8	2002/8/20		
	Wheat				2002/6/22–9.25
			2002/9/25	Rice harvest	
			2002/10/29	Wheat sowing	
			2002/12/3 ^c	Fertilization (surface broadcasting: urea, 81 kg N ha ⁻¹) for LN Fertilization (surface broadcasting: urea, 135 kg N ha ⁻¹) for HN	
	DY	Rice	P1, P9	2003/2/21 ^c	Fertilization (surface broadcasting: urea, 54 kg N ha ⁻¹) for LN Fertilization (surface broadcasting: urea, 90 kg N ha ⁻¹) for HN
				2003/6/5	Wheat harvest
				1984/6/20	P1: Fertilization (surface broadcasting: ammonium bicarbonate, 90 kg N ha ⁻¹), tillage (approximately 5 cm) P9: Fertilization (surface broadcasting: urea, 90 kg N ha ⁻¹), tillage (approximately 5 cm)
Wheat			1984/6/20	Rice sowing	
			1984/6/20–9.25	Under the flooded condition, WT: approximately 5 cm	
			1984/9/25	Rice harvest	
			1984/10/29	Wheat sowing	
		1985/3/24 ^c	Fertilization (surface broadcasting: urea, 90 kg N ha ⁻¹)		
		1985/6/5	Wheat harvest		

FQP	Rice	P2, P10	1986/6/21	Rice sowing; P2: Fertilization (surface broadcasting: ammonium bicarbonate, 90 kg N ha ⁻¹), tillage (approximately 5 cm) P10: Fertilization (surface broadcasting: urea, 90 kg N ha ⁻¹), tillage (approximately 5 cm)	
			1986/6/21–9.5	Under the flooded condition, WT: approximately 4 cm	
			1986/9/5	Rice harvest	
	Wheat		1986/10/29	Wheat sowing	
			1987/3/24 ^c	Fertilization (surface broadcasting: urea, 90 kg N ha ⁻¹)	
			1987/6/5	Wheat harvest	
	SZ	Rice		2010/5/10	Rice sowing
2010/5/10–7.20				Under the flooded condition, WT: approximately <u>7.5</u> cm	
P11, P12				2010/5/16	P11 (Treat5–1): Fertilization (surface broadcasting: urea, 162.2 kg N ha ⁻¹) P12 (Treat5–2): Fertilization (surface broadcasting: urea, 162.2 kg N ha ⁻¹)
		P13, P14	2010/6/22	P13 (Treat6–1): Fertilization (surface broadcasting: urea, 40.9 kg N ha ⁻¹) P14 (Treat6–2): Fertilization (surface broadcasting: urea, 81.8 kg N ha ⁻¹)	
Rice				2010/7/20	Rice harvest
		2010/7/25		Rice sowing	
		2010/7/25–10.20		Under the flooded condition(water table approximately <u>7.5</u> cm)	
		P15, P16		2010/7/31	P15 (Treat7–1): Fertilization (surface broadcasting: urea, 40.9 kg N ha ⁻¹) P16 (Treat7–2): Fertilization (surface broadcasting: urea, 40.9 kg N ha ⁻¹)
				P17, P18	2010/8/26
YTA		Rice			2010/10/20
	1992/4/10 ^c			Fertilization (surface broadcasting: urea, 90 kg N ha ⁻¹), rice sowing	
	1992/4/10–7.10			Under the flooded condition, WT: approximately 2 cm	
	Rice	P19	1992/7/10	Rice harvest	
			1992/7/29	Rice sowing, fertilization (surface broadcasting: urea, 90 kg N ha ⁻¹), tillage (approximately 5 cm)	

1992/7/29–11.10	Under the flooded condition, WT: approximately 2 cm
1992/11/10	Rice harvest

^a Given information was used, alone with other model inputs as the primary drivers, to operate CNMM-DNDC simulation of ammonia volatilizations following individual fertilizer amendment events in the rice paddy cases (P1–19). The sites are Changshu (CS), Danyang (DY), Fengqiu with rice paddy fields (FQP), Shenzhen (SZ), and Yingtan (YTA).

^b The italic and underlined numbers are the depths of the flooded water table that were arbitrarily set in this study by referring to those of the croplands adjacent to the experimental sites or model calibration since the information was not presented in the original literature.