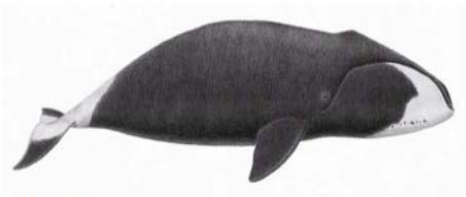
Fisheries and Oceans Canada | Pêches et Océans Canada
Ecosystems and Oceans Science | Sciences des écosystèmes et des océans

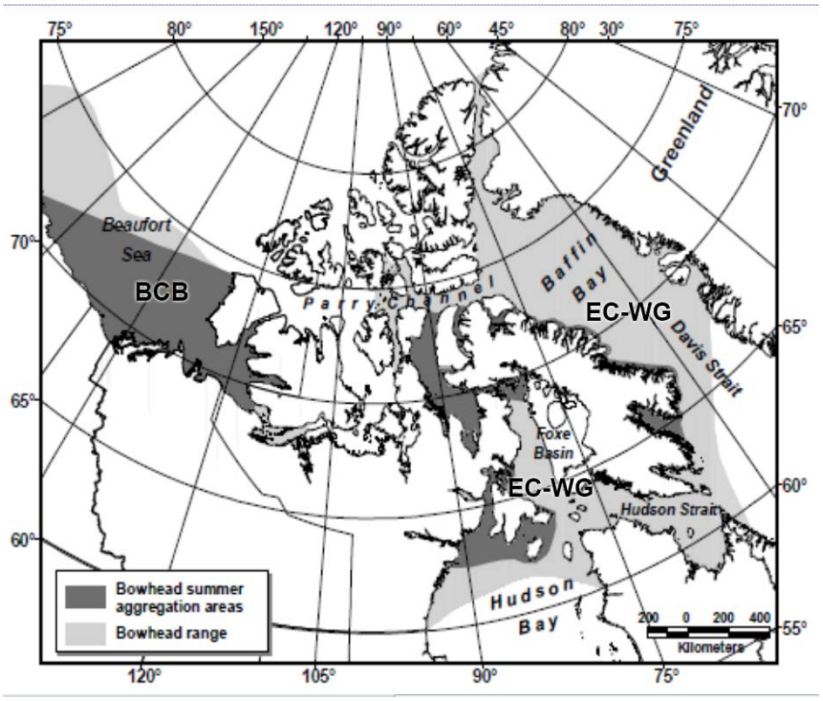
ᑲᓇᑕᒥᐅᑦ ᖃᐅᔨᓴᖅᑎᖏᓐᓄᑦ ᐅᖃᐅᔾᔨᒋᐊᖅᑏᑦ ᐱᓕᕆᕝᕕᖕᒐᑦ
ᖃᐅᔨᓴᖅᑎᓄᑦ ᐅᖃᐅᔾᔨᒋᐊᖅᑏᑦ ᐅᓂᒃᑳᓕᐊᖏᑦ
ᕿᑎᖅᐸᓯᐊᓂᓗ ᐅᑭᐅᖅᑕᑑᓪᓗ ᐊᕕᒃᑐᖅᓯᒪᓂᖕᒐᓂ Science Advisory Report 2015/052

ᓄᑖᕈᕆᐊᖅᑕᐅᓂᖏ ᐊᒥᓱᓂᖏᓐᓂ ᓇᓚᐅᑦᑖᕈᑏᑦ ᐊᕐᕙᖕᓂᐊᖅᑕᐅᕙᓐᓂᖏᓄᓗ ᐅᖃᐅᔾᔨᒋᐊᕈᑏᑦ ᐱᓪᓗᒋᑦ ᑲᓇᑕᐅᑉ ᑲᓇᓐᓇᖅᐸᓯᐊᓂ–ᐊᑯᑭᑦᑐᐃᓗ ᐱᖓᓇᖅᐸᓯᐊᓂ ᑕᕆᐅᕐᓂ ᐊᕐᕕᑦ



G. Kuehl

ᐊᕐᕕᖅ (Balaena mysticetus).



ᑕᑯᑎᕐᑎᒍᑎ 1. ᐱᑕᖃᕐᕕᐅᓂᖏᑦ ᑕᕆᐅᕐᒥ ᐃᒪᕐᓂ ᐊᒻᒪᓗ ᐱᓗᐊᖅᑐᒥᒃ ᐊᐅᔭᒃᑯᑦ ᐊᐅᔭᓂᒃᑲᕐᕙᓐᓂᖏᑦ ᑕᕆᐅᕐᒥ ᐃᒪᐃᑦ ᐊᕐᕕᕐᓄᑦ ᑕᒫᓂ ᑲᐃᐅᕆᓇᖏ–ᕐᓱᒃᑕᓱᒥ–ᑐᒃᑐᔭᖅᑑᑦᓗ ᑕᕆᐅᖓᓂ ᐊᒻᒪᓗ ᑲᓇᑕᐅᑉ ᑲᓇᓐᓇᖅᐸᓯᐊᓂ–ᐊᑯᑭᑦᑐᐃᑦᓗ ᐱᖓᓇᖅᐸᓯᐊᓂ ᐃᒪᕐᓂᒃ ᐊᕐᕕᖃᕐᓂᖏᓐᓂ ᑲᓇᑕᒥ.

ᑐᑭᓯᐊᒍᑦ

ᖃᖓᑕᔫᒃᑯᑦ ᖃᐅᔨᓴᖅᑕᐅᕈᖅᓱᒪᕙᐅᖅᒪᑕ ᑕᒪᐃᓐᓂᑦᑎᐊᖅ ᐊᕐᕕᖃᕐᕕᐅᕙᓐᓂᖏᑦ ᐊᐅᔭᒃᑯᑦ ᑲᓇᓐᓇᖓᓂ ᑲᓇᑕᐅᑉ ᐊᑯᑭᑦᑐᐃᓗ ᐱᖓᓇᖓᓂ ᐅᑭᐅᖅᑕᖅᑐᓂᖓᓂ ᐊᑕᐅᓯᕐᒥᑐᓂ ᑲᑎᖓᕙᓐᓂᖏᑦ. ᑖᒃᑯᐊ ᐱᑕᖃᔫᑦ ᑕᒫᓂ ᑲᓇᑕᒥᐅᑦ ᑕᕆᐅᖏᓐᓂ (ᓄᓇᕗᒻᒥᓗ ᓄᓇᕕᖕᒥᓗ) ᐊᒻᒪᓗ ᐊᑯᑭᑦᑐᕐᒥᐅᑕᐃᑦ ᑕᕆᐅᖏᓐᓂ. ᑖᒃᑯᐊ ᐊᕐᕕᑦ ᐊᕕᑦᑐᖅᓱᒪᔫᖅᐳᑦ ᒪᓕᑐᒥᒃ ᐅᑭᐅᖃᕐᓂᖏᓐᓂ ᐊᒻᒪᓗ ᐊᕐᓇᑦᔫᓂᖏᓐᓂ/ᐊᖑᓴᑦᔫᓂᖏᓐᓂᑦᔫᓐᓃᑦ; ᐊᒥᓱᓂᖅᓴᐃᑦ ᐊᕐᓇᑦᔫᐃᑦ ᐊᕕᕋᓛᑦᔫᓗ (ᐱᐊᕐᖏᑦ) ᑲᑎᖓᓂᖅᓴᐅᕙᑦᑐᑦ ᑕᐅᕙᓂ ᐄᐊᕐᓇᓐ–ᐲᑉ ᑕᓱᐅᔭᕐᔪᐊᑉ ᐅᐊᓐᓇᖅᐸᓯᐊᓂ ᐊᒻᒪᓗ ᓴᓂᕋᔭᒥᐅᑦ ᓯᑯᓯᓚᐅᑉ ᑕᕆᐅᖓᓂ ᐊᒻᒪᓗ ᑰᓇᔪᑉ ᑕᕆᐅᖓᓂ.

ᐃᓄᐃᑦ ᐊᕐᕙᓐᓂᐊᕈᓐᓇᖅᓱᓚᐅᖅᑐᑦ ᑲᓇᑕᒥ 1996–ᒥ ᓂᕿᓴᓂᒍᑕᐅᓂᕐᒍᑦ. ᐊᑐᓂ ᑕᐃᒃᑯᐊ ᐃᓄᓐᓄᑦ ᓂᕿᓴᒍᑎᓄᑦ ᐊᕐᕙᓐᓂᐊᖅᑕᐅᕙᕕᐅᒍᓇᖕᓂᖏᑦ ᐊᖏᖅᑕᐅᓯᒪᕙᑦᑐᑦ ᐃᖃᓗᓕᕆᔨᕐᔪᐊᒃᑯᓐᓄᑦ ᑕᕆᐅᕐᒥᐅᑕᓕᕆᔨᒃᑯᓐᓂᑦ (ᐃᖃᓗᓕᕆᔨᕐᔪᐊᕐ) ᐱᔪᓐᓇᐅᑎᖃᖅᑎᑕᐅᕙᕐᓱᑎᒃ ᓚᐃᓴᖃᖅᑎᑕᐅᓂᖅ. ᐊᑯᑭᑦᑐᕐᒥᐅᑦ ᑲᓛᓚᑦ ᓄᓇᖓᓐᓂ ᐊᕐᕙᓐᓂᐊᖅᐸᕈᕗᑦ ᑕᐃᒃᑯᓂᖓᕐᓴᐃᓐᓇᖅ ᐃᓚᒋᔭᐅᔪᓂᒃ ᐱᒋᐊᓚᐅᕐᒥᔪᓂ 2008–ᖑᑎᑦᓗᒍ, ᑭᓯᐊᓂᓕᑕᐅᖅ ᒪᓕᒐᖃᖅᑎᑕᐅᑦᓗᑎᒃ ᓄᓇᓕᒃᔪᐊᕐᓄᑦ ᐊᕐᕙᓐᓂᐊᓂᕐᒧᑦ ᑲᒥᓱᓇᒃᑯᖏᓐᓄᑦ.

ᓯᕗᓂᐊᒍᑦ ᖃᖓᑕᔫᒃᑯᑦ ᖃᐅᔨᓴᖅᑕᐅᕈᖅᓱᒪᕙᐅᖅᒪᑕ ᑕᒪᐃᓐᓂᑦᑎᐊᖅ ᐊᕐᕕᖃᕐᕕᐅᕙᓐᓂᖏᑦ ᐊᐅᔭᒃᑯᑦ ᑲᓇᓐᓇᖓᓂ ᑲᓇᑕᐅᑉ ᐊᑯᑭᑦᑐᐃᓗ ᐱᖓᓇᖓᓂ ᐅᑭᐅᖅᑕᖅᑐᓂᖓᓂ ᐊᑕᐅᓯᕐᒥᒃ ᐊᕐᕋᒍᒥᒃ. ᐋᒐᓯ 2013–ᒧᑦ ᐃᖃᓗᓕᕆᔨᕐᔪᐊᒃᑯᑦ ᐸᕐᓇᕐᓯᒪᓚᐅᖅᑐᑦ ᖃᐅᔨᓴᕐᕕᖃᕈᒪᓂᖅ ᖁᑦᑎᑐᒥ ᐅᑭᐅᖅᑕᖅᑐᒥ ᐃᒪᕐᒥᐅᑕᓂᒃ ᓴᖅᐱᓕᓐᓂᒃ ᑕᒪᐃᓐᓂᒃ (ᖃᐅᔨᓴᕐᓂᖅ ᓴᖅᐱᓕᓐᓂᒃ) ᓄᑖᕈᕆᐊᖅᑕᐅᖁᑦᓗᒋᑦ ᐊᒥᓱᓂᖏᓐᓂᒃ ᓇᓚᐅᑦᑖᕈᑎᑦ ᖃᐅᔨᒪᔭᐅᓂᖏᓂ ᓴᓐᓂᕈᑎᐅᑉ ᑕᕆᐅᖓᓂ ᑐᒫᓕᓐᓂᒃ ᕿᓚᓗᒐᕐᓂ (Monodon monoceros). *2013–ᒥ* ᖃᐅᔨᓴᖅᑕᐅᕙᓐᓂᖏ ᐊᖏᑕᒥᐊᖅᑕᐅᓕᓚᐅᖅᑐᑦ ᖃᐅᔨᓴᖅᑕᐅᖃᑕᐅᓕᖅᓱᑎᒃ ᐊᐅᔭᒃᑯᑦ ᓇᓃᖃᑦᑕᓂᖏᑦ ᑲᓇᑕᐅᑉ ᑲᓇᓐᓇᖓᓂ–ᐊᑯᑭᑦᑐᐃᓗ ᐱᖓᓇᖓᓂ ᐊᕐᕕᑦ; ᐱᔾᔪᑎᖃᖅᓱᑎᒃ ᐊᑕᖃᕐᕕᐅᕙᓐᓂᖏᓐᓂᑦᑕᐅᖅ ᐊᐅᔭᒃᑯᑦ ᓴᓐᓂᕈᑎᐅᑉ ᑕᕆᐅᖓᓂ ᑐᒫᓕᓐᓂᒃ ᕿᓚᓗᒐᕐᓂ (ᖃᐅᔨᓴᕐᓂᖅ ᓴᖅᐱᓕᓐᓂᒃ) ᓄᑖᕈᕆᐊᖅᑕᐅᖁᑦᓗᒋᑦ ᐊᒥᓱᓂᖏᓐᓂᒃ ᓇᓚᐅᑦᑖᕈᑎᑦ ᖃᐅᔨᒪᔭᐅᓂᖏᓂ

ᖃᐅᔨᓴᖅᑕᐅᓚᐅᕐᓂᖏᑦ ᓴᖅᐱᓕᓐᓂᒃ ᓴᕿᑎᑕᐅᓚᐅᖅᑐᓂᒃ ᐊᒻᒪᓗ ᓯᕗᓪᓕᖅᐸᖅᓯᐅᑎᖏᓐᓂᒃ ᐊᕐᕕᑦ ᐊᖑᔭᐅᕙᓪᓕᑎᒃ–ᐊᐅᖏᖅᓯᕝᕕᐅᕙᓪᓕᑎᒃ–ᓇᓗᓇᐃᑲᑯᑦᑎᖅᑕᐅᓪᓗᑎᒃ–ᐊᒻᒪᓗ ᑭᖑᓂᐊᒍᓪ–ᐊᖑᔭᐅᑲᓐᓂᖅᐸᓯᕐᑎᒃ ᐱᐅᓯᖃᓚᐅᖅᑐᑦ, ᐊᐅᓚᓯᓂᕐᒧᑦ ᐅᖃᐅᔾᔨᒋᐊᕈᑎᑦᓴᐃᑦ ᓯᓪᓗ ᓄᑖᖑᓇᐊᖅᑕᐅᓯᒪᓂᖏᓐᓂ ᐊᕐᕕᑦ ᐱᑕᖅᑕᐅᑲᓯᐅᔭᐅᔪᓐᓇᕐᓂᖏᓐᓂᑕᐅᖅ ᓇᓚᐅᑦᑖᕈᑎᖏᑦ, ᓈᓴᐅᓯᓇᔭᐅᓯᒪᔪᑦ ᐊᑐᖅᑕᐅᓪᓗᑎᒃ ᑕᐃᒃᑯᐊ ᑭᓯᐊᓂ 2013–ᒥ ᑕᓇᐅᕐᒥ ᐃᒪᕐᒥᐅᑕᐃᑦ ᓴᖅᐱᓖᑦ ᖃᐅᔨᓴᖅᑕᐅᓚᐅᕐᓂᖏᓐᓂᒃ. ᑖᒃᑯᐊ ᖃᐅᔨᓴᖅᑎᓄᑦ ᐅᖃᐅᔾᔨᒋᐊᖅᑎᓂᒃ ᐅᓂᒃᑳᓕᐊᑦ ᐱᓯᒪᔪᑦ ᐊᒃᑑᐱᓇ 20-24, 2014–ᒥ ᐊᕐᕋᒍᑕᒫᖅ ᑲᑎᒪᓂᖏᓐᓂᒃ ᑲᓇᑕᓕᒫᒥ ᑕᓇᐅᕐᒥᐅᑕᓂ ᐆᒪᔪᓕᓇᓘᑦ ᐱᓕᓇᐊᖏᓐᓂ ᕿᒥᕐᕈᐊᕐᓂᖏᓐᓂ ᑲᑎᒪᔨᕋᓛᖏᓐᓂ (NMMPRC). ᐊᓯᑕᖃᕐᓇᕗᑦ ᐅᖃᓕᒫᒐᓕᐊᓇᔭᐅᓯᒪᔪᓂ ᑕᐃᒃᑯᓄᖓ ᑲᑎᒪᓂᓇᔭᐅᓚᐅᖅᑐᓂᒃ ᐱᔾᔪᑎᖃᖅᑐᓂᒃ ᐃᖃᓗᓕᓇᕐᔪᐊᒃᑯᑦ ᑕᓇᐅᕐᒥᐅᑕᓕᓇᓘᑦ ᖃᐅᔨᓴᖅᑎᓄᑦ ᐅᖃᐅᔾᔨᒋᐊᖅᑎᑦ ᖃᓄᐃᓕᐅᕐᕕᕐᓇᔭᖏᓐᓂᒃ ᐅᓂᒃᑲᕈᑎᑦ DFO Science Advisory Schedule ᐊᑐᐃᓐᓇᐅᓕᕐᒥᒍᑎᒃ.

ᓇᐃᓈᖅᑕᐅᓯᒪᔪᑦ ᐅᓂᒃᑳᓕᐊᑦ

- ᐊᕐᕕᑦ ᑲᓇᓐᓇᖓᓂ ᑲᓇᑕᐅᑉ–ᐱᖓᓇᖓᓂᓗ ᐊᑯᑭᑦᑐᐃᑦ (ᑲᓇᑕᐅᑉ ᑲᓇᓐᓇᖓᓂᓗ–ᐊᑯᑭᑦᑐᐃᓪᓗ ᐱᖓᓇᖓᓂ) ᐱᑕᖃᕐᓂᖏᑦ ᓇᓂᑐᐃᓐᓈᓱᑦ ᐅᖓᓯᑏᒃᑑᑎᐅᔪᓂ ᕿᑭᖅᑕᓗᑉ ᐊᕙᓗᐊᓂ ᑕᓇᐅᕐᒥ ᐊᐅᔭᒃᑯᑦ ᐊᒻᒪᓗ ᑲᑎᖓᓕᖅᐸᓯᕐᑎᒃ ᑕᐅᕙᓂ ᑰᒐᓇᔪᑉ ᑕᓇᐅᖓᓂ, ᐃᑭᕋᓴᐅᑉ ᐃᒪᖓᓂ, ᓯᓂᕋᔭᐅᑉ ᓯᑯᓯᓚᐅᓪᓗ ᑕᓇᐅᖓᓂ, ᑲᖏᖅᑐᐊᓗᐊᓂ/ᐅᐱᕐᒋᕕᒻᒥ, ᓂᖏᖓᓂᕐᒥᒃ/ᐃᒐᓕᖅᑑᕐᒥ ᐊᒻᒪᓗ ᓇᐅᔭᓂ ᑕᓇᐅᕐᓂ ᐋᒐᓯᐅᓕᕐᐃᒪᑦ. ᑖᒃᑯᐊ ᐊᕐᕕᑦ ᑕᐃᒪᖓᑦ ᖃᖓᓗᓂᒃ ᐊᕙᓐᓂᐊᖅᑕᐅᓗᐊᕐᓂᑰᓯᒪᕗᑦ ᑮᓇᐅᔭᓕᐅᕈᑕᐅᓂᕐᒧᑦ ᐊᕙᓐᓂᐊᖅᑎᐅᕙᓚᐅᖅᑐᓄᑦ. ᒫᓐᓇᐅᓕᖅᑐᖅ ᓴᕿᐅᒪᓕᖅᑐᓂᒃ ᑐᑭᓯᓇᖅᓯᔪᑦ ᑕᐃᒃᑯᐊ ᐊᕐᕕᑦ ᑲᓇᑕᐅᑉ ᑲᓇᓐᓇᖓᓂ–ᐊᑯᑭᑦᑐᕐᒥᐅᑉᓗ ᐱᖓᓇᖓᓂ ᐊᕐᕕᑦ ᐊᒥᓱᕈᖅᓯᒪᕐᔪᐊᕐᓂᖏᑦ ᑲᓇᑕᐅᑉ ᑲᓇᓐᓇᖓᓂᓗ–ᐊᑯᑭᑦᑐᐃᓪᓗ ᐱᖓᓇᖓᓂ ᐊᕐᕕᑦ ᑕᐃᒪᖓᑦ ᓄᖅᑲᖅᑎᑕᐅᓚᐅᖅᓱᑎᒃ ᑮᓇᐅᔭᓕᐅᕈᑕᐅᓂᕐᒧᑦ ᐊᕙᓐᓂᐊᖅᑕᐅᕙᓚᐅᕐᓂᖏᑦ.

- ᓯᕗᓂᐊᒍᑦ ᖃᖓᑕᔫᒃᑯᑦ ᖃᐅᔨᓴᖅᑕᐅᑏᖅᓯᒪᓚᐅᖏᒻᒪᑕ ᑕᐃᒃᑯᐊ ᑕᒪᕐᒥᒃ ᐊᕕᖅᑲᕕᐅᓂᖏᑦ ᐊᐅᔭᓕᒐᕕᐅᕙᒃᑐᑦ ᐊᐅᔭᒃᑯᑦ ᑲᓇᑕᐅᑉ ᑲᓇᓐᓇᖓᓂ–ᐊᑯᑭᑦᑐᐃᓪᓗ ᐱᖓᓇᖓᓂ ᐊᕐᕕᑦ. ᐅᑭᐅᒃᑯᑦ ᖃᐅᔨᓴᖅᑕᓚᐅᖅᑐᑦ ᕿᑭᖅᑖᔫᓪᓗ ᓄᓇᕕᐅᓪᓗ ᐃᑭᕋᓴᖓᓂ ᑕᓇᐅᕐᒥ ᒫᔾᔨ 1981-ᖑᑎᓪᓗᒍ, ᐊᐅᔭᒃᑯᓪᓗ ᖃᐅᔨᓴᖅᑕᐅᓚᐅᖅᑐᑦ ᑕᐅᕙᓂ ᑕᓯᐅᔭᐅᑉ ᐃᓐᓈᓗᑉ ᑲᖏᖅᓯᐊᕐᔪᖓᓂ ᐋᒐᓯ 2002–ᖑᑎᓪᓗᒍ. ᐊᒥᓱᑎᒋᓂᖏᑦ ᐃᓚᖏᓐᓂᒃ ᐱᓯᒪᓕᓚᐅᖅᑐᑦ 2002–ᖑᑎᓪᓗᒍ ᖃᐅᔨᓴᖅᑕᐅᓚᐅᖅᑐᓪᓗ ᓈᒻᒪᓚᐅᖏᒻᒪᑕ ᐱᔾᔪᑕᐅᓂᖏᑦ ᐊᒥᓱᖏᓗᐊᓚᐅᕐᓂᖏᑦ ᑕᑯᔭᐅᕙᓚᐅᖅᑐᑦ ᐊᕐᕕᑦ, ᐊᒻᒪᓗ ᓇᓗᓇᓗᐊᓚᐅᕐᓂᖏᓐᓄᑦ ᓇᓚᑦᑖᕈᑕᐅᓚᐅᖅᑐᑦ.

- ᐋᒐᓯ 2013–ᒥ, ᐊᖏᔪᐊᓗᒥᒃ ᖃᖓᑕᔫᒃᑯᑦ ᖁᓚᐅᑦᑎᓪᓗᑎᒃ ᖃᐅᔨᓴᕕᖃᓚᐅᖅᑐᑦ ᑕᒪᐃᓐᓂᑦᑎᐊᖅ ᐱᒻᒪᕆᐅᓂᖏᓂ ᐊᒥᓱᓂᒃ ᐊᕕᖃᕕᐅᕙᓐᓂᖏᓐᓂᒃ ᑲᓇᑕᐅᑉ ᑲᓇᓐᓇᖓᓂᒃ–ᐊᑯᑭᑦᑐᐃᓪᓗ ᐱᖓᓇᖓᓂᒃ ᐊᕐᕕᖃᓂ, ᐱᔭᐅᖏᑦᑐᑑᓪᓗᑎᒃ ᑕᐃᒃᑯᐊ ᓯᓂᕋᔭᐅᑉ ᓯᑯᓯᓚᐅᓪᓗ ᑕᓇᐅᖏᓃᑦᑐᑦ, ᓇᐅᔾᓃᑉᐸᓐᓂᖏᑦ ᐊᒻᒪᓗ ᑕᓪᓗᕈᑎᐅᑉ ᐃᑭᕋᓴᖓᓂᑉᐸᒻᒪᔪᑦ. ᑕᑯᑦᓴᐅᖃᑦᑕᓚᐅᖏᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐊᖃᖅᓯᒪᖃᑦᑕᓚᐅᕐᓂᖏᓐᓂᒃ ᐊᕐᕕᑦ ᑕᑯᔭᐅᓯᒪᖏᓐᓂᖏᑦ ᖃᖓᑕᔫᒃᑯᖅᑐᓄᑦ ᓈᓴᐃᔨᓄᑦ ᓈᓴᖅᑕᐅᖃᓯᐅᔭᐅᔭᑯᓪᓗᒋᑦ, ᖃᐅᔨᓴᖅᑕᐅᓯᒪᓂᖏᓐᓂᒃ ᓴᕿᑦᑎᓚᐅᖅᑐᑦ ᐋᕿᒋᐊᖅᑕᐅᖃᑦᑕᖅᓯᑎᒃ ᐊᑐᖅᑕᐅᓪᓗᑎᒃ ᐊᖅᑲᐅᒪᓂᖏᓐᓂ ᖃᐅᔨᒪᔾᔪᑏᑦᑐᖅᖏᑦ ᐋᒐᓯ 2012–ᒥ ᐊᒻᒪᓗ 2013–ᒥ, ᐱᔭᐅᓚᐅᖅᓯᒪᔪᑦ 22-ᖑᓚᐅᖅᑐᓂᒃ ᐊᕐᕕᓂᒃ ᐃᓕᓯᕝᕕᐅᓯᒪᓚᐅᖅᑐᓂᒃ ᖁᒻᒧᐊᑦᑎᑕᐅᓯᒪᔪᑎᒍᑦ ᐊᑦᑕᑕᕈᑎᖅᑲᖅᑐᓂᒃ ᐊᑯᓂᐅᑎᒋᓂᖏᓐᓂᒃ ᐃᑎᔫᒥᖏᓐᓂᖅᑕᑦᑕᓂᖏᓐᓂᒃ ᐃᒪᕐᓂ ᑎᑎᕋᖅᐸᓪᓕᐊᔪᓐᓇᖅᑐᓂᒃ ᖃᐅᔨᓴᕈᑎᖏᑦ, ᖃᓂᒋᔭᖏᓐᓂ ᐃᒡᓗᓕᖏᓗ ᐸᓐᓂᖅᑑᕐᒥᓗ ᐃᒪᕐᓂ, ᓄᓇᕗᒻᒥ. ᑐᖓᕕᐅᖃᑦᑕᖅᓱᑎᒃ ᓇᓃᓐᓂᖏᑦ, ᐊᒻᒪᓗ ᖃᖓᐅᓂᖓᓂᒃ ᑕᕿᓇᔭᐅᔪᓂ, ᐊᕐᕕᑦ ᑕᑯᔭᐅᔪᓐᓇᖃᑦᑕᓚᐅᖅᑐᑦ ᖃᐅᔨᔭᐅᒍᓇᖃᑦᑕᖅᓱᑎᒃ ᓈᓴᐅᑎᖃᖅᑎᑕᐅᓗᑎᒃ ᐃᒪᓐᓇᑎᑦ >ᓴᑦᑎᑎᒍᑦ 17.6% >ᓴᓐᑎᓂᒃ 29.1% >ᓴᓐᑎᓄᑦ ᐊᖏᓂᖅᑲᖅᑎᑦᔪᓂ ᐊᑯᓂᐅᓂᖅᑲᓂᖏᓐᓂᒃ. ᐊᑐᖅᑕᐅᓪᓗᑎᒃ ᑕᒪᒃᑯᐊ ᓈᓴᐃᓂᖏᓐᓄᑦ ᐋᕿᒋᐊᕈᑎᑦ ᑕᐃᒃᑯᓄᖓ ᐋᒐᓯ 2013–ᒥ ᖃᐅᓴᖅᑕᐅᓚᐅᖅᑐᓂᒃ, ᑐᒋᓕᐅᕈᑕᐅᓚᐅᖅᑐᑦ ᓄᑖᓂᒃ ᓇᓚᐅᑦᑖᕈᑎᓂᒃ ᐃᒪᓐᓇᐅᑎᒋᐅᓇᓱᒋᔭᐅᓕᖅᑐᓂᒃ ᐊᕐᕕᑦ 6,446 (ᐊᔾᔨᒌᖏᓐᓂᖃᖅᑎᒋᔪᓐᓇᕐᓂᖏᑦ ᑖᒃᑯᓇᓂ ᓈᓴᐅᑎᖏᑦ ᖃᓗᓈᑎᑐᑦ ᓇᐃᓈᖅᑕᐅᓯᒪᔪᒥᒃ ᑎᑎᖃᖃᖅᑐᑦ CV = 26% >ᓴᓐᑎᖏᓃᑎᒋᔪᓂᒃ).

- ᐊᒥᓱᑎᒋᓂᖏᑦ ᑲᓇᑕᐅᑉ ᑲᓇᓐᓇᖓᓂ–ᐊᑯᑭᑦᑐᐃᓪᓗ ᐱᖓᓇᖓᓂ ᐊᕐᕕᑦ ᓇᓚᐅᑦᑖᖅᑕᐅᓚᐅᕆᕗᑦ ᐊᑐᖅᓱᑎᒃ ᐋᕐᕕᑦ ᐊᖑᔭᐅᕙᑦᓱᑎᒃ ᐊᐅᖏᖅᓯᕕᕙᑦᓱᑎᒃ–ᓇᓗᓇᐃᑲᑯᑦᑎᖅᑕᐅᓪᓗᑎᒃ–ᐊᒻᒪᓗ ᑭᖑᓂᐊᒍᑦ–ᐊᖑᔭᐅᑲᓐᓂᖅᐸᑦᓱᑎᒃ. ᑐᑭᓯᓂᐊᖅᑕᐅᒐᒥᒃ 1,177–ᖏᓃᓚᐅᖅᑐᑦ, ᑎᒥᖏᓐᓂᖓᖅᓯᒪᔪᑦ ᐊᖅᓯᕝᕕᐅᓯᒪᓂᖏᑦ ᖃᐅᔨᓴᒐᒃᓴᐃᑦ 9–ᖑᔪᑦ ᐊᕐᕕᖃᕕᐅᔪᓂᒃ ᐱᕝᕕᐅᓚᐅᖅᓱᑎᒃ ᓴᕿᑦᑎᑦᑎᔾᔪᑕᐅᓚᐅᖅᑐᑦ ᐱᐅᓂᖅᐹᓂᒃ ᓇᓚᐅᑦᑖᕈᑕᐅᒍᓐᓇᕐᓂᕐᒧᑦ ᐊᕐᕕᑦ ᐊᒥᓱᑎᒋᓂᖏᓐᓂᒃ 7,660–ᖏᓃᑦᑐᓂᒃ ᐊᑐᓂ ᐱᑕᖃᕐᓂᖏᓐᓂᒃ (ᓇᓗᓇᕐᓂᖃᖅᑎᒋᓂᖏᓄᑦ ᓈᓴᐅᓯᓇᓂᖏᑦ: 4,500-11,100).

- ᐊᕐᕕᑦ ᐊᖑᔭᐅᕙᑦᓱᑎᒃ ᐊᐅᖏᖅᓯᕕᕙᑦᓱᑎᒃ–ᓇᓗᓇᐃᑲᑯᑦᑎᖅᑕᐅᓪᓗᑎᒃ–ᐊᒻᒪᓗ ᑭᖑᓂᐊᒍᑦ–ᐊᖑᔭᐅᑲᓐᓂᖅᐸᑦᓱᑎᒃ ᐱᐅᓯᖃᖅᑐᓂᒃ ᖃᐅᔨᓴᖅᑕᐅᓚᐅᕐᒪᑕ, ᓯᓕᔫᔪᒥᓇᕋᓗᐊᖅᓱᑎᒃ, ᐊᒥᓱᓂᒃ ᑐᖓᕕᖃᖅᐸᑦᑐᑦ ᐃᓱᒪᒋᔭᐅᓯᒪᑐᐃᓐᓇᖅᑐᓂᒃ ᐊᒥᓱᒐᓴᓐᓂᒃ. ᑕᐃᒃᑯᐊ ᓱᕋᐃᔭᐅᓇᔭᐅᑎᒃ ᐃᓱᒪᒋᔭᐅᑐᐃᓐᓇᕐᓂᖏᑦ ᑐᑭᓯᓂᐊᖅᑕᐅᑦᑎᐊᒃᑲᓐᓂᕆᐊᖃᕋᔭᖅᐳᑦ. ᑕᒪᒃᑯᐊ ᐱᔾᔪᑕᐅᑉᓗᑎᒃ, ᐊᑐᓕᕐᑯᔨᕗᒍᑦ ᐊᑐᖅᑕᐅᕐᑯᔨᓂᖅ ᑕᐃᒃᑯᓂᖓᐃᓐᓇᖅ 2013–ᒥ ᖃᖓᑕᔫᒃᑯᑦ ᐊᒥᓱᑎᒋᓂᖏᓐᓂᒃ ᓈᓴᖅᑕᐅᒋᐊᓚᐅᖅᓯᒪᔪᓂ, ᓈᓴᖅᑕᐅᓂᖏᓐᓄᑦ ᐊᒥᐊᒃᑯᖃᐃᓐᓇᕈᓐᓇᕐᓂᐊᖅᑐᓂᒃ ᐊᕙᓐᓂᐊᖅᑕᐅᒍᓐᓇᕐᓂᐊᖅᑐᓂᒃ ᑕᐃᒃᑯᓂᖓ ᑲᓇᑕᐅᑉ ᑲᓇᓐᓇᖓᓃᑦᑐᓂᒃ–ᐊᑯᑭᑦᑐᐃᓪᓗ ᐱᖓᓇᖓᓂ ᑕᓇᐅᕐᒥ ᐊᕐᕕᓂᒃ.

- ᐃᓱᒪᒋᓪᓗᒋᑦ ᒫᓐᓇᐅᓕᖅᑐᖅ ᖃᐅᔨᒪᔾᔪᑏᑦ ᐊᒥᓱᓂᖏᓐᓄᑦ ᐊᕐᕕᑦ ᑐᖓᕕᖃᖅᓯᒪᓂᖏᑦ ᐊᒥᓲᖏᑦᑐᓂᒃ ᐱᔭᕇᖅᑕᐅᓯᒪᑦᑎᐊᖏᑦᑐᓂᒃ ᓈᓴᖅᑕᐅᓯᐊᖅᓱᑎᒃ ᖃᐅᔨᓴᖅᑕᐅᖃᑦᑕᖅᓯᒪᓂᖏᓐᓂᒃ 34-ᓂᒃ ᐊᕋᒍᓕᖅᑐᓂᒃ, ᐊᒻᒪᓗ ᐃᓱᒪᒋᔭᐅᓪᓗᑎᒃ ᓇᓗᓇᕐᓂᖏᑦ ᓱᓕ ᐱᑕᖃᖅᑎᒋᕙᓚᐅᖅᓯᒪᓂᖏᑦ ᑲᓇᑕᐅᑉ ᑲᓇᓐᓇᖓᓂ–ᐊᑯᑭᑦᑐᐃᓪᓗ ᐱᖓᓇᖓᓂ ᐊᕐᕕᑦ ᓯᕗᓂᐊᒍᑦ ᒫᓇᐅᔭᓕᐅᕈᑕᐅᓂᕐᒧᑦ ᐊᕙᓐᓂᐊᖅᑕᐅᕙᓚᐅᓐᖏᓐᓂᖏᓐᓂ ᓱᓕ ᑕᐃᑦᓱᒪᓂ ᐱᑕᖃᖅᑎᒋᕙᓚᐅᕐᓂᖏᑦ, ᐊᑐᓕᕐᑯᔨᕗᒍᑦ ᐊᒥᓱᕈᖅᓯᐊᓇᔭᐅᖃᑦᑕᕐᑯᔨᓂᖅ ᐃᒫᑎᒋ ᓈᓴᐅᑎᓕᓐᓂᒃ (F_R) 0.5–ᖑᑎᒋᔪᒥᒃ ᐊᑐᖅᑕᐅᓂᕐᒧᑦ ᓈᓴᐅᑎᖏᑦ ᐆᒪᔪᐃᑦ ᐱᑕᖅᑕᐅᓯᒪᖃᓯᐅᔭᐅᕙᓐᓂᖏᓐᓂᒃ ᓈᓴᐃᖃᓯᐅᔾᔨᕙᓐᓂᕐᒧᑦ, ᑐᑭᓕᐅᕈᑕᐅᓗᑎᒃ ᐊᒥᐊᒃᑯᖃᐃᓐᓇᕈᓐᓇᕐᓂᐊᖅᑐᓂᒃ ᐊᕙᓐᓂᐊᖅᑕᐅᓂᕐᒧᑦ.

- ᐊᑐᖅᑕᐅᓗᑎᒃ 2013–ᒥ ᖃᖓᑕᔫᒃᑯᑦ ᓈᓴᖅᑕᐅᓂᖏᓐᓄᑦ ᓇᓚᐅᑦᑖᕈᑎᑦ ᐊᒻᒪᓗ ᐊᒥᓱᕈᖅᐸᓪᓕᐊᓂᖃᖅᑎᑕᐅᓗᑎᒃ 0.5–ᒦᑦᑐᓂᒃ, ᑲᓇᑕᐅᑉ ᑲᓇᓐᓇᖓᓂ–ᐊᑯᑭᑦᑐᐃᓪᓗ ᐱᖓᓇᖓᓂ ᐊᕐᕕᑦ ᐊᒥᓲᑎᒋᓂᖏᑦ ᐱᕝᕕᐅᔪᓐᓇᖃᑦᑕᕐᓂᐊᖅᑐᑦ ᑕᒪᐃᓐᓂᒃ ᑲᑎᑦᓗᒋ3 ᐃᓄᖕᓄᑦ ᑐᕐᑰᑕᐅᖃᑦᑕᕐᓂᖏᓐᓂᒃ 52–ᖏᓃᑦᑐᓂᒃ ᐊᕐᕕᕐᓂᒃ ᐊᕐᕋᒍᑕᒫᖅ, ᑕᐃᒪᐃᓕᖓᓕᕐᓗᑎᒃ ᑕᒪᕐᒥᑎᐊᖅ ᐃᓚᒋᔭᐅᓗᑎᒃ ᑐᕐᑯᔪᑕᐅᖃᑦᑕᕐᒥᔪᑦ ᐊᓯᖏᑦ (ᓲᕐᓗ ᐆᒃᑑᑎᒋᓗᒋᑦ ᐊᕐᕙᓂᐊᖅᑕᐅᓂᖏᑦ ᐃᓄᖕᓄᑦ, ᐊᓐᓇᐃᔭᐃᖃᑦᑕᕐᓂᖏᑦ ᐊᒻᒪᓗ ᔭᒐᐃᔭᐅᓕᖃᑦᑕᕐᓂᖏᑦ, ᓄᓕᐊᖅᑕᐅᖃᓯᐅᔾᔭᐅᕙᓐᓂᖏᑦ, ᐅᒥᐊᔪᐊᕐᓄᑦ ᐊᐳᖅᑕᐅᓚᕿᕙᓐᓂᖏᓪᓗ).

ᖃᓄ ᐱᒋᐊᖓᓚᐅᖅᓯᒪᒻᒪᖔᑕ

ᐊᕐᕕ (*Balaena mysticetus*) ᓄᓇᕐᔪᐊᓕᒫᒥ ᐅᑭᐅᖅᑕᖅᑑᓃᓐᓇᖓᓃᓲᖑᕗᑦ. ᐊᕐᕕᑦ ᑲᓇᓐᓇᖅᐸᓯᐊᓂ ᐅᑭᐅᖅᑕᖅᑐᒥ ᓇᒧᑐᐃᓐᓇᓲᑦ ᓂᕈᑐᔪᓂᒃ (ᑕᑯᑎᑦᑎᔾᔪᑎ 1). ᖁᒻᒧᐊᑦᑎᑕᐅᓯᒪᔪᑎᒍᑦ ᓇᓗᓇᐃᒃᑯᑦᑎᖅᑕᐅᕙᓐᓂᖏᓐᓂᒃ ᓴᕿᑎᑕᐅᓯᒪᓕᖅᑐᑦ ᓇᓗᓇᕈᓐᓃᖅᑐᑦ ᑕᐃᒃᑯᐊ ᑲᓇᑕᐅᑉ ᑲᓇᓐᓇᖅᐸᓯᐊᓂ–ᐊᑯᑭᑦᑐᐃᓪᓗ ᐱᖓᓇᖅᐸᓯᐊᓂ ᐊᕐᕕᑦ ᐅᑭᕙᓐᓂᖏᑦ ᑕᐅᕙᓂ ᕿᑭᖅᑖᔫᓪᓗ ᓄᓇᕕᐅᓪᓗ ᑕᓇᐅᖓᓂ ᐃᑭᕋᓴᖓ, ᑕᐅᕙᓂᓗ ᖃᓂᒋᔭᖓᓂ ᐃᖃᓗᐃᑦ ᑕᓯᐅᔭᔪᐊᖓᓂ ᐊᒻᒪᓗ ᑲᖏᖅᑐᐊᓗᐊᓂ/ᐅᐱᖅᒋᕕᒻᒥ. ᑐᕙᐃᔭᑉᑉᓕᐊᓕᖅᑎᓪᓗᒍ, ᐊᕐᕕᑦ ᐱᑕᖃᓕᕋᐃᒐᒥᒃ ᐅᐊᓐᓇᖅᐸᓯᐊᓂ ᓴᓂᕋᔭᐅᑉ ᓯᑯᓯᓚᐅᓪᓗ ᑕᓇᐅᖓᓂ ᓄᑉᐸᑉᓕᐊᓲᑦ ᐅᐱᓐᖓᒫᑯᑦ ᑕᐅᕗᓈᖅᓱᑎᒃ ᐊᐅᒃᑲᓐᓂᕐᔪᐊᒃᑯᑦ ᐊᐅᔭᓕᕝᕕᒋᓂᐊᖅᑕᖏᓐᓄᑦ ᐃᒪᕐᓄᑦ ᑰᒐᓇᔫᑉ ᑕᓇᐅᖓᓄᑦ ᐊᒻᒪᓗ ᐃᑭᕋᓴᐅᑉ ᐃᒪᖓᓄᑦ/ᑕᓇᐅᖓᓄᑦ. ᐊᕐᕕᑦ ᓂᒋᖅᐸᓯᐊᓂᓲᑦ ᕿᑭᖅᑖᔫᑉ ᑕᓇᐅᖓᓂ ᓄᑉᐸᑉᑐᑦ ᐊᐅᔭᓕᕝᕕᒋᕙᒃᑕᒥᓄᑦ ᑕᐅᕗᖓ ᑰᒐᓇᔫᑉ ᑕᓇᐅᖓᓄᑦ ᐊᒻᒪᓗ ᐃᑭᕋᓴᐅᑉ ᐃᒪᖓᓄᑦ ᑕᓇᐅᖓᓄᑦ ᐃᖏᕋᕕᖅᖃᓯᒋᑎᒃ ᓂᒋᖅᐸᓯᐊᒍᑦ ᕿᑭᖅᑖᔫᓪᓗ ᓄᓇᕕᐅᓪᓗ ᑕᓇᐅᖓᓂ ᐃᑭᕋᓴᖓᒍᑦ ᐅᕙᓗᓐᓂᑦ ᐅᐊᖓᓇᖓᒍᑦ ᑕᓪᓗᕈᑎᐅᑉ ᐃᑭᕋᓴᖓᒎᖅᓱᑎᒃ. ᐊᕐᕕᑦ ᓇᓗᓇᐃᒃᑯᑦᑎᖅᑕᐅᓯᒪᔪᑦ ᒪᓕᒍᑎᓂᒃ ᐱᖓᓐᓇᖅᐸᓯᐊᓂ ᐊᑯᑭᑦᑐᐃᑦ ᓄᓇᖏᓐᓂ ᓅᐸᒃᑐᑦ ᕿᑭᖅᑖᔫᒥ ᓴᓐᓂᕈᑎᐅᑉ ᐃᒫᒍᑦ ᐅᐱᖓᒍᖓᓂᖓᓂ ᑲᓇᑕᒥᐅᑉ ᐃᒪᕐᑯᑎᖏᓐᓄᑦ. ᐊᐅᔭᒃᑯᑦ ᐃᓚᖏᑦ ᓇᓗᓇᐃᒃᑯᑦᑎᖅᑕᐅᓯᒪᔪᑦ ᐊᕐᕕᑦ ᐃᒪᕐᓃᐸᑦᑐᑦ ᖁᑦᑎᒃᑐᒥ ᕿᑭᖅᑕᒐᓴᐃᑦ ᐃᒪᕕᐅᓂᖏᓐᓂ ᐊᒻᒪᓗ ᐃᓚᖏᑦ ᐱᖓᓐᓇᒻᒪᕆᐊᓄᐊᐸᑦᑐᑦ ᑰᒐᓇᔫᑉ ᑕᓇᐅᖓᓄᑦ; ᐊᓯᖏᑦ ᑕᐅᕙᓃᑐᐃᓐᓇᐸᒻᒥᔪᑦ ᑲᓇᓐᓇᖅᐸᓯᐊᓂ ᕿᑭᖅᑖᔫᑉ ᑕᓇᐅᖓᓂ. ᐱᓗᐊᖅᑐᒥᒃ ᐊᐅᔭᒃᑯᑦ ᐱᑕᖃᓲᖑᕗᑦ ᑕᐅᕙᓂ ᓴᓂᕋᔭᐅᑉ ᓯᑯᓯᓚᐅᑉ ᑕᓇᐅᖓᓂ, ᑰᒐᓇᔫᑉ ᑕᓇᐅᖓᓂ, ᐃᑭᕋᓴᐅᑉ ᐃᒪᖓᓂ ᑕᓇᐅᖓᓂ, ᑲᖏᖅᑐᐊᓗᐊᓂᓗ/ᐅᐱᖅᒋᕕᒻᒥ ᐊᒻᒪᓗ ᓂᖏᖓᓂᕐᒥᒃ/ᐃᒐᓕᖅᑑᕐᒥ ᐃᒪᕐᓂ.

ᐊᕐᕕᑦ ᑲᓇᑕᐅᑉ ᑲᓇᓐᓇᖓᓂ–ᐊᑯᑭᑦᑐᐃᓪᓗ ᐱᖓᓇᖓᓂ ᑎᒥᖏᓐᓂ ᐱᐅᓯᖏᑦ ᐊᔾᔨᒌᒻᒪᓇᖏᓚᖏᑦ ᑕᐃᒃᑯᓇᓐᖓᑦ ᐅᐊᓕᓂᖅᐸᓯᒻᒥᓲᖑᔪᓂᒃ ᑲᐃᐅᓇᖏᒥ–ᑦᓱᒃᓯᒥ–ᑐᒃᑐᔾᖅᑑᓪᓗ ᑕᓇᐅᖏᓐᓂ ᐊᕐᕕᓐᓂᒃ. ᒫᓐᓇᐅᔪᖅ ᓴᕿᓯᒪᓕᖅᑐᑦ ᑎᒥᖓᑕ ᐃᓗᓕᒥᐅᑕᖏᓐᓂᒃ ᑎᒥᖃᓂᖏᓐᓂᖓᖅᑐᓂᒃ ᐊᒻᒪᓗ ᖁᒻᒧᐊᒃᑎᑕᐅᓯᒪᔪᑦ ᓇᓗᓇᐃᒃᑯᑦᑎᖅᑕᐅᓯᒪᓂᖏᓐᓂ ᓴᕿᑎᑦᑎᒍᓐᓇᖅᓱᓯᒪᖏᑦᑐᑦ ᒪᕐᑑᒫᖓᑕ ᐃᓱᒪᒋᔭᐅᓯᒪᒋᔭᐅᖏᓐᓇᓚᐅᖅᑐᓂᒃ ᑕᐃᒪᐃᒋᐊᖏᑦ ᑲᓇᑕᐅᑉ–ᑲᓇᓐᓇᖓᓂ–ᐊᑯᑭᑦᑐᐃᓪᓗ ᐱᖓᓇᖓᓂ ᐊᕐᕕᖅᑯᑎᖏᓐᓂᒃ. ᐊᒥᓲᓂᖅᓴᐃᑦ ᐊᕐᓇᓪᓗᐃᑦ ᐊᒻᒪᓗ ᐊᕐᕕᕋᓛᖏᑦ ᑕᑯᔭᐅᖃᑦᑕᖅᑐᓪᓗ ᐅᐊᓐᓇᖅᐸᓯᐊᓂ ᕼᐊᑦᓴᓐ–ᐲᑉ ᑕᓯᐅᔭᔪᐊᖑᓂᖓᓂ–ᓴᓂᕋᔭᐅᓪᓗ ᓯᑯᓯᓚᐅᓪᓗ ᑕᓇᐅᖓᓂ ᐊᒻᒪᓗ ᑕᐃᒃᑯᓇᓂ ᑰᒐᓇᔫᑉ ᑕᓇᐅᖓᓃᑦᑐᑦ ᐃᓱᒪᒋᔭᐅᕙᒃᑲᓗᐊᓇᓗᑎᒃ ᐃᓛᒍᑦ ᐅᑭᐅᖃᕐᓂᖏᓐᓂᒃ/ᐊᕐᓇᓪᓗᓂᖏᓐᓂᒃ/ᐊᖑᓴᓪᓗᓐᓃᖏᓐᓄᓪᓗ ᐊᔾᔨᒋᖏᓐᓂᖃᕋᓗᐊᕐᓂᖅ ᑖᒃᑯᐊ ᐊᕐᕕᑦ.

ᓯᕗᓂᐊᒍᑦ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᖏᒪᑕ ᑕᐃᒃᓂᒃ ᐊᐅᔭᓕᒐᕙᐅᕙᓐᓂᖏᑦ ᑲᓇᑕᐅᑉ ᑲᓇᓐᓇᖅᐸᓯᐊᓂ–ᐊᑯᑭᑦᑐᐃᓪᓗ ᐱᖓᓇᖅᐸᓯᐊᓂ ᐊᕐᕕᑦ ᐱᑕᖃᕐᓂᖏᑦ. ᐅᑭᐅᖅᑕᖅᑐᓂᒃ ᐊᐅᔭᓴᖅᑕᐅᓚᐅᖅᓯᒪᔪᑦ ᕿᑭᖅᑖᔫᓪᓗ ᓄᓇᕕᐅᓪᓗ ᑕᓇᐅᖓᓂ ᐃᑭᕋᓴᖏᓐᓃᑦᑐᑦ ᒫᔾᔨ 1981–ᒥ, ᑭᖑᓂᐊᒍᓪᓗ ᐊᒥᓱᒐᓴᐅᓕᖅᑐᓂ ᑭᖑᓕᕆᑦᑐᓂ ᐊᕐᕋᒍᓂ (2002, 2003 ᐊᒻᒪᓗ 2004–ᖑᑎᓪᓗᒍ) ᖃᐅᔨᓴᖅᑕᐅᓚᐅᖅᓯᒪᔪᑦ ᖃᐅᔨᒪᔭᐅᓂᖏᑦ ᐊᕐᕕᑦᑕᕐᑲᕐᓂᖏᑦ ᐊᒥᓲᕙᑦᑐᓂᒃ (ᒪᕐᕉᓐᓂᒃ ᐃᒻᒥᒍᖅᑐᓂᒃ ᐊᕐᕕᖃᕐᕕᐅᓂᖅ ᐃᓕᑕᕆᔭᐅᓚᐅᖅᓯᒪᔪᑦ ᑕᐃᔅᓱᒪᓂ). ᑭᖑᓂᐊᒍᑦ ᑲᓇᓐᓇᖅᐸᓯᐊᓃᓲᑦ ᐅᑭᐅᖅᑕᖅᑐᒥ ᐊᕐᕕᑦ ᖃᐅᔨᓴᖅᑕᐅᑎᐊᒃᑲᓐᓂᕋᒥᒃ, ᐃᓕᑕᕆᔭᐅᓕᓚᐅᖅᑐᑦ ᐊᑕᐅᓯᕐᒥᖓᖅᑐᐃᓐᓇᐅᕙᓐᓂᖏᓐᓂᒃ 2006–ᖑᓚᖅᑎᓪᓗᒍ, ᐊᔪᕐᓇᖅᓯᓚᐅᖅᑐᖅ ᓇᓚᐅᑦᑖᖅᑕᐅᒍᓐᓇᕐᓂᖏᑦ ᐊᒥᓱᑎᒋᓂᖏᑦ ᐊᕐᕕᑦ ᑐᑭᓯᔭᐅᓯᒪᓂᖏᓄ ᖃᐅᔨᓴᖅᑕᐅᓚᐅᖅᑐᓂᒃ ᐊᓯᖏᓐᓂ ᐃᒪᕐᓂᒃ ᐊᓯᖏᓐᓂᓗ ᐊᕐᕋᒍᓂᒃ ᖃᐅᔨᓴᕐᕕᐅᕙᓚᐅᕐᓂᖏᓐᓂ. ᐃᓚᖓᒍᑦ ᐱᑕᖃᕐᓂᖏᓐᓂ ᓇᓚᐅᑦᑖᕈᑕᐅᓚᐅᖅᑐᑦ 2002–ᒥ ᖃᖓᑕᔫᒃᑯᑦ ᖃᐅᔨᓴᕐᕕᐅᓚᐅᕐᓂᖏᑦ ᑕᐅᕙᓂ ᑕᓯᐅᔭᐅᑉ ᐃᓐᓈᔫᑉ ᑲᖏᖅᓱᐊᔪᖓᓂ, ᑰᒐᓇᔫᑉ ᑕᓇᐅᖓᓂ ᐊᒻᒪᓗ ᐃᑭᕋᓴᐅᑉ ᐃᒪᖓᓂ ᑕᓇᐅᕐᒥ ᑕᒻᒪᖅᓯᒪᓂᐅᓴᐃᓐᓇᕐᓂᖏᓐᓄ ᐱᔾᔪᑎᒋᓗᒋ ᐊᒥᓲᖏᓗᐊᓚᐅᕐᓂᖏᑦ ᐊᕐᕕᑦ ᑕᑯᔭᕙᓚᐅᕐᓂᖏᑦ ᑕᐃᓱᒪᓂ. ᑕᒪᕐᒥᒃ ᑭᖑᓂᐊᒍᑦ ᖃᐅᔨᓴᖅᑕᐅᓚᐅᕐᒥᔪᑦ 2002–ᒥ ᖃᖓᑕᔫᒃᑯᑦ ᖃᐅᔨᓴᖅᑕᕐᖃᓚᐅᖅᑐᓂᒃ ᑐᑭᓯᔪᔾᔭᓚᐅᖅᑐᑦ ᑲᓇᑕᐅᑉ ᑲᓇᓐᓇᖓᓂ–ᐊᑯᑭᑦᑐᐃᓪᓗ ᐱᖓᓇᖓᓂ ᐊᕐᕕᑦ ᐊᒥᓱᕈᑲᓐᓂᖅᓱᒪᕐᔪᐊᓚᐅᕐᓂᖏᓐᓂ ᑕᐃᒪᖓᑦ ᐊᕐᕕᑦ ᓴᐳᓐᓂᐊᖅᑕᐅᒋᐊᓚᐅᖅᑎᓪᓗᒋᑦ ᑭᓇᐅᔭᓕᐅᕈᑕᐅᔪᓂᒃ ᐊᕐᕙᓐᓂᐊᖅᑕᐅᒍᓐᓇᕐᓂᖏᓐᓂ.

ᐃᓱᖃᖅᑎᑕᐅᔪᓂ ᓂᕿᑦᓴᓂᒍᑎᑦᓴᓂᒃ ᐊᕐᕙᓐᓂᐊᕈᓐᓇᖅᓯᓚᐅᖅᑐᑦ ᑲᓇᑕᐅᑉ ᑲᓇᓐᓇᖓᓂ–ᐊᑯᑭᑦᑐᐃᓪᓗ ᐱᖓᓇᖓᓂ ᐊᕐᕕᓐᓂᒃ ᓄᓇᕗᒻᒥ ᓄᓇᑖᕐᕕᐅᓯᒪᓕᖅᑑᑦ ᑭᖑᓂᐊᒍᑦ 1996-ᖑᓚᖅᑎᓪᓗᒍ ᐊᒻᒪᓗ ᓄᓇᕕᒻᒥ ᑕᓇᐅᕐᒥᐅᑕᓕᕆᓂᕐᒍᑦ ᑲᑎᒪᔨᕐᓕᖃᓕᕐᒥᒃ 2008–ᖑᑎᓪᓗᒍ. (ᐊᕕᑦᑐᖅᓯᒪᔪᓂ ᑕᑯᑎᑦᑎᒍᑎᑦᓴᐃᑦ 1). ᑕᒪᑯᐊ ᐊᕐᕙᓐᓂᐊᕈᑏᑦ ᐊᐅᓚᑕᐅᖃᓯᐅᔾᔭᐅᕙᑦᑐᑦ ᓄᓇᕗᒻᒥ ᐆᒪᔪᓕᕆᔨᔪᐊᒃᑯᓐᓂᒃ, (ᐆᒪᔪᓕᕆᔨᔪᐊᒃᑯᑦ), ᓄᓇᕕᒻᒥ ᑕᓇᐅᕐᒥᐅᑕᓕᕆᔨᒃᑯᑦ ᑲᑎᒪᔨᔪᐊᖏᓐᓄᑦ, ᐊᒻᒪᓗ ᑲᓇᑕᐅᑉ ᐃᖃᓗᓕᕆᔨᔪᐊᒃᑯᓐᓄᑦ ᑕᓇᐅᕐᒥᐅᑕᓕᕆᔨᔪᐊᓄᑦᓗ (ᑕᓇᐅᕐᒥᐅᑕᓕᕆᔨᔪᐊᒃᑯᑦ). ᒫᓐᓇᐅᓕᖅᑐᖅ ᑲᑎᑦᓗᓕᖅᑐᑦ ᐊᕐᕕᖅᑐᖃᓐᓇᕐᓂᖅ ᐊᕐᕋᒍᑕᒫᖅ ᓄᓇᕗᑦ ᐃᓗᐊᓂ, ᐊᒻᒪᓗ ᒪᕐᕉᓐᓂᒃ ᐊᕐᕕᓐᓂᒃ ᐊᕐᕋᒍᑕᒫᖅ ᓄᓇᕗᒻᒥᐅᓂ, ᑕᐅᕙᓂ ᑕᓇᐅᕐᒥᐅᑕᓕᕆᔨᒃᑯᑦ ᑲᑎᒪᔨᖓᒍᑦ. ᑕᒪᐃᓐᓂᒃ ᓄᓇᑖᕐᓇᔭᐅᓯᒪᓕᖅᑐᓂ, ᐃᖃᓗᓕᕆᔨᔪᐊᒃᑯᓐᓂᒃ ᓚᐃᓴᖃᖅᑎᑕᐅᒋᐊᖃᓲᖑᕗᑦ ᐊᖏᖅᑕᐅᓯᒪᓂᕐᒍᑦ ᐊᒥᐊᒃᑯᖃᑦᑎᐊᓚᖓᔪᓂᒃ ᐊᕐᕙᒍᓐᓇᕐᓂᖅ. ᐊᕐᕙᓐᓂᐊᕈᓐᓇᐅᑎᖏᑦ ᐱᔪᓇᐅᑎᖏ ᐊᔪᕐᓇᖅᑎᑦᑎᔪᑦ ᐱᔪᓐᓇᕐᓂᖅ ᐊᕐᕕᕋᓛᖏᓐᓂ (ᒥᑭᓂᖅᓴᓂᒃ <7.6 m ᒦᑕᓕᓐᓂᒃ) ᐅᕙᓐᓂᕐᓃᑦ ᐊᕐᕕᓐᓂᒃ ᐊᕐᕕᕋᓛᓕᖅᑐᓂᒃ. ᐊᖑᓇᓱᒍᓐᓇᕐᓂᕐᒍᑦ ᒪᓕᒐᓪᓗᑐᐃᑦ ᐊᑐᓕᖅᑎᑕᐅᓯᒪᕙᑦᑐᑦ *ᐃᖃᓗᓕᕆᔨᕐᓂᕐᒍᑦ ᒪᓕᒐᖅᑎᒍᑦ* ᐊᒻᒪᓗ ᑕᓇᐅᕐᒥᐅᑕᐃᑦ ᐆᒪᔪᐃᑦ ᐳᐃᓐᑦ ᒪᓕᒐᓪᓗᑐᖏᓐᓄᑦ, ᐃᖃᓗᓕᕆᔨᔪᐊᒃᑯᓐᓄᑦ ᐊᑐᓕᖅᑎᑕᐅᓯᒪᕐᓱᑎᒃ. 2014–ᒥ ᓄᓇᓕᔾᔪᐊᓕᒫᓄᑦ ᐊᕐᕕᓕᕆᔨᕐᒍᑦ ᑲᒥᓯᓇᒃᑯᑦ ᐊᖏᕈᑎᖃᒃᑲᓐᓂᓕᓚᐅᕆᕗᑦ ᒪᕐᕉᓐᓂᒃ

ᐊᕕᑦᑕᐅᔪᓐᓇᖅᑐᓂᒃ ᐊᕐᕋᒍᑕᒫᖅ ᐊᑯᑭᑦᑐᐃᑦ ᐱᖓᓐᓇᖓᓂ, ᒪᓕᒐᖅᑲᖅᑎᑕᐅᑕᑐᐊᕈᑎ ᐊᕐᕋᒍᑕᒫᖅ ᕿᒥᕐᕈᓇᒃᑕᐅᒃᑲᓐᓂᕈᓐᓇᕐᓂᖅ ᖃᐅᔨᓴᖅᑎᑦ ᑲᑎᒪᔨᕋᓛᖏᓐᓄᑦ ᑕᐃᒃᑯᓇᖓᑦ ᓄᓇᓕᔾᔪᐊᓕᒫᓄᑦ ᐊᕕᓕᕆᓂᕐᒧᑦ ᑲᒥᓯᓇᒃᑯᖏᓐᓄ.

ᐊᕕᑦᑐᖅᓯᒪᔪᓂ ᑕᑯᑎᑦᑎᒍᑎᑦᓴᐃᑦ 1. ᐊᒥᐊᒃᑯᓯᒪᑦᑎᐊᕐᓂᐊᖅᑐᓂᒃ ᐊᕐᕙᓐᓂᐊᕈᓐᓇᕐᓂᖏᑦ ᓄᓇᕗᒻᒥᐅᓂ ᐊᒻᒪᓗ ᓄᓇᕕᒻᒥ.

ᐊᕐᕋᒍᒥ	ᓄᓇᓕᒻᒥ	ᐊᕐᕙᓐᓂᐊᕐᓂᖏᑦ	ᐊᖑᓴᓪᓗᖅ ᐊᕐᓇᓪᓗᖅ	ᑕᑭᓂᖏᑦ (m–ᒥᑕᑎᒍᑦ)
1996	ᓇᐅᔭᑦ, ᓄᓇᑦᓯᐊᖅ†	15-ᐋᒐᓯ-96	ᐊᖑᓴᓪᓗᖅ	14.91
1998	ᐸᓐᓂᖅᑑᖅ, ᓄᓇᑦᓯᐊᖅ†	21-ᔪᓚᐃ-98	ᐊᖑᓴᓪᓗᖅ	12.75
2000	ᓴᓪᓕᖅ, ᓄᓇᕗᑦ	16-ᐋᒐᓯ-00	ᐊᖑᓴᓪᓗᖅ	11.65
2002	ᐃᒡᓗᓕᒃ, ᓄᓇᕗᑦ	10-ᐋᒐᓯ-02	ᐊᕐᓇᓪᓗᖅ	14.19
2005	ᓇᐅᔮᑦ, ᓄᓇᕗᑦ	18-ᐋᒐᓯ-05	ᐊᕐᓇᓪᓗᖅ	16.40
2008	ᓴᓂᕋᔭᒃ, ᓄᓇᕗᑦ	18-ᐋᒐᓯ-08	ᐊᖑᓴᓪᓗᖅ	13.43
2008	ᑯᒫᕐᔪᒃ, ᓄᓇᕗᑦ	04-ᓯᑎᐱᕆ-08	ᐊᖑᓴᓪᓗᖅ	10.51
2008	ᑲᖏᖅᓱᔪᐊᑦ, ᓄᓇᕕᒃ	09-ᐋᒐᓯ-08	ᐊᖑᓴᓪᓗᖅ	14.88
2009	ᑲᖏᖅᓵᓂᖅ, ᓄᓇᕗᑦ	28-ᐋᒐᓯ-09	ᐊᕐᓇᓪᓗᖅ	16.15
2009	ᑭᓐᖓᐃᑦ, ᓄᓇᕗᑦ	29-ᓯᑎᐱᕆ-09	ᐊᖑᓴᓪᓗᖅ	15.77
2009	ᑲᖏᖅᓱᔪᐊᖅ, ᓄᓇᕕᒃ	22-ᐋᒐᓯ-09	ᐊᕐᓇᓪᓗᖅ	17.29
2010	ᒥᑦᑎᒪᑕᓕᒃ, ᓄᓇᕗᑦ	05-ᐋᒐᓯ-10	ᐊᖑᓴᓪᓗᖅ	12.80
2010	ᓇᐅᔮᑦ, ᓄᓇᕗᑦ	28-ᐋᒐᓯ-10	ᐊᕐᓇᓪᓗᖅ	14.32
2011	ᓴᓪᓕᖅ, ᓄᓇᕗᑦ	20-ᓯᑎᐱᕆ-11	ᐊᕐᓇᓪᓗᖅ	16.38
2011	ᐃᖃᓗᐃᑦ, ᓄᓇᕗᑦ	15-ᐋᒐᓯ-11	ᐊᖑᓴᓪᓗᖅ	14.33
2011	ᑯᒫᕐᔪᒃ, ᓄᓇᕗᑦ	20-ᐋᒐᓯ-11	ᐊᕐᓇᓪᓗᖅ	9.04
2012	ᐃᒃᐱᐊᕐᔪᒃ, ᓄᓇᕗᑦ	11-ᐋᒐᓯ-12	ᐊᖑᓴᓪᓗᖅ	8.99
2012	ᓇᐅᔮᑦ, ᓄᓇᕗᑦ	13-ᐋᒐᓯ-12	ᐊᖑᓴᓪᓗᖅ	8.10
2012	ᑕᓗᕐᔪᐊᑦ, ᓄᓇᕗᑦ	06-ᓯᑎᐱᕆ-12	ᐊᕐᓇᓪᓗᖅ	9.60
2013	ᐸᓐᓂᖅᑑᖅ, ᓄᓇᕗᑦ	06-ᐋᒐᓯ-13	ᐊᖑᓴᓪᓗᖅ	12.80
2013	ᓇᐅᔮᑦ, ᓄᓇᕗᑦ	31-ᐋᒐᓯ-13	ᐊᕐᓇᓪᓗᖅ	15.72
2013	ᐅᖅᓱᖅᑑᖅ, ᓄᓇᕗᑦ	14-ᓯᑎᐱᕆ-13	ᐊᖑᓴᓪᓗᖅ	9.75
2014	ᑲᖏᑦᑐᒫᐱ, ᓄᓇᕗᑦ	03-ᐋᒐᓯ-14	ᐊᕐᓇᓪᓗᖅ	16.00
2014	ᑯᒫᕐᔪᒃ, ᓄᓇᕗᑦ	31-ᐋᒐᓯ-14	ᐊᖑᓴᓪᓗᖅ	13.10

†ᓯᕗᓂᐊᒍᑦ 1999–ᒥ, ᓄᓇᕗᑦ ᓱᓕ ᐊᕕᓚᐅᖅᑎᓐᓇᒍ ᓄᓇᑦᓯᐊᕐᒥᒃ.

ᖃᐅᔨᓴᕈᓯᕆᔭᐅᓚᐅᕐᓂᖏᑦ

ᖃᖓᑕᔫᒃᑯᑦ ᓈᓴᐅᖅᑕᐅᒐᓯᐊᕈᑎᒋᔭᐅᓚᐅᖅᑐᑦ ᐊᒻᒪᓗ ᖃᐅᔨᓴᕈᓯᐅᓚᐅᕐᑐᑦ

ᖁᑦᑎᑦᑐᕐᒥᐅᑦ ᐃᒪᕐᒥᐅᑕᐃᑦ ᓴᖅᐱᓖᑦ ᖃᐅᔨᓴᓚᐅᕐᓂᖏᑦ ᐊᒥᓲᓂᖃᕐᓂᖏᓐᓂᒃ ᐋᕿᐅᒪᔭᐅᓚᐅᖅᑐᐃᑦ ᐊᖏᓂᖅᐹᖑᒋᐊᖅᑎᑕᐅᓗᑎᒃ ᐱᑕᖃᕐᕕᐅᓂᖏᓐᓂᒃ ᐊᐅᔭᒃᑯᑦ ᓇᓃᓐᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐱᐅᓯᒋᐊᖅᑕᐅᒍᒪᓪᓗᑎᒃ ᑕᒻᒪᖅᓱᒪᒋᐊᖃᖏᓐᓂᖏᑦ, ᑕᐃᔅᓱᒪᓂᓂᑕᐅᓕᖅᑐᓂᒃ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᕙᓚᐅᖅᑐᓂ. ᐊᖑᒪᔭᐅᕐᑯᓪᓗᒋᑦ ᑕᒪᒃᑯᐊ ᒪᓕᒃᑕᐅᒍᒪᓂᖏᑦ, ᖃᐅᔨᓴᕐᕕᐅᓚᐅᖅᑐᑦ ᐊᕕᑦᑐᖅᑕᐅᓯᒪᕙᓚᐅᖅᑐᑦ ᐊᓂᖏᓐᓂᒃ ᑭᓪᓕᖅᑲᖅᑎᑕᐅᓪᓗᑎᓪᓗ ᐃᑎᔫᑎᒋᓂᖏᓐᓂᓗ ᐱᑕᖃᒥᓇᕐᓂᖏᓂᓗ ᒪᓕᒋᐊᖅᑐᓂ ᑐᒐᓕᓐᓂ ᕿᓚᓗᒐᕐᓂ ᐊᒻᒪᓗ ᐊᕐᕌᖃᕐᓂᖏᓐᓂ ᓯᕗᓂᑦᑲᖓᒍᑦ ᖃᐅᔨᓴᖅᑕᐅᓯᒫᓂᑦᑐᓐᓂᒃ ᑐᑭᓯᓂᐊᕈᑎᖃᖅᐸᓚᐅᖅᑐᓂ ᐊᐅᔭᓕᕝᕕᐅᖃᑕᕐᓂᖏᓐᓂᒃ ᐃᒪᕐᓂ (ᑕᑯᑎᑦᑎᒍᑎ 2). ᐊᑯᓯᒪᓪᓗᑎᒃ ᐊᑐᕐᓂᖏᓐᓂᒃ ᑐᑭᒧᐊᑦᑎᐊᖅᑐᓂᒃ ᐊᒻᒪᓗ ᓴᖑᐃᔭᖅᓯᒪᔪ ᐅᖓᓯᓐᓂᖃᖅᑐᐃᓐᓇᐅᔪᓂᒃ ᐊᕕᑦᑐᐃᓯᒪᓚᐅᖅᑐᐃᑦ ᐃᓂᑦᓴᖃᖅᑐᐃᓐᓇᐅᓚᖓᒻᒪᑕ ᓂᕆᐅᒋᔭᐅᓂᖏ ᐱᑕᓕᒻᒪᕆᐅᒍᒥᓇᕐᓂᖏᓪᓗ ᐱᑕᖃᕐᓯᐊᕈᒥᓇᖏᓐᓂᖏᓪᓗ , ᐊᑐᓂ ᐊᕕᑦᑐᖅᓯᒪᓪᓗᑎᒃ.

ᐱᓇᓱᐊᖅᑕᐅᓚᐅᖅᐳᑦ ᖃᐅᔨᓴᖅᑕᐅᒍᒪᓂ ᐊᕕᑦᑐᖅᑕᐅᓯᒪᓪᓗᑎᒃ ᐱᓕᕆᐊᑦᓴᐅᑎᑕᐅᓗᑎᒃ ᐊᑕᐅᓯᕐᒥᒃ–ᒪᕐᕈᓐᓄᑦ 1-2 ᐅᓪᓘᓐᓄᑦ ᐱᔭᕇᖅᑕᐅᒍᓐᓇᕆᐊᕐᓗᑎᒃ.

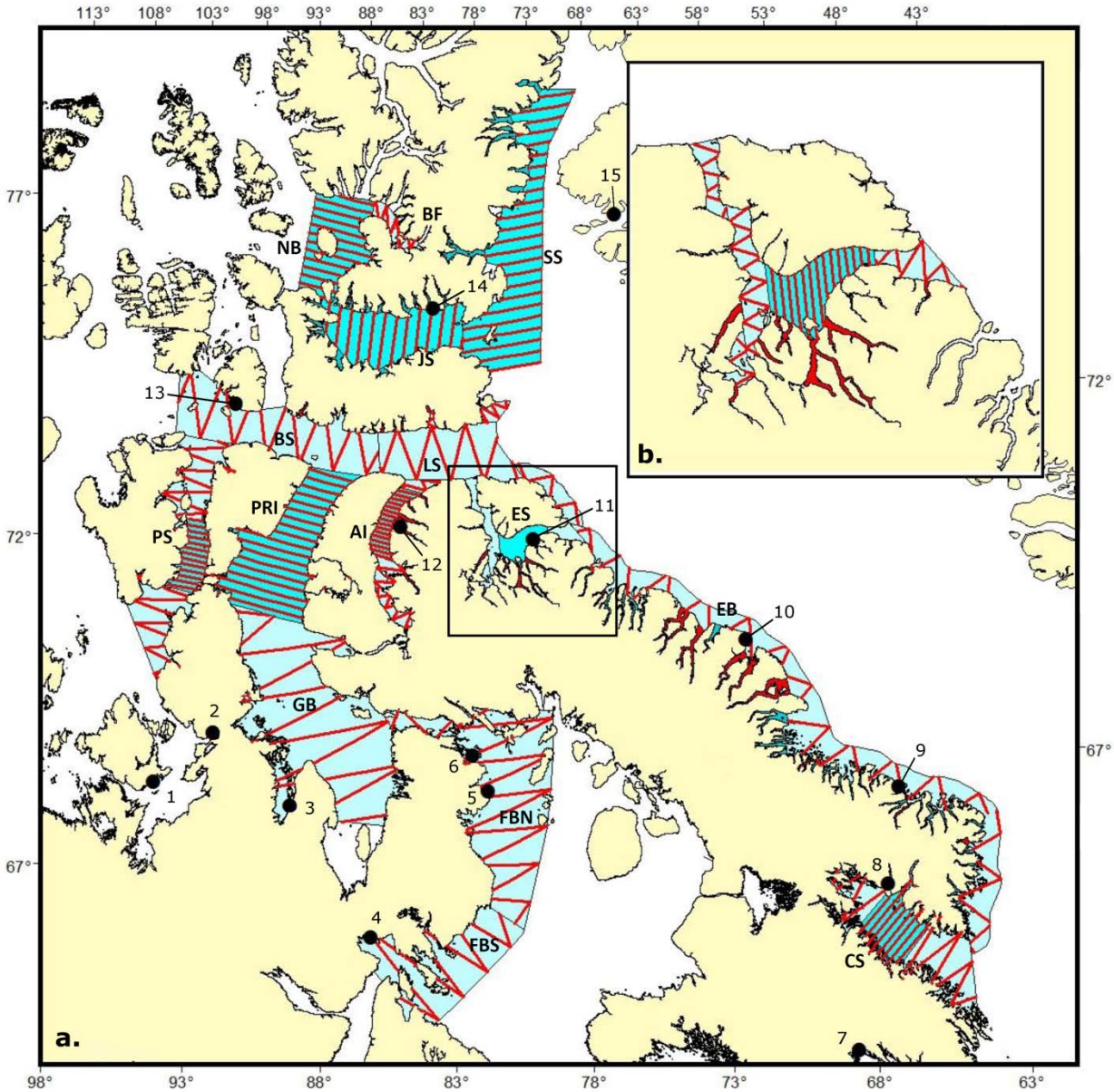
ᐱᖓᓱᓂ ᖃᖓᑕᔫᕐᓂᒃ (deHavilland Twin Otter ᒪᕐᕈᓪᓕᕋᓛᓂ 300) ᐊᑐᓚᐅᖅᑐᑦ ᐊᑕᐅᑦᓱᒃᑰᖅᓱᑎᒃ, ᐊᖏᔪᐊᓗᖕᒥᒃ ᖁᓚᐅᑦᑎᓚᖓᓪᓚᐅᖅᑐᓂᒃ ᕿᓚᐅᒥᒋᐊᕐᓂᐊᖅᑐᒥᒃ; ᐊᑐᓂ ᖃᖓᑕᓲᑦ ᖃᖓᑕᑎᑕᐅᓚᐅᖅᑐᑦ ᖁᑦᑎᓂᓕᓐᓂ 1,000 Fᐃᑦᓂᒃ (305 m ᒦᑕᓂᒃ) ᐃᖏᕐᕋᑎᒋᓪᓗᑎᒃ 100 knots-ᓈᕐᓯᐅᓂᕋᖅᑕᐅᕙᑦᑐᓂᒃ ᖃᖓᑕᔫᒃᑯᑦ ᐃᖏᕐᕋᓂᖏᓐᓂᒃ ᐆᑦᑐᑎᓂᒃ ᐃᖏᕐᕋᓂᖏᓐᓂ (185 km/h ᑭᓛᒥᑕᓂᒃ ᐃᑲᕐᕋᑕᒫᖅ). ᐊᑐᓂ ᖃᖓᑕᔫᑦ ᐊᔾᔨᐅᓕᐅᕈᑎᖃᓚᐅᖅᑐᑦ ᓈᖓᓂ (ᐊᑖᒍ) ᖃᖓᑕᓱᑦ ᐃᒪᓛᓕᒻᒥ, ᓯᑕᒪᓂᓪᓗ 4 ᐃᒪᓛᖃᓚᐅᖅᑐᑦ ᓈᓴᐃᔨᑦ ᑕᐅᑐᒍᓐᓇᕐᓂᐊᕐᒪᑕ ᐃᖏᕐᕋᓂᖏᓐᓂᒃ ᖃᐅᔨᓴᕐᕕᐅᕐᑯᔭᐅᔪᓂᒃ ᑕᐅᑐᕝᕕᒋᔭᒥᓂᒃ ᐊᑖᓃᑦᑐᓂ ᖃᖓᑕᓱᑦ. ᖃᐅᔨᓴᖅᑏᑦ ᑕᐅᑐᖃᑦᑕᖅᓱᑎᒃ ᓈᓴᐃᔨᐅᓗᑎᒃ ᐃᒪᓛᕐᒦᑎᑕᐅᖃᑦᑕᓚᐅᖅᑐᑦ ᖁᓚᐅᑦᑎᓂᖏᓐᓂ ᖃᐅᔨᓴᖅᓱᑎᒃ. ᖃᐅᔨᓴᕐᓂᖏᑦ ᐋᕿᐅᒪᔭᐅᓚᐅᖅᑐᑦ ᒪᕐᕈᐃᖅᑕᖅᓯᒪᔪᓂᒃ ᖃᐅᔨᓴᖅᑎᖃᖅᑎᑦᑎᓪᓗᑎ, ᐃᒻᒥᒍᖅᑐᓂᒃ ᑕᐅᑐᕋᓐᓈᕐᕕᖃᖅᑎᑕᐅᔪᓂᒃ ᓯᕗᓂᐊᓂ (ᓯᕗᓪᓕᐅᔪᓂ) ᐊᒻᒪᓗ ᐃᖅᑯᐊᓃᑐᓂᒃ (ᑐᓪᓕᕆᔭᐅᔪᓂᒃ) ᖃᐅᔨᓴᕐᓂᖏᓐᓂ ᖃᖓᑕᔫᒃᑯᑦ. ᒪᕐᕉᓪᓗᑎᒃ ᑕᐅᑐᕋᓐᓈᖅᑎᐅᔫᒃ ᑕᒪᐃᓐᓂ ᑭᖑᓕᕆᕐᑎᑕᐅᓚᐅᖅᑐᑦ ᖃᖓᑕᔪᑦ ᐃᓗᐊᓂ. ᑕᐃᒃᑯᐊ ᒪᕐᕉᓈᖅᑕᐅᓯᒪᔪᖕ ᓯᕗᓂᐊᓂᓗ ᐃᖅᑯᐊᓂᓗ ᑭᖑᓕᕆᕐᓯᐊᖅᑐᓂ ᐃᓪᓗᑏᓐᓂᒃ ᐃᓂᖃᖅᑎᑕᐅᓗᑎᒃ ᑕᐅᑐᒍᓇᖅᑎᑕᐅᓚᐅᖅᑐᑦ ᐊᒻᒪᓗ ᑐᓵᒍᓐᓇᕐᓂᖏᑦ ᐋᕿᐅᒪᔭᐅᑦᑎᐊᓇᐊᓚᐅᖅᑐᑦ ᑕᐃᒫᒃ ᐃᒻᒦᓐᓂᓇᖅ ᖃᐅᔨᔭᕈᓐᓇᓚᖓᒻᒪᑕ. ᐊᑐᓂ ᐱᖓᔪᐃᑦ 3 ᐱᓕᕆᔨᐅᖃᑕᐅᔪᑦ ᐃᓚᖃᖅᐸᓚᐅᖅᑐᑦ ᐊᔪᕈᓐᓃᖅᓴᖅᑎᑕᐅᓯᒪᔪᒥᒃ ᐃᓄᒻᒥᒃ ᑕᐅᑐᕋᓈᖅᑎᐅᓪᓗᓂ ᓈᓴᐃᔨᐅᖃᑕᐅᔪᖅ ᐊᒻᒪᓗ ᖃᓂᓈᓕᕋᐃᒐᒥᒃ ᓄᓇᓕᓐᓄᑦ, ᐃᓚᐅᕐᑯᔭᐅᖃᑦᑕᓚᐅᕐᒥᔪᑦ ᓄᓇᓕᓐᓂ ᐊᖑᓇᓱᑦᑏᑦ. ᑕᒪᐃᓐᓂ, ᐃᓄᐃᑦ ᐃᓚᒋᔭᐅᓪᓚᕆᓚᐅᖅᑐᑦ ᓈᓴᖅᑕᐅᒋᐊᕐᓂᖏᓐᓄᑦ ᐸᕐᓇᐅᑕᐅᓕᕋᒥᒃ ᐊᒻᒪᓗ ᖃᓄᐃᓕᖓᒍᓐᓇᓚᖓᓂᖏᓐᓂᒃ ᖃᐅᔨᓴᕐᓂᖏᓐᓂ.

ᓈᓴᐃᔨᐅᓚᐅᖅᑐᑦ ᓂᐱᓕᐅᕆᕙᓪᓕᐊᖏᓐᓇᓚᐅᖅᑐᑦ ᑎᒍᒥᐊᒐᕐᒥᓄᑦ ᓂᐱᓕᐅᕈᑎᓄᑦ ᐅᖃᖅᐸᓪᓕᐊᓗᑎᒃ ᖃᑦᓯᒧᐊᕋᐃᒻᒪᑦ ᑕᑯᓚᐅᕐᒪᖔᑕ ᐊᕐᕕᓐᓂᒃ ᓯᕗᓂᖓᓃᑦᑐᖅ ᐊᒻᒪᓗ ᖃᑦᓯᒧᐊᓕᕐᒥᑎᓪᓗᒍ ᑕᑯᔭᐅᓕᕐᒥᑎᓗᒍ ᓈᓴᐅᔨᓄᑦ ᐃᕐᑯᐊᓃᑦᑐᒧᑦ ᖃᖓᑕᓱᑦ ᐃᓗᐊᓂ. ᐊᒻᒪᑕᐅᖅ ᐊᓯᖏᓐᓂᒃ ᖃᐅᔨᒪᔭᐅᔪᑦᓴᓂᒃ ᓂᐱᓕᐅᖅᐸᓪᓕᐊᖏᓐᓇᓚᐅᖅᑐᑦ ᒪᑯᓂᖓ ᓯᕗᓪᓕᐅᑎᑦᑎᓪᓗᑎᒃ:

1) ᐊᒥᓲᓂᖏᓐᓂ ᐊᕐᕕᑦ ᑲᑎᖓᐅᖅᑐᒦᑦᑐᑦ (ᑐᑭᖃᖅᑎᑕᐅᓗᑎᒃ ᑲᑎᖓᐅᓂᖅᕋᐃᔪᑦ ᐃᒪᒃ, ᒪᕐᕈᓐᓂᒃ ᐊᒥᓲᓂᖅᓴᐅᔪᓂᓘᓐᓂᑦ ᖃᓂᑏᑦᑑᑎᐅᔪᓂ ᓱᕐᓗ ᑎᒥᖓᑕ ᑕᑭᑎᒋᓂᖓᑕ ᖃᓂᓐᓂᖃᖅᑎᒋᔪᓂᒃ ᐊᒻᒪᓗ ᓵᖓᔪᒥᒃ ᑕᐃᒃᑯᓄᖓᑦᓴᐃᓐᓇᖅ ᓇᒧᖓᐅᕝᕕᒋᔭᖏᓐᓄᑦ),

2) ᓴᓂᕐᑯᑕᐅᕙᓪᓕᐊᓕᖅᑎᓪᓗᒋᑦ ᑕᑯᔭᐅᖃᑦᑕᕐᓂᖏᑦ, ᐊᒻᒪᓗ

3) ᐊᓯᖏᓪᓗ ᐊᔾᔨᒌᖏᑐᐃᑦ (ᓇᒧᖓᐅᕙᓪᓕᐊᓂᖏᓐᓂᒃ, ᐱᑕᖃᕐᓂᖏᓪᓗᓐᓃᑦ ᐊᕐᕕᕋᓛᑦ ᐱᐊᕋᖏᑦ).



ᐊᕕᑦᑐᖅᓯᒪᔪᓂᒃ ᑕᑯᑎᕐᑎᒍᑦ 2. a.) ᓄᓇᖑᐊᖅ ᐃᒪᖑᐊᓪᓗ ᐸᕐᓇᑦᑕᐅᓯᒪᓚᐅᖅᑐᐃᑦ ᖃᐅᔨᓴᕐᕕᕐᓴᐅᓂᖏᑦᑕᓐᓄᑦ ᓴᖅᐱᓕᓐᓂᒃ (ᑐᖑᔪᖅᑐᓖᑦ ᐊᕙᓗᖏᑦ), ᐊᕕᑦᑐᖅᓯᒪᔪᑦ ᓇᐅᒃᑯᕐᕕᕐᓴᖏᑦ (ᐊᐅᐸᖅᑐᐃ), ᐊᒻᒪᓗ ᑲᖏᖅᓲᓂᖏᓐᓂ ᖃᐅᔨᒪᔾᔪᑕᐅᓂᖏᑦ (ᐊᐅᐸᖅᑐᓂ ᑕᖅᓴᖃᖅᑐᐃ. AI: ᓴᓐᓂᕈᑎᐅᑉ ᑐᓄᓂᕈᓯᐅᑦᓗ ᐃᒪᓂᖓᓂ ***BF:*** *ᑲᐊᐅᒪᓐ ᑲᖏᖅᓯᐊᓂ. BS: ᑐᕝᕕᒐᔪᒥ CS: ᐸᓂᖅᑑᑉ ᐃᑭᖓᓂ. EB: ᑲᓇᓐᓇᖓᓂ ᕿᑭᖅᑖᓗᑉ. ES: ᑕᓯᐅᔾᖅ ᐃᓐᓗᖓᑕ ᑲᖏᖅᓯᐊᔪᖓᓂ. FBN: ᓴᓂᕋᔾᒥᐅᑦ ᓯᑯᓯᓚᐅᑦᓗ ᑕᓇᐅᖓᓂ. FBS: ᓴᓂᕋᔾᒥᐅᑦ ᓯᑯᓯᓚᐅᑦᓗ ᑕᓇᐅᖓᓂ ᓂᒋᖅᐸᓯᐊᓂ. GB: ᕿᑎᖅᒥᐅᓂ ᐃᑭᕋᓴᐅᑉ ᐃᒪᖓ/ᐃᑦᑐᐊᖅᑐᕕᒻᒥ JS: ᐊᐅᓯᐃᑑᑉ ᕿᑭᖅᑕᖓᑕ ᓂᒋᐊᓂ ᐃᒪᖓᓂ. LS: ᑕᓪᓗᕈᑎᐅᑉ ᐃᑭᕋᓴᖓᓂ. NB: ᐊᐅᓯᐃᑑᑉ ᐃᑎᕕᖓᑕ ᑕᓇᐅᖓᓂ; PRI: ᑰᓇᔫᑉ ᕿᑭᖅᑕᖓᑕ ᑲᖏᖅᑐᖓᓂ.*
PS: ᐲᐅᓪᓗᖑᓂᕋᖅᑕᐅᔫᑉ ᖃᓗᓈᑎᑦᑐᑦ ᑕᓇᐅᖓᓂ– Peel Sound–ᒥ. SS: ᐊᑯᑭᒃᑐᕐᒥᐅᑦ ᕿᑭᖅᑖᓗᒻᒥᐅᑦᓗ ᐊᑯᓐᓂᖓᓂ ᑕᓯᐅᔾᔪᐊᖅ. ᓄᓇᓖᑦ (ᕿᕐᓂᖅᑐᑦ):
1. ᐅᖅᓱᖅᑑᖅ; 2. ᑕᓗᕐᔪᐊᑦ; 3. ᑰᒐᕐᔪᒃ; 4. ᓇᐅᔾᑦ; 5. ᓴᓂᕋᔾᒃ; 6. ᐃᒡᓗᓕᒃ; 7. ᐃᖃᓗᐃᑦ; 8. ᐸᓐᓂᖅᑑᖅ; 9. ᕿᑭᖅᑕᕐᔪᐊᖅ; 10. ᑲᖏᖅᑐᒐᐱᒃ; 11. ᒥᕋᒪᑕᓕᒃ; 12. ᐃᒃᐱᐊᕐᔪᒃ; 13. ᖃᐅᓯᐃᑦᑐᖅ; 14. ᐊᐅᓯᐃᑦᑐᖅ; 15. ᖃᓈᖅ (ᐊᑯᑭᑦᑐᐃᓪᓗᖃᓚᓖᑦ ᓄᓇᖓᑦ). b.) ᐃᖏᒍᕐᒥᔪᖅ: ᑕᓯᐅᔾᖅ ᐃᓐᓈᒃ ᑲᖏᖅᓯᐊᔪᖓᓂ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᓂᖏᑦ (ᐊᕙᓗᔾᔪᐅᓯᒪᔪᒥ).

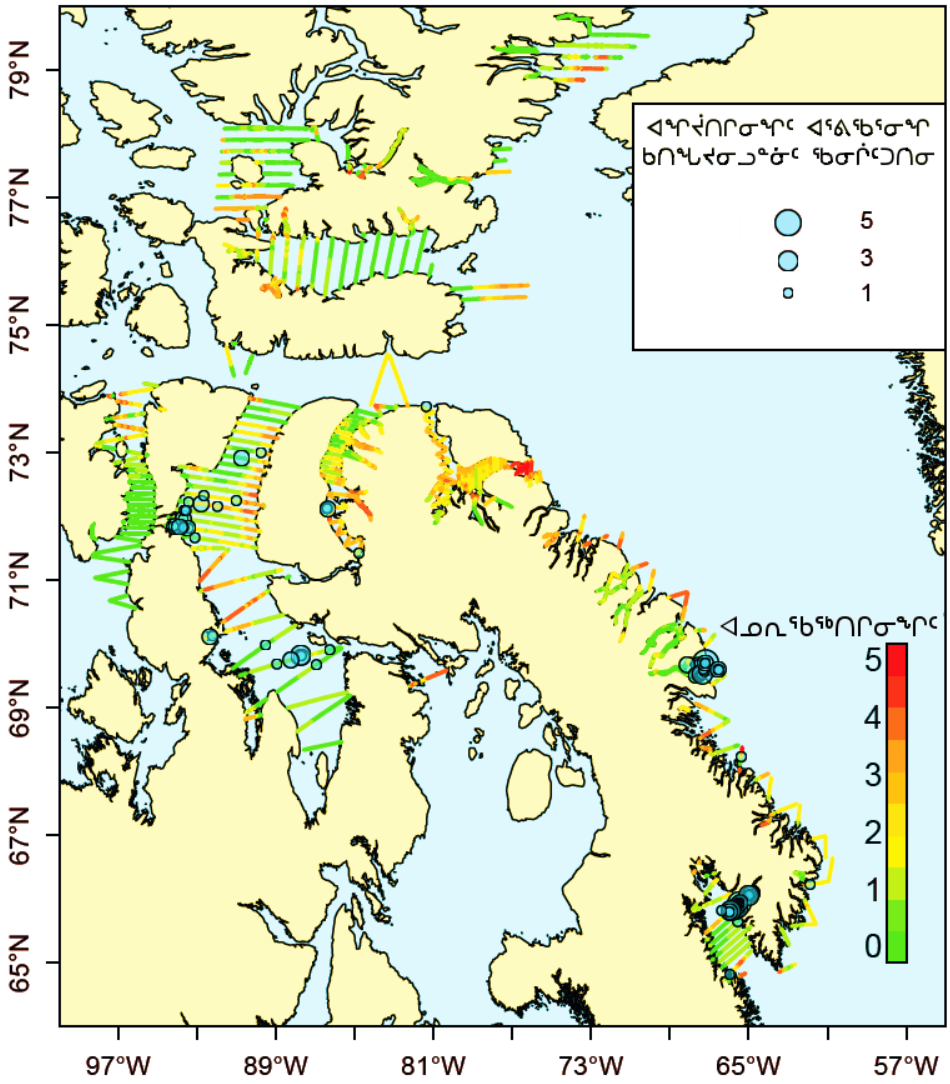
ᑕᐃᒪᓕ ᑕᒻᒪᖅᑕᖅᓯᒪᔪᓂᒃ ᐋᕿᒋᐊᖅᑕᐅᕐᓴᐅᑎᒋᔾᔪᑏᑦ ᓴᓇᔾᐅᓚᐅᕆᕗᑦ ᐱᔾᔪᑎᖃᓚᐅᕐᓂᖏᓐᓂ ᐊᕐᕕᑦ ᐊᖅᑲᐅᒪᓂᖏᓐᓂ, ᐳᐃᖏᑎᓪᓗᒋᑦ ᓱᓕ, ᖃᐅᔨᓴᖅᑕᐅᒋᐊᓕᖅᑎᓪᓗᒋᑦ, ᑕᑯᕐᓴᐅᔪᓐᓃᖅᓯᒪᓪᓗᑎᒃ ᓈᓴᐃᔨᓄᑦ ᑕᐅᑐᕐᓇᖅᑐᓄ, ᑕᐃᒃᑯᐊᓗ ᐊᑐᖅᑕᐅᕙᓚᐅᖅᑐᑦ ᐊᖅᑲᐅᒪᓂᖏᓐᓂ ᖃᐅᔨᒪᔾᔪᑎᕐᓴᓕᐊᓇᔾᐅᓚᐅᖅᑐᕕᓃᑦ ᑕᐃᔅᓱᒪᓂ ᐋᒐᓯ 2012–ᒥᒃ ᐊᒻᒪᓗ 2013–ᒥ, ᐱᔾᐅᓚᐅᖅᑐᑦ 22–ᖏᓃᑦᑐᓂᒃ ᐊᕐᕕᑦ ᖃᐅᔨᓴᖅᑕᐅᓂᖏᓐᓂ ᐃᓕᓯᕝᕕᐅᓯᒪᓗᑎᒃ ᖁᒻᒧᐊᑦᑎᑕᐅᓯᒪᔪᑎᒍᑦ ᒪᓕᒍᑎᓂᒃ ᐃᑎᔪᒦᖃᑕᕐᓂᖏᓐᓂᒃ ᐊᖅᑲᐅᒪᓂᖏᓐᓂ ᐊᑯᓂᐅᑎᒋᕙᓐᓂᖏᓐᓂ, ᖃᐅᔨᓴᖅᑕᐅᓚᐅᖅᑐᓂ ᐃᒡᓗᓕᒻᒥᓗ ᐸᓐᓂᖅᑑᕐᒥ, ᓄᓇᕗᒻᒥ. ᒪᓕᑦᑕᐅᓗᑎᒃ ᓇᓃᓐᓂᖏᑦ, ᐊᒻᒪᓗ*

ᖃᖓᐅᓕᕐᓂᖓᓂᒃ, ᐊᕐᕕᑦ ᖃᐅᔨᔭᐅᒍᓐᓇᖅᐸᓚᐅᖅᑐᑦ ᑕᐅᑐᕋᓈᖅᑕᐅᓪᓗᑎᒃ ᐃᒪᐃᓕᖓᑎᒋᔪᓂᒃ 17.6% ᐳᓴᓐᑎᖃᖅᑎᒋᔪᓂᒃ 29.1% ᐳᓴᓐᑎᖃᖅᑎᒋᔪᓄᑦ ᐱᕕᓴᖃᖅᑎᒋᑎᑕᐅᔪᓂ. ᑕᐃᒪᓕ ᑕᒻᒪᖅᑕᖅᓯᒪᔪᓂᒃ ᐋᖏᒋᐊᑕᐅᓴᐅᑎᒋᔾᔪᑏᑦ ᑐᖓᕕᖃᓚᐅᖅᑐᑦ ᑕᐃᒃᑯᓂᖓ ᐆᑦᑐᕋᐅᑎᓂᒃ ᐊᑐᖅᑕᐅᔪᓂᒃ ᒪᓕᒃᑐᓂᒃ ᑕᑯᓴᐅᓂᖏᓐᓂᒃ ᐳᐃᓯᒪᔪᓂᒃ ᐱᑕᖃᖅᑎᒋᓂᖏᓐᓂᒃ ᓇᓚᐅᑦᑖᕈᑕᐅᓂᕐᒧᑦ ᐊᑐᓂ ᖃᐅᔨᓴᕐᕕᐅᓂᖏᓐᓐᓂ (ᐊᕕᑦᑐᖅᓯᒪᔪᓂᒃ ᑕᑯᑎᑦᑎᒍᑎᑦ 2). ᓯᓚᓗᖃᑦᑕᓚᐅᕐᓂᖓᓄᑦ, ᐊᔪᕐᓇᖅᐸᓚᐅᖅᑐᖅ ᖃᐅᔨᓴᕐᕕᐅᒍᓐᓇᕐᓂᖏᑦ ᑕᒪᕐᒥᒃ ᖃᐅᔨᓴᕐᕕᓴᐅᑎᑕᐅᓚᐅᖅᑑᒐᓗᐊᑦ ᐸᕐᓇᐅᑎᖏᓐᓂ. ᑭᓯᐊᓂ, ᖃᐅᔨᓴᖅᑕᐅᔪᓂ ᐱᔭᕇᖅᑕᐅᒍᓐᓇᕐᓯᐊᓚᐅᖅᑐᑦ ᐱᒻᒪᕆᐅᓂᖏᑦ ᐊᕐᕕᓐᓄᑦ ᓇᔪᖅᑕᐅᕙᓐᓂᖏᑦ ᐃᒪᐃᑦ ᑕᐅᕙᓃᑦᑐᑦ ᓱᕐᓗ ᑰᒐᓇᔫᑉ ᑕᕆᐅᖓᓂ, ᐃᑭᕋᓴᐅᑉ ᐃᒪᖓᓂ ᑕᕆᐅᖓᓂ, ᓴᓐᓂᕈᑎᐅᑉ ᑐᓄᓂᕈᓯᐅᓪᓗ ᐃᒪᖓᓂ, ᑕᓯᐅᔭᖅ ᐃᓐᓈᓗᒃ ᑲᖏᖅᓯᐊᕐᔪᖓᓂ, ᓂᖏᖓᓂᕐᒥᒃ/ᐃᒐᓕᖅᑑᕐᒥ, ᐊᒻᒪᓗ ᑲᖏᖅᑐᐊᓗᐊᓂ/ᐅᐱᕐᖏᕕᖕᒥ (ᑕᑯᑎᑦᑎᒍᑦ 3). ᓯᕗᓪᓕᖅᐹᕆᔭᐅᓚᐅᖅᑐᖅ ᑕᒪᐃᓐᓂᑦᑎᐊᖅ ᑖᒃᑯᐊ ᖃᐅᔨᓴᖅᑐᐃᔪᐃᓐᓇᐅᒍᓐᓇᓚᐅᕐᓂᖏᑦ ᐊᑕᐅᓯᕐᒥᒃ ᐊᕐᕋᒍᒥ.

ᐊᕕᑦᑐᖅᓯᒪᔪᓂ ᑕᑯᑎᑦᑎᒍᑎ 2. ᐳᐃᓯᒪᓂᖏᓐᓂ ᐊᒻᒪᓗ ᐊᑐᖅᑕᐅᓪᓗᑎ ᑕᒻᒪᖅᓯᒪᒋᒃᑯᑕᐅᒋᐊᖅᑐᑦ ᐊᒥᓲᓂᖏᓐᓄᑦ ᓇᓚᐅᑦᑖᕈᑏᑦ ᐊᕐᕕᕐᓂᒃ ᐊᑐᓂ ᖃᐅᔨᓴᕐᕕᐅᓚᐅᖅᓯᒪᔪᓂ 2013–ᒥ ᖁᑦᑎᑦᑐᒥ ᐅᑭᐅᖅᑕᖅᑐᒥ ᓴᖅᐱᓕᓐᓂᒃ ᑕᕆᐅᕐᒥ ᖃᐅᔨᓴᖅᑕᐅᔪᓂᒃ. ᐱᑕᖃᕐᓂᖏᓂᒃ ᑕᒻᒪᖅᓯᒪᒍᓐᓇᕐᓂᖏᑦ ᑐᖓᕕᖃᖅᐳᑦ ᐊᑯᓂᐅᑎᒋᕙᓚᐅᕐᓂᖏᑦ ᐊᕐᕕᑦ ᐳᐃᓯᒪᕙᓚᐅᕐᓂᖏᓐᓂᒃ 22–ᖑᓚᐅᖅᑐᓂ ᐊᕐᕕᑦ ᐃᓕᓯᕙᕕᐅᓯᒪᓚᐅᖅᑐᑦ ᒪᓕᒍᑎᓂ ᖁᒻᒧᐊᑦᑎᑕᐅᓯᒪᔪᑎᒍᑦ, ᐊᒻᒪᓗ ᓇᔪᖅᐸᑦᑐᑦ ᑕᐃᒃᑯᓂᖓᐃᓐᓇᖅ ᐊᕕᑦᑐᖅᓯᒪᓂᖏᓐᓂ ᓇᔪᒐᑦᑐᖃᓇᕙᑦᑕᖏᓐᓂᒃ ᐊᒻᒪᓗ ᖃᖓᐅᓕᖅᑎᓪᓗᒍ ᑕᕿᓇᔭᐅᔪᒥ (ᐱᒋᐊᓕᔅᓂᖏᓐᓂ ᓴᓂᐊᓂ ᕿᑎᖅᐸᓯᐊᓂ ᐋᒐᓯᐅᑉ 2013-ᒥ).

ᖃᐅᔨᓴᕐᕕᐅᓯᒪᓂᖏᑦ	ᐳᐃᓂᖏᓐᓂ ᑕᑯᔭᐅᓂᖏᑦ	ᐱᑕᖃᕐᓂᖏᓐᓂ ᐋᖏᒋᐊᖅᑕᐅᓯᒪᓂᖏᑦ	ᐱᑕᖃᕐᓂᖏᑦ (ᐋᖏᖅᓯᒪᓕᖅᑐᑦ)	ᐊᔾᔨᒌᓐᓂᖃᕐᓂᖏᑦ
ᓴᓐᓂᕈᑎᐅᑉ ᑐᓄᓂᕈᓯᐅᓪᓗ ᐃᒪᖓ	21	3.98	82	0.97
ᑲᖏᖅᑐᐊᓗᐊᓂ/ᐅᐱᕐᖏᕕᖕᒥ	475	5.68	2,696	0.45
ᑲᓇᓐᓇᖓᓂ ᕿᑭᖅᑖᔫᑉ ᐃᒪᖏᓐᓂ (ᑲᖏᖅᑐᖏᓐᓂ)	284	4.12	1,170	0.72
ᑲᓇᓐᓇᖓᓂ ᕿᑭᖅᑖᔫᑉ ᑕᕆᐅᕋᓗᐊᓂ	231	3.98	920	0.72
ᑕᓯᐅᔭᐅᑉ ᐃᓐᓈᔫᑉ ᑲᖏᖅᓯᐊᕐᔪᖓ	8	3.98	32	0.74
ᐃᑭᕋᓴᐅᑉ ᐃᒪᖓ/ᑕᕆᐅᖓ	192	3.44	660	0.56
ᑰᒐᓇᔫᑉ ᑕᕆᐅᖓ	219	4.05	886	0.36
ᑕᒪᕐᒥᒃ ᖁᑑᓂᑦᑐᑦ ᑲᑎᑦᓗᒋᑦ	**1,429**		**6,446**	**0.26**

ᑕᒻᒪᖅᑕᖅᓯᒪᔪᓂᒃ ᐋᖏᒋᐊᖅᑕᐅᓴᐅᑎᒋᔾᔪᑏᑦ ᐊᑐᖅᑕᐅᕙᑦᑐᑦ ᐊᖅᑲᐅᒪᓂᖏᓐᓂ ᐊᕐᕕᑦ ᑕᑯᓴᐅᒐᑎᒃ ᓴᕿᑎᑦᑎᓗᑕᐅᓚᐅᖅᑐᑦ ᐋᖏᒋᐊᖅᑕᐅᓯᒪᓕᖅᑐᓂᒃ ᐱᑕᖃᕐᓂᖏᓐᓂᒃ ᓇᓚᐅᑦᑖᖅᑕᐅᓯᒪᔪᓕᕐᓂᖏᓐᓂ 6,446 ᐊᕐᕕᑦ (95% ᐳᓴᓐᑎᖏᓃᑦᑐᑦ ᓱᓕᔪᕆᔭᐅᑎᒋᔪᓐᓇᕐᓂᖏ Confidence Interval, CI= 3,722 – 11,200). ᑖᒃᑯᐊ ᐊᒥᓱᑎᒋᓂᖏᑦ ᓈᒻᒪᖏᑦᑐᓂᒃ ᐃᓚᖃᖅᑐᑦᓴᐅᔪᑦ ᑕᒪᒃᑭᖅᑕᐅᓯᒪᖏᓂᖏᓐᓄᑦ ᖃᐅᔨᓴᕐᕕᐅᔪᐃᓐᓇᐅᒍᒪᓚᐅᕐᓂᖏᑦ, ᐱᓗᐊᖅᑐᒥᒃ ᑕᐅᕙᓂ ᓴᓂᕋᔭᐅᑉ ᓯᑯᓯᓚᐅᑉ ᑕᕆᐅᖓᓂ, ᑕᓪᓗᕈᑎᐅᑉ ᐃᒪᖓᓂ, ᐊᒻᒪᓗ ᐅᐊᓐᓇᖓᓂ ᐊᑦᑎᓇᖅᑕᐅᓯᒪᔪᔾᔭᖅᐳᑦ ᐊᔾᔨᒋᓐᓂᖃᕐᓂᖏᑦ 26% ᐳᓴᓐᑎᓂᒃ. ᐱᑕᖃᖅᑎᒋᓂᖏᑦ ᐊᑐᓂ ᖃᐅᔨᓴᕐᕕᐅᓯᒪᔪᓂ ᑕᑯᔭᒃᓴᐅᔪᑦ ᐊᕐᕕᑦᑐᖅᓯᒪᔪᓂᒃ ᑕᑯᑎᑦᑎᒍᑎᓂ 2-ᒥ.



ᑕᑯᑎᑦᑎᒍᑎ 3. ᐊᔾᔨᐅᖏᑦᑐᒻᒪᕆᑦ ᑕᑯᔭᕐᕕᐅᕙᓚᐅᖅᑐᑦ ᐊᕐᕕᕐᓂ ᑕᐃᑦᓯᒪᓂ 2013–ᖑᑎᑦᓗᒍ ᖁᑦᑎᑦᑐᕐᒥᐅᑦ ᐅᑭᐅᖅᑕᖅᑐᒥ ᐃᒪᖁᑎᖏᓐᓂᒃ ᓴᖅᐱᓕᓐᓂᒃ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᔪᑦ (ᑐᖑᔪᖅᑐᓂ ᐊᒻᒪᓗᖅᑐᓖᑦ). ᑐᑭᒧᐊᑦᑐᑦ ᑎᑎᕋᖅᑕᐅᓯᒪᔪᑦ ᑕᑯᕐᓴᐅᑎᑦᑎᔪᑦ ᐊᕕᑦᑐᖅᓯᒪᓂᖏᓐᓂᒃ ᑕᖅᓴᖃᖅᑐᓂ, ᐊᓄᓇᖃᖅᑎᒋᕙᓚᐅᕐᓂᖏᓐᓂ ᑎᑎᕋᖅᑕᐅᓯᒪᓂᖏᓐᓂ.

ᐊᐅᖏᔭᕐᕕᐅᕙᓐᓂᖏᓐᓂᒃ ᐊᖑᔭᐅᓯᒪᓂᖏᓐᓂ–ᓇᓗᓇᐃᒃᑯᑦᑎᖅᑕᐅᓪᓗᑎᒃ–ᐊᒻᒪᓗ ᑭᖑᓂᐊᒍᑦ ᐊᖑᔭᐅᒃᑲᓐᓂᖅᐸᑦᓯᑎᒃ

ᑲᓇᑕᐅᑉ ᑲᓇᓐᓇᖅᐸᓯᐊᓂ–ᐊᑯᑭᑦᑐᐃᓪᓗ ᐱᖓᓐᓇᖓᓂ ᐊᕐᕕᑦ ᓇᓚᐅᑖᖅᑕᐅᓚᐅᕐᒥᔪᑦ ᐊᒥᓲᓂᖏᑦ ᐊᑐᖅᓱᑎᒃ ᐊᐅᖏᔭᕐᕕᐅᕙᓐᓂᖏᓐᓂᒃ ᐊᖑᔭᐅᔭᐅᓯᒪᓂᖏᓐᓂ–ᓇᓗᓇᐃᒃᑯᑦᑎᖅᑕᐅᓪᓗᑎᒃ–ᑭᐅᓂᐊᒍᓪᓗ ᐊᖑᔭᐅᒃᑲᓐᓂᖅᐸᑦᓯᑎᒃ ᐱᐅᓯᕆᔭᐅᓚᐅᖅᑐᑦ. ᑕᒪᕐᒥᒃ ᑲᑎᓪᓗᒋᑦ 1,177–ᖑᓚᐅᖅᑐᑦ ᐊᐅᖏᖅᓯᕕᐅᓚᐅᖅᑐᑦ, ᑲᑎᖅᓱᖅᑕᐅᓯᒪᓂᒃ 9–ᓂᒃ ᐊᕕᖃᕕᐅᔪᓂ, ᖃᐅᔨᓴᖅᑕᐅᓪᓗᑎᓪᓗ. ᒪᕐᑑᖕᓂᒃ ᖃᐅᔨᓴᐅᑎᖃᓚᐅᖅᑐᑦ; ᐊᐃᑉᐸᒍᑦ ᑕᒪᕐᒥᒃ ᖃᐅᔨᒪᔾᔪᑎᑦᓴᐃᑦ ᐊᑕᐅᓯᐅᑎᑕᐅᓪᓗᑎᒃ ᐊᖑᔭᐅᕙᓐᓂᖏᓐᓂᒃ–ᓇᓗᓇᐃᒃᑯᑦᑎᖅᑕᐅᕙᑦᑐᓂᒃ–ᐊᖑᔭᐅᒃᑲᓐᓂᖅᑕᖅᑕᖅᓯᑎᒃ ᖃᐅᔨᔭᐅᓯᒪᓂᖏᓐᓂᒃ, ᐊᒻᒪᓗ ᐊᐃᑉᐸᖓᓐᓂ ᐊᑐᖅᑕᐅᓗᑎᒃ ᓇᑭᖓᕐᓯᒪᓂᖏᓐᓂᒃ ᐱᑕᖃᓚᐅᕐᓂᖏᑦ ᐊᕐᕕᑦ ᖃᐅᔨᓴᕐᕕᐅᓯᒪᖏᓐᓂᖏᓐᓂ. ᒪᕐᑭᓐᓂᒃ ᖃᐅᔨᒪᔾᔪᑎᑦᓴᓕᐊᓇᔭᐅᓯᒪᔪᑦ ᖃᐅᔨᓴᖅᑕᐅᓚᐅᖅᑐᑦ ᑕᒪᒃᑭᓐᓂᒃ ᐱᐅᓯᓇᔭᐅᓚᐅᖅᑑᓐᓂᒃ; ᐊᐃᑉᐸᖓᓂ ᐱᖃᓯᐅᔾᔨᓯᒪᓚᐅᖅᑐᑦ ᑕᒪᐃᓐᓂᒃ ᐃᓗᓐᓇᖏᓐᓂᒃ ᖃᐅᔨᓴᕐᕕᐅᓯᒪᔪᓂ (19–ᓂ ᐊᕐᕌᒍᓕᖅᑐᓂ, 1,177–ᓂᓗ ᐊᐅᖏᔭᕐᕕᐅᓯᒪᔪᓂᒃ ᖃᐅᔨᓴᒐᕐᓴᓕᐊᖑᓚᐅᖅᑐᓂᒃ); ᐊᐃᑉᐸᖓᓂ ᑕᓪᓕᒪᓂ 5 ᐊᕐᕋᖑᓂᒃ ᖃᐅᔨᒪᔾᔪᑎᑦᓴᓕᐊᓇᔭᐅᓯᒪᓚᖅᑐᓂᒃ (882–ᖏᑦᑐᓂᒃ ᐊᐅᖏᖅᓯᕕᐅᓯᒪᔪᓂ ᖃᐅᔨᓴᒐᕐᓴᓕᓐᓂ.

ᑕᒪᕐᒥᒃ ᓇᓚᐅᑦᑖᕈᑕᐅᓂᖏᑦ ᑕᓪᓕᒪᓂᒃ ᐊᕐᕋᒍᓂ ᓄᐊᑕᐅᓯᒪᔪᐃᑦ/ᑲᑎᖅᓱᖅᑕᐅᓯᒪᔪᐃᑦ ᒥᑭᔫᑎᐅᓂᖅᓴᐅᓚᐅᖅᑐᑦ ᑕᐃᒃᑯᓇᖓᑦ 19–ᓄᑦ ᐊᕐᕋᒍᓕᖅᑐᓄᑦ ᓄᐊᑕᐅᓯᒪᔪᓂᒃ ᑲᑎᖅᓱᖅᑕᐅᓯᒪᓚᖅᑐᓂᒃ ᖃᐅᔨᒪᔾᔪᑎᑦᓴᓂᒃ, ᒪᓕᑦᑎᐊᕐᓂᖅᓴᐅᓂᐊᖅᑐᔾᔭᖅᑐᓂᓪᓗ ᐊᒥᓱᑎᒋᓂᖏᓂᑦ ᐊᕕᑦ ᐊᒥᓱᕈᓇᐊᖅᓯᒪᓚᐅᖅᑐᓂᒃ ᑕᐃᒃᑲᓇᓂ ᖃᐅᔨᓴᕐᕕᐅᕙᓐᓂᖏᓐᓂ. ᐱᐅᓂᖅᐹᓂᒃ ᓇᓚᐅᑦᑖᕈᑎᑦ ᐱᑕᖃᕐᓂᖏᓐᓂᒃ, ᑐᖓᕕᖃᖅᓯᑎᒃ

ᑕᓪᓕᒪᓂᒃ 5 ᐊᕐᕋᖑᓂᒃ ᓄᐊᑕᐅᓯᒪᓕᖅᑐᓂᒃ ᑲᑎᖅᓱᖅᑕᐅᓯᒪᓂᖏᓐᓂ ᖃᐅᔨᒪᔪᑏᑦ, 7,660–ᖏᓐᓂᓚᐅᖅᑐᑦ ᐊᑕᐅᓯᐅᓈᖅᑎᖅᑕᐅᓪᓗᑎᒃ (95% ᐳᓴᓐᑎᓂᒃ ᐊᒥᓲᑎᒋᓗᑎᒃ ᐊᔾᔨᒍᓐᓂᕈᑕᐅᒍᓐᓇᖅᑐᑦ ᐃᓚᒋᔭᐅᓗᑎᒃ 4,500-11,100).

ᐊᒥᐊᒃᑯᓯᒪᐃᓐᓇᑦᑎᐊᕈᓐᓇᕐᓗᑎᒃ ᐊᕐᕙᓂᐊᖅᑕᐅᒍᓐᓇᕋᔭᕐᓂᖏᑦ

ᖃᐅᔨᒪᔭᐅᖏᓗᐊᕐᓂᖏᓐᓂ ᐊᕐᕕᒃᑕᖃᕐᓂᖏᓐᓂᒃ, ᐊᒥᓱᖏᑎᓗᒋᑦ ᐱᑕᖃᖅᑎᒋᓂᖏᓐᓄᑦ ᓇᓚᐅᑖᕈᑏᑦ, ᐆᒪᔪᐃᑦ ᐃᓚᓐᖓᐃᕕᐅᔪᓐᓇᕐᓂᖏᓄᑦ ᓈᓴᐅᓯᓇᔾᔪᑏᑦ ᐊᒥᐊᒃᑯᓯᒪᒋᐊᒻᒪᓇᒃᓯᑎᒃ ᓇᓚᐅᑖᕈᑕᐅᓯᒪᔪᑦ ᐊᒥᐊᒃᑯᖃᐃᓐᓇᕐᓂᐊᖅᑐᓂᒃ ᐃᓚᐃᖓᐃᕕᐅᒍᓐᓇᖅᑎᑕᐅᓂᕐᒧᑦ ᐋᕿᐅᒪᔪᓐᓇᖅᑐᓂᒃ. ᑕᐃᒃᑯᐊ ᐃᓚᖓᐃᕕᐅᒍᓐᓇᕐᓂᖏᑦ ᐊᕐᕕᑦ ᐃᒫᐃᓕᖓᔪᓂᒃ ᓈᓴᐅᓯᓇᔭᐅᓯᒪᕗᑦ:

$$PBR\ \text{ᐃᓚᖓᐃ ᕕᐅᓯᒪᓂᖏᑦ} = N_{\text{ᐊᒥᓱᖏᓐᓂᖅᐸᖑᓂᖏᑦ}} \times \frac{1}{2} R_{\text{ᐊᒥᓲᓂᖅᐸᖑᓂᖏᒃ}} \times F_r\ \text{ᐊᒥᓱᕈᖅᐸᓪᓕᓂᖏᑦ}$$

ᐃᒪᐃᓕᖓᑉᐸᑕ $N_{\text{ᐊᒥᓱᖏᓐᓂᖅᐸᖑᓂᖏᑦ}}$ ᐋᕿᒪᐅᔭᐅᕗᖅ 20–ᒋᔭᐅᔪᓂᒃ ᐳᓴᓐᑎᒋᔭᐅᓂᖓᑦ ᓇᓗᓇᖏᓂᖏᓐᓄᑦ ᐊᒥᓲᓂᖏᓐᓂᒃ ᓇᓚᐅᑖᕈᑎᖏᑦ, $R_{\text{ᐊᒥᓲᓂᖅᐸᖑᓂᖏᒃ}}$ ᓂᕆᐅᖏᔭᐅᕗᑦ ᐊᒥᓲᓂᖅᐸᖑᓇᔭᕐᓂᖏᓐᓂᒃ ᐱᕝᕕᐅᔪᓐᓇᖃᑦᑕᕋᔭᕐᓂᖏᓄᑦ (4% ᐳᓴᓐᑎᖏᓐᓂᑦᑐᓂᒃ ᐊᕐᕋᒍᑕᒫᖅ ᓴᖅᐱᓖᑦ) ᐊᒻᒪᓗ F_R ᐊᒥᓱᕈᖅᐸᓪᓕᐊᑎᒋᓂᖏᑦ ᐱᔾᔪᑎᖃᖅᓱᑎᒃ ᐊᒥᓱᕈᖅᐸᓪᓕᐊᓂᖏᓐᓂᒃ ᓈᓴᐃᔾᔪᑕᐅᓪᓗᑎᒃ ᖃᐅᔨᒪᔭᐅᖏᓐᓂᖏᓐᓂᒃ ᐅᕝᕙᓗᓐᓃᑦ ᓇᓚᐅᑦᑖᖅᑕᐅᒍᓐᓇᕐᓂᖏᓄᑦ ᐊᑲᐅᖏᓕᐅᕈᑎᖃᕐᓂᖏᓐᓂᒃ. F_R ᐊᒥᓱᕈᖅᐸᓪᓕᐊᑎᓂᖏᑦ ᐋᕿᐅᒪᔭᐅᕗᑦ ᐃᒫᒃ ≤ ᐊᒥᓲᖏᓐᓂᖅᓴᐅᓂᕋᐃᔪᓂ ᓇᓕᒧᑏᔭᐅᓂᕋᐃᔪᓂᓗᓐᓃᑦ 1.0–ᒥᒃ ᑐᖓᕕᖃᖅᓱᑎᒃ ᖃᓄᑎᒋ ᓇᓗᓇᕐᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᖃᓄᓕᖓᓂᖏᓐᓂᒃ ᐊᕐᕕᑦ.

ᓯᕗᓂᐊᒍᑦ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᔪᓂ ᐅᖃᐅᔾᔨᒋᐊᖅᑕᐅᓯᒪᔪᓂ, ᐃᖃᓗᓕᕆᔨᔪᐊᒃᑯᑦ ᐅᔾᔨᖅᑐᑦᑎᐊᖃᑦᑕᕐᑯᔨᓯᒪᔪᑦ ᐃᒫᒃ, ᑕᐃᒃᑯᐊ ᐊᒥᓲᓂᖏᓐᓄᑦ ᓇᓗᓇᕐᓂᖏᑦ ᒫᓐᓇᐅᔪᖅ ᑕᐃᔅᓱᒪᓂᓂᑕᕐᓂᖅᓴᐅᓂᕐᒧᑦ ᐃᓱᒪᒋᔭᐅᔭᕆᐊᓖᑦ ᐊᐅᓚᑕᐅᓂᖏᓐᓄᑦ ᑖᒃᑯᐊ ᐊᕐᕕᑦ, ᑎᑭᓪᓗᒍ ᑭᓯᐊᓂ ᓴᕿᔭᑦᑎᐊᓕᖅᐸᑦ ᐊᒥᓲᓂᖅᓴᐅᓕᖅᑐᓂᒃ ᐊᒥᓱᕈᖅᐸᓪᓕᐊᓂᕐᒧᑦ ᓈᓴᐅᑦᑎᖅᑕᐅᒍᓐᓇᖅᓯᒍᑎᒃ ᖁᑦᑎᓂᖅᓴᓂᒃ. ᒫᓐᓇᐅᓕᖅᑐᖅ, ᓴᕿᑉᐸᓪᓕᐊᑐᐃᓐᓇᖅᑐᑦ ᐊᔪᕐᓇᕈᓐᓃᕈᑕᐅᓂᐊᖅᑐᑦ ᐊᑐᕈᓐᓇᖅ ᖁᕙᓯᓐᓂᖅᓴᓂ ᓈᓴᐅᑎᓂᒃ ᐊᒥᓱᕈᖅᐸᓪᓕᐊᑎᒋᓂᖏᓐᓂᒃ ᐃᓚᖓᐃᕕᐅᒍᓐᓇᕐᓂᖏᓄᑦ ᑲᓇᑕᐅᑉ ᑲᓇᓐᓇᖓᓂ–ᐊᑯᑭᑦᑐᐃᓪᓗ ᐱᖓᓐᓇᖓᓂ ᐊᕐᕕᑦ ᐱᑕᖃᕐᓂᖏᓐᓂ. ᐃᓱᒪᒋᓪᓗᒋ ᖃᐅᔨᒪᓕᖅᑕᕗᑦ ᒫᓐᓇᐅᔪᖅ ᐊᒥᓲᓂᖏᓐᓂᒃ ᑐᖓᕕᖃᑐᐃᓐᓇᕐᒪᑕ ᐊᒥᓱᖏᑦᑐᓂᒃ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᔪᓂᒃ, ᐊᑯᐅᑎᒋᔪᒥᒃ 34-ᓂᒃ ᐊᕐᕋᖑᓂᒃ, ᐊᒻᒪᓗ ᓇᓗᓇᕐᓂᖏᓐᓄᑦ ᖃᓄᐃᓕᖓᑦᓚᓇᓐᓂᖏᑦ ᑲᓇᑕᐅᑉ ᑲᓇᓐᓇᖓᓂ–ᐊᑯᑭᑦᑐᐃᓪᓗ ᐱᖓᓐᓇᖓᓂ ᐊᕐᕕᒃᑕᖃᖅᐸᓚᐅᕐᓂᖏᓐᓂᒃ ᓯᕗᓂᐊᒍᑦ ᑮᓇᐅᔭᓕᐅᕈᑕᐅᓂᕐᒧᑦ ᐊᕐᕙᓂᐊᖅᑕᐅᕙᓚᐅᕐᓂᖏᓐᓂᖏᓐᓂ ᓱᓕ, ᐊᑐᓕᖅᑐᒍᑦ ᐊᖏᓂᖅᑲᖅᑎᒋᔪᒥᒃ 0.5–ᓂᒃ ᐃᓚᖓᐃᕕᐅᒍᓐᓇᕐᓂᖏᓐᓄᑦ ᓈᓴᐃᓂᕐᒧᑦ.

ᐊᑐᖅᑕᐅᓂᖏᓐᓂ 2013–ᒥ ᖃᖓᑕᔫᒃᑯᑦ ᖃᐅᔨᓴᖅᑕᐅᓚᐅᖅᓯᒪᔪᑦ ᓇᓚᐅᑖᖅᑕᐅᓂᖏᓐᓄᑦ ᐊᒻᒪᓗ ᐊᒥᓱᕈᖅᐸᓪᓕᐊᔪᓐᓇᕐᓂᖏᓐᓄᑦ ᐊᑐᖅᓱᑎᒃ 0.5–ᒥᒃ, ᓇᓚᐅᑖᖅᓱᒪᓕᖅᑐᒍᑦ ᐊᕐᕕᑦ ᐊᒥᓲᓂᖏᑦ ᐃᓄᓐᓄᑦ ᐱᕝᕕᐅᒍᓐᓇᖅᑐᑦ ᐊᒥᓲᓂᖅᐸᖑᒍᓐᓇᖅᑐᓂᒃ 52–ᓂᒃ ᐊᕐᕕᕐᓂᒃ ᐊᕐᕋᒍᑕᒫᖅ, ᑕᐃᒪᐃᓕᖓᓕᕐᓗᑎᒃ ᑕᒪᕐᒥᑎᐊᖅ ᐃᓚᒋᔭᐅᓗᑎᒃ ᑐᕐᑯᔾᔪᑕᐅᖃᑦᑕᕐᒥᔪᑦ ᐊᓯᖏᑦ (ᓱᕐᓗ ᐆᒃᑑᑎᒋᓗᒋᑦ ᐊᕐᕙᓂᐊᖅᑕᐅᓂᖏᑦ ᐃᓄᖕᓄᑦ, ᐊᓐᓇᐃᔭᐃᖃᑦᑕᕐᓂᖏᑦ ᐊᒻᒪᓗ ᔭᒐᐃᔭᐅᓕᖃᑦᑕᕐᓂᖏᑦ, ᓄᓕᐊᖅᑕᐅᖃᓯᐅᔭᔭᐅᕙᓂᖏᑦ, ᐅᒥᐊᔪᐊᕐᓄᑦ ᐊᐳᖅᑕᐅᓚᕿᕙᓐᓂᖏᓪᓗ).

ᓇᑭᖓᕐᓂᖏᑦ ᓇᓗᓇᕈᑕᐅᔪᑦ

ᖃᐅᔨᓴᒋᐊᓚᐅᕋᓗᐊᖅᑐᒍᑦ ᑕᒪᐃᓐᓂᑦᑎᐊᖅ ᐱᑕᖃᖅᐸᓪᓕᐅᓂᒃ ᑲᓇᑕᐅᑉ ᑲᓇᓐᓇᖓᓂ–ᐊᑯᑭᑦᑐᐃᓪᓗ ᐱᖓᓇᖓᓂ ᐊᐅᔭᒃᑯᑦ, ᒪᓕᒃᑕᐅᓪᓗᑎᒃ ᐃᓄᐃᑦ ᖃᐅᔨᒪᔭᑐᖃᖏᑦ ᐊᒻᒪᓗ ᐅᖓᓯᑦᑐᒥᒃ ᖃᐅᒪᔾᔪᑏᑦ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᓂᖏᓐᓂᒃ. ᐱᒪᓇᐅᓂᐊᖅᑑᖅᑐᖅ ᐱᐅᖏᑦᑐᒥᒃ ᓈᒻᒪᖏᓐᓂᖅᑲᓐᓇᕐᓂᖏᑦ ᖃᖓᑕᔫᒃᑯᑦ ᖃᐅᔨᓴᖅᑕᐅᓚᐅᕐᓂᖏᓐᓂᒃ ᓇᓚᐅᑖᕈᑎᑦ ᑕᐃᒪᐃᓂᐊᓇᐊᖏᑦ ᖃᖓᑕᔫᒃᑯᑦ ᖃᐅᔨᓴᖅᑕᐅᓚᐅᕐᓂᖏᓐᓂᒃ ᓇᓚᐅᑖᕈᑎᑦ ᑕᐃᒪᐃᓂᐊᓇᐊᖏᑦ ᖃᐅᔨᓴᕐᕕᐅᒍᓐᓇᖅᓯᓚᐅᖏᓐᓂᖏᓐᓂᑦ ᐅᐊᓐᓇᖓ ᓴᓂᕋᔭᐅᑉ ᓯᑯᓯᓚᕐᒥ, ᐊᐅᒃᑲᓐᓂᕐᔪᐊᕐᒥᓗ ᐊᕐᕕᑦ (ᐃᓱᒪᒋᔭᐅᓯᒪᒻᒪᑕ ᐱᒻᒪᓇᐅᓂᖅ ᐊᐅᔭᓕᕝᕕᐅᕙᓐᓂᖅ ᐃᒪᖏᑦ ᐋᒐᓯᐅᓕᕋᐃᒻᒪᑦ) ᐊᒻᒪᓗ ᐱᖏᓐᓂᖅᓴᐅᓕᓗᑎᒃ ᑕᐃᒃᑯᐊᑦᑕᐅᖅ ᐃᒪᖏᑦ ᓇᐅᔭᓂ, ᑕᓪᓗᕈᑎᐅᓪᓗ ᐃᑭᕋᓴᖓᓂ. ᖃᐅᔨᒪᔾᔪᑏᑦ ᐊᑕᐅᓯᒃᑯᓚᐅᖅᑐᑦ ᖁᒻᒧᐊᑦᑎᑕᐅᓯᒪᔪᑎᒍᑦ ᒪᓕᒍᑎᑎᒍᑦ 11–ᖑᓚᐅᖅᑐᑦ ᐃᖏᒥᖅᑐᑦ ᐃᓱᒪᓇᕐᒪᑕ ᑕᒪᕐᒥᑲᓴᐃᑦ ᐊᕐᕕᑦ ᐃᓗᐊᓃᓚᐅᕐᓂᖏᓐᓂ ᖃᐅᔨᓴᕐᕕᐅᓯᒪᓚᐅᖅᑐᓂ ᐋᒐᓯ 2013–ᖑᑎᓪᓗᒍ (ᐱᓗᐊᖅᑐᒥᒃ ᑕᐃᒃᑯᓇᓂ ᐃᑭᕋᓴᐅᑉ ᐃᒪᖓᓂ ᑕᓇᐅᖓᓂ ᐊᒻᒪᓗ ᑕᐅᕙᓂ ᑲᖏᖅᑐᐊᓗᐊᓂ/ᐅᐱᕐᖏᕕᖕᒥ, ᐊᒻᒪᓗ ᐃᓚᐃᓐᓇᑯᓗᒐᓗᐊᖏᑦ ᐊᒥᓱᖏᑦᑑᒐᓗᐊᑦ ᐱᑕᖃᖅᐸᓐᓂᖏᓐᓂᑕᐅᖅ ᐅᐊᓐᓇᖓᓂ ᓴᓂᕋᔭᐅᑉ ᓯᑯᓯᓚᕐᒥ, ᐊᐅᒃᑲᓐᓂᕐᔪᐊᕐᒥᓗ ᐊᕐᕕᑦ.

ᐊᓯᖓᓂᒃᑕᐅᖅ ᐊᔾᔨᒋᖏᔾᔪᑎᖃᕈᓐᓇᕆᕗᑦ ᓇᓚᐅᑖᖅᓯᒪᔭᑎᓐᓂ ᑕᐃᒃᑯᓇᖓᑦ ᑕᒻᒪᖅᑕᖅᓯᒪᔪᓂᒃ ᐋᕿᒋᐊᖅᑕᐅᕐᓴᐅᑎᒋᔾᔪᑏᑦ ᐊᑐᖅᑕᐅᕙᓐᓂᖏᓐᓂᒃ. ᐊᑐᖅᓯᒪᒐᑦᑕ ᓄᑖᕈᓇᐊᖅᑕᐅᓯᒪᔪᓂᒃ ᖃᐅᔨᒪᔾᔪᑎᕐᓴᓂᒃ ᐊᖅᑲᖅᓯᒪᑎᒋᕙᓐᓂᖏᓐᓂᒃ ᐊᕐᕕᑦ ᖃᐅᒪᔭᐅᔾᔪᑎᖏᓐᓂᒃ ᐆᑦᑐᕋᑕᐅᓪᓗᑎᒃ ᖃᐅᔨᓴᕐᕕᐅᓯᒪᔪᓂ, ᐊᒻᒪᓗ ᑕᐃᔅᓱᒪᓂᐅᓚᐅᖅᑐᓂᒃ ᖃᐅᔨᓴᕐᕕᐅᖃᑦᑕᓚᐅᖅᓯᒪᔪᓂᒃ ᐊᑐᖅᓱᑎᒃ 2013–ᒥ ᖃᐅᔨᓴᕐᕕᐅᓚᐅᖅᓯᒪᔪᓂᒃ. ᑕᒪᓐᓇ ᐊᖏᒡᓕᒋᐊᕈᑕᐅᓯᒪᒻᒪᑦ ᑐᖓᕕᐅᒍᓐᓇᕐᓂᖏᓐᓄᑦ ᖃᐅᔨᒪᑦᑎᐊᕐᓂᖅᓴᐅᒍᓐᓇᕐᓂᖅ ᓇᓚᐅᑖᖅᑕᐅᓂᖏᓐᓄᑦ ᖃᖓᓐᓂᕋᐃᒻᒪᑦ ᐊᕐᕕᑦ ᑕᑯᑦᑕᐅᒍᓐᓇᖅᓯᓕᓴᓲᖓᒋᐊᖏᓐᓂᒃ ᑕᐅᑐᑦᑐᓐᓄᑦ ᐃᓄᖕᓄᑦ. ᑭᓯᐊᓂᓕᑕᐅᖅ, ᖃᐅᔨᓴᖅᑕᐅᖃᑦᑕᖅᓯᒪᔪᓂᒃ ᓴᕿᑎᑦᑎᓯᒪᔪᖅᖃᕐᓚᖅ ᓱᓕ ᐃᓱᒪᓇᕈᑕᐅᒍᓐᓇᖅᑐᓂᒃ ᖃᓄᖅ ᐃᑎᔪᒥᑎᒋᓂᖏᓐᓂᒃ ᖃᐅᔨᓴᐅᒍᓐᓇᓲᖓᒻᒪᖓᑕ ᑕᑯᔭᐅᒍᓐᓇᖅᓲᖑᓪᓗᑎᒃ ᖃᖓᑕᓲᕐᒥᑦᑐᓐᓄᑦ. ᑕᒪᓐᓇ ᐊᔪᕐᓇᕈᑕᐅᕙᑦᑐᖅ ᑐᑭᓇᐊᕈᑕᐅᑦᑎᐊᕈᓐᓇᕐᓂᖅ ᖃᓄᐃᑦᑐᓂᒃ ᐃᑎᓂᖃᖅᑎᒋᔪᓂᒃ

ᖃᐅᔨᓴᕐᕕᖃᕈᓐᓇᕐᒪᖔᑕ ᓇᓚᐅᑦᑕᐅᓚᖓᑎᓪᓗᒋ10 ᑕᐃᒃᑯᐊ ᑕᒪᖅᑕᖅᓯᒪᔪᓂᒃ ᐋᕿᒋᐊᖅᑕᐅᔾᔭᐅᑎᒋᔾᔪᑎᓂᒃ ᐊᑐᕈᓐᓇᕐᓂᕐᓂᒧᑦ. ᐃᓱᒪᒋᔭᐅᖃᓯᐅᔾᔭᐅᒋᐊᖃᕐᓂᖏᓐᓄᑦ ᑕᒪᒃᑯᐊ ᓇᓗᓇᕐᓂᖏᑦ, ᐊᑐᖅᑕᐅᔪᐃᓐᓇᐅᓕᓚᐅᖅᑐᑦ ᐃᑎᓂᖃᖅᑎᒋᔪᐃᓐᓇᐅᒍᓐᓇᕐᓂᖏᓄᑦ ᐆᑦᑐᕋᐅᑏᖏᑦ (0-2, 0-4 ᐊᒻᒪᓗ 0-6 m ᒥᑕᓂᒃ ᐃᑎᓂᖃᖅᑎᒋᔪᓂ) ᓴᖏᓂᖃᖅᑐᐃᓐᓇᐅᕐᑯᓪᓗᒋᑦ ᐃᓱᒪᒋᔭᐅᖃᑕᐅᒋᐊᓖᑦ ᑕᒪᒃᑯᐊ ᐱᓪᓚᑖᖑᖃᑕᐅᒍᓐᓇᕐᓂᖏᑦ.

ᐊᑐᑕᐅᕙᓐᓂᖏᑦ ᑕᐃᑯᐊ ᑕᒪᖅᑕᖅᓯᒪᔪᓂᒃ ᐋᕿᒋᐊᖅᑕᐅᕐᔭᐅᑎᒋᒍᑏᑦ ᓇᒪᑦᑎᐊᖅᐳᑦ ᑕᑯᔭᐅᕙᓚᐅᖅᑐᓂᒃ ᓴᕿᑎᑕᐅᑲᐅᑎᒋᓯᒪᔪᓄᑦ (ᓱᕐᓗ ᐊᔾᔨᓕᐅᖅᑕᐅᓯᒪᓚᐅᖅᑐᓂᒃ ᖁᓚᐅᑕᐅᓂᖏᓐᓂ ᑕᑯᔭᐅᕙᓚᐅᕐᓂᖏᓐᓂ). ᑕᐃᒃᑯᐊᓕ ᖁᑦᑎᒃᑐᒥ ᐅᑭᐅᖅᑕᖅᑐᒥ ᓴᖅᐱᓖᑦ ᖃᐅᔨᓴᖅᑕᐅᓂᖏᓂ, ᑕᑯᔭᐅᕙᓚᐅᕐᓂᖏᑦ ᒫᓐᓇᑲᐅᑎᒋ ᐱᖑᖅᑎᑕᐅᕙᓚᐅᓐᖏᓐᓂᖏᓐᓄᑦ, ᑕᐃᑯᐊ ᑕᒪᖅᑕᖅᓯᒪᔪᓂᒃ ᐋᕿᒋᐊᖅᑕᐅᕐᔭᐅᑎᒋᒍᑏᑦ ᐊᓯᔾᔨᖅᓯᒍᓐᓇᕐᓂᖏᑦ ᐊᑐᖅᑕᐅᓚᐅᖏᓚᑦ ᕿᓂᕐᕕᐅᒍᓐᓇᖅᓯᓚᐅᖅᑐᓂᒃ ᑕᑯᔭᐅᕙᓚᐅᖅᑐᓂᒃ ᓈᓴᐃᔾᐅᓚᐅᖅᑐᓄᑦ ᖃᐅᔨᓴᖅᑎᓄᑦ ᖃᐅᔨᔭᐅᕙᓚᐅᕐᓂᖏᓐᓄ ᐆᒪᔪᐃᑦ, ᐊᒻᒪᓗ ᐊᓯᔾᔨᕈᑕᐅᒍᓐᓇᓪᓚᓇᖅᓱᑎᒃ ᓇᓚᐅᑦᑖᖅᑕᐅᓯᒪᔪᓂᒃ. ᖃᐅᔨᒪᔾᔪᑎᓴᐃᑦ ᐊᑯᓂᐅᓂᖃᖅᑎᒋᒐᔪᓐᓂᖏᓐᓂᒃ ᐊᕐᕕᑦ ᐳᐃᓯᒪᖃᑕᕐᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐊᖅᑲᐅᒪᕙᓐᓂᖏᓐᓂᒃ ᐱᑕᖃᓇᐊᖃᕋᔭᖅᑐᑦ ᑕᒻᒪᖅᓯᒪᓂᖏᓄᑦ ᐋᕿᒋᐊᕈᑕᐅᒍᓇᕐᓂᐊᕈᑎᒃ ᑕᑯᖃᑦᑕᖅᓱᑎᒃ ᓈᓴᖅᑕᐅᓚᐅᕐᓂᖏᓐᓂ ᖃᐅᔨᔭᐅᕙᓚᐅᕐᓂᖏᓐᓂᒃ ᖃᐅᔨᓴᖅᑎᓪᓗᒋᑦ ᑕᐃᒃᑯᓂᖓ.

ᐊᐅᖏᔭᕐᕕᐅᕙᓐᓂᖏᓐᓂᒃ ᐊᖑᔭᐅᓯᒪᓂᖏᓐᓂ–ᓇᓗᓇᐃᒃᑯᑦᑎᖅᑕᐅᓪᓗᑎᒃ–ᐊᒻᒪᓗ ᑭᖑᓂᐊᒍᑦ ᐊᖑᔭᐅᑲᓐᓂᖅᐸᑦᓱᑎᒃ ᖃᐅᔨᓴᕈᓯᓇᔭᐅᓚᐅᕐᓂᖏᓐᓂ ᐱᐅᓯᖃᕐᓂᖏᓐᓂᒃ ᐃᓚᖏᓐᓂ ᐊᒥᓱᒐᔭᓐᓂᒃ ᑕᐃᒪᐃᓕᖓᔪᓇᑦᓯᑐᐃᓐᓇᖅᐸᓚᐅᖅᑐᑦ ᖃᐅᔨᓴᕐᕕᐅᒋᖅᓯᒪᒍᓐᓇᓚᐅᖏᓐᓂᖏᓐᓂ. ᐱᓗᐊᖅᑐᒥᒃ, ᐊᔪᕐᓇᖃᑦᑕᓚᐅᕐᒪᑕ ᐆᑦᑐᕋᖅᑕᐅᔪᐃᓐᓇᐅᒍᓐᓇᓚᐅᖏᒻᒪᑕ ᖃᐅᔨᓴᖅᑕᐅᒍᓐᓇᕐᓂᖏᑦ ᑕᒪᕐᒥᒃ ᖃᓄᑎᒋ ᐅᑭᐅᖃᖅᑎᒋᓂᖏ ᐋᕿᕐ, ᐊᒻᒪᓗ ᐊᔪᕐᓇᖃᑦᑕᓚᐅᕐᒥᒻᒪᓐ ᖃᐅᔨᓴᒐᕐᓕᐅᕐᕕᐅᔪᐃᓐᓇᐅᒍᓐᓇᕐᓂᖏᑦ ᐊᐅᔭᓕᒡᕕᐅᓗᐊᖃᑦᑕᕐᓂᖏᓐᓂᒃ ᐊᕐᕕᕐᓄᑦ ᓇᔪᒐᓇᔭᐅᕙᓐᓂᖏᑦ. ᑕᐃᒪᐃᓕᖓᓂᕋᖅᑕᐅᑐᐃᓐᓇᓕᓚᐅᖅᐳᑦ ᓇᓕᒍᑏᑦᑎᑕᐅᔪᓂᒃ ᐊᖑᔭᐅᕙᓚᐅᕐᓂᖏᓐᓂᒃ ᒪᓕᑦᑐᓐᓂᒃ ᐊᒻᒪᓗ ᑕᐃᒃᑯᓂᖓ ᐱᑕᖃᖅᑎᒋᓂᖏᓂᒃ ᖃᐅᔨᔭᐅᓚᓇᓚᐅᖏᓐᓂᖏᓐᓂ. ᑕᒪᒃᑯᐊ ᐊᓯᔾᔨᖅᑕᐅᒐᔭᖅᐸᑦ ᐃᓱᒪᒋᔭᐅᑐᐃᓐᓇᖅᑐᑦ ᑕᐃᒪᑐᐃᓐᓇᓇᐊᖃᖏᑦ ᖃᐅᔨᓴᖅᑕᐅᑦᑎᐊᓇᐊᖃᕋᔭᖅᐳᑦ ᖃᓄᐃᓕᖓᓪᓚᓇᒻᒪᖔᑕ ᑐᑭᓯᓂᐊᖅᑕᐅᓗᑎᒃ.

ᑐᑭᓯᓯᒪᓕᖅᑕᖏᑦ ᐊᒻᒪᓗ ᐅᖃᐅᔾᔨᒋᐊᕈᑎᖏᑦ

ᑐᑭᓯᓂᐊᕈᑕᐅᓯᒪᓂᖏᑦ ᑖᒃᑯᐊ ᓄᑖᕈᓇᐊᕈᑕᐅᓕᖅᑐᑦ ᓇᓚᐅᑦᑖᖅᑕᐅᓯᒪᓂᖏᓐᓄᑦ ᑲᓇᑕᐅᑉ ᑲᓇᓐᓇᖓᓂ–ᐊᑯᑭᑦᑐᐃᓪᓗ ᐱᖓᓐᓇᖓᓂ ᐊᕐᕕᖅᑕᖅᑲᕐᓂᖏᓐᓂᒃ, ᑐᑭᓯᓂᐊᖅᑕᐅᓚᐅᖅᑐᓂᒃ ᑕᒪᒃᑭᖅᑕᐅᒋᐊᖅᓯᒪᔪᓂ ᖃᖓᑕᔫᒃᑯᑦ ᓈᓴᖅᑕᐅᓪᓗᑎᒃ ᖃᐅᔨᓴᖅᑕᐅᓚᐅᖅᑐᓂᒃ ᑕᒪᐃᓐᓂᒃ ᐱᒻᒪᕆᐅᓂᖏᓐᓂᒃ ᐊᐅᓚᒡᕕᐅᓗᐊᖃᑕᕐᓂᖏᓐᓂᒃ ᐊᕐᕕᕐᓄᑦ, ᐱᖏᑕᑐᐊᕆᓪᓗᒋᑦ ᓴᓂᕋᔭᐅᑉ ᓯᑯᓯᓚᐅᑉ ᑕᕆᐅᖓᓃᑦᑐᑦ ᐊᒻᒪᓗ ᑕᓪᓗᕈᑎᐅᑉ ᐃᑭᕋᓴᖓᓃᑦᑐᓂᒃ. ᖃᐅᔨᓴᖅᑕᐅᓂᖏᓐᓂ ᑖᒃᑯᐊ ᑐᖓᕕᖃᓚᐅᖅᑐᑦ ᑭᓕᕆᖏᓐᓇᓚᐅᖅᑐᓂᒃ, ᐊᑯᓂᐅᔪᓪᓗ ᐊᑐᖅᑕᐅᔪᓂᒃ ᓇᓗᓇᐃᒃᑯᑦᑎᖅᑕᐅᓯᒪᓂᖏᓐᓂᒃ ᐱᓕᕆᐊᖑᐊᓂᓚᐅᖅᑐᓂᒃ ᐱᐅᓯᑕᐊᕈᑕᐅᔪᑦᓱᑎᒃ ᐋᕿᒋᐊᖅᑕᐅᒍᓐᓇᕆᐊᖃᕐᓂᖏᑦ ᐊᔾᔨᒌᖏᑦᑐᓐᓇᕐᓂᖏᓐᓄᑦ, ᑕᐃᒫᓪᓗ ᓴᕿᑦᑎᑦᑎᓗᑕᐅᓕᓚᐅᖅᑐᑦ ᐋᕿᒋᐊᖅᑕᐅᓯᒪᓕᖅᑐᓂᒃ ᓇᓚᐅᑖᕈᑎᓂᒃ ᐱᑕᖃᕐᓂᖏᓐᓂᒃ ᐊᕐᕕᑦ 6,446-ᖏᓃᓕᖅᑐᓂᒃ (ᑕᕝᕕᓇ ᐊᔾᔨᒌᖏᓐᓂᖃᖅᑎᒋᒍᓐᓇᖅᑐᑦ 26% ᐳᓴᓐᑎᓂᒃ). ᑲᔪᓯᑦᑎᐊᕈᓐᓇᓚᐅᕐᓂᖏᑦ ᖃᐅᔨᓴᖅᑕᐅᓂᖏᓐᓂᒃ ᓈᓴᖅᑕᐅᒋᐊᖅᑐᓂᒃ ᐃᓛᒋᑦ ᒥᑭᔫᖏᑦᑐᒥᒃ ᐃᑲᔪᖅᑎᖃᓚᐅᕐᓂᖏᓐᓄᑦ ᐃᓄᐃᑦ ᓄᓇᓕᒻᒥᐅᑕᓂᒃ ᐊᒻᒪᓗ ᐊᐅᓚᑦᑎᔾᐅᖃᑎᒋᕙᑦᑎᓐᓂᒃ, ᑕᐃᒃᑯᓂᖓ ᐃᓚᖃᓚᐅᖅᑐᓂᒃ ᐃᓄᖕᓂᒃ ᖃᐅᔨᓴᖃᑕᐅᓚᐅᖅᑐᓂᒃ ᑕᐅᑐᕋᓈᖅᑎᐅᓪᓗᑎᒃ ᓈᓴᐃᔾᐅᑎᑕᐅᓪᓗᑎᒃ ᐊᒻᒪᓗ ᖁᒧᐊᑦᑎᑕᐅᓯᒪᔪᑎᒍᑦ ᒪᓕᒐᑎᑦᓴᓂᒃ ᓇᓗᓇᐃᒃᑯᑦᑎᖅᑕᐅᖃᑦᑕᓚᐅᕐᓂᖏᓐᓂ.

ᑕᒪᐃᓐᓂ ᓇᓗᓇᕈᑎᖃᖅᑐᐃᓐᓇᓚᐅᖅᑐᑦ ᖃᖓᔫᒃᑯᑦ ᕿᓂᖅᑕᐅᓂᖏᓐᓂ ᓈᓴᖅᑕᐅᓗᑎᒃ ᑕᑯᔭᐅᕙᓐᓂᖏᓪᓗ ᐊᕐᕕᑦ ᐱᔪᑎᖃᓚᐅᖅᑐᑦ ᐊᕐᕕᑦ ᐊᒥᓲᓂᖏᓐᓂ ᑕᑯᔭᐅᒍᓐᓇᖃᑦᑕᓚᐅᖅᑐᓂᒃ ᐳᐃᓯᒪᓂᖏᓐᓂ ᑭᓯᐊᓂ ᐊᒻᒪᓗ ᑐᖓᐅᑕᐅᕙᓚᐅᕐᒥᔪᓂᒃ. 2013–ᒥ ᖃᐅᔨᓴᖅᑕᐅᓚᐅᖅᑐᓂᒃ ᓴᕿᑦᑎᓚᐅᖅᑐᑦ ᐃᑲᔪᕐᓂᖃᒻᒪᓇᑦᑐᓂ ᐊᒥᓱᐊᓗᓐᓂᒃ ᑕᑯᔭᐅᒍᓐᓇᖃᑦᑕᓚᐅᕐᓂᖏᓐᓂ ᐅᖓᓯᑦᑐᒥ ᓇᓗᓇᐃᒃᑯᑦᑎᖅᑕᐅᓯᒪᔪᓂ–ᐊᒻᒪᓗ ᑭᖑᓂᐊᒍᑦ ᐊᖑᔭᐅᑲᓐᓂᖅᐸᓚᐅᖅᑐᓂᒃ ᖃᐅᔨᓴᖅᑕᐅᕙᓚᐅᖅᑐᓂᒃ ᑕᐃᒫᒃ ᐊᒥᓱᓂᖅᓴᐅᔪᓂᒃ ᐱᑕᖃᖅᑎᒋᓂᖏᓂᒃ ᖃᐅᔨᒍᓐᓇᖃᑦᑕᓚᐅᕐᒪᑕ ᐊᒻᒪᓗ ᐃᓱᒪᒋᓗᒋᑦ ᑕᐃᒪᐃᓕᖓᓱᓇᔭᐅᔪᑐᖃᐅᓂᖏᑦ ᐱᐅᓯᑐᖃᐃᑦ ᒪᓕᑐᐃᓐᓇᖅᓱᒋᑦ.

ᐊᐅᖏᔭᕐᕕᐅᕙᓐᓂᖏᓐᓂᒃ ᐊᖑᔭᐅᓯᒪᓂᖏᓐᓂ–ᓇᓗᓇᐃᒃᑯᑦᑎᖅᑕᐅᓪᓗᑎᒃ ᐊᒻᒪᓗ ᑭᖑᓂᐊᒍᑦ ᐊᖑᔭᐅᑲᓐᓂᖅᐸᑦᓱᑎᒃ ᖃᐅᔨᓴᕈᓯᓇᔭᐅᓚᐅᕐᓂᖏᑦ ᓇᓚᐅᑖᕈᑕᐅᓚᐅᖅᑐᑦ ᐱᑕᖃᕐᓂᖏᓐᓂᒃ ᑲᓇᑕᐅᑉ ᑲᓇᓐᓇᖓᓂ–ᐊᑯᑭᑦᑐᐃᑦ ᐱᖓᓇᖓᓂᓗ ᐊᕐᕕᕐᓂᒃ ᐃᒫᑎᒋ 7,660–ᓂᒃ (ᓇᓴᐅᓯᓇᔾᔪᑎᓕᓐᓂᒃ 95% ᐳᓴᓐᑎᖏᓃᑦᑐᓂᒃ HDI 4,500-ᓂᒃ–11,100–ᓄᑦ). ᑕᐃᒃᑯᐊᓕ ᐊᐅᖏᔭᕐᕕᐅᕙᓐᓂᖏᓐᓂᒃ ᐊᖑᔭᐅᓯᒪᓂᖏᓐᓂ–ᓇᓗᓇᐃᒃᑯᑦᑎᖅᑕᐅᓪᓗᑎᒃ ᐊᒻᒪᓗ ᑭᖑᓂᐊᒍᑦ ᐊᖑᔭᐅᑲᓐᓂᖅᐸᑦᓱᑎᒃ ᐊᑐᖅᑕᐅᕙᓐᓂᖏᑦ, ᓱᓕᔪᕐᓇᕈᒥᓇᕐᓗᐊᖅᓱᑎᒃ, ᑐᖓᕕᖃᖅᐳᑦ ᐊᒥᓱᒐᔭᖏᓐᓂᒃ ᑕᐃᒪᐃᓕᖓᑐᐃᓐᓇᕐᓱᒋᔭᐅᔪᓂᒃ ᐊᑐᖅᑐᓂᒃ. ᓱᕐᕋᐃᔭᐅᓇᔭᕈᑎᒃ ᑕᐃᒃᑯᐊ ᑕᐃᒪᐃᓕᖓᑐᐃᓐᓇᕐᓱᒋᔭᐅᓂᖏᑦ ᖃᓄᕐᓗ ᐊᑦᑐᐃᓂᖃᕈᓐᓇᕐᒪᖔᑕ ᑐᑭᓯᓂᐊᖅᑕᐅᑦᑎᐊᓇᐊᖃᓇᕗᑦ. ᑕᒪᒃᑯᐊ ᐱᔪᑕᐅᓂᖏᓐᓄᑦ, ᐊᑐᖅᓯᒪᔪᒍᑦ ᖃᖓᑕᔫᒃᑯᑦ ᕿᓂᕐᕕᐅᓚᐅᖅᑐᓂᒃ ᑕᑯᔭᐅᕙᑦᑐᓐᓂᒃ ᓈᓴᖅᑕᐅᕙᓪᓕᐊᓚᐅᖅᑐᓂᒃ ᓇᓚᐅᑦᑖᕈᑕᐅᓂᕐᒧᑦ ᐊᒥᐊᒃᑯᖃᐃᓐᓇᕈᓐᓇᓚᖓᔪᓂᒃ ᐊᕐᕕᓐᓂᐊᖅᑕᐅᔪᕋᔭᖅᑐᓂᒃ.

ᐊᑐᖅᑕᐅᓂᖏᓐᓂ 2013–ᒥ ᖃᖓᑕᔫᒃᑯᑦ ᖃᐅᔨᓴᖅᑕᐅᓚᐅᖅᓯᒪᔪᑦ ᓇᓚᐅᑖᖅᑕᐅᓂᖏᓐᓄᑦ ᓇᓚᐅᑖᕈᑕᐅᓂᖏᑦ ᐊᕐᕕᕐᓂᒃ ᑲᓇᑕᐅᑉ ᑲᓇᓐᓇᖓᓂ–ᐊᑯᑭᑦᑐᐃᓪᓗ ᐱᖓᓇᖓᓂ ᐊᒥᓲᓂᖏᑦ ᐃᓐᓄᓐᓄᑦ ᐱᕝᕕᐅᒍᓐᓇᖅᑐᑦ ᐊᒥᓲᓂᖅᐹᖑᒍᓐᓇᖅᑐᓂᒃ 52–ᓂᒃ ᐊᕐᕕᕐᓂᒃ ᐊᕐᕋᒍᑕᒫᖅ, ᑕᒪᐃᓐᓂ, ᑕᒪᕐᒥᑎᐊᖅ ᐃᓚᒋᔭᐅᓗᑎᒃ ᑐᕐᑯᔾᔪᑕᐅᕙᓐᓂᖏᑦᑕᐅᖅ ᐊᓯᖏᑦ (ᓱᕐᓗ ᐆᒃᑑᑎᒋᓗᒋᑦ ᐊᕐᕙᓐᓂᐊᖅᑕᐅᓂᖏᑦ

ᐃᓄᖕᓄᑦ, ᐊᓐᓇᐃᔭᐃᖃᑦᑕᖏᑦ ᐊᒻᒪᓗ ᔭᒐᐃᔭᐅᓕᖃᑦᑕᖏᑦ, ᓄᓕᐊᖅᑕᐅᖃᓯᐅᔭᐅᕙᓐᓂᖏᑦ, ᐅᒥᐊᕐᔪᐊᕐᓄᑦ ᐊᐳᖅᑕᐅᓚᕿᕙᓐᓂᖏᑦᓗ).

ᐊᓯᖏᑦᑕᐅᖅ ᐃᓱᒪᒋᔭᐅᒋᐊᖃᕐᒥᔪᑦ

ᑲᓇᑕᐅᑉ ᑲᓇᓐᓇᖓᓂ–ᐊᑯᑭᑦᑐᐃᓪᓗ ᐱᖓᓇᖓᓂ ᐊᕐᕕᑦ ᓈᖃᑕᕐᓂᖏᑦ ᓇᐅᒃᑯᑐᐃᓐᓇᖅ ᓇᒧᑐᐃᓐᓇᖅ ᑕᒪᐃᓐᓂᒃ ᓄᓇᕗᑦ ᐊᕕᑦᑐᖅᓯᒪᓂᖏᓐᓂ ᐊᒻᒪᓗ ᓄᓇᕐᔪᐊᕐᒥᐅᑦ ᓄᓇᓕᒡᔪᐃᑦ ᑭᒡᓕᖃᕐᕕᖏᓐᓂ. ᑕᒪᒃᑯᐊ ᓄᓇᖃᑦᑎᑏᖏᑦᑐᓄᑦ ᐃᑲᕐᕕᐅᕙᓐᓂᖏᑦ ᐃᓱᒪᒋᔭᐅᔭᕆᐊᖃᕐᒥᔪᑦ ᖃᐅᔨᓴᖅᑕᐅᖃᑦᑕᕐᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐊᐅᓚᑦᑎᓂᕐᒧᑦ ᑲᒪᒋᔭᐅᕙᓐᓂᖏᓐᓂ ᐊᕐᕕᑦ. ᑲᓇᑕᐅᑉ ᐃᓗᐊᓂ, ᐊᐅᓚᑕᐅᓲᖑᒻᒪᑕ ᑲᒪᒋᔭᐅᓗᑎᒃ ᑕᒪᐃᓐᓄᑦ ᐃᖃᓗᓕᕆᔨᔪᐊᒃᑯᓐᓄᑦ ᑕᕆᐅᕐᒥᐅᑕᓕᕆᔨᒃᑯᓄᑦ, ᐊᒻᒪᓗ ᓄᓇᕗᑦ ᐃᓄᕐᑯᑎᖏᓐᓄᑦ ᐊᒻᒪᓗ ᓄᓇᕕᒃ ᐃᓄᕐᑯᑎᖏᓐᓄᑦ. ᐱᔪᓐᓇᐅᑎᖃᕐᒪᑕ ᐊᒻᒪᓗ ᑲᒪᔨᐅᓪᓗᑎᒃ ᐊᐅᓚᑕᐅᕙᓐᓂᖏᓐᓂ ᐊᕐᕕᑦ, ᐅᖃᐅᓯᐅᓯᒪᓪᓗᑎᒃ ᑕᐃᒃᑯᐊ ᐃᓗᐊᓂ *ᐃᖃᓗᓕᕆᓂᕐᒧᑦ ᒪᓕᒐᕐᓂ*, ᐊᒥᓱᒐᔅᓂᓗ ᓄᓇᑖᕈᑕᐅᓂᕐᒧᑦ ᐊᖏᕈᑕᐅᓯᒪᔪᓂ.

ᑐᑭᓯᓂᐊᕐᕕᐅᓯᒪᔪᑦ

ᖃᐅᔨᓴᖅᑎᓄᑦ ᐅᖃᐅᔾᔨᒋᐊᕈᑏᑦ ᐅᓂᒃᑳᓕᐊᑦ ᓴᕿᑎᑕᐅᓯᒪᔪᑦ ᐊᒃᑑᐱᕆ 20-24, 2014–ᒥ ᐊᕐᕋᒍᑕᒫᖅ ᑲᑎᒪᔪᐊᓚᐅᕐᓂᖏᓐᓂ ᑲᓇᑕᓕᒫᒥ ᑕᕆᐅᕐᒥᐅᑕᓕᕆᔨᐅᖃᑕᐅᔪᑦ ᕿᒥᕐᕈᐊᖅᑎᐅᓂᖏᓐᓄᑦ ᑲᑎᒪᔨᕋᓛᑦ (NMMPRC). ᐊᓯᒃᑲᓐᓂᖏᑦ ᐅᖃᓕᒫᒐᓕᐊᑦ ᑕᐃᒃᑯᓇᖓᑦ ᑲᑎᒪᓂᕕᓂᖏᓐᓂᒃ ᑕᑯᔭᒃᓴᐅᖏᔪᑦ ᐅᕙᓂ DFO Science Advisory Schedule ᐊᑐᐃᓐᓇᕈᖅᐸᓪᓕᐊᓂᖓᓐᓂ.

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ᑖᒃᑯᐊ ᐅᓂᒃᑳᓕᐊᑦ ᐊᑐᐃᓐᓇᐅᒻᒥᔪᐃᑦ ᐅᕙᖓ ᑐᕋᕈᑎᓕᒻᒥ:

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