ᑐᓂᔭᐅᔪᖅ ᓄᓇᕗᒻᒥ ᑖᒪᔪᓕᕆᔨᕐᔪᐊᒃᑯᑦ ᑲᑎᒪᔨᖏᓐᓄᑦ

ᐊᑐᖅᑕᐅᓂᐊᕐᓗᓂ

ᑐᑭᓯᐅᒪᔾᔪᑎᒧᑦ: X ᐃᓱᒪᓕᐅᕈᑎᒧᑦ:

ᐱᑦᔪᑎᓕᒃ: ᐃᒪᕐᒥᐅᑕᓕᕆᔨᒃᑯᑦ ᖃᐅᔨᓴᒻᒪᕆᓐᓂᖓ ᐊᕐᕕᑦ ᐊᒥᓲᓂᖏᓐᓄᑦ ᐊᒻᒪᓗ ᓇᓗᓇᐃᖅᑎᖅᑕᐅᓂᖏᓐᓄᑦ ᐊᒻᒪᓗ ᐅᖃᐅᔾᔨᒋᐊᕈᑎᐅᑲᐃᓐᓇᖅᑐᖅ ᐱᑦᔪᑎᓕᒃ ᐅᓄᕐᓂᖏᑎᒍᑦ ᐊᖑᓇᓱᒃᑕᐅᒍᓐᓇᕐᓂᖏᓐᓄᑦ ᐊᕐᕕᑦ.

ᖃᓄᐃᓕᖓᓂᕆᔾᖓ:

ᑖᓐᓇᓕ ᑭᖑᓂᐊᒍᑦ ᐱᓕᕆᐊᖑᒃᑲᓂᖅᑐᖅ ᑐᑭᓯᐅᒪᔾᔪᑎᑦ ᑐᓂᔭᐅᓯᒪᔪᑦ ᓄᓇᕗᒻᒥ ᑖᒪᔪᓕᕆᔨᕐᔪᐊᒃᑯᑦ ᑲᑎᒪᔨᖏᓐᓄᑦ ᐊᒃᑑᕝᒥ 2005.

ᑕᐃᒪᓐᖓᓂᒃ ᐊᖏᕈᑎᐅᓚᐅᖅᑎᓪᓗᒍ ᓄᓇᕗᒻᒥᑦ ᓄᓇᑖᕐᓂᖅ, ᐃᒪᕐᒥᐅᑕᓕᕆᔨᒃᑯᑦ (ᕿᑎᕐᒥᐅᓂ ᐊᒻᒪᓗ ᐅᑭᐅᖅᑕᖅᑐᒥᐅᑦ) ᖃᐅᔨᓴᖃᑦᑕᖅᓯᒪᕗᑦ ᑲᓇᓐᓇᖅᐸᓯᖓᓂ ᐅᑭᐅᖅᑕᖅᑑᑉ ᐊᕐᕕᖏᓐᓂᑦ, ᐃᑲᔪᖅᑐᐃᓪᓗᑎᒃ ᑖᒪᔪᓂᒃ ᐊᐅᓚᑦᑎᓂᕐᒧᑦ ᐊᑐᖅᑕᐅᔭᕆᐊᓕᓐᓂᑦ. ᑖᓐᓇ ᖃᐅᔨᓴᕐᓂᐅᔪᖅ ᐱᖃᓯᐅᔾᔨᔪᖅ ᖃᐅᔨᓴᕐᓂᐅᔪᓂᒃ ᐊᕐᕕᑦ ᐊᒥᓲᓂᖏᓐᓂᑦ, ᐅᖓᓯᑦᑐᒧᑦ ᐃᖏᕐᕋᓂᕆᕝᕕᑦᑕᖏᓐᓂᑦ, ᐊᒻᒪᓗ ᐊᐅᖏᑎᒍᑦ ᓯᕗᓕᖅᓱᕈᑎᖏᑦ ᐊᕐᕕᑦ ᐊᒥᓲᓂᖏᑎᒍᑦ. ᖃᐅᔨᓴᕈᑎᒥᓃᑦ ᖃᐅᔨᓴᕐᓂᖃᑦᑎᓪᓗᒋᑦ ᓇᓗᓇᐃᖅᓯᔪᑦ ᐃᒪᕐᒥᐅᑕᓕᕆᔨᒃᑯᓐᓄᑦ ᑖᒃᑯᐊ ᐊᕐᕕᑦ ᓇᓐᓇᖓᓂ ᐅᑭᐅᖅᑕᖅᑑᑉ ᓇᒥᑐᐃᓐᓈᖅᑐᑦ ᐊᒻᒪᓗ ᐊᑕᐅᓯᕐᒥᖓᖅᑐᑎᒃ ᐊᕐᕕᓂᒃ. ᐸᐃᑉᐹᑦ ᖃᐅᔨᓴᕐᓂᕐᒧᑦ ᑎᑎᕋᖅᑕᐅᓯᒪᔪᑦ ᐸᕐᓇᑕᐅᕙᓪᓕᐊᔪᑦ ᓇᓗᓇᐃᖅᑎᕆᔪᑦ ᖃᐅᔨᓴᕈᑎᒥᓂᕐᓂᒃ ᖃᐅᔨᓴᖅᑐᖃᑦᑎᓪᓗᒍ.

ᐃᒪᕐᒥᐅᑕᓕᕆᔨᒃᑯᑦ ᓴᖅᑮᓚᐅᖅᑐᑦ ᖃᐅᔨᓴᕈᑎᒥᓂᕐᓂᒃ ᖃᐅᔨᓴᕐᓂᖃᑦᑎᓪᓗᒋᑦ ᑕᐃᑲᓂ ᑲᓇᑕᐅᑉ ᓯᓚᑖᓂ ᐊᐃᕕᕐᓱᐊᕐᓂᕐᒧᑦ ᐱᓕᕆᔨᐅᔪᑦ ᑲᑎᒪᓂᖃᑦᑎᓪᓗᒋᑦ ᔫᓂ 2006-ᒥ. ᑕᑉᐸᓂ ᑲᑎᒪᓂᕐᒥ, ᖃᐅᔨᓴᕐᓂᐅᔪᖅ ᕐᑯᕕᐊᒋᔭᐅᒻᒪᕆᓚᐅᖅᑐᖅ ᐱᓕᕆᔾᔪᐊᖅᓯᒪᓂᖏᓐᓄᑦ ᖃᐅᔨᓴᕐᓂᒃᑯᑦ ᐊᑯᓂᐅᖏᑐᒃᑯᑦ, ᑭᓯᐊᓂᓕ ᐃᓱᒪᑖᕈᑕᐅᓯᒪᔪᑦ ᐊᑕᐅᓯᕐᒦᖓᕐᕆᐊᖏᑕ ᐊᕐᕕᑦ ᐊᒻᒪᓗ ᐊᒥᓲᓂᖏᑕ ᓇᓚᐅᒃᑖᖅᑕᐅᓂᖏᑦ ᐊᖏᖅᑕᐅᓚᐅᖏᑦᑐᑦ 2006-ᒥ. ᐱᑦᔪᑎᒋᔭᐅᓗᐊᖅᑐᓂ ᐊᖏᖅᑕᐅᖏᓐᓂᖓᓄᑦ ᐃᒪᕐᒥᐅᑕᓕᕆᔨᒃᑯᑦ ᐃᓱᒪᑖᕈᑎᒋᓯᒪᔭᖓ ᐱᑕᖃᖏᓗᐊᕐᓂᖓᓄᑦ ᓇᓗᓇᐃᖅᑎᕆᓯᒪᑦᑎᐊᖅᑐᓂᒃ ᐊᒻᒪᓗ ᑐᑭᓯᓇᖅᓯᑦᑎᐊᕐᓂᖏᓐᓄᑦ ᖃᐅᔨᓴᕈᑎᒥᓃᑦ ᖃᐅᔨᓴᖅᑕᐅᒻᒪᕆᓐᓂᖏᑎᒍᑦ ᐊᒻᒪᓗ ᐊᑲᐅᒃᓴᖏᓐᓂᐅᔪᖅ ᐃᓚᖏᓐᓄᑦ ᐊᑐᖅᑕᐅᔪᒥᓂᕐᓄᑦ. ᐃᓱᒪᒋᔭᐅᓕᓚᐅᖅᑐᖅ ᐋᖅᑭᒋᐊᖅᓯᒪᔪᒥᒃ ᐊᒻᒪᓗ ᓇᓗᓇᐃᖅᑎᕆᓯᒪᓂᖅᓴᒥᒃ ᖃᐅᔨᓴᒻᒪᕆᓐᓂᐅᔪᒥᒃ ᓴᖅᑭᖅᑐᖃᕐᓗᓂ ᑖᒃᑯᓄᖓ IWC 2007-ᐸᒥ ᑕᐃᑲᓂᓗ ᓱᓕᔪᓐᓇᐅᑎᑦ ᐊᑕᐅᓯᕐᒦᖓᕆᐊᖏᓐᓂᒃ ᐊᕐᕕᑦ ᐊᒻᒪᓗ ᐊᒥᓲᓂᖏᓐᓄᑦ ᐃᓱᒪᒋᔭᐅᓛᕐᓗᓂ.

ᐃᒪᕐᒥᐅᑕᓕᕆᔨᒃᑯᑦ ᒪᓐᓇᐅᔪᖅ ᐋᖅᑭᒃᓱᐃᕙᓪᓕᐊᔪᑦ ᓇᓗᓇᐃᖅᑎᖅᓯᒪᓂᖅᓴᒥᒃ ᐊᐅᖏᑎᒍᑦ ᓯᕗᓕᖅᓱᕈᑎᖏᓐᓄᑦ ᐊᒻᒪᓗ ᖃᐅᔨᓴᕐᓂᖃᑦᑎᓪᓗᒋᑦ ᖃᐅᔨᓴᕈᑎᒥᓂᕐᓂᒃ. ᑖᓐᓇᓗ ᑐᑭᓯᐅᒪᔾᔪᑎᒃ ᕿᒥᕐᕈᔭᐅᓂᐊᖅᑐᖅ ᑲᓇᑕᒥᐅᑦ ᑲᑎᒪᔨᕐᓛᖏᓐᓄᑦ ᐃᒪᕐᒥᐅᑕᒃ ᖃᐅᔨᓴᖅᑎᐅᔪᓄᑦ (NMMPRC: ᑲᓇᑕᒥ ᑕᓇᐅᕐᒥᐅᑕᓂᒃ ᕿᒥᕐᕈᔨᑦ ᑲᑎᒪᔨᕐᓛᑦ) ᐊᒻᒪᓗ ᑖᒃᑯᓇᖅᓴᑦ ᐊᕐᕕᓂᒃ ᐅᑎᖅᑎᑦᑎᓴᓯᐊᖅᑎᐅᔪᓂᑦ, ᓯᕗᓂᐊᒍᑦ ᐅᓂᒃᑳᓇᔭᐅᓚᐅᖏᓐᓂᖓᓂ ᑭᖑᓪᓕᕐᒥ ᑲᑎᒪᓂᖃᓕᖅᐸᑕ ᑖᒃᑯᐊ IWC ᒪᐃᒥ 2007.

ᑎᑎᕋᖅᑕᐅᒋᐊᖓᖅᓯᒪᔪᑦ ᓇᓚᐅᒃᑖᖅᑕᐅᓯᒪᔪᑦ ᐅᓄᕐᓂᖏᑎᒍᑦ ᐊᖑᓇᓱᒃᑕᐅᒍᓐᓇᕐᓂᖏᓐᓄᑦ

ᐊᑕᖏᓂᖅᓴᒥᒃ ᓈᒻᒪᒋᔭᐅᓂᖏᓐᓄᑦ ᐊᒥᓲᓂᖏᑕ ᓇᓚᐅᒃᑖᖅᑕᐅᓯᒪᔪᓂᒃ ᐊᒻᒪᓗ ᐊᕐᕕᑦ ᓇᓗᓇᐃᖅᑕᐅᓂᖏᓐᓄᑦ, ᑲᑎᑕᐅᑲᐃᓐᓇᖏᓯᒪᔪᑦ ᐅᓄᕐᓂᖏᑎᒍᑦ ᐊᖑᓇᓱᒃᑕᐅᒍᓐᓇᕐᓂᖏᓐᓄᑦ ᐅᐸᓂ ᓇᓗᓇᐃᖅᑕᐅᓯᒪᕗᑦ. ᓂᕐᔪᑎᓄᑦ ᐃᓱᒪᒋᔭᐅᔪᑦ ᓄᖑᑐᐃᓐᓇᕆᐊᖃᓕᖅᑐᓄᑦ, ᐋᖅᑭᓯᒪᔾᔪᑎᐅᔪᖅ ᑕᐃᔭᐅᔪᖅ PBR (ᑖᒪᔪᑦ ᐲᖅᑕᐅᒍᓐᓇᖅᑐᑦ), ᐋᖅᑭᒃᑕᐅᓯᒪᔪᑦ ᑯᐃᑦᒧᑦ (1998-ᒥ) ᐊᑐᖅᑕᐅᒪᔪᒃᑐᖅ ᑲᑎᖅᓱᐃᔾᔪᑎᐅᓪᓗᓂ ᐱᔭᐅᒍᓐᓇᖅᑐᓂᒃ ᐃᓄᓐᓄᑦ ᑖᒃᑯᓇᖅᓴᑦ ᐊᕐᕕᓃᖓᖅᑐᓂᒃ. PBR ᐱᑕᖃᑦᑎᑦᑎᑉᑦᑐᑦ ᐊᑐᓗᐊᖅᑕᐃᓕᒪᓂᒃᑯᑦ ᓇᓚᐅᒃᑖᕆᓪᓗᑎᒃ ᐱᔭᐅᖏᓐᓇᕈᓐᓇᓂᐊᖅᑐᓂᒃ (ᕼᐊᒻᒧᓪ ᐊᒻᒪᓗ ᓯᑎᐊᓐᓴᓐ 2003) ᑖᒃᑯᐊ ᐊᕐᕕᑦ ᓱᕐᕋᓗᐊᖅᑎᑕᐅᑦᑕᐃᓕᒪᓪᓗᑎᒃ ᐅᑉᐹᓗᓐᓂᑦ ᐅᓄᖅᓯᐹᓪᓕᐊᓗᑎᒃ ᐊᒥᓲᓂᖏᑎᒍᑦ.

PBR ᓇᓚᐅᒃᑖᖅᑕᐅᓯᒪᔪᑦ ᐃᒪᒃ:

$$PBR = N_{ᒥᑭᓂᖅᓱᑦ} (1/2\ R_{ᐊᖏᓂᖅᓱᑦ} F_R) \qquad ᓇᒥ,$$

$N_{ᒥᑭᓂᖅᓱᑦ}$ = 20-ᒋᔭᖓ ᓇᐃᓴᖅᑕᐅᓯᒪᔪᑦ ᐊᒥᓲᓂᖏᑦ
$R_{ᐊᖏᓂᖅᓱᑦ}$ = ᐊᒥᓲᓂᓇᔭᐅᒍᓐᓇᖅᑐᑦ ᐱᔭᐅᔪᓄᑦ (4->ᓴᓐᑎ ᐊᑕᐅᓯᖅ ᐊᕐᕌᒍᒥ ᐃᒪᕐᒥᐅᑕᓄᑦ; ᕿᐃᑦ 1998), ᒪᕐᕈᐃᓱᕐᓗᐊᕐᓗᒍ ᐱᔭᐅᖅᑕᕐᓂᐅᒐᔭᕋᓱᒋᔭᐅᔪᑦ ᐃᓱᒪᒋᓪᓗᒍ ᑎᑭᑕᐅᖏᓂᖅᐸᑦ

F_R = ᐅᑎᖅᑎᑦᑎᓇᓱᐊᕐᓂᕐᒧᑦ ᐊᑐᖅᑕᐅᔪᖅ ᐱᑦᔭᐃᒃᑯᑎᒃᑲᓐᓂᐅᓇᓱᐊᖅᑐᓂ ᐃᓱᒪᒋᓪᓗᒍ ᖃᐅᔨᒪᓇᖕᖏᑦᑐᑦ ᐊᕐᕕᐊᕈᑎᐅᔪᑦ ᐅᐸᕙᓗᓐᓃᑦ ᓇᓚᐅᒃᑖᓇᓂᒃᑯᑦ ᐊᑲᐅᖏᓕᐅᕈᑎᐅᔪᑦ. F_R = 0.1 ᓄᖑᑐᐃᓐᓇᓇᐊᖃᓕᖅᑐᓄᑦ, F_R = 0.5 ᐅᓗᓇᐊᓇᖅᑐᒦᓕᖅᑐᓄᑦ.

ᑕᐃᒃᑯᐊᓕ ᑭᓯᐊᓂᓕ ᖃᐅᔨᓴᕈᑎᒻᒪᓇᒥᓃᑦ ᖃᐅᔨᓴᕐᓂᖃᑦᑎᓪᓗᒋᑦ ᐊᒥᓲᓂᖏᓐᓄᑦ ᐊᒻᒪᓗ ᐊᕐᕕᑦ ᓇᑭᓐᖓᕐᓂᖏᓐᓄᑦ ᐋᖅᑭᒃᑕᐅᓚᐅᖅᑎᓪᓗᒋᑦ, ᐋᑑᑎᖃᑦᑎᐊᓂᖅᐹᖑᒍᓐᓇᖅᑐᖅ ᐊᒻᒪᓗ ᐊᑐᓗᐊᖅᑕᐃᓕᒪᔾᔪᑎᐅᓂᒃᑯᑦ ᐊᑐᖅᑕᐅᓗᓂ ᑖᓐᓇ PBR ᓇᓚᐅᒃᑖᓇᓂᖅ ᓄᖑᑐᐃᓐᓇᓇᐊᖃᓕᖅᑐᑦ ᖃᓄᐃᓕᖓᓂᓇᔭᖏᓐᓂᑦ. ᐊᑐᕐᓗᓂ ᐊᒥᓲᓂᖏᑕ ᓇᓚᐅᒃᑖᖅᑕᐅᓯᒪᔪᖏᓐᓂᑦ ᐃᒪᓐᓇ 7309 ᐊᕐᕕᑦ, ᐱᓕᓇᐊᖑᓚᐅᖅᑐᑦ ᑖᒃᑯᓇᖕᖓᑦ PBR ᓇᓗᓇᐃᖅᓯᔪᑦ ᑲᑎᓪᓗᒋᑦ ᐃᓄᓐᓄᑦ ᐱᔭᐅᔪᑦ ᕐᑯᓕᑦ 10 ᓂᕐᔪᑏᑦ ᑖᒃᑯᓇᖕᖓᑦ ᐊᕐᕕᓂᒃ ᑲᔪᓰᓐᓇᒋᓐᓇᕋᔭᖅᑐᖅ. ᑕᒪᓐᓇᓗ ᐱᖃᓯᐅᔭᐅᓪᓗᓂ ᐃᓗᓇᖏᓐᓂᑦ ᐆᒪᔪᑦ ᑐᕐᑯᓯᒪᔪᑦ ᐊᖑᓇᓱᒃᑕᐅᓂᒃᑯᑦ, ᐅᒥᐊᖅᔪᐊᕐᓄᑦ ᑐᓗᖅᑕᐅᓂᑯᐃᑦ, ᐊᐳᖅᑕᐅᓂᑯᑦ ᐊᒻᒪᓗ ᔭᒐᓐᓂᑯᑦ ᐊᒻᒪᓗ ᓄᓗᐊᖃᑦᑕᕐᓂᒃᑯᑦ ᑐᕐᑯᖃᑦᑕᖅᓯᒪᔪᑦ, ᐊᓯᖏᓪᓗᒃᑕᐅᖅ.

ᐃᓱᒪᑖᕈᑕᐅᔪᑦ

ᑕᐃᒪᓕ ᑭᓯᐊᓂ ᐊᒥᓲᓂᖏᑕ ᓇᓚᐅᒃᑖᖅᑕᐅᓯᒪᔪᑦ ᓈᒻᒪᒋᔭᐅᓕᓚᐅᖅᑎᓐᓇᒋᑦ ᖃᐅᔨᓴᕐᓂᒃᑯᑦ ᑖᒃᑯᓇᖕᖓᑦ ᑲᓇᑕᒥᐅᓄᑦ ᐊᒻᒪᓗ ᓯᓚᑖᓂᑦᑐᓄᑦ ᐱᓕᓇᖃᑎᐅᔪᓄᑦ, ᐃᒪᕐᒥᐅᑕᓕᓇᔨᒃᑯᑦ-ᖃᐅᔨᓴᕈᓗᔭᕐᓂᕐᒧᑦ C&A ᐊᑐᓕᕐᑯᔨᕗᑦ ᐸᖅᑭᓯᑦᑎᐊᓂᖅᐹᒃᑯᑦ ᑲᒪᒋᔭᐅᓂᐊᕐᓗᑎᒃ ᐊᑐᖅᑐᖃᕐᓗᓂ ᓇᓚᐅᖅᑖᖅᓯᓂᒃᑯᑦ ᐊᖑᓇᓱᒃᑕᐅᒍᓐᓇᖅᑐᑦ ᐅᓄᕐᓂᖏᓐᓂᑦ ᐊᕐᕕᑦ. ᑐᓐᖓᕕᖃᕐᓗᑎᒃ ᑖᒃᑯᐊ PBR ᓇᓚᐅᒃᑖᖅᓯᒪᔭᖏᓐᓂᒃ ᕐᑯᓕᓂ, ᑲᓇᓐᓇᖅᐸᓯᐊᓂ ᐅᑭᐅᖅᑕᖅᑑᐸ ᐊᕐᕕᖏᑦ ᕐᑯᓕᓂᑦ (10) ᐊᕐᕕᒍᓐᓇᕋᔭᖅᑐᑦ ᐃᓄᐃᑦ ᐊᕐᕌᒍᑕᒪᑦ. ᐊᕐᕕᑦ ᑐᕐᑯᑕᐅᔪᑦ ᐃᓄᓐᓄᑦ ᐱᓕᓇᓂᒃᑯᑦ (ᓲᕐᓗ, ᓄᓗᐊᖅᑎᑕᐅᔪᑦ, ᐅᒥᐊᖅᔪᐊᕐᒧᑦ ᐊᐳᖅᑕᐅᔪᑦ, ᐊᖑᓇᓱᒃᑕᐅᑎᓪᓗᒋᑦ ᔭᒐᐃᔭᐅᔪᑦ) ᐅᖓᑕᐅᔨᔭᓇᐊᖃᖏᓚᑦ ᕐᑯᓕᑦ ᐊᑕᐅᓯᕐᒥᒃ ᐊᕐᕌᒍᒥ. ᑖᓐᓇᓗ ᐱᖃᓯᐅᔭᔨᖏᑦᑐᖅ ᑐᕐᑯᖓᔪᒥᒃ ᓯᓗᒃᑐᖃᐸᑦ ᐅᐸᕙᓗᓐᓃᑦ ᐳᑦᑕᔪᓂᒃ ᑐᕐᑯᓱᒋᔭᐅᓐᓂᕈᑎᒃ ᐃᒻᒥᒃᑯᑦ ᐱᑦᔪᑎᖃᕐᓗᑎᒃ ᓲᕐᓗ ᐋᓐᓂᐊᓂᒃᑯᑦ ᐅᐸᕙᓗᓐᓃᑦ ᓂᕿᒃᓴᓯᐅᖅᑕᐅᓂᒃᑯᑦ (ᓲᕐᓗ ᐋᕐᓗᐃᑦ).

ᐊᓯᔾᔨᕈᑎᐅᓕᕐᓂᑯᑦ ᖃᐅᔨᓴᖅᑐᖃᒃᑲᓐᓂᓚᐅᖅᑎᓪᓗᒍ ᖃᐅᔨᓴᕐᓂᒃᑯᑦ ᑎᑎᕋᖅᑕᐅᓯᒪᔪᓂᒃ ᐅᐸᕙᓗᓐᓃᑦ ᐊᓯᔾᔨᕈᑎᐅᔪᑦ ᐃᓱᒪᒋᔭᐅᔪᓄᑦ ᐊᒥᓲᓂᖏᑕ ᓇᑭᓐᖓᕐᓂᖏᓐᓄᑦ ᐊᓯᔾᔨᒍᓐᓇᒪᑦ ᑖᒃᓱᒥᖓ ᐅᖃᐅᔾᔨᒋᐊᕈᑎᐅᔪᒥᒃ. ᑭᓯᐊᓂᓕ, ᐱᑦᔪᑎᒋᓪᓗᒍ ᐅᖃᐅᔾᔨᒋᐊᕈᑎᐅᔪᖅ ᑕᐸᕙᓂ ᓴᐳᔾᔨᓂᖃᕐᓱᐊᕐᒪᑦ ᐊᒻᒪᓗ ᐱᑦᔪᑎᒋᓪᓗᒍ ᐊᒥᓲᓂᖏᑕ ᓇᓚᐅᖅᑖᖅᑕᐅᓂᖏᑦ ᑐᓐᖓᕕᖃᒻᒪᑕ ᐃᓚᐃᓐᓇᑯᓗᖏᓐᓂᑦ ᐊᕐᕕᑦ ᓇᔪᖅᐸᑦᑕᖏᑕ, ᑕᐃᒪᓕ ᓯᕗᓂᒃᓴᑎᓐᓂᒃ ᐊᑐᓕᕐᑯᔨᔪᑎᐅᔪᑦ ᐅᓄᕐᓂᖏᑦ ᐊᕐᕌᒍᑕᒪᑦ ᐊᖑᓇᓱᒃᑕᐅᒍᓐᓇᖅᑐᑦ ᓄᑭᓪᓕᒋᐊᕐᓂᐊᖅᐳᑦ ᐊᑖᓄᑦ ᕐᑯᓕᑦ ᓂᕐᔪᑏᑦ.

ᐅᖃᖃᑎᒌᓐᓂᖅ:

ᓯᕗᓪᓕᖅᐹᒥ ᖃᐅᔨᓴᕈᑎᒥᓂᑦ ᖃᐅᔨᓴᖅᑐᖃᑦᑎᓪᓗᒍ, ᓯᕗᓕᖅᓱᕈᑎᖏᑦ ᐊᒻᒪᓗ ᓂᕕᖓᑖᓕᖅᓱᐃᓂᒃᑯᑦ ᖃᐅᔨᓴᕈᑎᒥᓂᑦ ᓴᖅᑭᑕᐅᓚᐅᖅᑐᑦ ᐊᒻᒪᓗ ᐅᖃᐅᓯᓇᔭᐅᓪᓗᑎᒃ ᐃᓕᓐᓂᐊᕐᓂᖃᑦᑎᓪᓗᒋᓗᑦ ᐊᕐᕕᓄᑦ ᐃᖃᓗᓐᓂ ᐃᐳᕈ 2006-ᖑᑎᓪᓗᒍ. ᐊᓯᒃᑲᓐᓂᖏᑦ ᓇᓗᓇᐃᖅᑎᓇᓯᒪᔪᑦ ᐱᓕᓇᓂᐅᔪᒧᑦ ᑕᒪᑐᒧᖓ ᕿᒥᕐᕈᔭᐅᓂᐊᕐᒥᔪᑦ ᐊᕐᕕᓂᒃ ᐅᑎᖅᑎᑦᑎᒐᓱᐊᕐᓂᕐᒧᑦ ᐸᕐᓇᐃᓂᕐᒧᑦ ᑲᑎᒪᓂᖃᓕᖅᐸᑕ ᒫᑦᓯ 2007-ᐸᒥ.

ᐋᖅᑭᓱᖅᓯᒪᔭᖓ:

ᓕᐅᓇ ᑑᒃ, ᐅᑭᐅᖅᑕᖅᑐᒥ ᖃᐅᔨᓴᕐᓂᕐᒧᑦ ᐱᓕᓇᕕᐅᔪᖅ, ᐃᒪᕐᒥᐅᑕᓕᓇᔨᒃᑯᑦ, ᕿᑎᕐᒥᐅᓂ ᐊᒻᒪᓗ ᐅᑭᐅᖅᑕᖅᑐᒥ, ᐅᐊᓇᐸᐃ

ᐅᓪᓗᖓ: 8 ᔭᓄᐊᓕ 2007

ᐃᓚᒍᑕᖓ A

ᓇᐃᓪᓕᒋᐊᖅᓯᒪᔪᑦ ᖃᖓᑕᓲᒃᑯᑦ ᖃᐅᔨᓴᕐᓂᐅᔪᖅ ᐊᒥᓲᓂᖏᑕ ᓇᓚᐅᒃᑖᖅᓯᓂᕐᒧᑦ ᐊᒻᒪᓗ ᓇᓚᐅᒃᑖᖅᑕᖏᑦ PBR

ᐊᕐᕌᒍᐊᓂ 2002 ᑎᑭᑦᑐᒍ 2004, ᖃᖓᑕᓲᒃᑯᑦ ᖃᐅᔨᓴᕐᓂᖃᖃᑦᑕᓚᐅᖅᑐᑦ ᑲᓇᓐᓇᖅᐸᓯᐊᓂ ᐅᑭᐅᖅᑕᖅᑑᑉ ᓇᓚᐅᒃᑖᖅᓯᓇᓱᐊᖅᑐᑎᒃ ᐊᒥᓲᓂᖏᓐᓂᒃ ᐅᓪᓗᒥᐅᔪᖅ ᐊᕐᕕᑦ. 2002-ᒥ, ᖃᐅᔨᓴᕐᓂᖃᓚᐅᖅᑐᑦ ᑕᓯᐅᔭᒥ ᐊᒻᒪᓗ ᐃᓗᓇᖓᓂᐸᓗᒃ ᑰᒐᓇᔪᑉ ᑕᕆᐅᖓᓂ ᐊᒻᒪᓗ ᐃᕿᕋᓴᐅᑉ ᐃᒪᖓᓂ. 2003-ᒥ, ᖃᐅᔨᓴᕐᓂᖃᓚᐅᖅᑐᑦ ᓴᓐᓂᕈᑎᐅᑉ ᑐᓄᓂᕈᓯᐅᓪᓗ ᐃᒪᖓᓂ, ᑲᓇᓐᓇᖓᓂ ᕿᑭᖅᑖᓗᑉ ᓯᔾᔭᖓᑕ, ᓂᒋᖅᐸᓯᐊᓂ ᐃᕿᕋᓴᐅᑉ, ᐱᖓᓐᓇᖅᐸᓯᐊᓂ ᓴᓂᕋᔭᐅᑉ ᑕᕆᐅᖓᑕ ᐊᒻᒪᓗ ᐅᐊᓐᓇᖅ-ᐱᖓᓐᓇᖅᐸᓯᐊ ᕼᐊᑦᓴᓐ ᐃᒪᖓᑕ. 2004-ᒥ, ᖃᐅᔨᓴᕐᓂᖃᓚᐅᖅᑐᑦ ᑕᓯᐅᔭᒥ, ᓴᓐᓂᕈᑎᐅᑉ ᑐᓄᓂᕈᓯᐅᓪᓗ ᐃᒪᖓᓂ ᐊᒻᒪᓗ ᑐᕕᖓᕐᔪᑉ ᑕᕆᐅᖓ, ᐊᒥᓲᖏᑦᑐᓂᒃ ᑕᑯᔪᖃᓚᐅᖅᑐᖅ ᓇᓚᐅᒃᑖᖅᓯᓂᐊᕐᓗᑎᒃ ᐊᒥᓲᓂᖏᓐᓂᑦ. ᖃᐅᔨᓴᖅᓂᐅᓚᐅᖅᑐᑦ ᐊᑐᓚᐅᖅᑐᑦ ᑭᑉᐹᓕᑦᑐᑯᑖᓂᒃ ᖃᐅᔨᓴᕈᑎᓂᒃ ᐊᑯᑦᑐᓂᖃᑦᑐᑎᒃ 23-ᒥᑦ 55-ᒧᑦ km.

ᐊᖏᓂᖅᐹᖓᔪᖅ ᓇᓚᐅᒃᑖᖅᑕᐅᓯᒪᔪᑦ ᓇᐃᓴᐅᑎᖏᑎᒍᑦ ᓯᕗᓪᓕᕐᒥᒃ ᖃᐅᔨᓴᒻᒪᓇᓐᓂᖃᑦᑎᓪᓗᒋᑦ ᑐᓐᖓᕕᖃᑦᑐᑦ ᑕᑯᔭᐅᓚᐅᖅᑐᓂᒃ ᐊᕐᕕᓂᒃ 2002-ᒥ ᑕᒫᓂ ᑕᓯᐅᔭᒥ, ᑰᒐᓇᔪᑉ ᑕᕆᐅᖓᓂ ᐊᒻᒪᓗ ᐃᕿᕋᓴᐅᑉ ᐃᒪᖏᓐᓂ. ᑲᑎᑦᑐᒋᑦ 31 ᐊᕐᕕᑦ ᓇᐃᓴᖅᑕᐅᓚᐅᖅᑐᑦ ᖃᐅᔨᓴᕐᓂᖃᑦᑎᓪᓗᒋᑦ, ᒪᓕᒃᑐᑎᒃ 21 ᑲᑎᓐᖓᖏᑦᑐᑦ ᐊᕐᕕᑦ ᑕᑯᔭᐅᓚᐅᖅᑐᑦ. ᐋᖅᑭᒋᐊᕈᑎᐅᔪᑦ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᖏᑦᑐᒥ ᕿᑎᖏᓐᓂ ᖃᐅᔨᓴᕈᑎᐅᔪᑦ ᐊᒻᒪᓗ ᐊᖅᑲᐅᒪᔪᓄᑦ ᐊᕐᕕᓄᑦ, ᐱᓕᕆᐊᖃᕐᓂᒃᑯᑦ ᓇᓚᐅᒃᑖᖅᑕᐅᔪᑦ ᑕᒫᓂ ᐃᒪᖓᓂ ᐃᒪᓐᓇᐅᔭᑦ 7,309 ᐊᕐᕕᑦ (95% CI = 3,161-16,900).

ᓇᓚᐅᒃᑖᖅᑕᐅᓂᖏᑦ ᐆᒪᔪᐃᑦ ᐱᔭᐅᒍᓐᓇᖅᑐᑦ (PBR) ᓯᕗᓪᓕᕐᒥ ᖃᖓᑕᓲᒃᑯᑦ ᖃᐅᔨᓴᕐᓂᖃᑦᑎᓪᓗᒋᑦ ᓇᓚᐅᒃᑖᖅᑕᐅᓯᒪᔪᑦ ᓇᐃᓕᒋᐊᖅᑕᐅᓯᒪᕗᑦ ᑎᑎᕋᖅᓯᒪᔪᖅ 1-ᒥ ᐊᑖᓂ.

ᑎᑎᕋᖅᓯᒪᔪᖅ 1. ᓇᐃᓪᓕᒋᐊᖅᓯᒪᔪᑦ ᓯᕗᓪᓕᕐᒥ ᖃᖓᑕᓲᒃᑯᑦ ᖃᐅᔨᓴᕐᓂᖃᑦᑎᓪᓗᒋᑦ ᓇᓚᐅᖅᑖᖅᑕᐅᓯᒪᔪᑦ ᐊᒻᒪᓗ PBR ᓇᓚᐅᒃᑖᖅᓯᒪᔭᖏᑦ ᐃᓛᒃᑯᑦ ᖃᐅᔨᓴᖅᕕᐅᔪᓂ. PBR-ᖓᔪᑦ ᓇᓚᐅᒃᑖᖅᑕᐅᓯᒪᔪᑦ ᑖᒃᑯᓄᖓ COSEWIC ᖃᓄᐃᓕᖓᓂᕆᔭᐅᔪᓄᑦ ᓄᖑᑐᐃᓐᓇᕆᐊᖃᓕᖅᑐᓄᑦ ᐊᒻᒪᓗ ᐅᓗᕆᐊᓇᖅᑐᒦᓕᕐᓂᖏᓐᓄᑦ. ᐊᑯᓂᐅᓂᕆᓚᐅᖅᑕᖓ ᖃᖓᓂ ᓇᓚᐅᖅᑖᖅᓯᓂᖃᑦᑎᓪᓗᒋᑦ ᐃᒪᓐᓇᐅᓚᐅᖅᑐᖅ 0.253 (ᐊᕐᕕᓪᓕ ᐳᐃᓯᒪᓂᖃᓲᖑᔪᑦ 1/3-ᒥᑦ ᐊᑯᓂᐅᓂᖃᑦᑐᑎᒃ).

ᖃᐅᔨᓴᖅᕕᐅᔪᑦ	ᐳᑦᑕᓂᖏᓐᓄᑦ ᓇᓚᐅᒃᑖᖅᓯᓂᖅ	ᐊᖅᑲᐅᒪᓂᖏᓐᓄᑦ-ᐋᖅᑭᒋᐊᖅᑕᐅᓯᒪᔪᑦ ᓇᓚᐅᒃᑖᖅᓯᓂᖅ	$N_{ᒥᑭᓂᖅᐹᒃᑯᑦ}$	PBR (ᓄᖑᑐᐃᓐᓇᕆᐊᖃᓕᖅᑐᓄᑦ)	PBR (ᐅᓗᕆᐊᓇᖅᑐᒦᓕᕐᓂᖏᓐᓄᑦ)
ᑰᒐᓇᔪᑉ ᑕᕆᐅᖓ, ᐃᕿᕋᓴᐅᑉ ᐃᒪᖓ, ᑕᓯᐅᔭᖅ (2002)	1847	7309	5091	51	10
ᐃᕿᕋᓴᐅᑉ ᐃᒪᖓ, ᓴᓂᕋᔭᐅᑉ ᑕᕆᐅᖓ ᐊᒻᒪᓗ ᐅᐊᓐᓇᖅᐸᓯᐊ ᕼᐊᑦᓴᓐ ᐃᒪᖓᑕ (2003)	248	981	607	6	1
ᓴᓐᓂᕈᑎᐅᑉ ᑐᓄᓂᕈᓯᐅᓪᓗ ᐃᒪᖓ ᐊᒻᒪᓗ ᑲᓇᓐᓇᖅᐸᓯᐊ ᕿᑭᖅᑖᓗᑉ(2003)	462	1828	1373	14	3