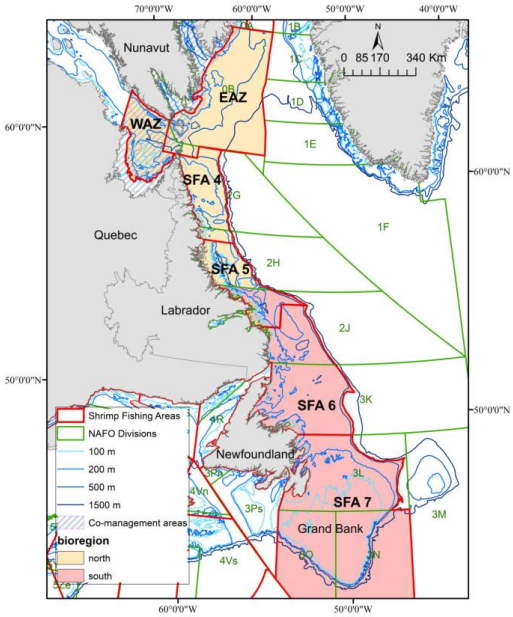
ᐅᑭᐅᖅᑕᖅᑐᒥ ᑭᖑᒃᐸᐃᑦ (*PANDALUS BOREALIS*) ᐅᐊᓐᓇᖓᓂ ᐊᒻᒪ ᓂᒋᖓᓂ ᑭᖑᑉᐸᐃᑦ ᖃᐅᔨᓴᓂᕐᒧᑦ ᐊᕕᑦᑐᖅᓯᒪᔪᑦ – ᕿᒥᕐᕈᔭᐅᓂᖏᑦ ᐊᐅᓚᑦᑎᓂᕐᒥ ᐸᕐᓇᒍᑎᒧᑦ ᖃᐅᔨᓴᐃᓂᖅ (MSE) ᐊᐅᓚᑦᑎᓂᕐᒧᑦ ᐊᑐᖅᑕᐅᔪᓐᓇᖅᑐᖅ ᐊᒻᒪ ᓂᕈᐊᖅᑕᐅᔪᓐᓇᖅᑐᖅ ᐊᐅᓚᑦᑎᓂᕐᒧᑦ ᐊᑐᖅᑕᐅᔭᕆᐊᓖᑦ

ᐅᑭᐅᖅᑕᖅᑐᒥ ᑭᖑᒃᐸᐃᑦ (Pandalus borealis) ᐊᔾᔨᙱᐊᖅ: ᐃᖃᓗᓕᕆᓂᕐᒧᑦ ᐃᒪᕐᒥᐅᑕᓕᕆᓂᕐᒧᓪᓗ ᑲᓇᑕᒥ.



ᐊᔾᔨᙱᐊᖅ 1. ᓄᓇᒥ ᓇᒦᓐᓂᖓᓄ ᐊᐅᓚᑦᑎᓂᕐᒧᑦ ᓇᒦᓐᓂᖏᑦ ᑲᓇᑕᒥ ᐊᑭᐊᑕᖅᑐᒥ ᑭᖑᑉᐸᓄᑦ, ᐱᖃᓯᐅᑎᓪᓗᑎ ᐅᐊᓐᓇᖓ (ᖁᓱᖅᑐᖅ) ᐊᒻᒪ ᓂᒋᖓ (ᐊᐅᐸᖅᑐᖅ) ᑭᖑᑉᐸᐃᑦ ᖃᐅᔨᓴᓂᕐᒧᑦ ᐊᕕᑦᑐᖅᓯᒪᔪᑦ.

ᓇᐃᓈᕈᑎᒃ

- ᓄᓇᒥ ᓇᒦᓐᓂᖓᓄ ᐃᓚᒋᓕᐅᔾᔭᐅᓯᒪᔪᑦ ᑭᓪᓕᓯᓂᐊᖅᑕᐅᓯᒪᔪᑦ ᑭᖑᑉᐸᑦᑕᐅᔪᑦ ᑕᑭᓂᖏᑦ/ᐊᖏᓂᖏᑦ (SISCALS) ᖃᐅᔨᓴᓂᕐᒧᑦ ᐊᑐᖅᑕᐅᔪᓐᓇᖅᑐᖅ, ᓴᖅᑭᖅᑎᑕᐅᓯᒪᔪᑦ ᐃᓚᒋᓪᓗᓂᐅ ᑏᓲᐱᕆ 2024 ᐅᑭᐅᑕᖅᑐᒥ ᑭᖑᑉᐸᐃᑦ ᖃᐅᔨᓴᓂᕐᒧᑦ ᓴᓇᓯᒪᓂᖓ, ᐊᖏᖅᑲᑕᐅᓚᐅᖅᑐᖅ ᑐᓐᖑᕕᒋᓪᓗᓂᐅᒃ ᐊᐅᓚᑦᑎᓂᕐᒧᑦ ᐊᑐᖅᑕᐅᔪᓐᓇᖅᑐᑦ ᐊᑐᖅᑕᐅᓚᐅᖅᑐᑦ ᐊᐅᓚᑦᑎᓂᕐᒧᑦ ᐸᕐᓇᐅᑦ ᖃᐅᔨᓴᓂᕐᒧᑦ (MSE).
- ᐅᐊᓐᓇᖓᓄ ᑭᖑᑉᐸᐃᑦ ᖃᐅᔨᓴᓂᕐᒧᑦ ᐊᕕᑐᖅᓯᒪᔪᒧᑦ, ᑕᑭᓂᕆᓚᐅᖅᑕᖏᑦ ᑐᑭᓯᒋᐊᕈᑏᑦ ᐊᑐᖅᑕᐅᔪᑦ ᐊᐅᓚᑦᑎᓂᕐᒧᑦ ᐊᑐᖅᑕᐅᔪᓐᓇᖅᑐᑦ ᐱᖃᓯᐅᔾᔨᑐᐃᓐᓇᖅᑐᑦ ᐊᕐᕌᒍᖏᓐᓄᑦ 2007-2024. ᐊᕐᕌᒍᐃᑦ ᓯᕗᓂᐊᒍᑦ 2007 ᐋᖅᑕᐅᓚᐅᖅᑐᑦ ᐱᓕᕆᐊᖃᕐᓗᑎ ᐱᑕᖃᑦᑎᐊᖏᓐᓂᖏᓐᓄᑦ ᑲᓇᓐᓇᖓᓂ ᖃᐅᔨᓴᓂᕐᒧᑦ ᑭᓪᓕᖓ ᖃᐅᔨᓴᓂᕐᒧᑦ ᐱᖃᓯᐅᔾᔭᐅᔪᑦ ᑖᒃᑯᓇᓂ ᐊᕐᒍᕋᑖᖅᓯᒪᔪᓂᑦ.
- ᐊᐅᓚᑦᑎᓂᕐᒧᑦ ᐊᑐᖅᑕᐅᔪᓐᓇᖅᑐᑦ ᓴᖅᑭᖅᑎᑕᐅᓚᐅᖅᑐᑦ ᑭᒡᒐᖅᑐᐃᓗᑎ ᓈᒻᒪᓐᓂᖃᕈᓐᓇᖅᑐᑎ ᑭᖑᑉᐸᐃᑦ ᐊᔾᔨᒌᖏᓐᓂᖏᓐᓄᑦ ᐊᒻᒪ ᐃᓚᒋᓕᐅᔾᔭᐅᓗᑎ ᓇᓗᓇᕈᑎᑕᖃᖅᑐᓄᑦ ᐱᔭᐅᓂᖏᓐᓄᑦ, ᐱᕈᕐᓂᖏᓐᓄᑦ, ᓇᒻᒥᓂᖅ ᑐᕐᑯᖃᑦᑕᕐᓂᖏᓐᓄᑦ, ᑭᖑᑉᐸᕈᑦᑎᐊᕐᓂᖏᓐᓄᑦ, ᐊᒻᒪ ᖃᐅᔨᓴᓂᕐᒧᑦ ᑎᑎᕋᖅᑕᐅᓯᒪᔪᑦ.

- ᒪᕐᕉᒃ ᐊᔾᔨᒌᖕᒋᑦᑐᑦ ᐱᔭᐅᓂᖕᒋᓐᓄᑦ ᑎᒥᐅᔪᑦ ᓇᓗᓇᐃᖅᑕᐅᓚᐅᖅᑐᑦ ᐅᑯᓇᓂᐅᑎᑦᓗᒍ 1996-2019 ᐊᒻᒪ ᐊᑐᖅᑕᐅᓚᐅᖅᑐᑦ ᓴᖅᑭᑎᑦᑎᓗᑎ ᒪᕐᕉᓐᓂ ᐊᐅᓚᑦᑎᓂᕐᒧᑦ ᐊᑐᖅᑕᐅᔪᓐᓇᖅᑐᑦ ᐱᔭᐅᓂᖕᒋᓐᓄᑦ ᖃᓄᐃᓕᖓᓂᐅᔪᓐᓇᖅᑐᑦ ᐊᑐᖅᑕᐅᔪᑦ ᐅᑭᓂ MSE:
  - ᕿᓚᒥᐅᔪᒧᖅᓯᒪᔪᑦ ᐊᑦᑎᑦᑑᕋᑖᓚᐅᖅᑐᓂᑦ ᐱᔭᐅᓂᖕᒋᓐᓄᑦ (ᑕᕝᕙᓂᓴᐃᓐᓇᖅ ᖃᖓᒃᑰᓂᖓ ᐊᑐᖅᑕᐅᔪᑦ ᐅᑭᓂ ᒫᕐᓯ 2025 ᖃᐅᔨᓴᓂᕐᒧᑦ ᒥᓴᐅᓴᑦᑕᐅᔪᑦ); ᐊᒻᒪ,
  - ᐊᑕᖕᒋᖅᑐᓂᑦ ᖃᖓᒃᑰᓂᖕᒋᑦ ᖁᕝᕙᓯᓐᓂᖅᓴᐅᓚᐅᖅᑐᓂᑦ ᐱᔭᐅᓂᖕᒋᓐᓄᑦ ᐊᖕᒋᓂᖅᓴᐅᓪᓗᑎ ᐊᔾᔨᒌᖕᒋᓐᓂᖕᒋᑦ.
- MSE ᖃᓄᐃᓘᕐᓂᖕᒋᑦ ᑭᓪᓕᓯᓂᐊᖅᑕᐅᓯᒪᔪᑦ ᐋᖅᑭᑦᑕᐅᓚᐅᖅᑐᑦ ᐊᑐᖅᑐᑎ ᐅᖁᒪᐃᓐᓂᖃᖅᑎᑕᐅᔪᑦ ᑲᑎᓐᖓᔪᓂᑦ ᖃᓄᐃᓐᓂᓇᔭᖕᒋᑦ ᐊᑐᓂᖕᒋᓐᓂ ᒪᕐᕉᓐᓂ ᐊᐅᓚᑦᑎᓂᕐᒧᑦ ᐊᑐᖅᑕᐅᔪᓐᓇᖅᑐᓂᑦ. ᐅᐊᓐᓇᖓᓂ ᑭᖑᑉᐸᐃᑦ ᖃᐅᔨᓴᓂᕐᒧᑦ ᐊᕕᑦᑐᖅᓯᒪᔪᖅ, ᐊᐅᓚᑦᑎᓂᕐᒧᑦ ᐊᑐᖅᑕᐅᔪᓐᓇᖅᑐᑦ ᐊᔾᔨᐸᓗᒋᓚᐅᖅᑕᖕᒋᑦ ᐊᒻᒪ ᑕᐸᒪᓐᓂᖓᓄᑦ ᐊᔾᔨᒌᓐᓂᐊᖃᖅᑐᓂᑦ ᐅᖁᒪᐃᓂᖃᖅᑎᑕᐅᔪᑦ (50% ᐊᑐᓂ). ᓂᒋᖓᓂ ᑭᖑᑉᐸᐃᑦ ᖃᐅᔨᓴᓂᕐᒧᑦ ᐊᕕᑦᑐᖅᓯᒪᔪᖅ, ᐊᑦᑎᑑᕋᑖᓚᐅᖅᑐᑦ ᐱᔭᐅᓂᖕᒋᓐᓄᑦ ᑎᒥᐅᔪᖅ ᐃᓱᒪᒋᔭᐅᓚᐅᖅᑐᖅ ᐱᔾᔪᑎᖃᖅᑎᑦᑎᓂᖅᓴᐅᓪᓗᓂ ᖃᓂᑦᑐᒧᑦ ᐊᒻᒪ ᐱᓚᐅᖅᑐᑦ ᖁᕝᕙᓯᓐᓂᖅᓴᐅᓚᐅᖅᑐᑦ ᐅᖁᒪᐃᓐᓂᖃᖅᑎᑦᑎᓂᕐᒧᑦ (90%) ᓴᓂᐊᓂ ᐊᑕᖕᒋᖅᑐᓂ ᖃᖓᒃᑰᓂᖕᒋᓐᓄᑦ (10%).
- ᓇᓗᓇᐃᖅᓯᓂᕐᒧᑦ ᖃᐅᔨᓴᓂᐅᔪᑦ ᓇᓗᓇᐃᖅᓯᓚᐅᖅᑐᑦ ᑖᒃᑯᐊ 28 ᑭᖑᑉᐸᑦᑕᐅᔪᓂᑦ ᐃᓱᒪᓕᐅᓂᕐᒧᑦ ᒪᓕᒐᐃᑦ (HDR) ᓇᓗᓇᐃᖅᑕᐅᓯᒪᔪᑦ ᑐᓐᖓᕕᖅᑐᑎᑦ ᑲᑎᓐᖓᔪᓂᑦ ᑭᖑᑉᐸᑦᑕᐅᔪᓂᑦ ᐊᐅᓚᑕᐅᔪᓂᑦ ᒪᓕᒐᖓ ᖃᓄᐃᑦᑑᓂᖓ, ᐊᑐᖅᑕᐅᓂᖕᒋᓐᓄᑦ ᖁᕝᕙᓯᓐᓂᖕᒋᑦ, HDR ᐊᑐᖅᑕᐅᓂᖓᑎᒍᖅᑐᑦ, ᐊᒻᒪ ᐊᒥᓲᓛᓇᔪᓐᓇᖅᑕᖕᒋᑦ ᑲᑎᑦᑐᒋᑦ ᑭᖑᑉᐸᑦᑕᐅᔪᓐᓇᖅᑎᑕᐅᔪᑦ ᐊᓯᔾᔨᖅᑐᑦ ᓴᖅᑭᑎᑦᑎᓚᐅᖅᑐᑦ ᓴᖅᑭᓂᐊᖅᓯᒪᔭᖕᒋᓐᓂ.
- ᐊᑕᖕᒋᖅᑐᑎ HDR ᓴᓇᔭᐅᓯᒪᔪᑦ ᐊᐅᓚᖃᑦᑕᕐᓗᑎ ᐊᕐᕌᒍᑕᒫᑦ ᐊᑐᖅᑐᑎ ᐊᕐᕌᓂᒋᓚᐅᖅᑕᖓᓂ ᑲᑎᑦᑐᒋᑦ ᑭᖑᑉᐸᑦᑎᑕᐅᔪᓐᓇᖅᑐᑦ, ᐃᖃᓗᑦᑕᐅᔪᓐᓇᖅᑐᑦ ᐊᒥᓱᑦ ᐆᒪᔪᐃᑦ ᐊᔾᔨᒌᖕᒋᑦᑐᑦ ᑎᑎᕋᖅᓯᒪᔪᑦ ᐊᒻᒪ ᓱᕙᐃᔭᖅᑐᑦ ᑭᖑᑉᐸᐃᑦ ᐊᒥᓱᑦ ᐅᒪᔪᐃᑦ ᐊᔾᔨᒌᖕᒋᑦᑐᑦ ᑎᑎᕋᖅᓯᒪᔪᑦ. ᑖᒃᑯᓇᓂ ᐊᕐᕌᒍᑕᒫᑦ ᐊᑐᖅᑕᐅᕙᑦᑐᑦ, ᐱᐅᔪᒻᒪᓇᒻᒥ ᖃᓄᐃᓕᖓᓂᖕᒋᑦ (ᓴᖅᑭᖅᑎᑕᐅᓂᐊᖅᑐᑦ) ᖃᐅᔨᓴᖅᑕᐅᓂᐊᕐᒥᔪᑦᑕᐅᖅ.
- ᖁᓕᑦ ᒪᕐᕉᓪᓗ (12) ᖃᓄᐃᓘᖃᑦᑕᕐᓂᖕᒋᓐᓄᑦ ᓈᓴᐅᑎᖕᒋᑦ ᐊᑐᖅᑕᐅᓚᐅᖅᑐᑦ ᐃᓗᐊᓅᖅᑐᓂᑦ 3 ᖃᓄᐃᑦᑐᒡᒍᑕᐅᓂᖕᒋᓐᓄᑦ (ᓴᐳᒻᒥᑦᑎᓂᕐᒧᑦ, ᓴᖅᑭᑎᑦᑎᔪᑦ ᐊᒻᒪ ᑕᐃᒫᓴᐃᓐᓈᖕᒋᓐᓇᕐᓂᖕᒋᑦ). ᓈᓴᐅᑎᖕᒋᑦ ᐋᖅᑭᑦᑕᐅᓚᐅᖅᑐᑦ ᐊᒻᒪ ᐊᑐᖅᑎᑕᐅᓪᓗᑎ ᐊᑕᖕᒋᖅᑐᓄᑦ HDR; ᐱᔾᔪᑎᒋᖃᓕᖅᑎᑕᖕᒋᑦ ᑕᑯᓴᐅᑎᑦᑎᔪᑦ ᓴᐳᒻᒥᑦᑎᓂᕐᒧᑦ-ᓴᖅᑭᑎᑦᑎᔪᑦ-ᑕᐃᒫᓴᐃᓐᓈᖕᒋᓐᓇᕐᓂᖕᒋᑦ ᖃᓄᕿᓘᖃᑦᑕᐅᑎᓂᖕᒋᑦ, ᓇᓗᓇᐃᖅᓯᔪᑦ ᖃᓄᐃᓘᖃᑦᑕᕐᓂᖕᒋᓐᓄᑦ ᓈᓴᐅᑎᖕᒋᑦ ᓈᒻᒪᓐᓂᖃᖅᑐᑦ ᓇᓗᓇᐃᖅᓯᒍᑎᐅᓪᓗᑎ ᖃᓄᐃᓘᖃᑦᑕᕐᓂᖕᒋᓐᓄᑦ ᐊᑦᑐᐊᓂᓕᓐᓄᑦ ᑐᕌᖓᖕᒋᓐᓄᑦ.
- ᐊᐅᓚᑦᑎᓂᕐᒧᑦ ᐊᑐᖅᑕᐅᔪᓐᓇᖅᑐᑦ ᓴᓇᓯᒪᓂᖓ ᐊᒻᒪ ᖃᓄᐃᓘᖃᑦᑕᕐᓂᖓ ᓈᓴᐅᑎᖕᒋᑦ ᕿᒥᕐᕈᔭᐅᓚᐅᖅᑐᑦ ᐃᑲᔪᕐᓗᑎ MSE ᐱᕙᓪᓕᐊᓂᖓ; ᖃᓄᐃᓘᖃᑦᑕᕐᓂᖓ HDR ᑎᑭᑦᑎᓂᕐᒧᑦ ᐊᐅᓚᑦᑎᓂᕐᒧᑦ ᑐᕌᖓᖕᒋᓐᓄᑦ ᕿᒥᕐᕈᔭᐅᓚᐅᖕᒋᑦᑐᑦ. ᑕᐃᒪᐃᒃᑲᓗᐊᖅᑎᓪᓗᒍ, ᐆᑦᑐᕋᐅᑎ HDR ᑕᑯᓴᐅᑎᑦᑎᓚᐅᖅᑐᖅ ᐊᔾᔨᒌᖕᒋᑦᑐᓂᑦ ᖃᓄᐃᓘᖃᑦᑕᕐᓂᖓᓄᑦ ᓴᐳᒻᒥᑦᑎᓂᕐᒧᑦ, ᓴᖅᑭᑎᑦᑎᔪᑦ ᐊᒻᒪ ᑕᐃᒫᓴᐃᓐᓈᖕᒋᓐᓇᕐᓂᖕᒋᑦ ᓈᓴᐅᑎᖕᒋᑦ ᐊᒻᒪᓗᑦᑕᐅᖅ ᑭᖑᑉᐸᐃᑦ ᖃᐅᔨᓴᖅᑕᐅᓂᖕᒋᓐᓄᑦ ᐊᕕᑦᑐᖅᓯᒪᔪᓂᑦ.
- ᐊᓯᖕᒋᑦ ᓇᓗᓇᕈᑎᐅᔪᑦ ᓇᓗᓇᐃᖅᑕᐅᓚᐅᖅᑐᑦ ᕿᒥᕐᕈᔭᐅᔭᕆᐊᖃᖅᑐᑦ ᓯᕗᓂᓴᒥ ᐃᓚᒋᓕᐅᔭᐅᓂᖕᒋᓐᓄᑦ ᐊᐅᓚᓂᖕᒋᓐᓄᑦ ᐊᑐᖅᑕᐅᔪᓐᓇᖅᑐᓂᑦ. ᐊᑐᓕᖁᔭᐅᔪᖅ ᓂᕆᐅᒋᔭᐅᔪᑦ ᖃᓄᐃᓘᖃᑦᑕᕐᓂᖕᒋᑦ ᖃᓄᐃᑦᑐᑐᐃᓐᓇᐃᑦ ᐊᖕᒋᖅᑕᐅᓯᒪᔪᑦ HDR ᕿᒥᕐᕈᔭᐅᖃᑦᑕᓂᐊᖅᑐᑎ (ᓱᕐᓗ, 3-4 ᐊᕐᕌᒍᐃᑦ) ᓄᑖᖑᓗᑎ ᐊᐅᓚᑦᑎᓂᕐᒧᑦ ᐊᑐᖅᑕᐅᔪᓐᓇᖅᑐᑦ ᐊᒻᒪ ᖃᓄᐃᓘᖃᑦᑕᕐᓂᖓᓄ ᐊᑐᖅᑕᐅᔪᑦ ᓴᖅᑭᑎᑦᑎᔪᑦ ᑭᓯᐊᓂ ᕿᒥᕐᕈᓂᓪᓚᓇᐅᔪᒥ ᐊᓯᐊᒍᑦ ᐱᒋᐊᖅᑎᑕᐅᒍᓂ ᓈᒻᒪᒋᔭᐅᔪᓂᑦ ᖃᓄᐃᓕᖓᓂᖕᒋᓐᓄᑦ.